



September 27 to October 01



Brazilian Materials  
Research Society

Excellence in science and research  
in materials technology in Brazil

# Program Book



# Brazil MRS Meeting

*Rio  
2015*

September 27 to October 01

SBPMat  
Brazil-MRS

Brazilian Materials  
Research Society

Excellence in science and research  
in materials technology in Brazil

## Program Book



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Brazilian MRS Meeting (14.: 2015 : Rio de Janeiro – RJ)  
XIV Brazilian MRS Meeting Program book (SBPMat) / Sociedade Brasileira de Materiais  
– Rio de Janeiro : SBPMat, 2015.  
474p

1. Materiais. 2. Pesquisa em materiais. I. Sociedade Brasileira de Materiais  
– SBPMat. II. Título

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## Welcome message

On behalf of the board of the Brazilian Materials Research Society, B-MRS, I warmly welcome all the participants to its 2015 Meeting. This scientific meeting, which is the biggest for Materials Science in Latin America, provides an evolving forum for discussion of different topics in Materials Science, as well as it promotes exchange between researchers of more than 30 countries. The tradition of B-MRS is to organize annual meetings in different regions of Brazil, and in this year it is held in Rio de Janeiro, nicknamed as Marvellous City. This edition of B-MRS Meeting consists of 25 Symposia, including the 8th International Summit on Organic and Hybrid Solar Cells Stability (ISOS-8), and a special topic on "New horizons in Materials Science". We gratefully acknowledge the organizers of this meeting, as well as all those who in some way contributed to its organization. I wish you all some fruitful and nice days in Rio de Janeiro.

**Roberto M. Faria** (President of Brazil MRS)





## Welcome to the XIV Brazilian MRS Society Meeting

Dear Participants

We would like to welcome you to the XIV Brazilian Materials Research Society Annual Meeting, held on 27 September to 1 October 2015, in Rio de Janeiro. This year the meeting congregates almost 2000 participants and has 2325 accepted abstracts.

The XIV Annual Meeting is comprised of 26 Symposia, 2 workshops and one symposium organized by the University Chapters. The program also includes 7 Plenary Lectures. After 13 years of the first annual meeting of SBPMat today's figures are impressive. At that meeting, also held in Rio de Janeiro, they were 5 symposia, one workshop and no more than 300 participants.

The present edition of the Annual Meeting cover almost all relevant areas of research in Materials Science.

The Opening Ceremony will be followed by the Memorial Lecture "Joaquim da Costa Ribeiro", The importance of macromolecular materials by Professor Eloisa Biasotto Mano.

During the Closing Ceremony, the symposium coordinators will honor students with the "Bernard Gross Award" for the best poster and best oral presentation of each Symposium, the IUMRS (International Union of Materials Research Society) Award for the three best posters among the set of the works awarded with Bernhard Gross, the Horiba Award for the best oral presentation and best poster of the Meeting. Also during the Closing Ceremony, the E-MRS (European Materials Research Society) Award will be granted to the best oral presentation and to the two best posters of symposium C: Nanoscaled Materials: characterization techniques and applications.

On behalf of Organizing Committee, we would like to thank the Brazil-MRS staff and board, the funding agencies, the symposium coordinators, the local, the organizing and the scientific committee members, for the commitment and great effort to make this Meeting possible.

We hope you have a very pleasant Meeting with stimulating exchange of scientific information and establishment of new collaborations.

**Marco Cremona and Fernando Lázaro Freire Jr.**  
*Conference Chairs*



## Organizing committee

### Conference Chairs

**Marco Cremona**

*Department of Physics - PUC-Rio*

**Fernando Lázaro F. Jr.**

*Department of Physics - PUC-Rio*

*Brazilian Center for Physics Research, CBPF*

### Local Committee

Marcelo E. H. Maia da Costa (*PUC-Rio*)

Tommaso Del Rosso (*PUC-Rio*)

André S. Pimentel (*PUC-Rio*)

Arthur M. B. Braga (*PUC-Rio*)

Fernando Stavale (*CBPF*)

André L. Pinto (*CBPF*)

Eduardo M. Bittar (*CBPF*)

Dante F. Franceschini (*UFF*)

Maria Luiza Rocco (*UFRJ*)

M. Ines Bruno Tavares (*UFRJ*)

Rodrigo Capaz (*UFRJ*)

Cristiano Legnani (*UFJF*)

### Organizing Committee

José Alberto Giacometti (*IF-USP SC*)

André A. Pasa (*UFSC*)

Julio Ricardo Sambrano (*UNESP*)

Maria Aparecida Zaghete (*UNESP*)

Carlos A. Figueroa (*UCS*)

Rodrigo Fernando Bianchi (*UFOP*)

Iêda Maria Garcia dos Santos (*UFPB*)

Dulce Maria de Araújo Melo (*UFRN*)

### Scientific Committee

Roberto M. Faria (*B-MRS president*)

Rodrigo Martins (*Portugal, ex E-MRS president*)

Orlando A. Auciello (*USA, ex MRS president*)

Alberto Salleo (*Stanford, USA*)

Fernando Ponce (*ASU, USA*)

Andrew Gellmann (*USA*)

Tetsuya Yamamoto (*Japan, JSAP*)

Gino Mariotto (*Itália*)

Aldo F. Craievich (*USP-SP*)

André Klein (*UFMG*)

Carlos A. Achete (*Inmetro*)

Carlos F. O. Graeff (*UNESP*)

Elson Longo (*UNESP*)

Ivan Guillermo Solorzano (*PUC-Rio*)

José Arana Varela (*UNESP*)

Osvaldo Novais de Oliveira Junior (*IF-USP SC*)

José Antônio Eiras (*UFSCar*)

Paulo Fernando P. Fichtner (*UFRGS*)

Reginaldo Mucillo (*IPEN*)

Waldemar Augusto de A. Macedo (*CDTN*)

Renato de Figueiredo Jardim (*USP*)

Sérgio de Souza Camargo Jr. (*COPPE-UFRJ*)

Luiz Henrique de Almeida (*COPPE-UFRJ*)

Rubem Sommer (*CBPF*)





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Symposium B - Spintronics & Nanomagnetism.....	B-1
Symposium C - Nano-scaled materials: characterization techniques and applications.....	C-1
Symposium D - Nanocarbon and composites.....	D-1
Symposium E - The Brazilian Multipurpose Reactor (RMB): A neutron source for materials science and technology.....	E-1
Symposium F - Synchrotron Radiation in Material Science.....	F-1
Symposium G - Research Frontiers of Computer Simulations in Materials Science: Developments and Applications .....	G-1
Symposium I - Advances in Correlation Structure-Properties of Ferroic and Multiferroic Materials .....	I-1
Symposium J - Structural and electronic properties of surface and interfaces: present stand and future challenges .....	J-1
Symposium K - Functional hybrid surfaces and interfaces: from characterization to applications.....	K-1
Symposium L - Statistical Mechanics of Materials Design .....	L-1
Symposium M - Structure-properties relationship of advanced metallic materials.....	M-1
Symposium N - Luminescent Materials .....	N-1
Symposium O - Organic Electronics and Bioelectronics: From materials characterization to device development .....	O-1
Symposium P - Photonic materials and structures: breakthrough applications and cutting edge systems .....	P-1
Symposium Q - Materials and devices for solar energy conversion .....	Q-1
Symposium R - 8th International Summit on Organic and Hybrid Solar Cells Stability (ISOS-8).....	R-1
Symposium S - Materials for Sustainable Development .....	S-1
Symposium T - Nanotoxicology, NanoEnergy and Nanoregulation: the Safe Use of Manufactured Nanomaterials .....	T-1
Symposium V - Biological cells: characterization of the materials and understanding of the mechanisms of cell response .....	V-1
Symposium W - New frontiers on biomaterials for bone regeneration.....	W-1
Symposium X - Sol-Gel Materials: From Fundamentals to Advanced Applications.....	X-1
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## Venue

One of the exuberant and tourists favorite's cities in the world, facing by the South Atlantic coast, the second-largest city in Brazil, the city of Rio de Janeiro is outstanding for the tropical beauty of its beaches and mountains, apart from the cultural diversity it displays.

The friendly image of the city is a most precious historical heritage resulting from the high spirits of its people. At any time of year, visitors won't want to miss the top tourist attractions in Rio de Janeiro, including two main events that are responsible for its worldwide reputation: the New Year's firework show and the Carnival parade.

The entire state is located within the tropical zone. The annual temperatures are around 23°C. In September, the weather is warm and wet, characterized by essentially constant daily high temperatures, with daily highs around 27°C throughout the month, exceeding 33°C or dropping below 22°C only one day in ten. These months are also ideal for sightseeing: there are fewer rain showers and less fog on Corcovado and Sugar Loaf Mountain. Expect mild temperatures.

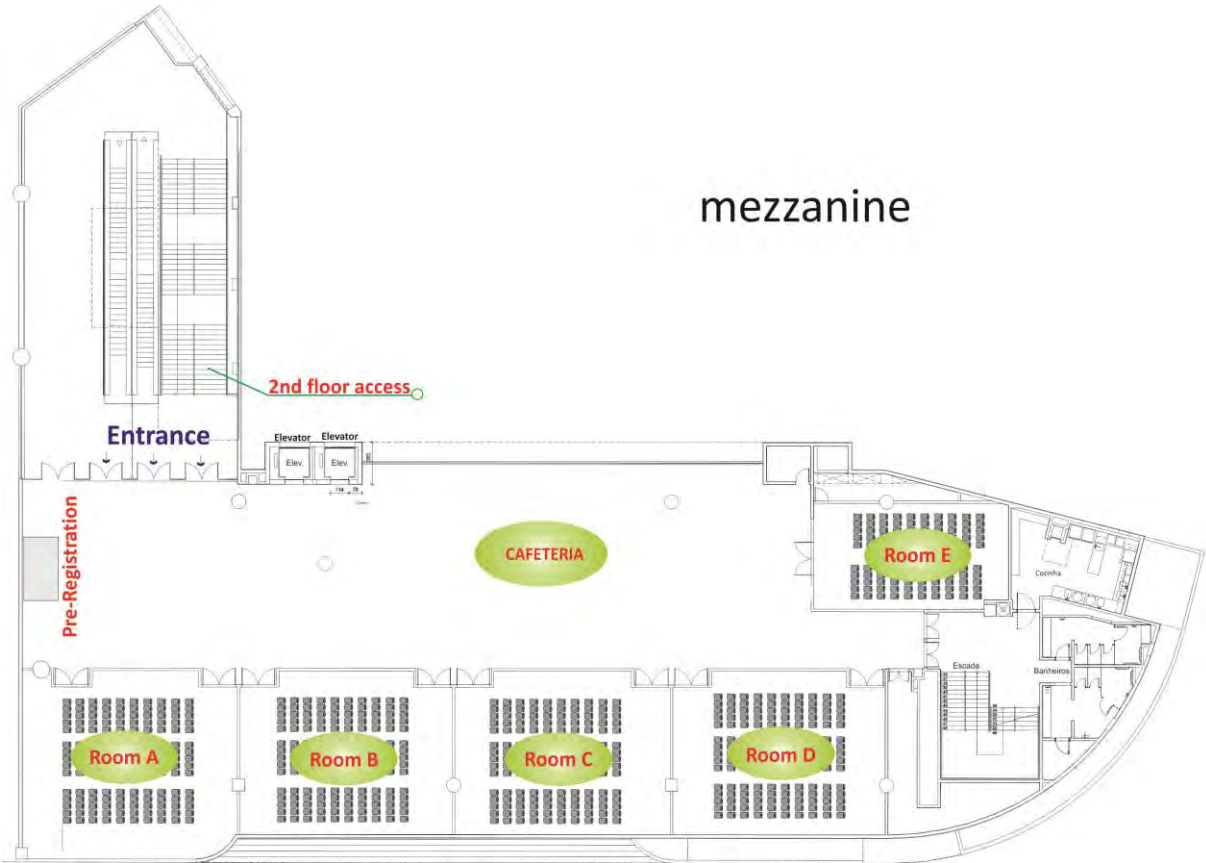
Besides its vocation for tourism, the "marvelous city", as it is mostly referred to, offers the ideal scenario for international events. The Brazilian Materials Research Society (B-MRS) and the Organizing Committee of the XIV Brazilian MRS meeting invite the worldwide community of materials research to attend the 2015 Meeting from 27 September to 01 October, 2015. This traditional forum will be dedicated to recent advances and perspectives in materials science and technology.

Come and join us in Rio!

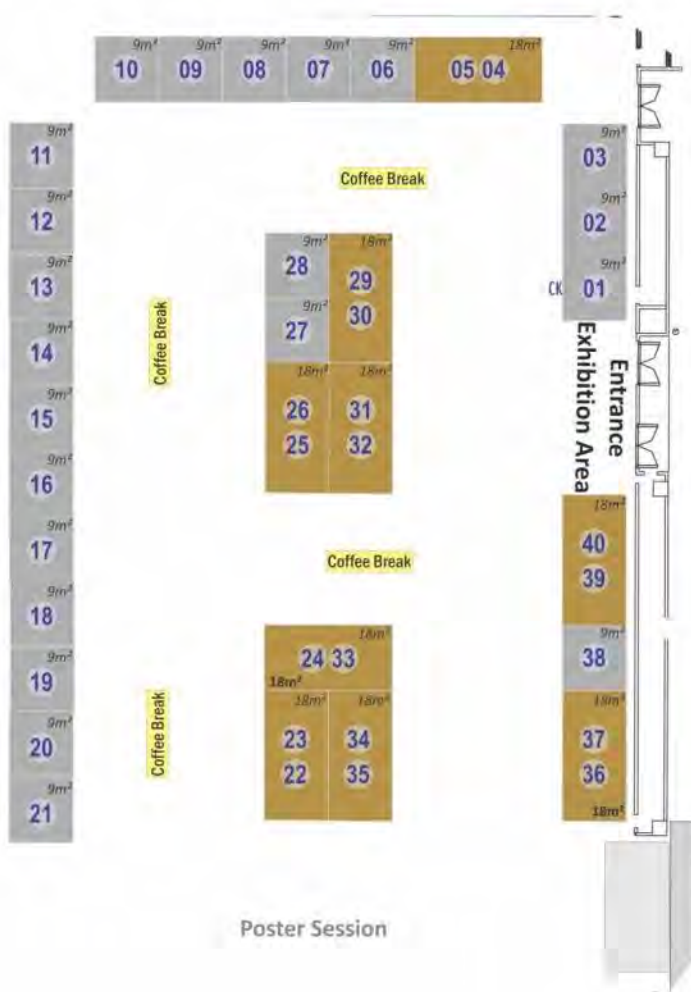




# Maps



## Exhibitors



01- CK	21- QUANTUM
02- INES	22- SHIMADZU
03- MBRAUN	23- SHIMADZU
04- ALTMANN	24- BRUKER
05- ALTMANN	25- ANALÍTICA
06- MTS	26- ANALÍTICA
07- AROTEC	27- DPUNION
08- RATH	28- WILEY
09- HEIDELBERG	29- AGILENT
10- AVACO	30- AGILENT
11- M&M VÁCUO	31- HORIBA
12- IOP Publishing	32- HORIBA
13- OXFORD	33- BRUKER
14- EMIC	34- KURT
15- ANACOM	35- KURT
16- GLOBALMAG	36- INSTRUTÉCNICA
17- EDWARDS	37- INSTRUTÉCNICA
18- JEOL	38- OERLIKON
19- REOTERM	39- RIGAKU / DAIRIX
20- ANTON PAAR	40- RIGAKU / DAIRIX

## Schematic



## Horário de Funcionamento / Service operating hours

Segunda a Sábado: 5h a meia-noite / Mondays to Saturdays: 5am to midnight

Domingos e feriados: 7h as 23h / Sundays and Holidays: 7am to 11pm

<p>Metrô <b>Linha 1</b> Subway Line 1</p>	<p>Metrô <b>Linha 2</b> Subway Line 2</p>	<p>Metrô + Ônibus <b>Metrô Na Superfície</b> Subway + Subway Bus</p>
<p>Estação de Integração com a <b>SuperVia</b> Interchange with SuperVia Trains</p>	<p>Metrô + Ônibus Expresso <b>Integração Expressa</b> Subway + City Bus</p>	<p>Metrô + Ônibus <b>Expresso</b> Subway + Express Bus</p>



### XIV B-MRS Meeting



# Tourist map



Tabela de tempos e preços médios sujeita a alteração a partir do mês de Setembro. É obrigatório o uso do taxímetro. | Timesheets and average prices subject to changes as from September. It is mandatory to use the taximeter.

Taxis de Rua Yellow Taxis	Aeroporto Santos Dumont	Aeroporto Internacional	Urca / Pão de Açúcar	Maracanã	Cosme Velho / Laranjeiras	Rodoviária Novo Rio	Centro / Lapa	Botafogo	Catete / Flamengo	Barra	São Conrado	Gávea / Jardim Botânico	Leblon	Ipanema
<b>Copacabana</b>	R\$ 30,00 ⌚ 13min	R\$ 63,00 ⌚ 28min	R\$ 20,00 ⌚ 11min	R\$ 40,00 ⌚ 22min	R\$ 30,00 ⌚ 14min	R\$ 35,00 ⌚ 19min	R\$ 34,00 ⌚ 16min	R\$ 16,00 ⌚ 10min	R\$ 28,00 ⌚ 25min	R\$ 60,00 ⌚ 32min	R\$ 38,00 ⌚ 22min	R\$ 30,00 ⌚ 20min	R\$ 21,00 ⌚ 14min	R\$ 17,00 ⌚ 9min
<b>Ipanema</b>	R\$ 35,00 ⌚ 20min	R\$ 58,00 ⌚ 26min	R\$ 26,00 ⌚ 14min	R\$ 39,00 ⌚ 25min	R\$ 27,00 ⌚ 12min	R\$ 36,00 ⌚ 25min	R\$ 40,00 ⌚ 26min	R\$ 21,00 ⌚ 13min	R\$ 35,00 ⌚ 30min	R\$ 53,00 ⌚ 26min	R\$ 29,00 ⌚ 16min	R\$ 20,00 ⌚ 15min	R\$ 16,00 ⌚ 7min	
<b>Leblon</b>	R\$ 36,00 ⌚ 22min	R\$ 56,00 ⌚ 27min	R\$ 25,00 ⌚ 18min	R\$ 35,00 ⌚ 25min	R\$ 24,00 ⌚ 13min	R\$ 35,00 ⌚ 17min	R\$ 36,00 ⌚ 26min	R\$ 19,00 ⌚ 14min	R\$ 30,00 ⌚ 30min	R\$ 40,00 ⌚ 25min	R\$ 21,00 ⌚ 12min	R\$ 14,00 ⌚ 9min		
<b>Gávea / Jardim Botânico</b>	R\$ 45,00 ⌚ 27min	R\$ 68,00 ⌚ 31min	R\$ 32,00 ⌚ 22min	R\$ 42,00 ⌚ 30min	R\$ 31,00 ⌚ 18min	R\$ 41,00 ⌚ 22min	R\$ 45,00 ⌚ 30min	R\$ 28,00 ⌚ 19min	R\$ 41,00 ⌚ 31min	R\$ 42,00 ⌚ 25min	R\$ 18,00 ⌚ 12min			
<b>São Conrado</b>	R\$ 54,00 ⌚ 29min	R\$ 76,00 ⌚ 34min	R\$ 41,00 ⌚ 25min	R\$ 53,00 ⌚ 28min	R\$ 40,00 ⌚ 25min	R\$ 53,00 ⌚ 25min	R\$ 54,00 ⌚ 28min	R\$ 38,00 ⌚ 22min	R\$ 53,00 ⌚ 33min	R\$ 33,00 ⌚ 20min				
<b>Barra</b>	R\$ 84,00 ⌚ 32min	R\$ 79,00 ⌚ 31min	R\$ 65,00 ⌚ 34min	R\$ 70,00 ⌚ 33min	R\$ 62,00 ⌚ 27min	R\$ 72,00 ⌚ 28min	R\$ 83,00 ⌚ 32min	R\$ 59,00 ⌚ 28min	R\$ 72,00 ⌚ 35min					
<b>Catete / Flamengo</b>	R\$ 17,00 ⌚ 13min	R\$ 60,00 ⌚ 32min	R\$ 27,00 ⌚ 20min	R\$ 32,00 ⌚ 24min	R\$ 17,00 ⌚ 12min	R\$ 27,00 ⌚ 18min	R\$ 18,00 ⌚ 15min	R\$ 21,00 ⌚ 20min						
<b>Botafogo</b>	R\$ 28,00 ⌚ 12min	R\$ 57,00 ⌚ 24min	R\$ 17,00 ⌚ 10min	R\$ 32,00 ⌚ 18min	R\$ 21,00 ⌚ 15min	R\$ 32,00 ⌚ 15min	R\$ 31,00 ⌚ 20min							
<b>Centro / Lapa</b>	R\$ 13,00 ⌚ 6min	R\$ 45,00 ⌚ 24min	R\$ 26,00 ⌚ 13min	R\$ 22,00 ⌚ 14min	R\$ 22,00 ⌚ 20min	R\$ 23,00 ⌚ 15min								
<b>Rodoviária Novo Rio</b>	R\$ 19,00 ⌚ 20min	R\$ 39,00 ⌚ 20min	R\$ 31,00 ⌚ 24min	R\$ 18,00 ⌚ 13min	R\$ 36,00 ⌚ 20min									
<b>Cosme Velho / Laranjeiras Trem do Corcovado</b>	R\$ 20,00 ⌚ 20min	R\$ 50,00 ⌚ 30min	R\$ 23,00 ⌚ 13min	R\$ 40,00 ⌚ 25min										
<b>Maracanã</b>	R\$ 20,00 ⌚ 20min	R\$ 41,00 ⌚ 25min	R\$ 39,00 ⌚ 25min											
<b>Urca / Pão de Açúcar</b>	R\$ 23,00 ⌚ 10min	R\$ 61,00 ⌚ 30min												
<b>Aeroporto Internacional</b>	R\$ 44,00 ⌚ 25min													

Preços e tempos médios, calculados pela bandeira 1, partindo-se de pontos centrais dos bairros e seguindo pelas principais vias. De segunda a sábado, entre 21h e 6h, e aos domingos e feriados, durante todo o dia, é autorizado o uso da bandeira 2.

Average fare and time, calculated by regular rate (bandeira 1), starting from central points in the neighborhoods, driving through main routes. From Monday to Saturday, between 9 pm to 6 am, and all day long on Sundays and holidays the drivers are allowed to charge additional rate (bandeira 2).

Companhias de Taxi   Taxi Companies	
Aerocoop	3078-5050 / 3078-5051
Aerotaxi	2467-7408
Central de Taxi	2195-1000
Cooparioca	2518-1818
Coopsind	2589-4503 / 2189-4503
Libertaxi	3105-0500 / 0800 942-5533
JB Taxi	2178-4000 / 2501-3026 / www.jbtaxi.com.br
Taxi Meier	2596-7007
Taxi Teleurca	2542-3188 / 3501-0700
Sul Taxi	3852-5181 / www.sultaxi.com.br

Taxis Especiais   Melhor conforto e preço fixo por trajeto Special Taxis   Greater comfort and point-to-point fare	
Coopatut Radiotaxi	2573-1009 / 3885-1000
Coopertramo Radiotaxi	2560-2022 / 2209-9292
Cootramo	3976-9944 / 3976-9945
Royalcoop	2548-5897
Transcoopass	2209-1555 / 2209-1565
Transcotour	2590-2300




**Taxis para Cadeirantes | Taxis for Handicapped**

Taxi especial para portadores de mobilidade reduzida e idosos. Serviços de passeios turísticos com intérprete. | Customized transportation service for those with reduced mobility capacity and the elderly, besides tourist trips with language interpreters.

**Coop Taxi RJ**

**3295-9606**



 <b>Ônibus Municipais</b>   City Buses	Para   To																
	Copacabana	Ipanema	Leblon	Gávea	Jardim Botânico	São Conrado	Barra / Alvorada	Catete / Flamengo	Botafogo	Lapa	Centro	Rodoviária Novo Rio	Laranjeiras / Corcovado	Maracanã	Urca / Pão de Açúcar	Aeroporto Internacional	Aeroporto Santos Dumont
De   From																	
Copacabana		570 162	132 512 574	432 435	570 162 584	308* 177 535*	308* 535	569 161 573	569 161 573	161	123 124 132	126 127 128	569 583	464	511	Premium	-
Ipanema	161 573		132 512 574	432 435	570 162 584	308* 177 535*	308* 535*	569 161 573	569 161 573	161	123 124 132	128 474 486	569 583	464	511	Premium	-
Leblon	511 161 583	511 161 583		432 435	512 574 584	308* 177 535	308* 535	161 573 583	161 573 583	161	128 132	128 173	570 583 584	464	511	Premium	-
Gávea	161 583	161 583	535 161		170 176*	309 535*	309 535*	143 176*	170 176*	143* 161	170	170 173	569 570 58	-	512	-	-
Jardim Botânico	161 573 583	161 573 583	161 573 583	170 158* 410		309 548	309 548	176* 161 583	170 176*	143 161	170 179	170 173	569 570 583	-	512	-	-
São Conrado	535* 177 308*	535* 177 308*	535* 177 308*	535* 548 354	309 548		308* 309 535	-	309 548	-	308* 177 179	178	-	-	-	Premium	Premium
Barra / Alvorada	308* 535	308* 535*	308* 548	309 535*	548	309 548 548		-	309 548	-	308* 309 360	304 333 169*	-	-	-	Premium	Premium
Catete / Flamengo	570 162 573	569 161 573	570 584 574	170 178 161	170 178 161	178 309 548	308* 309 548		574 583	434 161 162	170 178 180	178	180 569 583	434 464	-	-	-
Botafogo	162 574 584	162 574 584	512 569 574	143 161	143 161	309 548	309 548	178 161 583		424 161 162	170 179	170 173	570 464	512	-	-	
Lapa	433 464 162	464 161 162	434 464 161	158* 410 161	143 410 161	-	-	434 161 162			247	-	-	-	-	-	
Centro	121 123 124	123 308* 132	128 132	170	170 172 309	308* 177 309	308* 309 345	-	170 309	247		128 127 170	180 422	238 239	107	324 326	016
Rodoviária Novo Rio	126 127 128	474 486	110 128	170	170 173	-	301 333	170	136 170	362 497	127 128 170		497 498	-	-	Premium	Premium
Laranjeiras / Corcovado	570 584	570 584	570 584	569 583 584	569 583 584	-	-	180 497 498	583	180 184	180 184	133	-	-	-	-	
Maracanã	455 456 457	456 457	434 435 464	-	-	-	-	434	434 435	238 247 464	247 249	133	-	-	-	-	
Urca / Pão de Açúcar	512	512	512	511 512	511 512	-	-	-	-	-	107	-	-	-	-	-	

\*Operando temporariamente | Temporarily working

**Novas Linhas | New Bus Lines**

537 Rocinha x Leblon

535 Vidigal x Copacabana

538 Rocinha x Copacabana

536 Vidigal x Leme

539 Rocinha x Leme

172 Centro x São Conrado



## General schedule

Schedule	Sept 27 <sup>th</sup> Sunday	Sept 28 <sup>th</sup> Monday	Sept 29 <sup>th</sup> Tuesday	Sept 30 <sup>th</sup> Wednesday	Oct 1 <sup>st</sup> Thursday	
07:00		<b>Registration Open</b>	<b>Registration Open</b>	<b>Registration Open</b>	<b>Registration Open</b>	
08:30 - 09:30		<b>Plenary lecture 1</b> Prof. Nader Engheta	<b>Plenary lecture 3</b> Prof. Paul Ducheyne	<b>Plenary lecture 5</b> Prof. George Malliaras	<b>Plenary lecture 7</b> Prof. Claudia Draxl	
9:30 - 9:45		<b>Displacement</b>	<b>Displacement</b>	<b>Displacement</b>	<b>Displacement</b>	
9:45 - 10:45		<b>Oral Sessions</b> <i>Symposia:</i> A, C, D, F, J, K, M, N, P, Q, S, V, X, Y, Z, BB, WS2	<b>Oral Sessions</b> <i>Symposia:</i> A, B, C, D, F, G, J, K, M, O, P, Q, S, T, W, X, Y	<b>Oral Sessions</b> <i>Symposia:</i> B, C, E, G, I, L, N, O, P, Q, T, W, AA, EXP	<b>Poster Session 4</b> (2nd floor - Foyer)  <i>Symposia:</i>  C, D, N, S, T, W	<b>Oral Sessions</b>  <i>Symposium:</i>  WS1
10:45 - 11:15		<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>		
11:15 - 12:30		<b>Oral Sessions</b> <i>Symposia:</i> A, C, D, F, J, K, M, N, P, Q, S, V, X, Y, Z, BB, WS2	<b>Oral Sessions</b> <i>Symposia:</i> A, B, C, D, F, G, J, K, M, O, P, Q, S, T, W, X, Y	<b>Oral Sessions</b> <i>Symposia:</i> B, C, E, G, I, L, N, O, P, Q, T, W, AA, EXP		
12:30 - 14:00		<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>“Bernhard Gross Award” Closing Ceremony Farewell Cocktail</b>	
14:00 - 15:15		<b>Oral Sessions</b> <i>Symposia:</i> A, C, D, F, J, K, M, N, P, Q, S, V, X, Y, Z, BB, WS2	<b>Oral Sessions</b> <i>Symposia:</i> A, B, C, D, F, G, K, M, O, P, Q, S, T, W, X, Y	<b>Oral Sessions</b> <i>Symposia:</i> B, C, G, L, N, O, P, Q, W, AA, EXP	<b>Symposia</b>	<b>Room</b>
15:15 - 15:30		<b>Displacement</b>	<b>Displacement</b>	<b>Displacement</b>		
15:30 - 16:30		<b>Plenary lecture 2</b> Prof. Edgar Zanutto	<b>Plenary lecture 4</b> Prof. Ulrike Diebold	<b>Plenary lecture 6</b> Prof. Ichiro Takeuchi	A	A
16:30 - 17:00		<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	B	6
17:00 - 19:00	<b>Conference registration</b>	<b>Poster Session 1</b> (2 <sup>nd</sup> floor - Foyer) <i>Symposia:</i> A, BB, C, D, F, J, K, M, N, O, P, Q, S, V, WS2, X, Y, Z	<b>Poster Session 2</b> (2 <sup>nd</sup> floor - Foyer) <i>Symposia:</i> A, B, C, D, F, G, I, J, K, M, O, P, Q, S, T, V, W, X, Y	<b>Poster Session 3</b> (2 <sup>nd</sup> floor - Foyer) <i>Symposia:</i> AA, B, C, D, E, G, I, L, M, N, O, P, Q, S, T, W, Y, WS1	C	Plenary
					D	L1
19:00 - 19:30	<b>Opening Ceremony</b>				E	E
					F	10
19:30 - 20:30	<b>Memorial Lecture “Joaquim Costa Ribeiro”</b>  Prof. Elisa Biasotto Mano	<b>Free</b>	<b>Free</b>	<b>Free</b>	G	7
					H	4
20:30 - 23:00	<b>Welcome Cocktail</b>			<b>Conference Party</b>	I	4
					J	E
					K	4
					L	10
					M	C
					N	B,A
					O	2
					P	1
					Q	3
					R	11
					S	L2
					T	8
					V	7
					W	B
					X	5
					Y	D
					Z	8
					AA	5
					BB	11
					WS1	1
					WS2	6
					EXP	C

## Sattellite event

### Symposium R – International Summit on HOPV Stability

ISOS-8

Room 11



Sep 29 – Oct 1, 2015 · Rio de Janeiro, Brazil

Schedule	Sept 27 <sup>th</sup> Sunday	Sept 28 <sup>th</sup> Monday	Sept 29 <sup>th</sup> Tuesday	Sept 30 <sup>th</sup> Wednesday	Oct 1 <sup>st</sup> Thursday
7:00			<b>Registration Open</b>	<b>Registration Open</b>	<b>Registration Open</b>
8:30 - 10:50			<b>Oral Session</b>	<b>Oral Session</b>	<b>Oral Session</b> (8:30 – 12:30)
10:45 - 11:15			<b>Coffee Break</b>	<b>Coffee Break</b>	
11:20 - 12:50			<b>Oral Session</b>	<b>Oral Session</b>	
12:30 - 14:00			<b>Lunch</b>	<b>Lunch</b>	<b>“Bernhard Gross Award” Closing Ceremony Farewell Cocktail</b>
14:10 - 16:30			<b>Oral Session</b>	<b>Oral Session</b>	
12:30 - 14:00			<b>Coffee Break</b>	<b>Coffee Break</b>	
17:00 - 19:00	<b>Conference registration</b>		<b>Poster Session</b> <i>(2<sup>nd</sup> floor – Foyer)</i>	<b>Poster Session</b> <i>(2<sup>nd</sup> floor – Foyer)</i>	
19:00 - 19:30	<b>Opening Ceremony</b>		<b>Free</b>	<b>Free</b>	
19:30 - 20:30	<b>Memorial Lecture</b> <i>“Joaquim Costa Ribeiro”</i> Prof. Elisa Biasotto Mano				
20:30 - 23:00	<b>Welcome Cocktail</b>				

## Sunday, September 27<sup>th</sup>

**17:00 - 19:00** Registration

**19:00 - 20:30** Opening Session AND Memorial Lecture

**20:30 - 22:00** Welcome Cocktail



# Monday, September 28<sup>th</sup>

07:00 Registration

8:30 - 9:30 Plenary talk - Nader Engheta (room plenary)

Symposia	A	C	D	F
	(Room A)	(Room Plenary)	(Room L1)	(Room 10)
9:45 - 10:45	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3

Symposia	J	K	M	N
	(Room E)	(Room 04)	(Room C)	(Room B)
9:45 - 10:45	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3

Symposia	P	Q	S	V
	(Room 01)	(Room 03)	(Room L2)	(Room 07)
9:45 - 10:45	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3

Symposia	X	Y	Z	BB
	(Room 05)	(Room D)	(Room 08)	(Room 11)
9:45 - 10:45	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3

Symposia	WS2
	(Room 06)
9:45 - 10:45	Oral Session 1
10:45 - 11:15	Coffee Break
11:15 - 12:30	Oral Session 2
12:30 - 14:00	Lunch
14:00 - 15:15	Oral Session 3

15:30 - 16:30 Plenary talk - Edgar Zanotto (room plenary)

16:30 - 17:00 Coffee Break

17:00 - 19:00 Poster Session - Symposia: A, BB, C, D, F, J, K, M, N, O, P, Q, S, V, WS2, X, Y, Z

19:00 - 23:00 Free

## Tuesday, September 29<sup>th</sup>

07:00 Registration

8:30 - 9:30 Plenary talk - Paul Ducheyne (room plenary)

Symposia	A	B	C	D
	(Room A)	(Room 06)	(Room Plenary)	(Room L1)
9:45 - 10:45	Oral Session 4	Oral Session 4	Oral Session 4	Oral Session 4
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 5	Oral Session 5	Oral Session 5	Oral Session 5
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 6	Oral Session 6	Oral Session 6	Oral Session 6

Symposia	F	G	J	K
	(Room 10)	(Room 07)	(Room E)	(Room 04)
9:45 - 10:45	Oral Session 4	Oral Session 4	Oral Session 4	Oral Session 4
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 5	Oral Session 5	Oral Session 5	Oral Session 5
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 6	Oral Session 6	Oral Session 6	Oral Session 6

Symposia	M	O	P	Q
	(Room C)	(Room 02)	(Room 01)	(Room 03)
9:45 - 10:45	Oral Session 4	Oral Session 4	Oral Session 4	Oral Session 4
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 5	Oral Session 5	Oral Session 5	Oral Session 5
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 6	Oral Session 6	Oral Session 6	Oral Session 6

Symposia	S	T	W	X
	(Room L2)	(Room 08)	(Room B)	(Room 05)
9:45 - 10:45	Oral Session 4	Oral Session 4	Oral Session 4	Oral Session 4
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 5	Oral Session 5	Oral Session 5	Oral Session 5
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 6	Oral Session 6	Oral Session 6	Oral Session 6

Symposium	Y
	(Room D)
9:45 - 10:45	Oral Session 4
10:45 - 11:15	Coffee Break
11:15 - 12:30	Oral Session 5
12:30 - 14:00	Lunch
14:00 - 15:15	Oral Session 6

Symposium	R
	(Room 11)
8:30 - 10:50	Oral Session 1
10:50 - 11:20	Coffee Break
11:20 - 12:50	Oral Session 2
12:50 - 14:10	Lunch
14:10 - 16:30	Oral Session 3

15:30 - 16:30 Plenary talk - Ulrike Diebold (room plenary)

16:30 - 17:00 Coffee Break

17:00 - 19:00 Poster Session - Symposia: A, B, C, D, F, G, I, J, K, M, O, P, Q, R, S, T, V, W, X, Y

19:00 - 23:00 Free

## Wednesday, September 30<sup>th</sup>

07:00 Registration

8:30 - 9:30 Plenary - George Malliaras (room plenary)

Symposia	B	C	E	G
	(Room 06)	(Room Plenary)	(Room E)	(Room 07)
9:45 - 15:15	Oral Session 7	Oral Session 7	Oral Session 7	Oral Session 7
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 8	Oral Session 8	Oral Session 8	Oral Session 8
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 9	Oral Session 9	Oral Session 9	Oral Session 9

Symposia	I	L	N	O
	(Room 04)	(Room 10)	(Room A)	(Room 02)
9:45 - 15:15	Oral Session 7	Oral Session 7	Oral Session 7	Oral Session 7
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 8	Oral Session 8	Oral Session 8	Oral Session 8
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 9	Oral Session 9	Oral Session 9	Oral Session 9

Symposia	P	Q	T	W
	(Room 01)	(Room 03)	(Room 08)	(Room B)
9:45 - 15:15	Oral Session 7	Oral Session 7	Oral Session 7	Oral Session 7
10:45 - 11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 8	Oral Session 8	Oral Session 8	Oral Session 8
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch
14:00 - 15:15	Oral Session 9	Oral Session 9	Oral Session 9	Oral Session 9

Symposia	AA	EXP
	(Room 05)	(Room C)
9:45 - 15:15	Oral Session 7	Oral Session 7
10:45 - 11:15	Coffee Break	Coffee Break
11:15 - 12:30	Oral Session 8	Oral Session 8
12:30 - 14:00	Lunch	Lunch
14:00 - 15:15	Oral Session 9	Oral Session 9

Symposium	R
	(Room 11)
8:30 - 16:30	Oral Session 4
10:50 - 11:20	Coffee Break
11:20 - 12:50	Oral Session 5
12:50 - 14:10	Lunch
14:10 - 16:30	Oral Session 6

15:30 - 16:30 Plenary talk - Ichiro Takeuchi (room plenary)

16:30 - 17:00 Coffee Break

17:00 - 19:00 Poster Session - Symposia: AA, B, C, D, E, G, I, L, M, N, O, P, Q, R, S, T, W, Y, WS1

19:00 - 23:00 Free

## Thursday, October 1<sup>st</sup>

8:30 - 9:30 Plenary talk - Claudia Draxl (room plenary)

9:45 - 12:00	Symposium	WS1	Poster Session - Symposia: C, D, N, S, T, W
	(Room 01)		
	9:45 - 10:45	Oral Session	
	10:45 - 12:00	Oral Session	

8:30 - 12:30	Symposium	R
	(Room 11)	
	8:30 - 10:45	Oral Session 7
	11:15 - 12:30	Oral Session 8

12:30 - 14:30 Closing Session Awards



## Memorial Lecture “Joaquim Costa Ribeiro”

Sunday, September 27<sup>th</sup>

19:30 - 20:30



**Eloisa Biasotto Mano**

*Instituto de Macromoléculas “Professora Eloisa Mano”, Universidade Federal do Rio de Janeiro (UFRJ), Brazil*

**Title: The importance of macromolecular materials**

For better understanding the words used in the technical language related to Polymers it is necessary to make a preliminary approach of the basic terms and their significance. Atom is the minor particle of the one element that can enter in a chemical combination. Molecule is the minor stable group which characterizes one substance. Substance is the essential part of something. Macromolecule is a great molecule with molecular mass higher than  $10^3$ . In general, macromolecular materials can be described as mineral or organic, and natural or synthetic. Wood, ceramics, glasses, metals and polymers have always been used by humans along their existence, although the macromolecular nature of these materials was only recently recognized. They are very important in the development of the human history.



## Plenary talks

Monday, September 28<sup>th</sup>

8:30 - 9:30



**Nader Engheta**

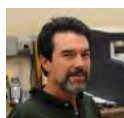
*University of Pennsylvania, Philadelphia, USA*

**Title: From Unconventional to Extreme to Functional Materials**

Materials can control, tailor, mold, and sculpt photons. With recent developments in the field of materials science and engineering, particularly at the nano- and microscale, we are now equipped with capabilities to design and construct materials and structures that can provide unconventional “extreme” functionalities. With such “extreme” metastructures, we can explore unusual light-matter interaction. The cases that may relate to such extreme scenarios include extreme material parameters, such as epsilon-near-zero (ENZ), mu-near-zero (MNZ) and epsilon-and-mu-near-zero (EMNZ) structures in which the effective refractive index may be near zero, leading to unique optical features in wave physics and quantum optics and engineering, extreme dimensional platforms such as ultrathin metasurfaces, graphene and other two-dimensional materials for one-atom-thick optical devices and components, optical metatronics in which “materials become optical nanocircuit elements” for unprecedented optical processing at the nanoscale, and “informatic” metamaterials in which one can perform mathematical operations using light propagation in matter, to name a few. Such extreme photonic materials exhibit exciting functionalities for various applications. In this talk, I will present some of our ongoing work in these areas, will discuss some of the challenges and opportunities, and will forecast some future directions and possibilities.

Monday, September 28<sup>th</sup>

15:30 - 16:30



**Edgar Dutra Zanotto**

*Federal University of São Carlos, Brazil*

**Title: 60 years of Glass-ceramics R&D: A Glorious past and bright future**

Glass-ceramics - materials produced by controlled crystallization of certain glasses - were discovered 60 years ago. A wide range of properties is possible because of the ability to design their composition and thermal treatment:

- Composition: Many compositions can be vitrified which could be crystallized to form a glass-ceramic.
- Forming: Articles of any shape can, in principle, be made by any other glass-processing method that already exists or may be invented.
- Thermal treatment: Crystallization can be induced on the cooling or heating path, in one or multiple steps.
- Microstructure: Articles can be engineered from nanograins, micrograins or macrograins; low or high crystallinity; zero, low or high porosity; one or multiple crystal phases; random or aligned crystals; and surface-induced or internal crystallization.
- Thermal properties: Thermal expansion can be controlled – from negative to zero or highly positive; stability can range from about 400°C to 1,450°C; and low thermal conductivity is common.
- Mechanical properties: Articles have much higher strength and toughness than glasses, but the limits are far from being reached, possibility to be further strengthened by fiber addition, chemical and thermal methods. They are hard, some are machinable.
- Chemical properties: Articles can be resorbable or highly durable.
- Biological properties: Articles can be biocompatible (inert) or bioactive.
- Electrical and magnetic properties: Articles can have low or high dielectric constant and loss, high breakdown voltage, ionic conducting or insulating, superconducting, piezoelectric and ferromagnetic properties.
- Optical properties: Articles can be translucent or opaque, opalescent, fluorescent, and colored and photo-induction nucleation are possible.

Many challenges in glass-ceramic research and development are ahead. They include the search for new compositions and new or improved crystallization processes. From their glorious past, to their very successful commercial products as well as their impressive range of properties and exciting potential applications, glass-ceramics have indeed a bright future!



Tuesday, September 29<sup>th</sup>

8:30 - 9:30


**Paul Ducheyne**
*University of Pennsylvania, Philadelphia, USA*
**Title: Biomaterials: Merging Materials Science with Biology**

The last decade has seen a gradual evolution to include biological functionality in devices. Stent surfaces are modified to release Rapamycin; RGD and other peptides are immobilized on device surfaces to stimulate tissue formation. Herein, we will focus on biological functionality of orthopaedic devices from several perspectives. First, in situ biological functionalization will be invoked to explain the excellent tissue response of existing biomaterials, namely the class of bioactive ceramics. Second, biological functionality achieved by controlled delivery from sol gel nanoporous controlled release materials will be discussed.

Controlled release silica sol gels are room-temperature processed, porous, resorbable materials with excellent biocompatibility. Many molecules including drugs, proteins and growth factors can be released from sol gels and the quantity and duration of the release can vary widely.

Processing parameters render these release properties exquisitely versatile. Based on a thorough understanding and an extensive control of release properties, various treatment modalities for unsolved clinical problems are advancing towards the clinic. They include the treatment of osteomyelitis, the treatment of surgical pain, the treatment of MRSA and the delivery of labile growth factors.

 Tuesday, September 29<sup>th</sup>

15:30 - 16:30


**Ulrike Diebold**
*Institute of Applied Physics, TU Vienna, Austria*
**Title: Surfaces of Metal Oxides**

Surface science studies of metal oxides have experienced a rapid growth. The reasons for this increasing interest are quite clear: after all, most metals are oxidized under ambient conditions, so in many instances it is the oxidized surface that deserves our attention. In addition, bulk metal oxides exhibit an extremely wide variability in their physical and chemical properties. These are exploited in established and emerging technologies such as catalysis, gas sensing, and energy conversion schemes, where surfaces and interfaces play a central role in device functioning. Hence a more complete understanding of metal oxide surfaces is desirable from both a fundamental and applied points of view.

By using Scanning Tunneling Microscopy measurements, in combination with Density Functional Theory calculations and area-averaging spectroscopic techniques, great strides have been made in understanding the atomic-scale properties of the surfaces of several oxide materials. In the talk I will give examples drawn from recent studies including  $\text{TiO}_2$ ,  $\text{Fe}_3\text{O}_4$ ,  $\text{In}_2\text{O}_3$ ,  $\text{ZrO}_2$ , and perovskites.

 Wednesday, September 30<sup>th</sup>

8:30 - 9:30


**George Malliaras**
*Ecole des Mines de St. Etienne, France*
**Title: Interfacing with the Brain using Organic Electronics**

One of the most important scientific and technological frontiers of our time lies in the interface between electronics and the human brain. Interfacing the most advanced human engineering endeavor with nature's most refined creation promises to help elucidate aspects of the brain's working mechanism and deliver new tools for diagnosis and treatment of a host of pathologies including epilepsy and Parkinson's disease. It also represents a unique opportunity for industry: Medical electronics is the fastest-growing segment of the semiconductor industry. Current solutions, however, are limited by the materials that are brought in contact with the tissue and transduce signals across the biotic/abiotic interface. The field of organic electronics has made available materials with a unique combination of attractive properties, including mechanical flexibility, mixed ionic/electronic conduction, enhanced biocompatibility, and capability for drug delivery. I will present examples of organic-based devices for recording and stimulation of brain activity, highlighting the connection between materials properties and device performance. I will show that organic electronic materials provide unparalleled opportunities to design devices that improve our understanding of brain physiology and pathology, and can be used to deliver new therapies.

Wednesday, September 30<sup>th</sup>

15:30 - 16:30


**Ichiro Takeuchi**
*University of Maryland, USA*
**Title: Combinatorial approach to materials discovery**

Throughout the history of mankind, scientists and engineers have relied on the slow and serendipitous trial-and-error approach for materials discovery. In 1990s, the combinatorial approach was pioneered in the pharmaceutical industry in order to dramatically increase the rate at which new chemicals are identified. The high-throughput concept is now widely implemented in a variety of fields in materials science. We have developed combinatorial thin film synthesis and characterization techniques in order to perform rapid survey of previously unexplored materials phase space in search of new inorganic functional materials. Various thin film deposition schemes including pulsed laser deposition, electron-beam deposition, and co-sputtering are implemented for fabricating massive arrays of compositionally varying samples on individual combinatorial libraries. A suite of high-throughput characterization tools are employed to screen the combinatorial libraries and map different physical properties of materials as a function of sweeping composition changes. They include room-temperature scanning SQUID microscopy, microwave microscopy, and micromachined MEMS cantilever arrays. Advanced characterization techniques at synchrotron beam lines are used for rapid diffraction as well as x-ray magnetic circular dichroism measurements. I will discuss our recent work on data driven strategies to discovery and integration of the combinatorial experimental approach with theory.

 Thursday, October 1<sup>st</sup>

8:30 - 9:30


**Claudia Draxl**
*Humboldt University, Germany*
**Title: On the Search for Novel Materials:  
Insight and Discovery through Sharing of Big Data**

On the steady search for advanced materials with tailored properties and novel functions, high-throughput screening is a new branch of materials research. For successfully exploring the chemical compound space from a computational point of view, two aspects are crucial. These are reliable methodologies to accurately describe all relevant properties for all materials on the same footing, and new concepts for getting insight into the materials data that are produced since many years with an exponential growth rate.

In this talk, I will discuss our concepts for tackling big data of materials science. It is not an issue of boosting more high-throughput calculations but it is about the question: How to exploit the wealth of information, inherently inside the materials data which promises unprecedented insight?

I will first introduce the NoMaD Repository, which was established to promote the idea of open access and sharing of materials data. As open access implies that data can be used by anyone, large collections of materials data opens an avenue for using and developing tools that the present (computational-)materials community does not even know. The latter will be realized in the Novel Materials Discovery (NOMAD) Center of Excellence (CoE), the main aims of which are the creation of a Materials Encyclopedia and the development of big-data analytics tools for materials science. Finally, I will demonstrate an example how statistical-learning approaches based on domain-specific knowledge can indeed lead to new scientific insight.



## Technical lectures

Wednesday, September 30<sup>th</sup>

9:45 - 10:45	09:45 - 10:15	<b>Title: Caracterização de materiais - Aplicações das técnicas Fluorescência e Difração de Raio X</b> <i>BRUKER</i>
	10:15 - 10:45	<b>Title: Caracterização de materiais, ferramentas de análise, soluções e inovação</b> <i>SHIMADZU</i>
11:15 - 12:45	11:15 - 11:45	<b>Title: New and Ongoing Developments in Thin Film Deposition from the Kurt J.</b> <i>Lesker Company</i>
	11:45 - 12:15	<b>Title: Confocal 3D Raman Imaging Correlated with EM &amp; SPM - Technique &amp; Applications</b> <i>WiTECH</i>
	12:15 - 12:45	<b>Title: Technological Innovations on Chemometrics through AFM-Raman and Fluorescence Imaging Spectroscopy</b> <i>HORIBA</i>
14:00 - 15:30	14:00 - 14:30	<b>Title: Ferramentas de caracterização UV-Vis-NIR nunca antes possíveis para materiais</b> <i>AGILENT</i>
	14:30 - 15:00	<b>Title: Recent advances in transmission electron microscopy technology</b> <i>ALTMANN</i>
	15:00 - 15:30	<b>Title: Recentes Avanços na técnica de Difração de Raios-X, para desenvolvimento de novos materiais e análise de propriedades físicas. Aplicação de detectores 1D e 2D</b> <i>RIGAKU</i>



## Symposia summary

### Nanomaterials and Synthesis

A: Nanotechnology and Nano materials for electronic and optoelectronic devices	Carlos Frederico de Oliveira Graeff ( <i>Universidade Estadual Paulista (UNESP)</i> ) Frank Nüesch ( <i>Swiss Federal Laboratories for Materials Science and Technology (EMPA)</i> ) Fernando Castro ( <i>National Physical Laboratory, England</i> ) Luis Vicente de Andrade Scalvi ( <i>Universidade Estadual Paulista (UNESP)</i> )
B: Spintronics & Nanomagnetism	Marcelo Knobel ( <i>Universidade Estadual de Campinas - Unicamp</i> ) Luiz Sampaio ( <i>Centro Brasileiro de Pesquisas Físicas (CBPF)</i> ) João Paulo Sinnecker ( <i>Centro Brasileiro de Pesquisas Físicas (CBPF)</i> )
C: Nano-scaled materials: characterization techniques and applications	Prof. Dr. Elvira Fortunato ( <i>Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologia</i> ) Prof. Dr. Patrícia Carvalho ( <i>SINTEF</i> ) Dr. Edson Santos ( <i>Instituto SENAI de Inovação em Laser, Sistema FIESC - SENAI/SC</i> ) Prof. Dr. Paulo Ferreira ( <i>University of Texas</i> )
D: Nanocarbon and composites	Talita Mazon ( <i>CTI - Centro de Tecnologia da Informação Renato Archer</i> ) Dra. Jilian Nei de Freitas ( <i>CTI - Centro de Tecnologia da Informação Renato Archer</i> ) S. Ravi P. Silva ( <i>Nano-Electronics Centre Advanced Technology Institute (ATI) University of Surrey, England.</i> ) Douglas Galvão ( <i>Instituto de Física da UNICAMP</i> )

### Theory, Characterization and Modeling

E: The Brazilian Multipurpose Reactor (RMB): A neutron source for materials science and technology	Elisa Saitovitch ( <i>CBPF</i> ) Eduardo Granado ( <i>IFGW-UNICAMP</i> ) Aldo Craievich ( <i>IF-USP</i> ) Cristiano Oliveira ( <i>IF-USP</i> )
F: Synchrotron Radiation in Material Science	Dr Florian E P Meneau ( <i>CNPEM - LNLS</i> ) Prof Aldo F Craievich ( <i>USP</i> ) Prof Celso V Santilli ( <i>IQ/UNESP</i> ) Dr Helio C N Tolentino ( <i>CNPEM - LNLS</i> )
G: Research Frontiers of Computer Simulations in Materials Science: Developments and Applications	Prof. Miguel San-Miguel ( <i>IQ-Unicamp, Brazil</i> ) Prof. Julio Ricardo Sambrano ( <i>São Paulo State University, UNESP, Brazil</i> ) Prof. Edison Zacarias da Silva ( <i>IFGW-Unicamp, Brazil</i> )
I: Advances in Correlation Structure-Properties of Ferroic and Multiferroic Materials	José Antonio Eiras ( <i>DF-UFSCAR</i> ) Ivair Aparecido dos Santos ( <i>Departamento de Física - Universidade Estadual de Maringá</i> ) Carlos William de Araujo Paschoal ( <i>Depto de Física - CCET</i> )

	- UFMA João Paulo Sinnecker ( <i>Centro Brasileiro de Pesquisas Físicas - CBPF</i> )
J: Structural and electronic properties of surfaces and interfaces: present stand and future challenges	Francesco Allegretti ( <i>Technical University of Munich, Germany</i> ) Benedetta Casu ( <i>University of Tuebingen, Germany</i> ) M. Luiza Rocco ( <i>Federal University of Rio de Janeiro, Brazil</i> )
K: Functional hybrid surfaces and interfaces: from characterization to applications	Welchy Leite Cavalcanti ( <i>Fraunhofer Institute for Manufacturing Technology and Advanced Materials in Bremen - IFAM</i> ) Andréia Luísa da Rosa ( <i>Universidade Federal de Minas Gerais, UFMG</i> ) Suelen Barg ( <i>University of Manchester</i> ) Mariana Banea ( <i>Federal Center of Technological Education in Rio de Janeiro, CEFET/RJ</i> )
L: Statistical Mechanics of Materials Design	Pablo F. Damasceno ( <i>University of Michigan, USA</i> ) Nuno Araújo ( <i>University of Lisbon, Portugal</i> )
M: Structure-properties relationship of advanced metallic materials	Leonardo Barbosa Godefroid ( <i>Universidade Federal de Ouro Preto</i> ) Waldek Wladimir Bose Filho ( <i>Universidade de São Paulo</i> ) Juan Perez Ipiña ( <i>Universidad Nacional del Comahue - Argentina</i> ) Pedro Dolabella Portella ( <i>BAM: Federal Institute for Materials Research and Testing - Alemanha</i> ) Luiz Carlos Rolim Lopes ( <i>Universidade Federal Fluminense</i> )
<b>Electronics and Photonics</b>	
N: Luminescent Materials	Lucas Carvalho Veloso Rodrigues ( <i>Instituto de Química, Universidade de São Paulo</i> ) Hermi Felinto de Brito ( <i>Instituto de Química, Universidade de São Paulo</i> ) Maria Cláudia França da Cunha Felinto ( <i>Instituto de Pesquisas Energéticas e Nucleares</i> ) Jiang Kai ( <i>Departamento de Química, PUC-RJ</i> ) Ana Valéria S. Lourenço ( <i>Departamento de Ciências Exatas e da Terra, UNIFESP, Campus Diadema</i> ) Ercules Epaminondas de Sousa Teotônio ( <i>Departamento de Química Fundamental, Universidade Federal da Paraíba</i> )
O: Organic Electronics and Bioelectronics: From materials characterization to device development	Lucas Fugikawa Santos ( <i>Universidade Estadual Paulista - UNESP</i> ) Ivan Helmut Bechtold ( <i>Universidade Federal de Santa Catarina</i> ) Gregório Couto Faria ( <i>Universidade de São Paulo</i> ) Welber Gianini Quirino ( <i>Universidade Federal de Juiz de Fora</i> ) Frank N. Crespilho ( <i>Universidade de São Paulo</i> ) Jakob Kjelstrup-Hansen ( <i>University of Southern Denmark</i> )

Dermot Diamond (*Dublin City University*)

P: Photonic materials and structures: breakthrough applications and cutting edge systems

Dr. Maurizio Ferrari (*IFN-CNR Trento*)

Prof. Dr. Cid B. de Araújo (*Departamento de Física - UFPe*)

Profa. Dra. Rogéria Rocha Gonçalves (*FFCLRP-USP, Ribeirão Preto*)

Dr. Danilo Manzani (*IQ- UNESP*)

Prof. Dr. Marcelo Nalin (*Instituto de Química - UNESP, Araraquara*)

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### Energy and Sustainability

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Q: Materials and devices for solar energy conversion

Ana Flavia Nogueira (*IQ-UNICAMP*)

Francisco das Chagas Marques (*IFGW-UNICAMP*)

Flavio Leandro Souza (*UFABC*)

Lazaro A. Padilha (*IFGW-Unicamp*)

R: 8th International Summit on Organic and Hybrid Solar Cells Stability (ISOS-8)

Fernando Araujo de Castro (*National Physical Laboratory (NPL, United Kingdom)*)

Lucimara Stolz Roman (*UFPR (Brazil)*)

Anderson Lima (*Institut Català de Nanociència I Nanotecnologia (Spain)*)

Dana Olson (*Department of Energy (DoE, USA)*)

S: Materials for Sustainable Development

Dr. Martin L. Green (*National Institute of Standards and Technology (NIST), USA*)

Prof. Guillermo Solórzano (*PUC-Rio de Janeiro, Brazil*)

T: Nanotoxicology, NanoEnergy and Nanoregulation: the Safe Use of Manufactured Nanomaterials

Valtencir Zucolotto (*Nanomedicine and Nanotoxicology Group, IFSC/USP*)

José Mauro Granjeiro (*INMETRO*)

Juliana Cancino (*Nanomedicine and Nanotoxicology Group, IFSC/USP*)

Willian Waissman (*FIOCRUZ*)

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### Biomaterials and Soft Materials

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V: Biomaterials to control Biological cells: characterization of the materials and understanding of the mechanisms of cell response

Marcos Farina (*Universidade Federal do Rio de Janeiro, Centro de Ciências da Saúde, Instituto de Ciências Biomédicas, Rio de Janeiro, Brasil*)

Alexandre Malta Rossi (*Centro Brasileiro de Pesquisas Físicas*)

José Mauro Granjeiro (*Instituto Nacional de Metrologia, Normalização e Qualidade Industrial*)

Nathan Bassa Viana (*Universidade Federal do Rio de Janeiro, Instituto de Física, Departamento de Física Matemática. )*

W: New frontiers on biomaterials for bone regeneration

Luís Augusto Sousa Marques da Rocha (*UNESP - Universidade Estadual Paulista*)

Takao Hanawa (*Tokyo Medical and Dental University*)

Tolou Shokuhfar (*Michigan Tech University*)

Ana Rosa Lopes Pereira Ribeiro (*INMETRO*)

Carlos Roberto Grandini (*UNESP - Universidade Estadual Paulista*)

Paulo Noronha Lisboa Filho (*UNESP - Universidade*)



*Estadual Paulista)*

X: Sol-Gel Materials: From Fundamentals to Advanced Applications

 UBIRAJARA PEREIRA RODRIGUES  
 FILHO (*Universidade de São Paulo*)

 Katia Ciuffi (*Universidade de Franca*)

 Mateus Cardoso (*Laboratório Nacional de Luz Síncroton*)

Y: Polymers and Hybrid Materials for Nanomedicine

 HERMAN SANDER MANSUR (*UFMG*)

 Rodrigo Lambert Orefice (*UFMG*)

**New horizons in Material Science**

Z: Symposium in emergent phenomena in condensed matter

 Eduardo Matzenbacher Bittar (*CBPF*)

 Elisa Maria Baggio-Saitovitch (*CBPF*)

 Pascoal José Giglio Pagliuso (*UNICAMP*)

 Luiz Nunes de Oliveira (*IFSC/USP*)

AA: Complex Metallic Alloys: a new frontier in solid state sciences

 Prof. Dr Jean-Marie Dubois (*Institut Jean Lamour, Parc de Saurupt, F-54011 Nancy*)

 Dr Danielle Cavalcante Guedes de Lima (*Rapid Solidification Laboratory, Federal University of Paraíba, Joao Pessoa*)

 Dr Silvio de Barros (*Composites and Adhesives Laboratory, Ministry for Education, Rio de Janeiro*)

 Prof. Dr Severino Jackson Guedes de Lima (*Rapid Solidification Laboratory, Fed. Univ. Paraíba, Joao Pessoa*)

BB: University Chapter Symposium

 Diego Rafael Nespeque Correa (*São Paulo State University*)

 Layane Rodrigues de Almeida (*Federal University of Piauí*)

 Mariane Satomi Weber Murase (*Federal University of Ouro Preto*)

 Jefferson da Silva Martins (*Federal University of Juiz de Fora*)

 Luiz Fernando Lobato da Silva (*Federal University of Pará*)

 Caren Machado Menezes (*University of Caxias do Sul*)

 Newton Martins Barbosa Neto (*Federal University of Pará*)

**Workshops**

WS1: Nanofabrication and innovative manufacturing technologies

 Rubem Luis Sommer (*CBPF*)

 André Luiz Pinto (*CBPF*)

WS2: Organic/Thin Films Electronics in Industry and processes

 Dr. Danny Krautz (*Berlin Partner for Business and Technology GmbH*)

 Dr. Fernando Ely (*Center for Information Technology Renato Archer - CTI*)

# Symposia

## Nanomaterials and Synthesis

### Symposium A: Nanotechnology and Nano materials for electronic and optoelectronic devices

**Scope of the Symposium:** Current high-technology is based on traditional top down strategies, where nanotechnology has already been introduced. In modern communication technology, analog devices are increasingly replaced by optical or optoelectronic devices. Promising examples are photonic crystals and quantum dots. Concerning the energy production, the use of nanowires and other nanostructured materials aims to create cheaper and more efficient solar cells, from conventional planar silicon. New efficient devices have great effect on satisfying global energy needs. The symposium will discuss the latest information on a diverse sort of devices and materials, and their nanotechnological assembly characteristics, with the common aspect of small dimensions and quantum mechanical properties.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Processing and fabrication of nanostructured materials
- Structural and microstructural characterization of nanomaterials
- Electrical, electrochemical, optical and magnetic characterization
- Modeling of nanostructured materials and devices
- Nanotechnology for electronic and optoelectronic devices
- Spintronics and magnetic devices
- Nanostructured materials for thermoelectric applications
- Nanostructured materials for solar energy conversion, storage and thermoelectric applications
- Nanostructured materials for advanced sensor applications

### Symposium B: Spintronics & Nanomagnetism

**Scope of the Symposium:** Spintronics and Nanomagnetism are areas of research responsible for technological and knowledge advances that permeate fields as diversified as microelectronics, bioengineering and telecommunications. The frontiers involve fundamental research in spin, charge and energy transport produced by the electrons flow in magnetic nanostructures. These effervescent frontiers are consolidating novel technologies for the future such as spin caloritronics; molecular magnetism; multifunctional multiferroic materials, magnetoplasmonics; nanomagnonics; magnetic topological insulators, and unconventional spin structures (vortices and skyrmions). The aim is to bring together researchers of this interdisciplinary field to discuss current research and possible technological applications.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Spintronics; nanoparticles; nanomagnetism; nanowires.

### Symposium C: Nano-scaled materials: characterization techniques and applications

**Scope of the Symposium:** Nano-scaled materials have been attracting a growing interest mainly due to their intrinsic properties and applicability in novel technological products and devices. Nevertheless, the suitable characterization is imperative for the development of such advanced devices and in order to determine their intrinsic assets. The symposium is aimed to give an overview on recent material characterization techniques used to analyze nanomaterials and devices with nano-scale or atomic resolution. Furthermore, highlight the competences and novelties of the material characterization techniques in order to understand the principal material properties and behaviour. Metal and oxide-based nanoparticles and nanostructured thin films will be the focus of this symposium.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Nano-scaled materials, related properties and further applications
- Nanostructured thin films
- Techniques for structural and thermal characterization of thin films
- Advanced material characterization techniques
- Microscopy: Optical microscopy; Confocal Microscopy; Scanning Electron Microscopy; Transmission Electron Microscopy; Energy Backscatter diffraction; Atomic Force Microscopy; Scanning probe microscopy; Focused Ion Beam
- Spectroscopy: Energy-Dispersive X-ray spectroscopy; Wavelength Dispersive X-ray spectroscopy; X-Ray Diffraction; Electron Energy Loss Spectroscopy; Raman Spectroscopy; Fourier Transform Infrared; Ultra Violet to Near Infrared

### Symposium D: Nanocarbon and composites

**Scope of the Symposium:** This symposium focuses on the preparation, characterization and application of carbon nanostructures (CNS), as well as their composites with organic and inorganic materials, such as metal oxides, quantum dots, metals, polymers, etc. Graphene,

nanotubes and fullerenes have been under investigation for a longer time and the research of these materials is more comprehensive. In all cases, the preparation of composites by the combination of CNS with inorganic or organic compounds can lead to the development of new functional materials with unique properties, which will have important roles in nanotechnology engineering and application in different areas. The aim of this symposium is to address progress at the frontiers of fundamental and applied research involving CNS and their composites.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Green Carbon Production
- Synthesis and chemical modification methods
- Carbon based devices
- Inorganic/Organic hybrid composites
- Electronic and optical properties
- Modeling
- Electronics applications
- Biomedical applications
- Energy production and storage

## Theory, Characterization and Modeling

### Symposium E: The Brazilian Multipurpose Reactor (RMB): A neutron source for materials science and technology

**Scope of the Symposium:** First activities related to the construction of the Reator Multiproposito Brasileiro (RMB) are currently under way. It is expected that this new reactor will produce isotopes for medical application and also provide neutron beam lines to external users. The future neutron beam lines will be dedicated to the investigation of materials by means of different experimental techniques. We believe that a Symposium in 2015 would be a good opportunity for providing information to the SBPMat community on the status of this project and about the new possibilities that this new large facility will open to Brazilian material scientists.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Neutron single crystal diffraction
- Neutron powder diffraction
- Small-angle neutron scattering
- Neutron reflectometry
- Triple axes and time-of-flight spectroscopy
- Neutron imaging including tomography

### Symposium F: Synchrotron Radiation in Material Science

**Scope of the Symposium:** The Symposium will be devoted to recent advances, developments and new techniques employing synchrotron radiation (SR) in physics, chemistry and materials science. This interdisciplinary meeting will bring together scientists using SR and those willing to learn about the SR sources and their specific experimental techniques. The new Brazilian synchrotron facility (SIRIUS) under construction in Campinas, will be presented. Furthermore, it will be the occasion for reporting the most recent achievements in fundamental and applied research using Small Angle X-ray Scattering (SAXS), X-ray Absorption Spectroscopy (XAS) and X-ray Diffraction (XRD). Time-resolved and operando capabilities of the synchrotron based techniques will be emphasised.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Synchrotron radiation
- Small Angle X-ray Scattering
- X-ray Absorption Fine Structure
- X-ray Diffraction, Soft condensed matter
- Nanomaterials, in situ reactivity
- Kinetic studies

### Symposium G: Research Frontiers of Computer Simulations in Materials Science: Developments and Applications

**Scope of the Symposium:** This symposium will be dedicated to the Research Frontiers of Computer Simulations in Materials Science, which includes recent theoretical developments, algorithms, methods, theories and applications in Materials Science (nanostructures, surfaces, bulks, adsorption phenomena, complex interfaces and chemical reactivity). It is intended to be a forum where scientists from different areas in Chemistry, Physics and Materials Science merge to discuss about relevant aspects on those topics. The list of invited speakers includes several world leaders in their fields, and several speakers will be selected among the best abstracts.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Applications of Density Functional Theory, Hartree-Fock, and Semi-Empirical methods
- Molecular dynamics simulations and coarse grain approaches
- Multi-scale computational chemistry methods
- GPU, GRID computing and molecular modeling of materials
- The role of global optimization algorithms and accelerated methods in Materials Science
- Nanostructures, surfaces, bulks and complex interfaces
- Reactions and interactions of molecular systems with surfaces
- Functional materials
- Renewable energy materials
- Transparent conducting oxides

**Symposium I: Advances in Correlation Structure-Properties of Ferroic and Multiferroic Materials**

**Scope of the Symposium:** The aim of the symposium is to bring together physicists, chemists and materials scientists from universities and industries, to discuss progress in ferroic materials (ferroelectrics, piezoelectrics, ferromagnetics, magnetoelectrics, etc), including a broad spectrum of basic principles, advanced materials processing, characterizations techniques and potential applications and devices. Structure-properties studies, including scattering and diffraction experiments (conventional DRX, synchrotron, neutrons and electrons and refinements), absorption spectroscopies (XANES, EXAFS, XPS, RPES), high-resolution electron microscopy, piezoresponse microscopy, first principles calculations, Monte-Carlo simulations and other related techniques applied to these materials structures are very welcome.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Ferroelectrics, piezoelectrics and pyroelectrics: synthesis, characterizations, theory and modeling
- Relaxor ferroelectrics: characterizations, theory and modeling
- Theory and modeling of the magneto-electric phenomena
- Advances in materials synthesis and processing of ferroics and multiferroics
- Magneto-electric characterization
- Dynamics and domain dynamics in ferroics and multiferroics
- New effects and experimental approaches
- Scattering and absorption experiments in ferroics and multiferroics
- Microscopic modeling and characterization of ferroics and multiferroics
- Devices, devices modeling and applications

**Symposium J: Structural and electronic properties of surfaces and interfaces: present stand and future challenges**

**Scope of the Symposium:** Surface and interface phenomena play a crucial role in nature and in technological applications. Advances in the understanding and engineering of surface properties and hybrid materials are therefore the foundation for the development of many areas of technology. The aim of the symposium is to bring together physicists, chemists and materials scientists from universities and industries, to discuss recent progresses, current trends and future challenges in surface and interface science. The focus is placed on the control and atomic-scale understanding of surface/interface phenomena, thin film growth and processing, functionalization of surfaces and tailoring of structural and electronic properties of low-dimensional systems.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Physics and chemistry of surfaces and interfaces
- Novel low-dimensional materials
- Surface-supported functional nanostructures
- Structure-properties relationship of organic thin films and hybrid organic/inorganic interfaces
- Metal-oxide surfaces and thin films
- Self-assembled monolayers
- Surface-assisted synthesis of new materials
- On-surface coordination chemistry
- Reactions at surfaces
- Electron dynamics at interfaces

**Symposium K: Functional hybrid surfaces and interfaces: from characterization to applications**

**Scope of the Symposium:** Driven by the increasing market demands the understanding and control of interfaces and surfaces in functional hybrid materials is essential for applications in photovoltaics, optoelectronics, coatings, paints and adhesives. The aim of this

symposium is to bring researchers from academia and industry to discuss the present state of the art and future trends for research, development and applications. The main focus will be on the design, control and characterization of hybrid polymer/solid state materials aiming at applications in optoelectronics, coatings and adhesives. The Brazilian Society of Adhesion and Adhesives (ABAA) support the symposium, and selected symposium papers will be published in a special issue of Applied Adhesion Science Journal (<http://www.appliedadhesionsscience.com/>).

**Abstracts will be solicited in (but not limited to) the following areas:**

- Surface characterization and modification techniques
- Experiments and/or computer simulations permitting access to technologically important properties of surfaces, surfaces interactions, surface modifications, substrate and adhesive material development
- Applications of hybrid materials technologies (devices, adhesion, coating)
- Interdisciplinary approaches permitting a comprehensive multiscale design
- Test strategies with respect to material applications
- Inline quality assurance of industrial material manufacturing processes
- Sustainable materials and processes, e.g. profiting from multifunctional materials or biomimetic design
- Research and development of innovative materials and processes profiting from the manipulation of surfaces and interfaces.

## Symposium L: Statistical Mechanics of Materials Design

**Scope of the Symposium:** Concepts and methods of statistical mechanics have significantly contributed to model synthesis, properties, and ageing of materials at different length and time scales and are indisputably fundamental to materials research. In this symposium, world-renowned experts working on different facets of materials modeling and design will be brought together to review the latest progresses in this field and highlight the challenges hampering the reach of a Materials Genome system, able to connect atomistic features to macroscopic properties of interest. Additionally, this symposium aims to create a forum for a joint, international discussion on the role of statistical mechanics for materials research and design in the age of computer-aided discoveries.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Assembly
- Computer Simulations
- DNA and DNA-Origami
- Glasses
- Liquid Crystals
- Nano and Colloidal Particles
- Percolation
- Polymers
- Statistical Mechanics

## Symposium M: Structure-properties relationship of advanced metallic materials

**Scope of the Symposium:** The search for new materials with improved properties now occupies an important position in the engineering world. A number of procedures have been recently proposed to aid the development of materials science and engineering. This Symposium deals with these topics, to show some of the new most important scientific and technological advances in the field of metallic materials. The Symposium seeks to bring together experts from academia and industry, through various multi-disciplinary themes. This is an event that has grown in public and in quality since its launch in 2009.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Techniques for microstructure and properties characterization
- Fracture mechanics applied to structural integrity
- Light alloys (Al, Mg, Ti) for automotive and aeronautical applications
- Recent developments in steels for automotive industry and for gas/oil pipelines
- Materials to resist fatigue and creep
- Recent technologies for welding procedures

## Electronics and Photonics

### Symposium N: Luminescent Materials

**Scope of the Symposium:** The scope of the Luminescent Materials Symposium covers both the theoretical and experimental recent advances regarding the luminescence phenomena including, single crystals, micro and nanocrystals of organic and inorganic materials. Moreover, the luminescence systems containing insulators, semiconductors, disordered polycrystalline and amorphous materials, nanostructures and light conversion molecular devices are considered.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Photo- and Electroluminescent Materials
- Energy transfer in luminescent materials
- Persistent Luminescence Materials
- New luminescent materials
- New luminescence phenomena and mechanisms
- Luminescent biomarkers
- New synthesis techniques of luminescent materials
- Theoretical approach on luminescence phenomena
- Luminescent quantum dots
- Organic-inorganic hybrid luminescent materials

## **Symposium O: Organic Electronics and Bioelectronics: From materials characterization to device development**

**Scope of the Symposium:** The Symposium intends to focus on organic- and bio-related materials for new technologies, including organic/inorganic functional materials for bioelectronics application, as well as their electronic and optoelectronic properties towards device development. The research topics include synthesis, processing techniques (molecular crystals, multilayers, self-assemblies, and ultrathin films), compounds, micro- and nano-fabrication, interfaces, spectroscopy, morphology, electronic, and photonic properties. In addition, the symposium is equally opened for any type of electronic, photonic and hybrid devices, such as: light-emitting diodes, field-effect transistors, electrochemical transistors, photovoltaics, integrated circuits, non-volatile memories, sensors, actuators and detectors.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Synthesis of conjugated molecules and polymers, hybrid materials and compounds
- Natural/biocompatible electronic materials
- Interfaces and bulk properties: advances in material processing
- Photonic, photophysics, and photochemistry of conjugated molecules and polymers
- Organic, photonic, and hybrid devices
- Micro- and nano-fabrication of organic or hybrid systems
- Bioelectronics: Interfacing biology to electronics
- Organic sensors and biosensors
- Theoretical modeling of conjugated molecules, polymers and organic devices
- Microfluidics and biomimetic systems

## **Symposium P: Photonic materials and structures: breakthrough applications and cutting edge systems**

**Scope of the Symposium:** Photonic materials are among the forefront enabling technologies to address successfully social-economical challenges that we are facing in many fields of technological interest. Celebrating the International Year of Light in 2015, this Symposium aims to provide insight into the fabrication, characterization and exploitation of photonic materials and structures based on different inorganic, hybrid, and green materials in the form of fibers, thin films and other small functional nanomaterials and nanocomposites. Focus will be on fundamental principles, modeling and fabrication of novel material for the intelligent management of light including e.g. optical glasses, luminescent and laser materials, smart optical fibers, active plasmonic materials, novel confined nano-microstructures, etc.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Theoretical background: 1. Luminescence mechanisms, with particular interest in fundamental principles; 2. Management of light by linear and nonlinear optical processes; 3. Fundamental phenomena, theory, modeling, and simulation
- Fabrication, thin-film growth, microstructuring of photonic materials
- Rare earth doped glasses, photosensitive glasses, transparent glass ceramics
- Innovative fabrication techniques, laser material processing
- Waveguides, microcavities, and integrated structures
- Nanodevices and nanophotonics, subwavelength integrated structures
- Luminescent systems, luminescent nanostructured materials
- Instrumentation and novel diagnostic techniques for systems and devices
- Applications: 1. Plasmonics and metamaterials, 2. Telecom and datacom, quantum communication, data storage, 3. Biophotonics, microfluidics, lab-on-a-chip, imaging, sensors and actuators, environmental monitoring, green photonics, 4. Terahertz and microwave

## Energy and Sustainability

### Symposium Q: Materials and devices for solar energy conversion

**Scope of the Symposium:** This symposium is dedicated to contributions in the development of materials and devices applied to conversion of solar energy into electrical and chemical energy. All areas of the photovoltaic research are welcome, including the development of novel materials, devices, solar panel and grid integrated solar energy. Special emphasis is dedicated to nanomaterials used in third generation solar cells, artificial photosynthesis and solar fuel production. This symposium opens the opportunity to meet experts in the field of energy conversion to discuss new concepts, trends, novel materials and their properties and developments in science and technology.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Carbon nanotubes, fullerenes, graphene and other nanomaterials applied to solar cells
- Organic (Polymer), Quantum dots and Dye Sensitized solar cells
- Perovskite based solar cells
- Thin film solar cells, silicon, CdTe, CIGS and related materials.
- Crystalline materials for solar cells. Wafer-based silicon solar cells and materials technology, silicon feedstock, manufacturing issues and processing.
- Materials for down conversion/up conversion processes.
- PV modules, systems and grid integration aspects
- Novel catalysts, photocatalyst and nanostructured materials for hydrogen production
- Advances in materials design and control, bandgap engineering, quantum confinement, and plasmonic effects to enhance the solar energy device conversion (Photoelectrochemical devices).
- Theoretical approaches to designing and discovering novel concepts for solar energy conversion

### Symposium R: 8th International Summit on Organic and Hybrid Solar Cells Stability (ISOS-8)

**Scope of the Symposium:** Organic and hybrid photovoltaics (e.g. perovskites) have the potential for lower cost solar electricity as well as numerous new applications, where low product lightweight, conformability/flexibility, different forms and colours would be an advantage. Currently the main bottleneck for commercialization is durability. ISOS has been running since 2008 and has become one of the most attended workshops in the field. Previous meetings were held yearly in the US and Europe and have led to numerous publications, including the so-called ISOS testing protocols for characterization of solar cell durability. More information can be found on <http://isos-8.npl.co.uk/>. This year ISOS will cover all aspects of OPV and perovskite stability, from degradation mechanisms to stable device architectures. Strong focus will be on industrial requirements and how this can be met by the research community. The program includes invited and contributed talks as well as round table discussions with academic and industrial researchers. At least half a day will be fully dedicated to industry and applications.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Degradation mechanisms (intrinsic, extrinsic, burn-in, chemical, mechanical...)
- Modelling of degradation phenomena
- Advanced characterization methods (e.g. in situ, imaging...)
- Improved encapsulation, barrier materials and characterization
- New materials/device architectures/ interlayers for enhanced performance and stability
- Standardization and measurement protocols.
- Organic and hybrid PV applications (particularly covering durability requirements from an industrial perspective)

### Symposium S: Materials for Sustainable Development

**Scope of the Symposium:** It would be appropriate for all human endeavors to be informed by the principles of sustainable development, since none of our planet's resources are infinite, and there are only a few sustainable sources of energy. As defined by the Brundtland Commission (UN, 1987), sustainable development is "...meeting the needs of the present without compromising the ability of future generations to meet their own needs." Accordingly, many energy, manufacturing, water, and transportation technologies that currently impart key benefits to our society cannot continue indefinitely and must be directed to a more sustainable path. The nexus between sustainable development and materials science is enormous, encompassing: materials efficiency (conservation, substitution, reusing, repurposing, recycling, lightweighting), materials life cycle assessment, critical materials, materials flow analysis, energy (materials that enable alternative energy technologies, that mitigate problems of fossil-fuel technologies, and that increase energy efficiency), and mitigation of undesirable impacts on environment and human health due to economic growth (corrosion, toxic wastes, and water and air pollution.). Civilization on our planet took a sharp turn about 250 years ago, at the beginning of the industrial revolution, and its impact on humankind is equivalent to that of the invention of fire. The enormous consequences of industrial activity, positive and negative, could not have been anticipated then, but we are living with them today: per capita global consumption of energy is higher than ever, and demand for materials has increased by factors of 3 to 6000, depending on the element. Total population, as well as those segments of the

population doing the consuming, is also increasing. Can the same human ingenuity that started the industrial revolution mitigate its effects going forward?

**Abstracts will be solicited in (but not limited to) the following areas:**

- Materials for renewable energy technologies
- Materials and processing for reducing carbon emissions due to manufacturing and energy production
- Materials and water sustainability
- Material supply chain and criticality analysis
- Materials and product life cycle analysis
- Recycling, repurposing, and reuse of materials
- Lightweight materials for transportation; Building and physical infrastructure materials

## **Symposium T: Nanotoxicology, NanoEnergy and Nanoregulation: the Safe Use of Manufactured Nanomaterials**

**Scope of the Symposium:** Human exposure to manufactured nanomaterials present in consumer products may occur during several phases of their life, which creates a growing interest on how nanoparticles interact with living systems, but some points related to this topic remain a challenge. The absence of evidence demonstrating the safety of some nanomaterials makes regulation a challenge. Agencies around the world are providing regulatory guidelines for such materials before commercialization. Toxicology studies are providing information to guide regulatory decisions toward developing a safety regulatory network to enable the marketing of nanoproducts. We believe the symposium can attract researchers from the Nanotoxicology networks supported by CNPq in Brazil, as well as researchers from latin america, USA and EU.

**Abstracts will be solicited in (but not limited to) the following areas:**

- In vitro and In vivo Nanotoxicology assays
- Detection and identification
- Exposure assessment
- Eco/Environmental Nanotoxicology
- Nanomaterials release
- Protection technology
- Life Cycle Analysis
- Industrial production
- Risk management
- Regulation and standardization for nano products

## **Biomaterials and Soft Materials**

### **Symposium V: Biomaterials to control Biological cells: characterization of the materials and understanding of the mechanisms of cell response**

**Scope of the Symposium:** Surface modifications of materials have been used to control and measure cell function to improve integration of medical prostheses or to develop diagnostic tools, biosensors, or drug delivery systems. Cells discriminate and react specifically to surface chemistry, mechanics and topography at the micro and nanoscale. This symposium will focus on the interaction of cells with surfaces with controlled topographies, mechanical properties and chemical compositions to elucidate the biological mechanisms involved in the process. We aim to present different approaches to study cell-substrate interface such as microscopical (confocal microscopy, SEM, analytical-HRTEM, electron tomography?), biophysical (AFM, laser tweezers microscopy?) and biological ones (molecular, cellular?).

**Abstracts will be solicited in (but not limited to) the following areas:**

- Biomaterials
- Nanotopography
- Microtopography
- Tissue engineering
- Mechanobiology
- Biophysics
- Electron microscopy
- Histology
- In vitro
- In vivo



## Symposium W: New frontiers on biomaterials for bone regeneration

**Scope of the Symposium:** The worldwide incidence of bone disorders has increased in last years and it is expected to remain raising in the future, particularly in aging populations. Through the adequate combination of biomaterials, cells and growth factors, new therapies aimed at enhancing bone repair and regeneration are being developed. The focus of this symposium is on advanced biomaterials for bone regeneration, including biomimetic materials or emerging metallic alloys, ceramics, natural and synthetic polymers, composites, and adhesives, as well as their interactions with proteins, blood, cells and mineral tissues. By gathering together clinicians, biologists, materials researchers, engineers and industrials, this symposium will highlight the most recent advances on biomaterials for bone regeneration.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Synthesis and characterisation of novel biomaterials for bone regeneration
- Biomimetic approaches for the development of new biomaterials
- Smart and responsive materials for bone regeneration
- The interface between biomaterials and living cells and tissue
- Biomaterials-protein interactions
- Mechanical behaviour of biomaterials
- Degradation of biomaterials
- Clinical evaluation of new biomaterials for bone regeneration
- Tissue engineering for bone regeneration

## Symposium X: Sol-Gel Materials: From Fundamentals to Advanced Applications

**Scope of the Symposium:** The Sol-Gel Process is used for the synthesis of advanced polymeric, ceramics, nanomaterials, hybrid and nanocomposites and for coating technology. Several commercial products based on sol-gel technology are on the world market, such as the 3M? Cubitron?, Nanogate AG coating systems, Carbon Nanofoam from Marketech International Inc and the Cabot Aerogel. These multifunctional materials find applications in buildings, corrosion protection, conservation, optic and electronic coatings, catalysis, energy storage and production, biosensors, environmental remediation, gas separation and storage, drug delivery, image contrast agents, hard coatings, smart windows, radiation sensors, adhesives, anti-bacteria coatings. In this symposium we intend to contemplate works on most of these areas.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Photonic Materials
- Simulation of Sol-Gel Materials Synthesis, Processing and Performance
- New Multifunctional Hybrid Materials
- Organic and Carbon Based Aerogel and Xerogel
- Photonic Derived Sol-Gel Materials
- Photocatalytic and Photochromic Materials
- New Sol-Gel Precursors and Processing
- Bioinspired and Biocompatible Materials for Medicine, Veterinary and Odontology
- Environment Benign Materials and Material for Environmental Remediation obtained by Sol-Gel Process
- Sol-Gel Materials for Civil and Military Engineering

## Symposium Y: Polymers and Hybrid Materials for Nanomedicine

**Scope of the Symposium:** Polymer, polymer conjugates, hybrid materials for biomedical applications: Drug delivery, Diagnosis, Therapy, Polymer-based systems for Theranostics, Fluorescent hybrid conjugates as biomarkers for cancer detection&therapy, sensors and actuators for biomedical applications.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Polymers and Hybrid Materials for Nanomedicine
- Novel Materials for Nanomedicine and Nanotoxicology
- sensors and actuators for biomedical applications
- Nanomaterials for biomedicine (Nanomedicine)
- Polymer-based systems for Theranostics
- Functional Polymer and hybrids for Advanced applications

## New horizons in Material Science

### Symposium Z: Symposium in emergent phenomena in condensed matter

**Scope of the Symposium:** The emergence of complex collective phenomena in condensed matter define one of the most interesting challenges in Physics and one of the areas with highest potential for practical applications. Examples of such phenomena are superconductivity, complex magnetic ordering and Kondo-like behavior, which stem from a coupling between the micro- and macroscopic worlds materialized on the mesoscopic scale. The scientific objective of the symposium is to discuss materials where emergent phenomena can be observed. Among the systems that will be debated are complex oxides, superconductors, superconducting/ferromagnetic hybrids, and heavy-fermion, thermoelectrical and multifunctional materials. Since the phenomena are rooted in the nanoscopic scale, we will also give attention to small-sized systems.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Kondo physics in bulk materials and nanoscale structures
- Ferroics and multiferroics
- Superconductivity and magnetism, including exotic superconductivity
- Topological Insulators and metal-insulators transitions
- Heavy Fermion Physics including Valence and charge fluctuations
- Development of new materials
- Thermoelectrical and multifunctional materials
- Superconducting/ferromagnetic hybrids materials

### Symposium AA: Complex Metallic Alloys: a new frontier in solid state sciences

**Scope of the Symposium:** Complex metallic alloys depart from alloys in their electronic structure, transport, mechanical properties, crystal architecture. They show high infrared absorption, catalytic performance, reduced adhesion, etc. Such properties may find applications as composite-reinforcing particles, cheap catalysts for reforming of methanol, significant anti-stick and scratch resistant surfaces for cookware, etc. We cover the knowledge attached to complexity in an alloy due to its thermal history (metallic glasses) or to its lattice complexity (quasicrystals, crystals with giant unit cell, high entropy alloys, multilayer systems, etc.). Fundamental research as well as more application-oriented articles will be accepted.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Complex metallic alloys and intermetallics
- Quasicrystals
- Amorphous alloys and bulk metallic glasses
- icosahedral order in metallic liquids and alloys
- Icosahedral nanoparticles and nanomaterials
- High entropy alloys

### Symposium BB: University Chapter Symposium

**Scope of the Symposium:** The symposium will aim to promote a channel of integration, collaboration and discuss between students and researches of the teaching and research centers, in addition to industrial sector. The symposium will be composed by specific themes related to Materials teaching, ethical issues of scientific papers in Materials area, exchange programs and scientific network. The symposium will be organized by student members of Brazilian MRS University Chapters Program, having as target people the undergraduate and graduate students, further professors and researchers who would contribute to exchange ideas, knowledge and scientific experience. The symposium will be held by specific lectures and seminars, besides round-table with renowned international invited in the Materials field.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Political and Ethical Issues in Materials Science
- Interface of Development Industry and University
- Entrepreneurship and New Trends in Materials Research

## Workshops

### Symposium WS1: Nanofabrication and innovative manufacturing technologies

**Scope of the Symposium:** The Workshop on Nanofabrication and innovative manufacturing technologies aims to join together the Brazilian community working or interested in nanofabrication of materials and devices using electron beam lithography, focused ion beam lithography, UV and Extreme UV lithography, laser based lithography. In the workshop application of printing technologies like inkjet printing or additive manufacturing technologies like selective laser sintering or other 3D printing technologies for digital

fabrication, will be also discussed. The workshop is expected to allow a strong integration and discussion of the Brazilian community with a selected group of international experts in the field that will bring the recent advances in the field to the Workshop. We expect to bring speakers from major international nanofabrication facilities as Argonne National Laboratory, Lawrence Berkeley National Laboratory, Iberian International Nanotechnology Laboratory among others. Besides the international invited speakers, a series of Brazilian speakers will give oral contributions selected from the submitted abstracts.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Nanofabrication using electron beam lithography
- Nanofabrication using focused ion beam lithography
- Nanofabrication using UV or Extreme UV (soft X-ray) lithography
- Laser based lithography
- Digitization of finishing processes for the packaging industry applying 3D printing techniques of engineered polymers

## **Symposium WS2: Organic/Thin Films Electronics in Industry and processes**

**Scope of the Symposium:** The aim of the workshop is to address the challenges for the transition of organic-/ printed-/ thin film electronics from research towards industrial processes and products. The presenting companies are going to show their business cases related to organic electronics, thin film electronics, process technologies, analytics, and devices. Innovative startups, global player and very specialized companies will present their different approaches. The workshop fosters collaborations between basic/applied research institutes and industry. The workshop addresses furthermore the challenges of high tech technologies in industrial environment. Additionally, the symposium is going to demonstrate the needs of the industry to overcome issues concerning moving from lab developments towards industrial production processes. The round table discussion at the end of the symposium aims at fostering the collaboration between research and industry. The participation of funding agencies and governmental institutions will help to define strategies for enhancing the synergy between organic electronics research and industry.

**Abstracts will be solicited in (but not limited to) the following areas:**

- Industrial thin film deposition techniques (ALD, CVD, printing, etc.)
- Analytics for production facilities (optical, morphology, etc.)
- Process technology
- Product design and market research
- Lighting Applications (OLEDs for lighting, automotive, packaging)
- Display technologies
- Energy applications (thin film photovoltaics)
- Printed batteries
- Industrial material synthesis for Quantum Dots, Polymers, Oxide, etc.



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### *Session A.OR1 (09:45 - 10:45) - Room A*

- 09:45 Quantum geometric phase accumulation in rotating nitrogen-vacancy defects in diamond** A.OR1.1\*  
Andrew McCallum Martin<sup>1</sup>; <sup>1</sup>University of Melbourne
- 10:15 Routes to design core@corona nanorods hybrid materials based on conjugated polymer brushes** A.OR1.2  
Christine Dagron-Lartigau<sup>1</sup>, Hussein Awada<sup>1</sup>, Antoine Bousquet<sup>1</sup>, Laurent Billon<sup>1</sup>; <sup>1</sup>IPREM CNRS-UMR 5254, Pau university
- 10:30 Charge transfer process in grafted organic-inorganic systems** A.OR1.3  
Bruna Andressa Bregadioli<sup>1,2</sup>, Hussein Awada<sup>3</sup>, Oswaldo Nunes Neto<sup>1</sup>, Christine Dagron-Lartigau<sup>2</sup>, Laurent Billon<sup>2</sup>, Antoine Bousquet<sup>2</sup>, Roger C. Hiorns<sup>2</sup>, Francisco Eduardo Gontijo Guimarães<sup>4</sup>, Carlos F. O. Graeff<sup>5</sup>; <sup>1</sup>Faculde de Ciencias- UNESP Bauru, <sup>2</sup>Université de Pau et des Pays de l'Adour, <sup>3</sup>École Nationale Supérieure de Chimie de Montpellier, <sup>4</sup>Instituto de Física de São Carlos (IFSC), <sup>5</sup>Faculdade de Ciências, UNESP-Bauru

#### *Session A.OR2 (11:15 - 12:30) - Room A*

- 11:15 Exploiting the spin of excitons in organic electronic materials and devices** A.OR2.4\*  
Dane McCamey<sup>1</sup>; <sup>1</sup>University of New South Wales
- 11:45 Electronic focusing by carbon nanotubes.** A.OR2.5  
Patricio Häberle<sup>1</sup>, Samuel Alejandro Hevia<sup>2</sup>, Rodrigo Segura<sup>3</sup>; <sup>1</sup>Universidad Técnica Federico Santa María, <sup>2</sup>Pontificia Universidad Católica de Chile, <sup>3</sup>Universidad de Valparaíso
- 12:00 New materials for Van der Waals heterostructures** A.OR2.6  
Roman Gorbachev<sup>1</sup>, Sarah Jane Haigh; <sup>1</sup>University of Manchester
- 12:15 Synthesis of Highly Ordered 2D-Organic-Inorganic Perovskites** A.OR2.7  
Anna Christina Véron<sup>1</sup>, Steve Landsmann<sup>1</sup>, Silvia Leticia Fernandes<sup>2</sup>, Jakob Heier<sup>1</sup>, Roland Hany<sup>1</sup>, Frank Nüesch<sup>1</sup>; <sup>1</sup>Swiss Federal Institute for Materials Science and Technology, <sup>2</sup>Instituto de Química de Araraquara

#### *Session A.OR3 (14:00 - 15:15) - Room A*

- 14:00 Nanostructured glasses and glass ceramics: Research carried out at CeRTEV for optical devices applications** A.OR3.8\*  
Andrea Simone Stucchi de Camargo<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP
- 14:30 New Glasses, Tellurite Glasses** A.OR3.9  
Raouf A.Hamid El-Mallawany
- 14:45 The physicochemical properties of oleic-acid coated cobalt ferrite nanoparticles** A.OR3.10  
Danilo Suvorov<sup>1</sup>, Sonja Jovanovic<sup>1</sup>, Matjaz Spreitzer<sup>1</sup>; <sup>1</sup>Jozef Stefan Institute
- 15:00 Hierarchical Nanostructuring Via Eutectic/Eutectoid Processing of Fe-Si-Ge Alloys for Thermoelectric Applications** A.OR3.11  
 Wade Aaron Jensen<sup>1</sup>, Naiming Liu<sup>1</sup>, Eva Rosker<sup>1</sup>, Rachel Lee Wechselblatt<sup>2</sup>, Jerrold Anthony Floro<sup>1</sup>; <sup>1</sup>University of Virginia, <sup>2</sup>Lehigh University

## Poster presentations

### Session A.P1 (17:00 - 19:00)

- 17:00 Design of a micro-energy harvesting technology based on MEMS and piezoelectric PZT** A.P1.1  
Abel Hurtado-Macias<sup>1</sup>, Carlos Roberto Ascencio-Hurtado<sup>1</sup>, Juan Ramos-Cano<sup>2</sup>, José Antônio Eiras<sup>3</sup>, Jesús González-Hernández<sup>4</sup>, Mario Miki-Yoshida<sup>1,5</sup>, Roberto Carlos Ambrosio-Lázaro<sup>5</sup>; <sup>1</sup>Centro de Investigación en Materiales Avanzados, <sup>2</sup>Universidad Autónoma de Coahuila, <sup>3</sup>Universidade Federal de Sao Carlos, <sup>4</sup>Centro de Ingeniería y Desarrollo Industrial, <sup>5</sup>Instituto Nacional de Astrofísica, Óptica y Electrónica
- 17:00 Dip-coating deposition of BiVO<sub>4</sub>/NiO p-n heterojunction thin film and layout efficiency for methylene blue degradation** A.P1.2  
Marcelo Rodrigues Silva, Luis Vicente de Andrade Scalvi, Vanildo Souza Leão Neto, Luiz Henrique Dall'Antonia
- 17:00 Photoluminescence associated with morphological characteristics of GaAs/SnO<sub>2</sub>:2%Eu heterojunction** A.P1.3  
Cristina de Freitas Bueno<sup>1</sup>, Luis Vicente de Andrade Scalvi<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil
- 17:00 Phase transition and luminescence in sol-gel TiO<sub>2</sub>** A.P1.4  
Roberto Ramos Júnior<sup>1</sup>, Luis Vicente de Andrade Scalvi<sup>1</sup>, Máximo Siu Li<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>2</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 Electrical and structural properties of GaAs/SnO<sub>2</sub>:1at%Ce<sup>3+</sup> heterojunction** A.P1.5  
 Diego Henrique de Oliveira Machado<sup>1</sup>, Roberto Ramos Júnior<sup>1</sup>, Luis Vicente de Andrade Scalvi<sup>1</sup>, Máximo Siu Li<sup>2</sup>, José Humberto Dias da Silva<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>2</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 Photochromic films based on PMMA-POM** A.P1.6  
Ariane Espindola<sup>1</sup>, Celso Molina<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Study of catalytic effect of Au<sub>15</sub> Cluster in the reduction reaction of 4-nitrophenol.** A.P1.7  
Diego Andrade Vasconcelos<sup>1</sup>, Iara de Fátima Gimenez, Douglas Costa Santos<sup>1</sup>, Tatiana Kubota, Marcia V. G. Araújo; <sup>1</sup>Universidade Federal de Sergipe
- 17:00 Sb-doped SnO<sub>2</sub> as active layer in transistor for transparent FET's** A.P1.8  
 Miguel Henrique Boratto<sup>1</sup>, Lyudmila V. Goncharova<sup>2</sup>, Giovanni Fanchini<sup>2</sup>, Luis Vicente de Andrade Scalvi<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>2</sup>Western University
- 17:00 Electronic and structural properties of M<sub>3</sub>(HITP)<sub>2</sub> metal-organic frameworks** A.P1.9  
Orlando Silveira<sup>1</sup>, Simone Silva Alexandre<sup>1</sup>, Hélio Chacham<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 A study of graphene: methods of deposition and reduction on different types of substrates.** A.P1.10  
Marcus Vinicius Bezerra Silva<sup>1</sup>, Gabriel Tomé Vilela<sup>1</sup>, Niz Simenremis Pereira<sup>2</sup>, Leonardo Giordano Paterno<sup>1</sup>, Vilany Santana Pereira<sup>1</sup>, Artemis Marti Ceschin<sup>1</sup>; <sup>1</sup>Universidade de Brasília, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de Brasília
- 17:00 Spectroscopic Analysis of Natural Rubber/Polyaniline Microfibers** A.P1.11  
Guilherme Dognani<sup>1</sup>, Sabrina Aléssio Camacho<sup>1</sup>, Flávio Camargo Cabrera<sup>1</sup>, Renivaldo José dos Santos<sup>2,1</sup>, Aldo Eloizo Job<sup>1</sup>, Deuber Lincon da Silva Agostini<sup>1</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente, <sup>2</sup>Universidade do Oeste Paulista
- 17:00 Bottom-up approach for aerogel-based nanocircuitry** A.P1.12  
 Alberto Jesús Gutiérrez Aguayo<sup>1</sup>, George Paes de Barros<sup>1</sup>, Daliana Muller<sup>1</sup>, Fernando Rangel de Sousa<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Effects of micro- and nanometer Zr oxides additions on the dielectric properties of CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub>** A.P1.13  
Rodrigo Andrés Espinoza-Gonzalez<sup>1</sup>, Edgar Mosquera<sup>1</sup>; <sup>1</sup>Universidad de Chile
- 17:00 Obtention of Na<sub>2</sub>Ti<sub>3</sub>O<sub>7</sub> nanoparticles by Sonochemical Method** A.P1.14  
José Anglada<sup>1</sup>, Yurimiler Leyet Ruiz<sup>2</sup>, Fidel Guerrero Zayas<sup>2</sup>, Deivy Wilson Masso<sup>2</sup>, Walter Ricardo<sup>2</sup>, Ramón Raudel Peña García<sup>3</sup>, Eduardo Padrón Hernández<sup>3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, <sup>2</sup>Universidade Federal do Amazonas, <sup>3</sup>Universidade Federal de Pernambuco

- 17:00 Probing the deposition of ultra-thin InAs layers on GaAs and their evolution towards the nucleation of 3D InAs islands** **A.P1.15**  
Guilherme Monteiro Torelly<sup>1,2</sup>, Patrícia Lustoza Souza<sup>1,2</sup>, Fernando A. Ponce<sup>3</sup>, Rodrigo Prioli Menezes<sup>1</sup>, Maurício Pamplona Pires<sup>4,2</sup>, Roberto Jakomin<sup>4,1</sup>, Paula Galvão Caldas<sup>3</sup>, Luciana Dornelas<sup>1,2</sup>, Hongen Xie<sup>3,1</sup> Pontificia Universidade Católica do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Ciência e Tecnologia de Nanodispositivos Semicondutores, <sup>3</sup>Arizona State University, <sup>4</sup>Universidade Federal do Rio de Janeiro
- 17:00 Spectral characterization of singlet excited state of Cupric Chlorophyllin Sodium (SCC): Influence of solvent, concentration and pH.** **A.P1.16**  
ANA CLÁUDIA BATISTA ALMEIDA<sup>1</sup>, Thiago Cazati<sup>1</sup>, Bruna Bueno Postacchini<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Robust anti-fouling surfaces for use as optical windows in sensor technology** **A.P1.17**  
Naureen Akhtar<sup>1</sup>, Vårin R. A. Holm<sup>1</sup>, Peter J. Thomas<sup>2</sup>, Benny Svardal<sup>2</sup>, Bodil Holst<sup>1</sup>; <sup>1</sup>University of Bergen / Universitetet i Bergen, <sup>2</sup>Christian Michelsen Research AS
- 17:00 HgI<sub>2</sub> nanostructures hydrothermally obtained for gamma and x-ray radiation detection** **A.P1.18**  
María Eugenia Pérez Barthaburu<sup>1</sup>, Heinkel Bentos Pereira<sup>1</sup>, Laura Fornaro<sup>1</sup>; <sup>1</sup>Centro Universitario Regional del Este, Universidad de la República
- 17:00 Photoluminescence activity of BaMoO<sub>4</sub>: dependence of the order-disorder structural and morphology** **A.P1.19**  
JOSENILMA DA SILVA<sup>1</sup>, IÇAMIRA COSTA NOGUEIRA<sup>1</sup>, RAIMUNDO NONATO RIBEIRO DA SILVA<sup>1</sup>, Elson Longo<sup>2</sup>, José Manuel Rivas Mercury<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Photoluminescence of Radial Heterostructured GaAs/AlGaAs/GaAs Nanowires** **A.P1.20**  
Yuri Pusep<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos/Universidade de São Paulo
- 17:00 Obtention of lithium lanthanum titanium ceramic by spark plasma sintering** **A.P1.21**  
Yurimiler Leyet Ruiz<sup>1</sup>, Fidel Guerrero Zayas<sup>1</sup>, José Anglada<sup>2</sup>, Inmaculada Martínez<sup>3</sup>, Harvey Amorin<sup>3</sup>, Ricardo Jimenez<sup>3</sup>, Yonny Romaguera Barcelay<sup>4</sup>, Rosalía Poyato<sup>5</sup>, Angela Gallardo<sup>6</sup>; <sup>1</sup>Universidade Federal do Amazonas, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, <sup>3</sup>Instituto de Ciencia de Materiales Madrid, <sup>4</sup>Universidade do Porto, <sup>5</sup>CSIC-Universidad de Sevilla, <sup>6</sup>Universidad de Sevilla
- 17:00 Raman scattering characterization of Mn Ion-Implanted GaAs Nanowires** **A.P1.22**  
Victor Viana Oliveira<sup>1</sup>, Kaike Rosivan Maia Pacheco<sup>1</sup>, Waldomiro Gomes Paschoal Jr.<sup>1</sup>, Newton Martins Barbosa Neto<sup>1</sup>, Gregório Barbosa Corrêa Junior<sup>1</sup>, Hakan Pettersson<sup>2</sup>, Waldeci Paraguassu<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Lund University / Lunds universitet
- 17:00 Novel Electrical and Photoelectrical Properties of Isolated SnO<sub>2</sub> Nanobelts: Hopping Conduction, QuantumWires, Persistent Photoconductivity and Metal-to-Insulator Transition.** **A.P1.23**  
Emilson Ribeiro Viana Junior<sup>1</sup>, Juan Carlos González<sup>2</sup>, Geraldo Mathias Ribeiro<sup>2</sup>, Alfredo Gontijo de Oliveira<sup>2</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná, <sup>2</sup>Universidade Federal de Minas Gerais
- 17:00 Morphological and structural properties of tin oxide obtained through different methods: hydrothermal and hydrolysis.** **A.P1.24**  
Igor José Cherubin<sup>1</sup>, Ricardo Marques e Silva<sup>1</sup>, Bruno Silveira Noremborg<sup>1</sup>, Vinicius Gonçalves Deon<sup>1</sup>, Guilherme Kurz Maron<sup>1</sup>, José Carlos Bernedo Alcazar<sup>1</sup>, Alice Gonçalves Osório<sup>1</sup>, Neftalí Lenin Villarreal Carreño<sup>1</sup>, Oscar Giordani Paniz<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session A.OR4 (09:45 - 10:45) - Room A

- 09:45 Embedding additional function in devices through electrode functionalisation** **A.OR4.12\***  
Oliver Fenwick<sup>1</sup>, Maria G. del Rosso<sup>1</sup>, Thomas Mosciatti<sup>1</sup>, Martin Herder<sup>2</sup>, Federica Reinders<sup>3,4</sup>, Andrea Liscio<sup>5</sup>, Stefania Rapino<sup>6</sup>, Francesco Zerbetto<sup>6</sup>, Marcel Mayor<sup>3</sup>, Stefan Hecht<sup>2</sup>, Vincenzo Palermo<sup>5</sup>, Paolo Samori<sup>1</sup>; <sup>1</sup>I.S.I.S., Université de Strasbourg, <sup>2</sup>Humboldt Universität zu Berlin, <sup>3</sup>Universität Basel, <sup>4</sup>Karlsruhe Institute of Technology, <sup>5</sup>Consiglio Nazionale delle Ricerche, Bologna, <sup>6</sup>Università di Bologna
- 10:15 Transparent Organic Optoelectronic Devices using Near-Infrared Absorbing Cyanine Dyes** **A.OR4.13**  
Roland Hany<sup>1</sup>; <sup>1</sup>Swiss Federal Institute for Materials Science and Technology
- 10:30 Redox isomerism in molecular systems: a chemical route to nano-sized electronic switches** **A.OR4.14**  
Giordano Poneti<sup>1,2</sup>; <sup>1</sup>Università Telematica Guglielmo Marconi, <sup>2</sup>University of Florence

#### Session A.OR5 (11:15 - 12:30) - Room A

- 11:15 Nanofabrication by supramolecular self-assembly: from micro to nano** **A.OR5.15\***  
Luca Boarino<sup>1</sup>; <sup>1</sup>Istituto Nazionale di Ricerca Metrologica
- 11:45 Sputtering Surface Modification On TiO<sub>2</sub> with Nb to Photo Activity Performance** **A.OR5.16**  
Leinig Antonio Perazolli<sup>1</sup>, Marcelo Vianna Nogueira<sup>1</sup>, Yuri Kobayakawa<sup>1</sup>, Maria Aparecida Zaghete<sup>1</sup>, José A. Varela<sup>1</sup>, Elson Longo<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP - Araraquara
- 12:00 Nanocomposite of gold nanoparticles and indigo carmine/dodecylsulfate doped polypyrrole as a potential electroactive material** **A.OR5.17**  
Pedro G. Demingos<sup>1</sup>, Lara F. Loguercio<sup>1</sup>, Jacqueline Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 12:15 Controlling Electron Dynamics for Improved Quantum-Dot Based LEDs** **A.OR5.18**  
Lazaro A Padilha<sup>1,2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Instituto de Física Gleb Wataghin

#### Session A.OR6 (14:00 - 15:15) - Room A

- 14:00 Quantum Capacitance of Molecular Films as a New Approach for Medical Diagnostics** **A.OR6.19\***  
Paulo Roberto Bueno<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP Araraquara
- 14:30 Single- and double-wall carbon nanotubes fully covered with tetraphenylporphyrins: Stability and optoelectronic properties from ab-initio calculations** **A.OR6.20**  
Walter Orellana<sup>1</sup>; <sup>1</sup>Universidad Andrés Bello
- 14:45 Plasmonic contributions in mid-infrared reflectance of epitaxial graphene microribbons** **A.OR6.21**  
Cristiane Nascimento Santos<sup>1</sup>, Frédéric Joucken, Domingos de Sousa Meneses, Patrick Echegut, Benoit Hackens; <sup>1</sup>Université Catholique de Louvain
- 15:00 Optoelectronic oscillator based on vertically aligned carbon nanotubes** **A.OR6.22**  
Carlos Torres-Torres<sup>1</sup>, Cecilia Mercado-Zúñiga<sup>2</sup>, Martin Trejo-Valdez<sup>1</sup>, Jorge R Vargas-García<sup>1</sup>, Reydezel Torres-Martínez<sup>1</sup>; <sup>1</sup>Instituto Politécnico Nacional, <sup>2</sup>Tecnológico de Estudios Superiores de Coacalco



## Poster presentations

### Session A.P2 (17:00 - 19:00)

- 17:00 Organization of 1,4,5,8-Naphthalimide Dyes onto ZnO Nanoparticle Surface** A.P2.25  
 Luis Augusto Alarcon Estrada<sup>1</sup>, Alexia Ferreira Teren<sup>1</sup>, Catherine Gazolla Santana<sup>1</sup>, Mauro Pinheiro Silva<sup>2</sup>, Mário José Politi<sup>2</sup>, Marivone Nunho Sousa<sup>1</sup>, Jayne Carlos de Souza Barboza<sup>1</sup>, Eduardo Rezende Triboni<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>2</sup>Universidade de São Paulo
- 17:00 Preparation and characterization of LaNiO<sub>3</sub> thin films** A.P2.26  
 Rafael Aparecido Ciola Amoresi<sup>1</sup>, Maria Gabriela Araújo Ranieri, Glauco Meireles Mascarenhas Morandi Lustosa<sup>2</sup>, Alexandre Z. Simões, Elson Longo, Maria Aparecida Zaghete<sup>1</sup>; <sup>1</sup>Instituto de Química de Araraquara, <sup>2</sup>Instituto de Química - UNESP
- 17:00 Solvothermal synthesis conditions influence in BiSI nanostructures for application in ionizing radiation detectors** A.P2.27  
Maia Mombrú<sup>1</sup>, Ivana Aguiar<sup>1</sup>, Laura Fornaro<sup>2</sup>; <sup>1</sup>Universidad de la República, <sup>2</sup>Centro Universitario Regional del Este, Universidad de la República
- 17:00 MOF for light-harvesting devices: a spectroscopic investigation** A.P2.28  
Evandro Castaldelli<sup>1</sup>, S. Ravi P. Silva<sup>2</sup>, Grégoire Jean-François Demets<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>University of Surrey
- 17:00 Synthesis and characterization of chlorine-doped ZnO nanopillars** A.P2.29  
Mariana Berruet<sup>1</sup>, Enrique A. Dalchiele<sup>2</sup>, Marcela Vazquez<sup>3</sup>, Ricardo E. Marotti<sup>2</sup>; <sup>1</sup>INSTITUTO DE INVESTIGACIONES EN CIENCIA Y TECNOLOGÍA DE MATERIALES, <sup>2</sup>Universidad de la República, <sup>3</sup>Universidad Nacional de Mar del Plata
- 17:00 Quantum Dots In Fluorographene Nanoribbons; Electronic and Transport Properties** A.P2.30  
IGOR RUIZ-TAGLE<sup>1</sup>, Alejandro León<sup>2</sup>; <sup>1</sup>Universidad Bernardo O'Higgins, <sup>2</sup>Universidad Diego Portales
- 17:00 Characterization by Impedance Spectroscopy of a Gas Sensor Based on ZnO Nanowires Grown via Electrochemical Method** A.P2.31  
Públio Rwany do Vale<sup>1</sup>, André Felipe Vale da Fonseca<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>, Wagner Souza Machado<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 17:00 Alternative synthetic approach for soluble melanin** A.P2.32  
João Vitor Paulin<sup>1</sup>, Erika Soares Bronze-Uhle<sup>1,2</sup>, Marina Piacenti da Silva<sup>2</sup>, Yunier Garcia Basabe<sup>3</sup>, Maria Luiza Miranda Rocco<sup>3</sup>, Chiara Battocchio<sup>4</sup>, Carlos F. O. Graeff<sup>5</sup>; <sup>1</sup>UNESP - Univ Estadual Paulista, POSMAT - Programa de Pós-Graduação em Ciência e Tecnologia de Materiais, Bauru, SP, Brazil, <sup>2</sup>Faculde de Ciencias- UNESP Bauru, <sup>3</sup>Universidade Federal do Rio de Janeiro, <sup>4</sup>Roma Tre University, <sup>5</sup>Faculdade de Ciências, UNESP-Bauru
- 17:00 Low frequency ultrasound assisted synthesis of La<sub>0.6</sub>Sr<sub>0.4</sub>M<sub>0.1</sub>Fe<sub>0.9</sub>O<sub>3-δ</sub> (M: Co, Ni and Cu) perovskite nanostructures** A.P2.33  
Ali Akbari-Fakhrabadi<sup>1</sup>, Rodrigo Andrés Espinoza-Gonzalez<sup>1</sup>; <sup>1</sup>Universidad de Chile
- 17:00 First steps to use β-HgS nanostructures in solution as electron acceptor in organic-inorganic solar cells** A.P2.34  
Isabel Galain<sup>1</sup>, Ivana Aguiar<sup>1</sup>, María Eugenia Pérez Barthaburu<sup>1</sup>, Laura Fornaro<sup>1</sup>; <sup>1</sup>Universidad de la República
- 17:00 Synthesis and structural characterization of europium and gold in the host of nanocrystalline yttrium molybdate** A.P2.35  
Celso Xavier Cardoso<sup>1</sup>, Airton Germano Bispo Junior<sup>2</sup>, Gabriel Mamoru Marques Shinohara<sup>3</sup>, Ana Maria Pires<sup>1</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente, <sup>2</sup>IBILCE Universidade Estadual Paulista, <sup>3</sup>Instituto de Química - UNESP
- 17:00 Control of energy transfer between CdSe/CdS core-shell ultrasmall quantum dots by thioglycerol ligand surface concentration** A.P2.36  
 Sidney Alves Lourenço<sup>1</sup>, Anielle Christine Almeida Silva<sup>2</sup>, Victor Ramón Martínez Zelaya<sup>3</sup>, Marco Aurélio Toledo da Silva<sup>1</sup>, José L. Duarte<sup>3</sup>, Flavio Franchello<sup>3</sup>, Noélio Oliveira Dantas<sup>2</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná, <sup>2</sup>Universidade Federal de Uberlândia, <sup>3</sup>Universidade Estadual de Londrina
- 17:00 Eu<sup>3+</sup>-doped NaPO<sub>3</sub>-WO<sub>3</sub> glasses embedded with silver nanoparticles** A.P2.37  
Mohammad Reza Dousti<sup>1</sup>, Gaël Poirier<sup>2</sup>, Andrea Simone Stucchi de Camargo<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade Federal de Alfenas

- 17:00 Charging effects and surface potential variations in Cu-based nanowires** A.P2.38
- Daniela Nunes<sup>1</sup>, Tomas Calmeiro<sup>1</sup>, Suman Nandy<sup>1</sup>, Joana V Pinto<sup>1</sup>, Pedro Barquinha<sup>1</sup>, Ana Pimentel<sup>1</sup>, Patricia A Carvalho<sup>2</sup>, Elvira Maria Correia Fortunato<sup>1</sup>, Rodrigo Ferrão de Paiva Martins<sup>1</sup>; <sup>1</sup>Departamento de Ciência dos Materiais, CENIMAT/I3N, Faculdade de Ciências e Tecnologia, FCT, Universidade Nova de Lisboa and CEMOP-UNINOVA, <sup>2</sup>SINTEF Materials and Chemistry
- 17:00 Flexible conductive nanocellulose-polypyrrole composites for electrochemical supercapacitors** A.P2.39
- Daliana Muller<sup>1</sup>, Erich Mello Oehninger<sup>1</sup>, George Paes de Barros<sup>1</sup>, Bruno Neckel Wesling<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>, Dachamir Hotza<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Semiconductors nanostructures grown by laser ablation in liquid environment** A.P2.40
- Nathalia Pereira S.M. Rios<sup>1</sup>, Leonardo Tadeu Boaes Mendonça<sup>1</sup>, Marco Antônio Sacilotti<sup>1</sup>, walter mendes de azevedo<sup>1</sup>, Eduardo Henrique Lago Falcão<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Study of electrical properties of membranes PVA/PANI for nanofibers production by electrospinning** A.P2.41
- Jessyka Carolina Bittencourt<sup>1</sup>, Guilherme Dognani<sup>2</sup>, Bruno Henrique Santana Gois<sup>2</sup>, Deuber Lincon da Silva Agostini<sup>2</sup>, Clarissa de Almeida Olivati<sup>2</sup>; <sup>1</sup>FCT -Faculdade de Ciência e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente -SP, <sup>2</sup>FCT-UNESP Campus de Presidente Prudente
- 17:00 Comparative study of films of polyaniline/TiO<sub>2</sub> and polyaniline/SnO<sub>2</sub> applied as EGFET devices.** A.P2.42
- JULIO CESAR UGUCIONI<sup>1</sup>, Fabio Aparecido Ferri<sup>2</sup>, Natalia Biziak de Figueiredo<sup>3</sup>, Marcelo Mulato<sup>4</sup>; <sup>1</sup>Universidade Federal de Lavras, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto- USP, <sup>4</sup>Universidade de São Paulo
- 17:00 Thickness vs varistors property of (Zn,Nb)SnO<sub>2</sub>-based film obtained by electrophoretic deposition.** A.P2.43
- Glauco Meireles Mascarenhas Morandi Lustosa<sup>1</sup>, Natalia Jacomaci, João Paulo de Campos da Costa, Rafael Aparecido Ciola Amoresi, Leinig Antonio Perazolli, Maria Aparecida Zaghete; <sup>1</sup>Instituto de Química - UNESP
- 17:00 Growth and characterization of Zn<sub>1-x</sub>Co<sub>x</sub>O thin films obtained by spray pyrolysis** A.P2.44
- Yina Julieth Onofre Ramirez<sup>1</sup>, Marcio Peron Franco de Godoy<sup>1</sup>, Sabrina Lara Reis<sup>1</sup>, Ariano De Giovanni Rodrigues<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos
- 17:00 Nanostructured TiO<sub>2</sub> Inks for Inkjet Printed Solar Cells** A.P2.45
- Aline Manteiga Barreiro<sup>1</sup>, Luciana Valgas de Souza<sup>1</sup>, Geneviève Kreibich Pinheiro<sup>1</sup>, Dachamir Hotza<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Manipulation of the defects density in graphite oxides activated by thermal reduction** A.P2.46
- davila karine almeida<sup>1</sup>, Thaís Marina Fernandes<sup>1</sup>, Henrique Ferreira dos Santos<sup>1</sup>, Ana Champi<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Ultrafast charge transfer dynamics and morphological investigation in thermal annealed donor-acceptor copolymer and fullerene: F8T2 and F8T2:PCBM films.** A.P2.47
- Yunier Garcia Basabe<sup>1</sup>, Natasha D.A. Yamamoto<sup>2</sup>, Lucimara Stolz Roman<sup>2</sup>, Maria Luiza Miranda Rocco<sup>3</sup>; <sup>1</sup>Universidade Federal da Integração Latino, <sup>2</sup>Universidade Federal de Paraná, <sup>3</sup>Universidade Federal do Rio de Janeiro
- 17:00 Synthesis and characterization of lanthanum fluoride nanoparticles doped with europium and cerium** A.P2.48
- Henrique de Lima Secco<sup>1</sup>, Lilia Coronato Courrol<sup>1</sup>, Laura Oliveira Péres<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Nanostructured sensing platform for anti-HBc detection** A.P2.49
- Erika Ketlem Gomes Trindade<sup>1</sup>, Blanca Azucena Gómez Rodríguez<sup>1</sup>, Diego Guerra de Albuquerque Cabral<sup>1</sup>, Erika Cristina de Lima Soares<sup>1</sup>, Cybelle Emanuele da Silva<sup>1</sup>, Rosa Fireman Dutra<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco

## Wednesday, September 30th

### Poster presentations

#### Session A.P3 (17:00 - 19:00)

- 17:00 RF Power and Temperature Influence on the Crystallinity of RF Sputtering Zinc Oxide Thin Films** **A.P3.50**  
ALEX VINICIUS SOUZA ARAUJO<sup>1</sup>, Marcelo Bento Pisani<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz
- 17:00 Microwave-based gas sensor using carbon nanotubes: an approach to ethanol fuel adulteration analysis** **A.P3.51**  
Wesley Becari<sup>1</sup>, Henrique Estanislau Maldonado Peres<sup>1</sup>, Fatima Saete Correa<sup>1</sup>, Luíza Conceição de Araújo<sup>2</sup>, Pilar Hidalgo Falla<sup>2</sup>; <sup>1</sup>Escola Politécnica de Universidade de São Paulo, <sup>2</sup>Universidade de Brasília
- 17:00 Nanostructures based on carbon nanotubes: an innovative approach to gas sensing** **A.P3.52**  
Luíza Conceição de Araújo<sup>1</sup>, Priscila Candida Duarte Gonçalves<sup>1</sup>, Pilar Hidalgo Falla<sup>1</sup>, Eduardo Conceição Araujo<sup>1</sup>, Eric Diniz<sup>2</sup>, Márcio Talhavini<sup>3</sup>; <sup>1</sup>Universidade de Brasília, <sup>2</sup>Centro Universitário da Fundação Educacional Inaciana Pe Sabóia de Medeiros, <sup>3</sup>Universidade Estadual de Campinas
- 17:00 Nanostructured NiO/polypyrrole aerogels as non-linear electronic components** **A.P3.53**  
Leticia Toreti Scarabelot<sup>1</sup>, Daliana Muller<sup>1</sup>, Geneviève Kreibich Pinheiro<sup>1</sup>, George Paes de Barros<sup>1</sup>, Luciana Valgas de Souza<sup>1</sup>, Bruno Neckel Wesling<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Energy transfer between lignins and biomolecules used in biosensors** **A.P3.54**  
Bianca Machado Cerrutti<sup>1</sup>, Marli Leite de Moraes<sup>2</sup>, Sandra Helena Pulcinelli<sup>1</sup>, Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP Araraquara, <sup>2</sup>Universidade Federal de São Paulo
- 17:00 Manipulation of the defect density in AgO nanoparticles/graphene bilayers using the power Raman laser.** **A.P3.55**  
 Mariana Camilo de Souza<sup>1</sup>, Maria Quintana<sup>2</sup>, Ana Champi<sup>1</sup>, Gabriel Almeida<sup>1</sup>, Maria Angélica Briones<sup>2</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Universidad Nacional de Ingeniería
- 17:00 Development of a novel ionizing radiation detector based in hydrothermally synthesized BiI<sub>3</sub> nanostructures** **A.P3.56**  
Ivana Aguiar<sup>1</sup>, Alvaro Olivera<sup>1</sup>, Heinkel Bentos Pereira<sup>1</sup>, Laura Fornaro<sup>1</sup>; <sup>1</sup>Universidad de la República
- 17:00 Synthesis of stabilized ZrO<sub>2</sub> nanocrystalline: influence of urea at low temperature** **A.P3.57**  
Vicente Sousa Marques<sup>1</sup>, Giancarlo Silva Sousa<sup>2</sup>, Jardel Meneses Rocha<sup>1</sup>, José Milton Elias de Matos<sup>2</sup>, Maria Rita de Moraes Chaves Santos<sup>2</sup>, Patrícia Santos Andrade<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, ciência e Tecnologia do Sertão Pernambucano, <sup>2</sup>Federal University of Piauí
- 17:00 Investigation of the Linear and Nonlinear Optical Properties of Water-Soluble CdTe QDs synthesized by the one-pot method** **A.P3.58**  
Marcelo Gonçalves Vivas<sup>1</sup>, Jose Carlos leandro Sousa<sup>2</sup>, Marco Antonio Schiavon<sup>2</sup>, Cleber Renato Mendonca<sup>3</sup>; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Universidade Federal de São João del-Rei, <sup>3</sup>Instituto de Física de São Carlos - USP
- 17:00 Characterization of the natural rubber with polypyrrole nanofibers obtained by electrospinning** **A.P3.59**  
 André Antunes da Silva<sup>1</sup>, Bruno Henrique Santana Gois<sup>1</sup>, Guilherme Dognani<sup>2,3</sup>, Aldo Eloizo Job<sup>1</sup>, Flávio Camargo Cabrera<sup>1</sup>, Renivaldo José dos Santos<sup>1</sup>, Deuber Lincon da Silva Agostini<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente, <sup>2</sup>FCT-UNESP Campus de Presidente Prudente, <sup>3</sup>FCT -Faculdade de Ciência e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente -SP
- 17:00 Composites of multiwall carbon nanotube and polyaniline applied as ammonia (NH<sub>3</sub>) gas sensor** **A.P3.60**  
Marcelo Eising<sup>1</sup>, CARLOS EDUARDO CAVA<sup>2</sup>, Rodrigo Villegas Salvatierra<sup>1</sup>, Aldo J.G. Zarbin<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Effect of Sm<sup>3+</sup> doping on ZnO nanostructures prepared under mild conditions** **A.P3.61**  
Juliane Zacour Marinho<sup>1</sup>, Fernanda da Costa Romeiro<sup>1</sup>, Elson Longo<sup>2</sup>, Renata Cristina de Lima<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 17:00 Titanium Oxide: Synthesis of nanostructures by plasma processes** **A.P3.62**  
Vanderli Laurindo Junior<sup>1</sup>, André Luis de Jesus Pereira<sup>1</sup>, Walter Miyakawa<sup>1,2</sup>, Argemiro Sousa da Silva Sobrinho<sup>1</sup>, Marcos Massi<sup>1,3</sup>, Douglas Marcel Gonçalves Leite<sup>1</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica, <sup>2</sup>Instituto de Estudos Avançados, <sup>3</sup>Universidade Federal de São Paulo - Instituto de Ciência e Tecnologia

- 17:00 Synthesis and photoluminescence properties of TiO<sub>2</sub> and TiO<sub>2</sub>:Fe nanoparticles** **A.P3.63**
- Ana Paula de Moura<sup>1</sup>, Larissa Helena de Oliveira<sup>2</sup>, Euripedes Silva Junior<sup>1</sup>, Francine Aline Tavares<sup>3</sup>, Máximo Siu Li<sup>4</sup>, Ieda Lúcia Viana Rosa<sup>3</sup>, Elson Longo<sup>1</sup>, José A. Varela<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>4</sup>Instituto de Física de São Carlos/Universidade de São Paulo
- 17:00 Silver nanoparticles inks for printed electronics** **A.P3.64**
- Segundo Nilo Mestanza Munoz<sup>1</sup>, Daniel Florencio de Aquino<sup>2</sup>, Natália Moreira Santana<sup>1</sup>, Diego Correia de Souza<sup>2</sup>, Bruno Lima Fiuza<sup>2</sup>, Manoel Deodoro Oliveira Lima<sup>2</sup>, Antonio Manuel Alves Morais<sup>2</sup>, Anderson Orzari Ribeiro<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Universidade Nove de Julho
- 17:00 Synthesis of Zirconium Oxide Nanoparticles Decorated with Silver Nanoparticles for Photocatalytic Applications.** **A.P3.65**
- Jaqueline Oliveira Sanches<sup>1</sup>, Thais Moraes Arantes<sup>1</sup>, Tatiane Moraes Arantes<sup>1</sup>, Fernando Henrique Cristovan<sup>2,3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia Goiano, <sup>2</sup>Universidade Federal de São Paulo, <sup>3</sup>Universidade Federal de São Paulo, São José dos Campos
- 17:00 Influence of Zn flow in the growth of different ZnO nanomaterials** **A.P3.66**
- Bruno Caldas Coelho<sup>1</sup>, Hugo Bonette de Carvalho<sup>2</sup>, Luis Renato Valério<sup>2</sup>, Thalita Chiaramonte<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei, <sup>2</sup>Universidade Federal de Alfenas
- 17:00 Effects of the Polymerization Temperature on the Morphology and Electrical Conductivity of Polyaniline Nanofibers** **A.P3.67**
- Raiane Valenti Gonçalves<sup>1</sup>, Maria Helena da Silva Reis<sup>1</sup>, José Antonio Malmonge<sup>2</sup>, Mara Lize Zanini<sup>1</sup>, Nara Regina de Souza Basso<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul, <sup>2</sup>Universidade Estadual Paulista, Campus de Ilha Solteira
- 17:00 Study of the annealing temperature effect on the structural, luminescent and electric properties of Pb<sub>0.5</sub>Sr<sub>0.5</sub>TiO<sub>3</sub> produced by chemical method** **A.P3.68**
- Ana Paula de Moura<sup>1</sup>, Sayonara Andrade Eliziário<sup>2</sup>, Larissa Helena de Oliveira<sup>3</sup>, Camila Soares Xavier<sup>1</sup>, Guilhermina Ferreira Teixeira<sup>1</sup>, Ieda Lúcia Viana Rosa<sup>2</sup>, Máximo Siu Li<sup>4</sup>, Elson Longo<sup>1</sup>, José A. Varela<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Universidade Estadual de Campinas, <sup>4</sup>Instituto de Física de São Carlos/Universidade de São Paulo
- 17:00 Adsorption and electrochemical properties of polyaniline/graphene oxide multilayered films** **A.P3.69**
- Cleiton Lopes de Carvalho<sup>1</sup>, Leonardo Giordano Paterno<sup>1</sup>, Artemis Marti Ceschin<sup>1</sup>, Maria José Sales<sup>1</sup>; <sup>1</sup>Universidade de Brasília
- 17:00 Polymerization of Aniline in Organic Medium Assisted by Cationic Surfactant and Dispersion in Epoxy Resin** **A.P3.70**
- Loan Filipi Calheiros Souto<sup>1</sup>, Bluma Guenther Soares<sup>1</sup>, Guilherme Mariz de Oliveira Barra<sup>2</sup>; <sup>1</sup>Institute of Macromolecules, IMA/UFRJ, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Synthesis of CuO by hydrothermal method assisted by microwave using urea as basifying agent** **A.P3.71**
- Aline Maria Herminio Mata<sup>1</sup>, Jackson Andson Medeiros<sup>1</sup>, Erivane Silva<sup>1</sup>, Anely Maciel Melo<sup>1</sup>, Guilherme Leocádio Lucena<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Max Rocha Quirino<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

## Thursday, October 1st

### Poster presentations

#### Session A.P4 (09:45 - 11:45)

- 09:45 Electrical and dielectric property of  $Ba_xCa_{1-x}TiO_3$  ceramics** A.P4.72  
Agda Eunice de Souza<sup>1</sup>, Silvio Rainho Teixeira<sup>1</sup>, Neri Alves<sup>1</sup>, Tiago Carneiro Gomes<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 09:45 Development and characterization of a molecular imprinting sol-gel and nanomaterial its application for an artemisinin sensor** A.P4.73  
Joab Serra Rodrigues da silva<sup>1</sup>, JAILSON DOS SANTOS SILVA<sup>1</sup>, FERNANDO ALVES FERREIRA<sup>1</sup>, José Anderson Farias da Silva Bomfim<sup>1</sup>, Sarah Kelly Melo Cavalcante<sup>1</sup>, Mayrane Carla Nascimento<sup>1</sup>, Cristian Bernado da Silva<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, Johnnatan Duarte de Freitas<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, wilney de Jesus Rodrigues Santos<sup>1</sup>, Phabyanno Rodrigues Lima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 09:45 Theoretical Study of Nanocages** A.P4.74  
 Juliana Cirino dos Santos<sup>1</sup>, José Divino dos Santos<sup>1</sup>; <sup>1</sup>Universidade Estadual de Goiás
- 09:45 Construction and electrical characterization of dual gate bilayer graphene/hBN devices** A.P4.75  
Edrian Mania<sup>1</sup>, Alisson Ronieri Cadore<sup>1</sup>, Takashi Taniguchi<sup>2</sup>, Kenji Watanabe<sup>2</sup>, Rodrigo Gribel Lacerda<sup>1</sup>, Leonardo C. Campos<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>National Institute for Materials Science
- 09:45 CVD-grown graphene transferred onto EPDM-Polyaniline for Organic Electronics** A.P4.76  
Rosalina Krüger de Castro<sup>1,2</sup>, Joyce Rodrigues Araujo<sup>2</sup>, Rogerio Valaski<sup>2</sup>, Lidia Oazem de Oliveira da Costa<sup>2</sup>, Braulio Soares Archanjo<sup>2</sup>, Benjamin Fragneaud<sup>3,2</sup>, Marco Cremona<sup>1,2</sup>, Carlos Alberto Achete<sup>4,2</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>3</sup>Universidade Federal de Juiz de Fora, <sup>4</sup>Universidade Federal do Rio de Janeiro
- 09:45 Synthesis, characterization and sensing properties of rare earth (Eu, Tb) doped  $SnO_2$  nanopowders** A.P4.77  
Priscila Candida Duarte Gonçalves<sup>1</sup>, Eduardo Conceição Araujo<sup>1</sup>, Luíza Conceição de Araújo<sup>1</sup>, Pilar Hidalgo Falla<sup>1</sup>, Andre Luiz Da Silva<sup>2</sup>; <sup>1</sup>Universidade de Brasília, <sup>2</sup>Universidade Federal de Santa Catarina
- 09:45 The proposal of the stress tensor for the nematic liquid crystal arising from differential geometry** A.P4.78  
 Francisco da Silva Matias<sup>1,2</sup>, Jorge Mauricio Silva Santos<sup>3</sup>, Paulo Henrique Oliveira Júnior<sup>1,4</sup>, Jaderson Araujo Barros Barbosa<sup>2</sup>, André Romão Terto<sup>2,4</sup>, Jorge Adriano Alves Coelho<sup>2</sup>, Marcio Pazetti<sup>2</sup>; <sup>1</sup>Universidade do Estado da Bahia, <sup>2</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>4</sup>IF Sertão Pernambucano/Campus Petrolina
- 09:45 Application of Natural Dyes of Brazilian Cerrado in the assembling Dye-sensitized solar cell.** A.P4.79  
Raquel da Silva Brito<sup>1</sup>, Felipe Meneses Silva<sup>1</sup>, Leticia de Fátima Silveira, Glécia Virgolino da Silva Luz, Pilar Hidalgo Falla; <sup>1</sup>Universidade de Brasília
- 09:45 Synthesis of Calcium Molybdate ( $CaMoO_4$ ) by Spray Pyrolysis** A.P4.80  
 Claudio Romero Rodrigues de Almeida<sup>1</sup>, Marcel Leal de Castro<sup>1</sup>, Fabiana Villela da Motta<sup>1</sup>, Carlos Alberto Paskocimas<sup>1</sup>, Elson Longo<sup>2</sup>, Mauricio Roberto Bomio Delmonte<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Universidade Estadual Paulista
- 09:45 Effect of geometry on the energy levels of quantum rings** A.P4.81  
Jorge Mauricio Silva Santos<sup>1</sup>, Paulo Henrique Oliveira Júnior<sup>2,3</sup>, Jaderson Araujo Barros Barbosa<sup>4</sup>, Francisco da Silva Matias<sup>5,4</sup>, André Romão Terto<sup>4,2</sup>, Jorge Adriano Alves Coelho<sup>4</sup>, Aníbal Livramento da Silva Netto<sup>4,1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>2</sup>IF Sertão Pernambucano/Campus Petrolina, <sup>3</sup>Universidade Estadual da Bahia, <sup>4</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>5</sup>Universidade do Estado da Bahia
- 09:45 ZnO nanostructured biosensor for the detection of ovarian cancer** A.P4.82  
Gisane Gasparotto<sup>1,2</sup>, João Paulo de Campos da Costa<sup>2</sup>, Paulo Inacio da Costa<sup>3</sup>, Maria Aparecida Zaghete<sup>2</sup>, Talita Mazon<sup>1</sup>; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer, <sup>2</sup>Instituto de Química - UNESP Araraquara, <sup>3</sup>Faculdade de Ciências Farmacêuticas - Unesp Araraquara

- 09:45 Nanostructured platforms based on multi-walled carbon nanotubes and film of cobalt oxides for determination hydrogen peroxide** **A.P4.83**
- Cristian Bernado da Silva<sup>1</sup>, CLEYLTON BEZERRA LOPES, Sarah Kelly Melo Cavalcante<sup>1</sup>, Mayrane Carla Nascimento<sup>1</sup>, Joab Serra Rodrigues da Silva<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, Johnnatan Duarte de Freitas<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, Wilney de Jesus Rodrigues Santos<sup>1</sup>, Marília Oliveira Fonseca Goulart<sup>2</sup>, Lauro Tatsuo Kubota<sup>3</sup>, Phabyanno Rodrigues Lima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas, <sup>2</sup>Universidade Federal de Alagoas, <sup>3</sup>Universidade Estadual de Campinas
- 09:45 Immunosensor for venous thromboembolism diagnostics based on the detection of D-dimer** **A.P4.84**
- Anna Laura Yuri Yokomichi<sup>1</sup>, Lais Roncalho Lima<sup>2</sup>, Valquiria Rodrigues<sup>3</sup>, Elenice Deffune<sup>4</sup>, Sidney J.L. Ribeiro<sup>2</sup>, Marli Leite de Moraes<sup>1</sup>; <sup>1</sup>Institute of Science and Technology, <sup>2</sup>Institute of Chemistry, <sup>3</sup>Instituto de Física de São Carlos (IFSC), <sup>4</sup>Hemocentro de Botucatu
- 09:45 Controlling electrical behavior of carbon nanotubes through physical contact** **A.P4.85**
- Ronaldo Junio Campos Batista<sup>1</sup>, Alan Barros Oliveira, Bernardo Ruegger Almeida Neves<sup>2</sup>, Hélio Chacham<sup>2</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal de Minas Gerais
- 09:45 Interaction between superconductor and ferromagnetic layers in YBCO/STO/LCMO superlattices – structural, magnetic and electrical measurements** **A.P4.86**
- Dayse Iara Dos Santos<sup>1</sup>, Anne Hitomi Yonamine<sup>1</sup>, Sergey A Fedoseev, Alexey V Pan; <sup>1</sup>Universidade Estadual Paulista, Campus de Bauru
- 09:45 Immunosensor for venous thromboembolism diagnostics based on the detection of Factor VIII** **A.P4.87**
- Anna Laura Yuri Yokomichi<sup>1</sup>, Lais Roncalho Lima<sup>2</sup>, Elenice Deffune<sup>3</sup>, Sidney J.L. Ribeiro<sup>2</sup>, Marli Leite de Moraes<sup>1</sup>; <sup>1</sup>Federal University of São Paulo, São José dos Campos-SP, Brazil, <sup>2</sup>Universidade Estadual Paulista - Câmpus de Araraquara, <sup>3</sup>Universidade Estadual Paulista
- 09:45 Synthesis of La<sub>2</sub>NiO<sub>4</sub>: an attractive mixed conductor for SOFC cathodes** **A.P4.88**
- Grazielle Lopes de Souza<sup>1</sup>, Andrey José Moraes de Lima<sup>1</sup>, Carlos Alberto Paskocimas<sup>1</sup>, Rubens Maribondo do Nascimento<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte
- 09:45 Synthesis and Characterization of Graphene Modified with Gold Nanoparticles and Its Application in Electroanalysis** **A.P4.89**
- Pedro Toloi Verissimo<sup>1</sup>, Sergio Antonio Spinola Machado<sup>1</sup>, Alcides Lopes Leao<sup>2</sup>, Ivana Cesarino<sup>2</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP, <sup>2</sup>Universidade Estadual Paulista - FCA/Câmpus de Botucatu
- 09:45 Microstructural characterization of the negative active material (NAM) added with carbon black and carbon nanotube in lead acid battery** **A.P4.90**
- Carlos José Gonçalves Vidal<sup>1</sup>, Érika Pinto Marinho<sup>1</sup>, Ana Cecília Vieira Nóbrega<sup>1</sup>, Elder Alpes Vasconcelos<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 09:45 Influence of the process pressure and O<sub>2</sub> addition in the crystallinity and optical band-gap of ZnO thin films obtained by RF magnetron sputtering.** **A.P4.91**
- William Emanuel Silva Santos Viana<sup>1,2</sup>, Marcelo Bento Pisani<sup>1</sup>, Nestor Santos Correia<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 09:45 Optimizing the application of nanoparticles of silver and gold in PLA fibers** **A.P4.92**
- Rivaldo Leon Cabral<sup>1</sup>, José Heriberto Oliveira Nascimento<sup>1</sup>, Iris Oliveira da Silva<sup>1</sup>, Rasiyah Lachumananandasivam<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte
- 09:45 Electrochemically triggered reaction: in situ activated 2,5-dichloro-4-nitrosalicylanilide on nanostructured platform for NADH electrooxidation** **A.P4.93**
- Mayrane Carla Nascimento<sup>1</sup>, Sarah Kelly Melo Cavalcante<sup>1</sup>, Joab Serra Rodrigues da Silva<sup>1</sup>, Cristian Bernado da Silva<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, Johnnatan Duarte de Freitas<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, Wilney de Jesus Rodrigues Santos<sup>1</sup>, Demetrius Pereira Morilla<sup>1</sup>, Marília Oliveira Fonseca Goulart<sup>2</sup>, CLEYLTON BEZERRA LOPES, Phabyanno Rodrigues Lima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas, <sup>2</sup>Universidade Federal de Alagoas
- 09:45 Growth and analysis of GaAs based nanowires with selective area growth MOCVD** **A.P4.94**
- Rudy Kawabata<sup>1</sup>, Patrícia Lustoza Souza<sup>1</sup>, Maurício Pamplona Pires<sup>2</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>2</sup>Instituto de Física - Universidade Federal do Rio de Janeiro
- 09:45 Flexible bacterial cellulose membranes coated with transparent liquid crystals with conductive response** **A.P4.95**
- Hernane Silva Barud<sup>1,2</sup>, Agnieszka Tercjak<sup>3</sup>, Junkal Gutierrez<sup>3</sup>, Sidney J.L. Ribeiro<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Centro Universitário de Araraquara, <sup>3</sup>University of the Basque Country UPV/EHU

- 09:45 Novel Photoactive Material Based on Imide/MMA-Copolymer and Nanoparticles** **A.P4.96**  
 Thamires da Silva Ribeiro<sup>1</sup>, Aléxia Ferreira Teren<sup>2</sup>, Karina Gonçalves Lima<sup>2</sup>, Vanessa Santos Borges<sup>2</sup>, Fátima Aparecida Das Chagas<sup>3</sup>, Mário José Politi<sup>3</sup>, Marivone Nunho Sousa<sup>2</sup>, Eduardo Rezende Triboni<sup>2</sup>; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo, <sup>2</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>3</sup>Instituto de Química da Universidade de São Paulo
- 09:45 Growth and surface characterization of TiNbZr and TiNb thin films deposited by magnetron sputtering** **A.P4.97**  
Denise Tallarico<sup>1</sup>, Nilson Tadeu Camarinho de Oliveira<sup>1</sup>, Angelo Luiz Gobbi<sup>2</sup>, Pedro Iris Paulin Filho<sup>1</sup>, Pedro Augusto de Paula Nascente<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP
- 09:45 Synthesis of the CuO nanoplates and their catalytic properties in the reduction of NO and CO<sub>2</sub> gases** **A.P4.98**  
Ieda Lúcia Viana Rosa<sup>1</sup>, Ana Paula de Moura, Edilene Deise da Silva, Cristiane Pereira Sierra, Ernesto A. Urquieta-Gonzalez, José A. Varela, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 09:45 Synthesis and gas sensing of hexagonal WO<sub>3</sub> prepared via microwave-assisted hydrothermal** **A.P4.99**  
 Tiago Almeida Martins<sup>1</sup>, Thales Rafael Machado<sup>1,2</sup>, Mateus Meneghetti Ferrer<sup>1</sup>, Sonia Maria Zanetti<sup>3</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universitat Jaume I, <sup>3</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 09:45 HOMO and LUMO orbitals for the ground state of the CaSi<sub>2</sub> molecule.** **A.P4.100**  
 Wagner Alves Lopes<sup>1</sup>, Robson Alves Silva Simões<sup>1</sup>, José Silvério Edmundo Germano<sup>1</sup>, Bogos Nubar Sismanoglu<sup>1</sup>, Vladir Wagner Ribas<sup>1</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica





## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session B.OR1 (09:45 - 10:45) - Room 06

##### 09:45 Spin current phenomena: new impetus to Spintronics

Sergio Machado Rezende<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco

B.OR1.1\*

#### Session B.OR2 (11:15 - 12:30) - Room 06

##### 11:15 Effect of buffer and capping layers on the magnetization dynamics of thin permalloy layers

Diego Ernesto González-Chávez<sup>1</sup>, Rubem Luis Sommer<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

B.OR2.2

##### 11:30 Growth of Mn<sub>2</sub>Au thin films for potential use in antiferromagnetic spintronics

Dominique Givord<sup>1</sup>, Vitoria Barthem<sup>1</sup>, Aline ramos<sup>2</sup>, Maurizio de Santis<sup>2</sup>, Helio Tolentino<sup>3</sup>, Luis Eugenio Fernandez-Outon<sup>4</sup>, Fermin Herrera Aragón<sup>5</sup>, Waldemar Augusto de Almeida Macedo<sup>5</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>CNRS/Université Grenoble Alpes, <sup>3</sup>Laboratório Nacional de Luz Síncrotron, <sup>4</sup>Universidade Federal de Minas Gerais, <sup>5</sup>Centro de Desenvolvimento da Tecnologia Nuclear

B.OR2.3

##### 11:45 Chiral magnetic domain walls in cobalt films intercalated under graphene

Alexandre Alberto Chaves Cotta<sup>1</sup>, Alpha N'Diaye<sup>2</sup>, Gong Chen<sup>2</sup>, Edmar A Soares<sup>3</sup>, Waldemar Augusto de Almeida Macedo<sup>1</sup>, Andreas Schmid<sup>2</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Lawrence Berkeley National Laboratory, <sup>3</sup>Universidade Federal de Minas Gerais

B.OR2.4

##### 12:00 Dipolar interaction and demagnetizing effects in magnetic nanoparticle dispersions

Francisco Homero Sánchez<sup>1</sup>, Pedro Mendoza Zelis<sup>1</sup>, Magda Lorena Arciniegas<sup>1</sup>, Gustavo Alberto Pasquevich<sup>1</sup>, Marcela Beatriz Fernández van Raap<sup>1</sup>; <sup>1</sup>Universidad Nacional de la Plata

B.OR2.5

##### 12:15 Consolidation by spark-plasma sintering of Ni nanoparticles

Sueli Hatsumi Masunaga<sup>1</sup>, Renato de Figueiredo Jardim<sup>1</sup>, Lázaro Pérez-Acosta<sup>2</sup>, Ernesto Govea-Alcaide<sup>3</sup>, Izabel Fernanda Machado<sup>4</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Universidad de Camaguey, <sup>3</sup>Universidad de Granada, <sup>4</sup>Escola Politécnica de Universidade de São Paulo

B.OR2.6

#### Session B.OR3 (14:00 - 15:15) - Room 06

##### 14:00 Magnetization reversal in cylindrically distributed nanowires arrays with longitudinal and transversal anisotropy

Wagner de Oliveira da Rosa<sup>1</sup>, Carlos García<sup>2</sup>, Fanny Béron<sup>3</sup>, Víctor Vega<sup>4</sup>, Javier García<sup>5</sup>, Víctor Manuel Prida<sup>4</sup>, Blanca Hernando<sup>4</sup>, Kleber Roberto Pirola<sup>3</sup>, Rubem Luis Sommer<sup>1</sup>, Jorge A. López López<sup>2</sup>, Patricio Vargas<sup>2</sup>, Caroline A Ross<sup>6</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Universidad Técnica Federico Santa María, <sup>3</sup>Universidade Estadual de Campinas, <sup>4</sup>Universidad de Oviedo, <sup>5</sup>University of Hamburg, <sup>6</sup>Massachusetts Institute of Technology

B.OR3.7

##### 14:15 Structure and spin texture of FeCo ultrathin films grown on Cu<sub>3</sub>Au(001)

Alexandre A. C. Cotta<sup>1</sup>, Amanda dos Santos Ponce<sup>1</sup>, Pedro Lana Gastelois<sup>1</sup>, Julio Cezar<sup>2</sup>, waldemar macedo<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Laboratório Nacional de Luz Síncrotron

B.OR3.8

##### 14:30 Tuning magnetic anisotropy by tetragonal distortion and exchange coupling in CoO/Ni/Pd(001) thinfilms

Pedro Lana Gastelois<sup>1</sup>, Piotr Kuswik<sup>2</sup>, Márcio Medeiros Soares<sup>3</sup>, Hélio Tolentino<sup>3</sup>, Maurizio De-Santis<sup>4</sup>, Aline ramos<sup>4</sup>, Anne Lamirand<sup>4</sup>, Maximiliano Delany Martins<sup>1</sup>, Waldemar Augusto de Almeida Macedo<sup>1</sup>, Marek Przybylski<sup>5</sup>, Jürgen Kirschner<sup>6,7</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Institute of Molecular Physics, Polish Academy of Sciences, 60-179 Poznan, Poland, <sup>3</sup>Laboratório Nacional de Luz Síncrotron, <sup>4</sup>European Synchrotron Radiation Facility, 38043 Grenoble, France, <sup>5</sup>AGH University of Science & Technology, <sup>6</sup>Martin-Luther-Universität Halle-Wittenberg, 06120 Halle, <sup>7</sup>Max-Planck-Institut für Mikrostrukturphysik, 06120 Halle

B.OR3.9

##### 14:45 Ferromagnetism at room temperature mediated by defects in Co doped and undoped Cu<sub>2</sub>O layers

Iuri Stefani Brandt<sup>1</sup>, Milton Andre Tumelero<sup>1</sup>, Enio Lima Junior<sup>2</sup>, Roberto Daniel Zysler<sup>2</sup>, Andre Avelino Pasa<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA, <sup>2</sup>Centro Atômico Bariloche

B.OR3.10

## Poster presentations

### Session B.P1 (17:00 - 19:00)

- 17:00 Nonlinear dynamics of magnon induced ferromagnetic resonance** **B.P1.1**  
José Holanda da Silva Júnior<sup>1</sup>, Antônio Azevedo<sup>1</sup>, Rafael Otoniel Cunha<sup>2</sup>, Luis Henrique Vilela Leão<sup>1</sup>, Roberto Rodríguez Suárez<sup>3</sup>, Sergio Machado Rezende<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Federal da Integração Latino-Americana, <sup>3</sup>Pontificia Universidad Católica de Chile
- 17:00 Depth-profiling XPS study of interlayer diffusion in Ni/Mn<sub>2</sub>Au thin films** **B.P1.2**  
Pablo Forlam Ribeiro Batista<sup>1</sup>, Ismael Jose Gonzalez<sup>1</sup>, Luis Eugenio Fernandez-Outon<sup>2,1</sup>, Fermin Herrera Aragón<sup>1</sup>, Waldemar Augusto de Almeida Macedo<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Universidade Federal de Minas Gerais
- 17:00 Obtaintion of CoFe<sub>2</sub>O<sub>4</sub> thin film by sol-gel method** **B.P1.3**  
Renata Oliveira Domingues<sup>1</sup>, Ramón Raudel Peña Garcia<sup>1</sup>, Fernanda Carolina Gomes Barbosa<sup>1</sup>, Mauro Ernesto Júnior<sup>1</sup>, Rebeka Oliveira Domingues<sup>1</sup>, Bruno Verissimo de Miranda Farias<sup>1</sup>, Eduardo Padrón Hernández<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Investigation of vortex crystal pattern in nanostructured antidots by magnetic vibrating sample magnetometry and magnetoresistance measurements** **B.P1.4**  
Igor Renato Bueno Ribeiro<sup>1,2</sup>, Rodrigo Costa Silva<sup>3</sup>, Sukarno Olavo Ferreira<sup>2</sup>, Afranio Rodrigues Pereira<sup>2</sup>, Winder A. Moura-Melo<sup>2</sup>, Clodoaldo Irineu Levartoski de Araújo<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo, <sup>2</sup>Fundação Universidade Federal de Viçosa, <sup>3</sup>UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO
- 17:00 Synthesis and characterization of magnetite with mauritia flexuosa l. oil functionalized by lapachol** **B.P1.5**  
Jorge Luis Lopez Aguilar<sup>1,2</sup>, Carromberth Carioca Fernandes<sup>1</sup>, Jose Higino Dias Filho<sup>3</sup>; <sup>1</sup>Universidade Federal do Acre, <sup>2</sup>Universidade Federal de Minas Gerais, <sup>3</sup>Universidade Estadual de Montes Claros
- 17:00 Synthesis and characterization of (GdxBi1-x)2FeTaO7 pyrochlores** **B.P1.6**  
Tayla Jaqueline Barragan Alves<sup>1</sup>, Reginaldo Barco<sup>1</sup>, Andrea Paesano Júnior<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá
- 17:00 Magnetic interations of Co/Cr/NiFe trilayers analyzed by magnetization measurements.** **B.P1.7**  
Heleonisia Antonia Vieira Moreira<sup>1</sup>, Elisa Baggio Saitovitch<sup>2</sup>, Willian Edgardo Alayo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas
- 17:00 Study of atomic migration effects by isotope enriched tracer layers on polycrystalline Fe/FeMn exchange biased systems** **B.P1.8**  
Mário da Silva Araújo Filho<sup>1,2</sup>, Luis Eugenio Fernandez-Outon<sup>3,2</sup>, José Domingos Ardisson<sup>2</sup>, Waldemar Augusto de Almeida Macedo<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Norte de Minas Gerais, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>3</sup>Universidade Federal de Minas Gerais
- 17:00 Magnetic Properties of Nanomaterials to Type Core- Shell CoFe<sub>2</sub>O<sub>4</sub>@CoCr<sub>2</sub>O<sub>4</sub> Obtained by Co-precipitation Method** **B.P1.9**  
Fernanda Carolina Gomes Barbosa<sup>1</sup>, Eduardo Padrón Hernández<sup>1</sup>, André Galembeck<sup>1</sup>, Ramón Raudel Peña Garcia<sup>1</sup>, Renata Oliveira Domingues<sup>1</sup>, Mauro Ernesto Júnior<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Flash synthesis of self-ordered porous alumina with hexagonal arrangements** **B.P1.10**  
 Von Ivison Mariano Paulo<sup>1</sup>, JURANDI NEVES ARAÚJO JÚNIOR<sup>1</sup>, Mauro Ernesto Júnior<sup>1</sup>, José Holanda da Silva Júnior<sup>1</sup>, Frederico Alves Revoredo Júnior<sup>1</sup>, Eduardo Padrón Hernández<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Fibonacci Sequences in Hybrid Multilayer** **B.P1.11**  
Miguel Tafur Tanta<sup>1</sup>, Marcos Antonio de Sousa, Elisa Baggio Saitovitch<sup>2</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas
- 17:00 Magnetic properties of Fe nano-clusters in Yb films prepared by vapour co-deposition** **B.P1.12**  
 Chachi Rojas Ayala<sup>1,2</sup>, Edson Passamani<sup>3</sup>, Elisa Baggio Saitovitch<sup>2</sup>, Fred J. Litterst<sup>4,2</sup>; <sup>1</sup>Universidad Nacional Mayor de San Marcos, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Universidade Federal do Espírito Santo, <sup>4</sup>Technische Universität Braunschweig
- 17:00 Optical and magnetic properties of ZnO nanowires grown by the thermal evaporation method** **B.P1.13**  
Surender Kumar Sharma<sup>1</sup>, Shalendra Kumar<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Obtaintion of yig films with low-damping using the sol-gel method** **B.P1.14**  
Ramón Raudel Peña Garcia<sup>1</sup>, Ariel Delgado del Toro<sup>1</sup>, Yuset Guerra Dávila<sup>1</sup>, Renata Oliveira Domingues<sup>1</sup>, Bruno Verissimo de Miranda Farias<sup>1</sup>, Fernanda Carolina Gomes Barbosa<sup>1</sup>, Eduardo Padrón Hernández<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco

- 17:00 Exchange Bias in IrMn<sub>3</sub>/FeCo thin films grown by MBE** **B.P1.15**  
Amanda dos Santos Ponce<sup>1</sup>, Alexandre Alberto Chaves Cotta<sup>1</sup>, Issac Montoya<sup>2</sup>, Luis Eugenio Fernandez Outon<sup>3</sup>, Rafael Morales<sup>2</sup>, Waldemar Augusto de Almeida Macedo<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Universidad del País Vasco, <sup>3</sup>Universidade Federal de Minas Gerais
- 17:00 Core-Shell CoO@CoFe<sub>2</sub>O<sub>4</sub> obtained by Method of Co-precipitation and Photochemistry Route** **B.P1.16**  
Fernanda Carolina Gomes Barbosa<sup>1</sup>, Eduardo Padrón Hernández<sup>1</sup>, André Galembeck<sup>1</sup>, Rodrigo José de Oliveira<sup>2</sup>, Mauro Ernesto Júnior<sup>1</sup>, Renata Oliveira Domingues<sup>1</sup>, Ramón Raudel Peña Garcia<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Estadual da Paraíba
- 17:00 Preparation and characterization of CoFe<sub>2</sub>O<sub>4</sub>/epoxy-resin composites** **B.P1.17**  
 Eli Silveira Alves Júnior<sup>1</sup>, Adolfo Franco Jr.<sup>1</sup>, Patrícia Pommé Confessori Sartoratto<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás
- 17:00 Induction heating studies of nanostructured Ni and Co ferrite** **B.P1.18**  
Patrícia Mariana Alves Caetano<sup>1</sup>, Adriana Silva de Albuquerque<sup>1</sup>, Luis Eugenio Fernandez-Outon<sup>2</sup>, José Domingos Ardisson<sup>1</sup>, Waldemar Augusto de Almeida Macedo<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Universidade Federal de Minas Gerais
- 17:00 Synthesis of manganese ferrite nanoparticles produced by sol-gel, and calcination in a nitrogen atmosphere.** **B.P1.19**  
Rodolfo Bezerra Da Silva<sup>1</sup>, Ana Lucia Dantas<sup>1</sup>, João Maria Soares<sup>1</sup>, Claudio Lopes De Vasconcelos<sup>1</sup>, José Alzimir Pereira da Costa<sup>1</sup>, Artur da Silva Carriço<sup>2</sup>; <sup>1</sup>Universidade do Estado do Rio Grande do Norte,<sup>2</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Sol-gel synthesis of large susceptibility cobalt ferrite nanocomposites using a new calcination route** **B.P1.20**  
 Ana Karolina GOMES DE ARAÚJO<sup>1</sup>, Rodolfo Bezerra Da Silva<sup>2</sup>, Ana Lucia Dantas<sup>2</sup>, João Maria Soares<sup>2</sup>, José Alzimir Pereira da Costa<sup>2</sup>, Artur da Silva Carriço<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte,<sup>2</sup>Universidade do Estado do Rio Grande do Norte
- 17:00 Structural and magnetic properties of Ti<sub>1-x</sub>Co<sub>x</sub>O<sub>2</sub> thin films prepared by sol-gel and spin coating** **B.P1.21**  
Jean Lui Salazar Cuaila<sup>1</sup>, Willian Edgardo Alayo<sup>1</sup>, César Antonio Oropesa Avellaneda<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 17:00 Electronic structure and magnetic study of Co doped TiO<sub>2</sub> thin films prepared using a pulsed laser deposition technique** **B.P1.22**  
Shalendra Kumar<sup>1</sup>, Surender Kumar Sharma<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão

## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session B.OR4 (09:45 - 10:45) - Room 06

**09:45 Spin to Charge current Conversion: from bulk to surface effect** **B.OR4.11\***  
Jean-Marie GEORGE<sup>1</sup>; <sup>1</sup>Unité Mixte de Physique CNRS Thales

#### Session B.OR5 (11:15 - 12:30) - Room 06

**11:15 Giant negative magnetoresistance in Mn-substituted ZnO** **B.OR5.12**  
Antonio Ruotolo<sup>1</sup>; <sup>1</sup>City University of Hong Kong

**11:30 Antiferromagnetism induced by oxygen vacancies in V<sub>2</sub>O<sub>5</sub> polycrystals** **B.OR5.13**  
 Driele von Dreifus<sup>1</sup>, Marcio Peron Franco de Godoy<sup>1</sup>, Adriano Cesar Rabelo<sup>1</sup>, Yara Galvão Gobato<sup>1</sup>, Paulo César de Camargo<sup>1</sup>, Ernesto C Pereira<sup>1</sup>, Adilson J A de Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos

**11:45 Thermal and optical control of electronic states in a single layer of switchable paramagnetic molecules** **B.OR5.14**  
Giordano Poneti<sup>1,2</sup>, Lorenzo Poggini<sup>2</sup>, Matteo Mannini<sup>2</sup>, Brunetto Cortigiani<sup>2</sup>, Lorenzo Sorace<sup>2</sup>, Edwige Otero<sup>3</sup>, Philippe Sainctavit<sup>4</sup>, Agnese Magnani<sup>5</sup>, Roberta Sessoli<sup>2</sup>, Andrea Dei<sup>2</sup>; <sup>1</sup>Università Telematica Guglielmo Marconi, <sup>2</sup>University of Florence, <sup>3</sup>Synchrotron SOLEIL, <sup>4</sup>Université Paris 6 Pierre and Marie Curie, <sup>5</sup>Università degli Studi di Siena

**12:00 Low temperature photoconductivity defect spectroscopy in Li doped ZnO Microwires** **B.OR5.15**  
 Benjamin Straube<sup>1,2</sup>, Silvia Inés Pérez<sup>1,3</sup>, German Bridoux<sup>2</sup>, Jorge Ferreyra<sup>1,3</sup>, Manuel Villafuerte<sup>1,2</sup>, Israel Lorite<sup>4</sup>, Claudia Rodríguez Torres<sup>5,2</sup>, Pablo Esquinazi<sup>4</sup>; <sup>1</sup>Universidad Nacional de Tucumán, <sup>2</sup>Consejo Nacional Investigación Científica y Técnica, <sup>3</sup>Laboratorio de Física del Sólido, <sup>4</sup>Universität Leipzig, <sup>5</sup>Universidad Nacional de la Plata

**12:15 Off-axis electron holography of Co Precipitates in Cu-10at.%Co alloys** **B.OR5.16**  
Natasha Midori Suguihiro<sup>1</sup>, Martha McCartney<sup>2</sup>, David J Smith<sup>2</sup>, Elisa Baggio Saitovitch<sup>1</sup>, Ivan Guillermo Solórzano-Naranjo<sup>3</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Arizona State University, <sup>3</sup>Pontificia Universidade Católica do Rio de Janeiro

#### Session B.OR6 (14:00 - 15:15) - Room 06

**14:00 Antiferromagnetic spintronics** **B.OR6.17\***  
Tomas Jungwirth<sup>1</sup>; <sup>1</sup>Institute of Physics, Academy of Sciences of the Czech Republic

### Poster presentations

#### Session B.P2 (17:00 - 19:00)

**17:00 Vortex wall motion on Py nanowires** **B.P2.23**  
Luiz Carlos Sampaio, Alexandre Silva Mello, Alexandre Gonçalves, Paulo Soledade, Flavio Garcia, Jeovani Brandão

**17:00 Synthesis and Characterization of Monodisperse Copper Ferrite by the hot injection method** **B.P2.24**  
Daniely Ferreira de Queiroz<sup>1</sup>, Laudemir Carlos Varanda<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP

**17:00 Magnetization Dynamics and Damping of NiFe/Co Synthetic Layers** **B.P2.25**  
Daniel Palheta Pereira<sup>1,2</sup>, Diego Ernesto González-Chávez<sup>1</sup>, Bruno Gomes Silva<sup>1</sup>, Rubem Luis Sommer<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Instituto Federal do Pará - Campus Belém

**17:00 Magnetoelastic Effect in multilayers of Ni Nanoparticles and C films produced by Pulsed Laser Deposition** **B.P2.26**  
Alexsandro dos Santos Evangelista da Cruz<sup>1</sup>, Fernando Fabris<sup>1</sup>, Yutao Xing<sup>1</sup>, Wallace Castro Nunes<sup>1</sup>, Dante Ferreira Franceschini<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense

**17:00 Magnetic Properties of FePt and CoPt Nanoparticles Prepared in Imidazolium Ionic Liquids** **B.P2.27**  
Jilder Dandy Peña Serna<sup>1</sup>, Janice Adamski<sup>2</sup>, Janine Rachel Viscardi<sup>2</sup>, Aitor Gual Gozalbo<sup>2</sup>, Daniel Lorscheitter Baptista<sup>2</sup>, Jairton Dupont<sup>2</sup>, Benjamin Rache Salles<sup>1</sup>, Miguel Alexandre Novak<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade Federal do Rio Grande do Sul

- 17:00 Spontaneous vortex phases in Nb thin films induced by cubic and spherical magnetic Ni nanoparticles** **B.P2.28**  
Yutao Xing, Estefani Marchiori, Noemi Raquel Checca Huaman<sup>1</sup>, Sander Slazar, Wallace de Castro Nunes, Dante Ferreira Franceschini Filho, LIYING LIU, Hans Micklitz, Elisa Baggio Saitovitch; <sup>1</sup>Universidade Federal Fluminense
- 17:00 FMR-linewidth and damping of electroplated NiFe/Cu multilayered films** **B.P2.29**  
Bruno Gomes Silva<sup>1</sup>, Diego Ernesto González-Chávez<sup>1</sup>, Marcos José Pereira Alves<sup>1</sup>, José Gomes Filho<sup>1</sup>, Rubem Luis Sommer<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas
- 17:00 Spinwave dynamics in periodic elliptical dots** **B.P2.30**  
Roberta Dutra de Oliveira Pinto<sup>1</sup>, Diego Ernesto González-Chávez<sup>1</sup>, Maximiliano Delany Martins<sup>2</sup>, Rubem Luis Sommer<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 A magnetic hysteresis mechanism in arrays nanowires** **B.P2.31**  
José Holanda da Silva Júnior<sup>1</sup>, Daniela Rodrigues Borba Valadao<sup>1</sup>, Cecília Leite do Amaral Veras Campos<sup>1</sup>, Eduardo Padrón Hernández<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Skyrmion properties in confined structures with perpendicular anisotropy.** **B.P2.32**  
 Rafael Leonardo Novak<sup>1</sup>, Flavio Garcia<sup>2</sup>, Erico Raimundo Pereira de Novais<sup>3</sup>, João Paulo Sinnecker<sup>2</sup>, Alberto Passos Guimarães<sup>2</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Universidade Federal de Alagoas
- 17:00 Synthesis, structural and magnetic characteristics of Co-DOPEDC ZnO thin films prepared by dip-coating** **B.P2.33**  
Luis Renato Valério<sup>1</sup>, Alexandre Mesquita<sup>2</sup>, Angela Ortiz de Zavallos<sup>1</sup>, Antonio Carlos Doriguetto<sup>1</sup>, Maria Ines Basso Bernardi<sup>3</sup>, Hugo Bonette de Carvalho<sup>1</sup>; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Universidade Estadual Paulista - Campus Rio Claro, <sup>3</sup>Instituto de Física de São Carlos/Universidade de São Paulo
- 17:00 Shape control, magnetic and structural properties of dimer and flower-like bifunctional Ag@Fe<sub>3</sub>O<sub>4</sub> nanostructures** **B.P2.34**  
Pablo Tancredi<sup>1</sup>, Oscar Moscoso-Londoño<sup>2</sup>, Diego Muraca<sup>2</sup>, Kleber Roberto Pirota<sup>2</sup>, Marcelo Knobel<sup>2</sup>, Ulrike Wolff<sup>3</sup>, C. Damm<sup>3</sup>, V. Neu<sup>3</sup>, B. Rellinghaus<sup>3</sup>, Leandro M. Socolovsky<sup>1</sup>; <sup>1</sup>Laboratorio de Sólidos Amorfos (LSA), INTECIN, Facultad de Ingeniería, Universidad de Buenos Aires - CONICET, C1063ACV Buenos Aires, Argentina., <sup>2</sup>Laboratorio de Materiais e Baixas Temperaturas (LMBT), Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Cep 13083-859 Campinas-Sp, Brasil., <sup>3</sup>Department of Magnetic Microstructures, Leibniz Institute for Solid State and Materials Research Dresden, Helmholtzstraße 20-01069 Dresden, Germany.
- 17:00 Sintesis and Structural Characterization of Nanostructured TiO<sub>2</sub>:Co:Sb Dilute Magnetic Oxide** **B.P2.35**  
Paulo Henrique Gomes<sup>1</sup>, Maria Ines Basso Bernardi<sup>2</sup>, Hugo Bonette de Carvalho<sup>1</sup>; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Instituto de Física de São Carlos/Universidade de São Paulo
- 17:00 Geometry influence of two-segments Ni nanowires on array magnetic properties** **B.P2.36**  
Luis Carlos Costa Arzuza<sup>1</sup>, Diego Salazar-Aravena<sup>1</sup>, Victor Vega<sup>2</sup>, Victor Manuel Prida<sup>2</sup>, Fanny Beron<sup>1</sup>, Kleber Roberto Pirota<sup>1</sup>; <sup>1</sup>Laboratorio de Materiais e Baixas Temperaturas (LMBT), Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, <sup>2</sup>Universidad de Oviedo
- 17:00 Fe<sub>3</sub>Ga<sub>4</sub> nanowires growth by a new synthesis method** **B.P2.37**  
Karoline Oliveira Moura<sup>1</sup>, Luiz Augusto Souza Oliveira<sup>2</sup>, Priscila Ferrari Silveira Rosa<sup>1</sup>, Fanny Béron<sup>1</sup>, Pascoal José Giglio Pagliuso<sup>1</sup>, Kleber Roberto Pirota<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 17:00 Study of magnetic fluid CoFe<sub>2</sub>O<sub>4</sub> with mauritia flexuosa oil and polysorbate 80** **B.P2.38**  
Jose Higino Dias Filho<sup>1</sup>, Jorge Luis Lopez Aguilar<sup>2,3</sup>, Roberto Magalhães Paniago<sup>3</sup>; <sup>1</sup>Universidade Estadual de Montes Claros, <sup>2</sup>Universidade Federal do Acre, <sup>3</sup>Universidade Federal de Minas Gerais
- 17:00 Double perovskite rare-earth with applications in spintronics** **B.P2.39**  
Ádila Priscilla Gomes Rodrigues<sup>1</sup>, Dulce Maria de Araújo Melo<sup>1</sup>, José Humberto De Araújo<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Synthesis, structural and magnetic characterization of the (Zr, Fe)O<sub>2</sub> system synthesized by freeze-drying and heat treatment** **B.P2.40**  
Antônio Oliveira de Souza<sup>1,2</sup>, Valdecir Biondo<sup>1</sup>, Flávio Francisco Ivashita<sup>1</sup>, Andrea Paesano Júnior<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Universidade Federal do Oeste da Bahia
- 17:00 Magnetic Studies of a Mononuclear and Trinuclear Dysprosium, Barium and Manganese Complexes** **B.P2.41**  
Charlie Vargas Sarmiento<sup>1</sup>, Miguel Alexandre Novak<sup>1</sup>, Maria das Gracas Fialho Vaz<sup>2</sup>, Samira Gama Reis<sup>2</sup>, Ernesto Schulz Lang<sup>3</sup>, Ulrich Abram<sup>4</sup>, Vânia Denise Schwade<sup>3</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade Federal Fluminense, <sup>3</sup>Universidade Federal de Santa Maria, <sup>4</sup>Freie Universität Berlin

- 17:00 Magnetite Nanoparticles Encapsulated with PCL and Poloxamer by Nano Spray Drying technique** **B.P2.42**  
Caio José Percin<sup>1</sup>, Sergio Akinobu Yoshioka<sup>1</sup>, Valmir Antonio Chitta<sup>2</sup>, Xavier Gratens<sup>2</sup>, Natália Neto Pereira Cerize<sup>3</sup>, Adriano Marim Oliveira<sup>3</sup>; <sup>1</sup>Universidade de São Paulo, São Carlos, <sup>2</sup>Instituto de Física da Universidade de São Paulo, <sup>3</sup>Instituto de Pesquisas Tecnológicas do Estado de São Paulo
- 17:00 Dipolar interactions in  $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$  nanostructures** **B.P2.43**  
Márcia Tsuyama Escote<sup>1</sup>, Daniel Felipe Simião<sup>1</sup>, Alessandra Zenatti<sup>1</sup>, Alexandre José de Castro Lanfredi<sup>1</sup>, Renato de Figueiredo Jardim<sup>2</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Instituto de Física da Universidade de São Paulo
- 17:00 Synthesis of nickel ferrite nanoparticles using complexes of iron and nickel oleate** **B.P2.44**  
Daniely Ferreira de Queiroz, Laudemir Carlos Varanda<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP







## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session C.OR1 (09:45 - 10:45) - Room Plenary

- 09:45 Conventional Transmission Electron Microscopy as a strong technique of characterization in nanoscience and nanotechnology** C.OR1.1\*  
Jefferson Bettini<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP
- 10:15 Direct observation of alloying, hollowing, and core-shell inversion in AgAu nanoparticles during in situ heating** C.OR1.2  
Edward Alexander Lewis<sup>1</sup>, Sarah Jane Haigh<sup>1</sup>, Pedro Henrique Cury Camargo<sup>2</sup>; <sup>1</sup>University of Manchester, <sup>2</sup>Universidade de São Paulo
- 10:30 Towards an implementation of a new protocol of TEM measurements of discrete and spheroidal nanoparticles at Inmetro** C.OR1.3  
Sandra Marcela Landi<sup>1</sup>, Martín Emilio Mendoza<sup>1</sup>, Carlos Eduardo Galhardo<sup>1</sup>, Antti Nykänen<sup>1</sup>, Tatiana V Galvão<sup>1</sup>, Eveline de Robertis<sup>1</sup>, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia

#### Session C.OR2 (11:15 - 12:30) - Room Plenary

- 11:15 Plasma Surface Modification of Polymers: Production of hydrophobic and Oleophobic Surfaces** C.OR2.4\*  
Renata Antoun Simão<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 11:45 Direct measure of the photoinduced nanoscale surface displacement in solids using atomicforce microscopy** C.OR2.5  
Eduardo Jorge da Silva Fonseca<sup>1</sup>, Samuel Teixeira Souza<sup>1</sup>, Carlos Jacinto<sup>1</sup>, Nelson Astrath<sup>2,3</sup>, Thiago Petrucci Rodrigues<sup>2</sup>, Luis C. Malacarne<sup>2</sup>; <sup>1</sup>Universidade Federal de Alagoas, <sup>2</sup>Universidade Estadual de Maringá, <sup>3</sup>Física
- 12:00 Optimization in digital image processing to determine quantum dots heights from atomic force microscopy** C.OR2.6  
Jose Eduardo Ruiz Rosero<sup>1,2</sup>, Patrícia Lustoza Souza<sup>1,2</sup>, Luciana Dornelas<sup>1,2</sup>, Maurício Pamplona Pires<sup>2,3</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Ciência e Tecnologia de Nanodispositivos Semicondutores, <sup>3</sup>Instituto de Física - Universidade Federal do Rio de Janeiro
- 12:15 From Catalysis and Plasmonics: Probing the Structure of Nanoscale Materials with the TEM and EELS** C.OR2.7  
Gianluigi Botton<sup>1</sup>; <sup>1</sup>McMaster University

#### Session C.OR3 (14:00 - 15:15) - Room Plenary

- 14:00 Low field nmr relaxometry on the study of polymer nanocomposites** C.OR3.8\*  
Emerson Oliveira da Silva<sup>1</sup>; <sup>1</sup>Institute of Macromolecules, IMA/UFRJ
- 14:30 In Situ TEM for the Analysis of Li and Na Transport in Nanoscale Materials for Secondary Batteries** C.OR3.9  
Reza Shahbazian-Yassar<sup>1</sup>; <sup>1</sup>University of Illinois Chicago
- 14:45 Imaging electron transport at the nanoscale using scanning gate microscopy** C.OR3.10  
Benoit Hackens<sup>1</sup>; <sup>1</sup>Université Catholique de Louvain
- 15:00 On the Fabrication of Graphene Spintronic Devices** C.OR3.11  
 Bárbara Canto<sup>1,2</sup>, Cristol de Paiva Gouvêa<sup>3</sup>, Braulio Soares Archanjo<sup>3</sup>, João Edgar Schmidt<sup>2</sup>, Daniel Lorscheitter Baptista<sup>1,2</sup>; <sup>1</sup>Programa de Pós-graduação em Microeletrônica - Universidade Federal do Rio Grande do Sul, <sup>2</sup>Instituto de Física - Universidade Federal do Rio Grande do Sul, <sup>3</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia

## Poster presentations

### Session C.P1 (17:00 - 19:00)

- 17:00 Morphological evolution and visible light-induced degradation of Rhodamine 6G by nanocrystalline bismuth tungstate prepared by template** C.P1.1  
Poliana Lima Rocha<sup>1</sup>, Raissa Mendes Silva<sup>1</sup>, Amanda Fernandes Gouveia<sup>2</sup>, Máximo Siu Li<sup>3</sup>, José Renato de Oliveira Lima<sup>1</sup>, Adeilton Pereira Maciel<sup>1</sup>, Elson Longo<sup>2</sup>, Marcio Aurélio Pinheiro Almeida<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Universidade de São Paulo
- 17:00 Synthesis of Iron-Oxide nanoparticles. Size and shape effect on magnetic properties.** C.P1.2  
Juan Manuel Orozco<sup>1</sup>, Diego Muraca<sup>1</sup>, Surender Kumar Sharma<sup>2</sup>, Marcelo Knobel<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal do Maranhão
- 17:00 Biomimetic Coating of Ti nanostructured surfaces: Effects of the solution composition on the formation of apatite coatings** C.P1.3  
ANAHI HERRERA APARECIDA<sup>1</sup>, Nilson T. C. Oliveira<sup>1</sup>, Claudemiro Bolfarini<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Formation of TiO<sub>2</sub> nanotube layer by anodization of titanium in ethylene glycol-H<sub>2</sub>O electrolyte** C.P1.4  
Alain Robin<sup>1</sup>, Michele Bernardes Ribeiro<sup>1</sup>, Jorge Luiz Rosa<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Development of self assembly micrometric latex spheres monolayers generated by evaporation induced self-assembly (EISA) technique.** C.P1.5  
Wagner Cirilo Rodrigues<sup>1</sup>, Phabyanno Rodrigues Lima<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, Johnnatan Duarte de Freitas<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, José Ginaldo Silva Júnior<sup>1</sup>, DJALMA ALBUQUERQUE BARROS FILHO<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 17:00 Synthesis and Optical Characterization and Structural Materials** C.P1.6  
Ana Flávia Duarte do Nascimento<sup>1</sup>, Maria Rita de Cássia Santos<sup>1</sup>, Noélio Oliveira Dantas<sup>2</sup>, Anielle Christine Almeida Silva<sup>2</sup>, Mario Godinho Junior<sup>3</sup>; <sup>1</sup>Universidade Federal de Goiás, <sup>2</sup>Universidade Federal de Uberlândia, <sup>3</sup>Universidade Federal de Goiás - Instituto de Química
- 17:00 New method for encapsulation of perillyl alcohol using peptide self-assembled nanostructures.** C.P1.7  
Henrique Santiago Camargo<sup>1</sup>, Flávio Colmati Junior<sup>1</sup>, Tatiana Duque Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás - Instituto de Química
- 17:00 Synthesis and characterization of perovskites NaNbO<sub>3</sub> with photocatalytic properties** C.P1.8  
Raimison Bezerra de Assis<sup>1</sup>, Mara Tatiane de Souza Tavares<sup>1</sup>, Samara Melo Valcacer<sup>2</sup>, Tércio Graciano Machado<sup>1</sup>, Flanelson Monteiro<sup>1</sup>, Maurício Roberto Delmonte Bomio<sup>3</sup>, Carlos Alberto Paskocimas<sup>3</sup>, Fabiana Villela da Motta<sup>3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia da Bahia, <sup>2</sup>Instituto Federal de Mato Grosso do Sul, <sup>3</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Influence of temperature and addition of stabilizer agent on the synthesis of silver nanoparticles (AgNP)** C.P1.9  
Flávio Souza Costa<sup>1</sup>, Ana Paula Lemes<sup>1</sup>, Fabio Roberto Passador<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Synthesis and spectroscopic characterization of nanoparticles of TiO<sub>2</sub> doped with Pt obtained by self-combustion route** C.P1.10  
Alex Arbey Lopera<sup>1</sup>, Edgar Andres Chavarriaga<sup>1</sup>, Gloria Cristina Valencia<sup>1</sup>, Carlos Paucar<sup>1</sup>, Claudia Patricia Garcia<sup>1</sup>; <sup>1</sup>Universidad Nacional de Colombia
- 17:00 Molecular interactions of a tryptophan-rich antimicrobial peptide with carbon nanotubes** C.P1.11  
Rubens Santana dos Santos<sup>1</sup>, Nelida Simona Marín<sup>1</sup>, Paulo Ricardo da Silva Sanches<sup>2</sup>, Eduardo Maffud Cilli<sup>2</sup>, Erica Cristina Almeida<sup>1</sup>, Luiz Carlos Salay<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Molecular interactions of a plant saponin with carbon-based materials** C.P1.12  
Calline Pereira dos Santos<sup>1</sup>, Nelida Simona Marín<sup>1</sup>, Antônio Santana Santos<sup>1</sup>, Grace Gosmann<sup>2</sup>, Erica Cristina Almeida<sup>1</sup>, Luiz Carlos Salay<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Spectroscopic study of the molecular interactions of a pH-responsive designed peptide with carbon nanotubes** C.P1.13  
Anne Louisi Goes de Souza<sup>1</sup>, Nelida Simona Marín<sup>1</sup>, Paulo Ricardo da Silva Sanches<sup>2</sup>, Eduardo Maffud Cilli<sup>2</sup>, Erica Cristina Almeida<sup>1</sup>, Luiz Carlos Salay<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara

- 17:00 Cr<sub>x</sub>O<sub>y</sub> – SiO<sub>2</sub> based selective absorbing surfaces for solar collectors** **C.P1.14**  
José Felix Silva Neto<sup>1</sup>, Emerson Lima<sup>2</sup>, Damião Ezequiel Duvirgens Vieira<sup>1</sup>, Leonardo Bitu Correia Leandro<sup>1</sup>, Kelly Cristiane Gomes<sup>1</sup>, Sandro Marden Torres<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de Alagoas
- 17:00 Sonoelectrochemical synthesis of nanostructures of manganese oxide and their capacitance properties** **C.P1.15**  
 Janiny Nunes Lacerda<sup>1</sup>, Alberto André Rodrigues Drummond<sup>1</sup>, Rachel Vasconcellos Rodrigues<sup>1</sup>, Eduardo Ariel Ponzio<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Effect of ferromagnetic nanoparticles in the supramolecular organization and electron transfer kinetic study of cobalt Prussian blue analogue** **C.P1.16**  
Caio Lenon Chaves Carvalho<sup>1</sup>, Anna Thaise Bandeira Silva<sup>1</sup>, Roberto Alves de Sousa Luz<sup>2</sup>, Welter Cantanhêde<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí, <sup>2</sup>Instituto de Química de São Carlos
- 17:00 Assessment of cytotoxicity by MTT and characterization of anodized titanium surfaces with pulsed current and with direct current** **C.P1.17**  
Maria Fernanda Lima Villça-Carvalho<sup>1</sup>, Luana Marotta reis de Vasconcellos<sup>1</sup>, Heloisa Andréa Acciari<sup>2</sup>, Natal Nerímio Regone<sup>2</sup>, Mari Eli Leonelli de Moraes<sup>2</sup>, Eduardo Norberto Codaro<sup>2</sup>; <sup>1</sup>Instituto de Ciência e Tecnologia, Universidade " Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 The influence of aging time in the syntheses of nanocarriers (indomethacin - Mg / Al-LDH) for systems drugs delivery** **C.P1.18**  
Kelly Miranda Costa<sup>1</sup>, José Araujo Silva<sup>1</sup>, Julia Rachit Machado<sup>1</sup>, Rafaela da Silva Ferreira<sup>1</sup>, Christiane França Martins Santos<sup>1</sup>, Cláudio Nahum Alves<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Synthesis and characterization of Gd-doped hydroxyapatite nanorods for diagnosis and therapy of osteosarcomas** **C.P1.19**  
Marcelo Fernandes Cipreste<sup>1</sup>, Anderson Maia Peres<sup>1</sup>, Fermin Herrera Aragón<sup>1</sup>, Alan de Melo Antunes<sup>1</sup>, Waldemar Augusto de Almeida Macedo<sup>1</sup>, Edésia Martins Barros de Sousa<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Visualization of latent fingerprints for electrochemical deposition of manganese oxide** **C.P1.20**  
Janiny Nunes Lacerda<sup>1</sup>, Paulo Henrique Buzzetti<sup>1</sup>, Alberto André Rodrigues Drummond<sup>1</sup>, Eduardo Ariel Ponzio<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Preparation of folate-targeted PEGylated SPIONs for biomedical applications** **C.P1.21**  
Eloiza da Silva Nunes<sup>1</sup>, Wesley Renato Viali<sup>2</sup>, Rodolfo Debone Piazza<sup>3</sup>, Miguel Jafellici Júnior<sup>3</sup>; <sup>1</sup>Instituto Federal Goiano, campus Rio Verde, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Adjustable, high hydrophobicity by e-beam deposition of nanostructured PTFE on anisotropically etched silicon surfaces** **C.P1.22**  
 Alexandre Fassini Michels<sup>1</sup>, Paulo Azevedo Soave<sup>2</sup>, Pedro L. G. Jardim<sup>3</sup>, Julio Nardi<sup>3</sup>, Sérgio Ribeiro Teixeira<sup>3</sup>, Daniel Eduardo Weibel<sup>3</sup>, Flavio Horowitz<sup>3</sup>; <sup>1</sup>Universidade de Caxias do Sul, <sup>2</sup>Centro Federal de Educação Tecnológica de Minas Gerais, <sup>3</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Photocatalytic activity of nanoparticles of CaTiO<sub>3</sub> and CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> perovskites** **C.P1.23**  
Rocío María Tamayo Calderón<sup>1</sup>, Rodrigo Andrés Espinoza-Gonzalez<sup>1</sup>; <sup>1</sup>Universidad de Chile
- 17:00 Addition of iron oxide nanoparticles, prepare by polyol, with magnetic markers for non-destructive evaluation of polymer composites** **C.P1.24**  
THARSIA CRISTIANY DE CARVALHO COSTA, Ana Paula Pereira Fulco, Carlos Alberto Paskocimas, José Daniel Diniz Melo
- 17:00 ZnO microtubes decorated with nanowires** **C.P1.25**  
José Antonio Souza<sup>1</sup>, Cynthia Marina Rivaldo Gomez<sup>1</sup>, Denise Criado<sup>1</sup>, Alejandro Zuniga<sup>1</sup>, Jeroen Schoenmaker<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Ni<sub>0.4</sub>Zn<sub>0.5</sub>Co<sub>0.1</sub>Fe<sub>2</sub>O<sub>4</sub> ferrites synthesized by microwave-assisted hydrothermal method** **C.P1.26**  
Pedro Yuri Cunha de Santana<sup>1</sup>, Fernando Carvalho Silva<sup>1</sup>, Francisco Sávio Mendes Sinfrônio<sup>1</sup>, Kátia Regina Marques Moura<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Microstructural characterization, microhardness and morphology of the Al-Fe alloy sampled treated by the laser surface remelting varying the laser beam scanning velocity** **C.P1.27**  
Moisés Meza Pariona<sup>1</sup>, Jean Cleber Bertoni<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa
- 17:00 Synthesis and evaluation of Co<sub>x</sub>Ag<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> nanopowders for antibacterial applications** **C.P1.28**  
Gabriel Alves Gomes<sup>1</sup>, André Ben-Hur Silva Figueredo<sup>1</sup>; <sup>1</sup>Instituto Militar de Engenharia

- 17:00 Nanoparticle characterization of tin oxide synthesized by different methods** **C.P1.29**  
Rafael Colombo Abruzzi<sup>1</sup>, Berenice Dedavid<sup>1</sup>, Marçal José Rodrigues Pires<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul
- 17:00 Ferrite Ni<sub>0,5</sub>Mn<sub>0,5</sub>Fe<sub>2</sub>O<sub>4</sub> synthesized by polymeric precursor method: evaluation of morphology and magnetic properties** **C.P1.30**  
Eliane Moura Carlos<sup>1</sup>, Raimison Bezerra de Assis<sup>2</sup>, Renata Ferreira Sousa<sup>1</sup>, TATIANE POTIGUARA OLIVEIRA<sup>1</sup>, jose ubiragi lima mendes<sup>1</sup>, Maurício Roberto Delmonte Bomio<sup>1</sup>, Carlos Alberto Paskocimas<sup>1</sup>, Fabiana Villela da Motta<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>INSTITUTO FEDERAL DA BAHIA
- 17:00 Mechanical Characterization of Boron Carbide using Nanoindentation** **C.P1.31**  
Ricardo Alexandre Lannes Couto<sup>1</sup>, José Brant Campos<sup>1</sup>, Marcelo Eduardo Huguenin Maia da Costa<sup>2</sup>, Erika Abigail Ochoa Becerra<sup>2</sup>, Célio Albano da Costa Neto<sup>3</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro, <sup>2</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>3</sup>Universidade Federal do Rio de Janeiro
- 17:00 Synthesis and characterization of magnetic zeolites A and P from kaolin** **C.P1.32**  
Raquel de Andrade Bessa<sup>1</sup>, Evânia Carvalho dos Santos<sup>1</sup>, Adonay Rodrigues Loiola<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Physical-chemical characterization of ZrN/Ag thin films for biological applications** **C.P1.33**  
Ana Elisa Dotta Maddalozzo<sup>1</sup>, Tatiana Pacheco Soares<sup>1</sup>, Caren Machado Menezes<sup>1</sup>, Carlos Alejandro Figueroa<sup>1</sup>, Jadna Catafesta<sup>1</sup>, Cesar Aguzzoli<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul
- 17:00 Visible light photocatalyst Cu:ZnS obtained by Microwave-assisted Hydrothermal method** **C.P1.34**  
Amanda Martins Fernandes<sup>1</sup>, Guilherme Oliveira Siqueira<sup>1</sup>, Francisco Moura Filho<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Nanocomposites of hydroxyapatite-iron oxides for application in hyperthermia** **C.P1.35**  
Bruna Guedes Alvarenga<sup>1</sup>, Edésia Martins Barros de Sousa<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Silver Nanoprismas Production optimization by using factorial design** **C.P1.36**  
JOSÉ FILIPE BACALHAU RODRIGUES<sup>1</sup>, Rennan Normando de Andrade Silva<sup>1</sup>, Maria Roberta de Oliveira Pinto<sup>1</sup>, Rossemberg Cardoso Barbosa<sup>2</sup>, MARCUS VINÍCIUS LIA FOOK<sup>2</sup>; <sup>1</sup>State University of Paraíba, <sup>2</sup>UNIVERSIDADE ESTADUAL DA PARAÍBA
- 17:00 Evaluation of the influence of synthesis conditions on the microstructure of semiconductor materials nanoparticulate of ZnS** **C.P1.37**  
Thayrine Bráz Taveira<sup>1</sup>, Guilherme Oliveira Siqueira<sup>1</sup>, Francisco Moura Filho<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Photoluminescence spectroscopy during oxidation of Porous Silicon structures** **C.P1.38**  
Tiago Franca Paes<sup>1</sup>, Luiz Angelo Berni<sup>1</sup>, Antonio Fernando Beloto<sup>1</sup>; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Green synthesis of copper nanoparticles using ascorbic acid and polyvinilpirrolidone.** **C.P1.39**  
Felipe Ianesko<sup>1</sup>, Cristiane Antoniazzi<sup>1</sup>, Andressa Galli<sup>1</sup>, Eryza Guimarães de Castro<sup>1</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste
- 17:00 System construction and development of methodology for photocatalytic tests** **C.P1.40**  
Caroline Andrade D'Arts<sup>1</sup>, Victor Augusto Cavalli<sup>1</sup>, Guilherme Oliveira Siqueira<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Silver nanoparticles obtained by PVP method: synthesis, characterization and electrochemical properties.** **C.P1.41**  
Felipe Ianesko<sup>1</sup>, Emanuele Schwab<sup>1</sup>, Andressa Galli<sup>1</sup>, Eryza Guimarães de Castro<sup>1</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste
- 17:00 Structured films obtained from tungstic acid/sodium dodecyl sulfate system** **C.P1.42**  
Julia Cristina Oliveira Pazinato<sup>1</sup>, Diego Soares de Moura<sup>1</sup>, Irene Teresinha Santos Garcia<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Magnetic and phonic properties of Ni<sub>0.5-x</sub>Zn<sub>0.5</sub>Co<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> (x= 0.0, 0.1, 0.2, 0.3, 0.4, 0.5) obtained by microwave-hydrothermal method** **C.P1.43**  
Sergio Fernando Nunes Coelho<sup>1</sup>, Pedro Yuri Cunha de Santana<sup>1</sup>, Francisco Sávio Mendes Sinfrônio<sup>1</sup>, Fernando Carvalho Silva<sup>1</sup>, Kátia Regina Marques Moura<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Study of the formation temperature of interlanthanides LaLuO<sub>3</sub> and PrLuO<sub>3</sub>** **C.P1.44**  
Júlia Cristina Soares<sup>1</sup>, Anderson Dias<sup>1</sup>, Kislá Prislén Siqueira<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Tungsten trioxide films obtained through structuration in aqueous medium: photocatalytic activity on the degradation of methyl orange dye** **C.P1.45**  
Diego Soares de Moura<sup>1</sup>, Marcela Fernandes Barbosa Lessa<sup>1</sup>, Julia Cristina Oliveira Pazinato<sup>1</sup>, Irene Teresinha Santos Garcia<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

- 17:00 Synthesis and characterization of coated cerium phosphates with organic compounds** **C.P1.46**  
Tamires de Paiva Carvalho<sup>1</sup>, Juliana Fonseca de Lima<sup>2</sup>, Osvaldo Antonio Serra<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Influence of Cu substitution on the structural, infrared and Raman properties of CoFe<sub>2</sub>O<sub>4</sub> ferrite nanoparticles obtained by microwave-assisted hydrothermal route** **C.P1.47**  
Jéssica Oliveira Rodrigues<sup>1</sup>, Pedro Yuri Cunha de Santana<sup>1</sup>, Mikaelly Daiany Ferreira Borges<sup>1</sup>, Francisco Sávio Mendes Sinfrônio<sup>1</sup>, Fernando Carvalho Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Influence of Pr and Gd Rare Earths in catalyst perovskite to methane combustion reactions application.** **C.P1.48**  
Ana Karenina de Oliveira Paiva<sup>1</sup>, Indianara Alves Fernandes<sup>1</sup>, Filipe Martel Magalhães Borges<sup>1</sup>, Juan Alberto Chavez Ruiz<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Centro de Tecnologias do Gás e Energias Renováveis
- 17:00 Synthesis and characterization of nanosized niobium-doped hydroxyapatite** **C.P1.49**  
Nadia Sulei Vieira Capanema<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Herman Sander Mansur<sup>1</sup>, Emílio Neto<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

## Tuesday, September 29th

### Oral presentations

C

\* Invited Lecture

#### Session C.OR4 (09:45 - 10:45) - Room Plenary

- 09:45 Industrial applications of ultrafast laser surface processing** **C.OR4.12\***  
Alexandre Cunha<sup>1,2</sup>, Jose da Silva Rabelo Neto<sup>2</sup>, José Mário Fernandes de Paiva Júnior<sup>2</sup>, Roberto Hübler<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio Grande do Sul, <sup>2</sup>Instituto SENAI de Inovação em Laser
- 10:15 Morphology Evolution of Delafossite CuAlO<sub>2</sub> Nanostructures for Real Time Monitoring of Ozone Gas Sensing Application** **C.OR4.13**  
Thirumalairajan Subramaniam<sup>1</sup>, Girija K<sup>2</sup>, Valmor R Mastelaro<sup>3</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Física de São Carlos (IFSC), <sup>3</sup>Instituto de Física de São Carlos - USP
- 10:30 Glow Discharge Optical Emission Spectrometry for Ultra Fast Depth Profile Characterization of Thin and Thick COATINGS Optical Emission Spectrometry for Ultra Fast Depth Profile Characterization of Thin and Thick COATINGS** **C.OR4.14**  
Igor Carvalho<sup>1</sup>, Clyde Chmielinski<sup>1</sup>, Simon Richard<sup>1</sup>, Matthieu Chausseau<sup>1</sup>, Patrick Chapon<sup>1</sup>; <sup>1</sup>HORIBA SCIENTIFIC

#### Session C.OR5 (11:15 - 12:30) - Room Plenary

- 11:15 TKD: Signal formation, practical challenges and related applications** **C.OR5.15\***  
Gert Nolze<sup>1</sup>; <sup>1</sup>Bundesanstalt für Materialforschung und -prüfung (BAM)
- 11:45 Dimensional characterization of hydroxyapatite powder by DLS, TEM and XRD techniques** **C.OR5.16**  
Leandro Reis Lidizio<sup>1,2</sup>, Jailton C Damasceno<sup>2</sup>, Lidia Agata Sena<sup>2</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 12:00 The use of ERBS for thin film thickness measurements and the study of O diffusion in TiO<sub>2</sub> films** **C.OR5.17**  
Gabriel Guterres Marmitt<sup>1,2</sup>, Lucio Rosa<sup>1</sup>, Sanjoy Nandi<sup>2</sup>, Maarten Vos<sup>2</sup>, Pedro Luis Grande<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Australian National University
- 12:15 Profiles of the chemical composition varying the depth by the low-angle X-ray diffraction technique and microstructural characterization of the Al-Fe alloy treated by the laser surface remelting** **C.OR5.18**  
Moisés Meza Pariona<sup>1</sup>, Jean Cleber Bertoni<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa

#### Session C.OR6 (14:00 - 15:15) - Room Plenary

- 14:00 New directions towards the characterization of clean functionalized single-walled carbon nanotubes** **C.OR6.19\***  
Paola Ayala<sup>1</sup>; <sup>1</sup>Yachay Tech
- 14:30 Iron oxide nanoparticles as carriers of the photoactive molecule methylene blue: Preparation, structural, morphological and spectroscopic characterizations** **C.OR6.20**  
Karina Amancio Fudimura<sup>1</sup>, Marconi da Cruz Santos<sup>1</sup>, Quézia de Angelo Maranezi Camacho<sup>1</sup>, Sarah Isabel P. M. do N. Alves<sup>1</sup>, Amedea Barozzi Seabra<sup>1</sup>, Paula Silvia Haddad<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 14:45 Controlling the size of hexagonal Pd nanoplates in high yields** **C.OR6.21**  
Fabiane de Jesus Trindade<sup>1</sup>, Liliam Kaori Yamada<sup>1</sup>, Jiale Wang<sup>1</sup>, Clara de Jesus Rangel<sup>1</sup>, Romulo Augusto Ando<sup>1</sup>, Pedro Henrique Cury Camargo<sup>1</sup>; <sup>1</sup>Instituto de Química-Universidade de São Paulo
- 15:00 Laser assisted synthesis of blue-luminescent Si colloidal quantum dots** **C.OR6.22**  
Gabriela Luchtenberg Plautz<sup>1</sup>, Ismael Leandro Graff<sup>1</sup>, Arandi Ginane Bezerra-Jr<sup>2</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Tecnológica Federal do Paraná

## Poster presentations

### Session C.P2 (17:00 - 19:00)

- 17:00 Treatment of Thermoplastic Elastomer with SF<sub>6</sub> plasma** **C.P2.50**  
Renato Carvalho Resende<sup>1</sup>, Elidiane Cipriano Rangel<sup>1</sup>, Nilson Cristino Cruz<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Sorocaba
- 17:00 Study of the boron concentration in Boron doped Diamond Films by XPS** **C.P2.51**  
Rosana Alves Gonçalves<sup>1</sup>, Fernanda Lanzoni Migliorini<sup>1</sup>, Andrea Boldarini Couto<sup>1</sup>, Neidenei Gomes Ferreira<sup>1</sup>, Maurício Ribeiro Baldan<sup>1</sup>; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Influence of the chemical surface structure on the nanoscale friction in plasma nitrided and post-oxidized ferrous alloy** **C.P2.52**  
Nerio Junior Bogoni<sup>1,2</sup>, Caren Machado Menezes, Marcia Freisleben, Fernanda Buratti Costi, Carlos Alejandro Figueroa; <sup>1</sup>Universidade de Caxias do Sul, <sup>2</sup>Universidade de Caxias do Sul, Centro de Ciências Exatas e da Tecnologia, Brazil
- 17:00 Synthesis, Characterization and Visible Light Photocatalytic Activity of ZnO/Polyaniline(PANI) Nanocomposite Systems** **C.P2.53**  
Saravanan Rajendran<sup>1</sup>, Elisban Juani Sacari Sacari<sup>1</sup>, Francisco Gracia<sup>1</sup>, Edgar Mosquera<sup>1</sup>; <sup>1</sup>Universidad de Chile
- 17:00 One-step synthesis of functionalized MFI zeolite using organosilanes with different tail lengths** **C.P2.54**  
Thiago Faheina Chaves<sup>1</sup>, Mariana Veiga Rodrigues<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>, Leandro Martins<sup>1</sup>, Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP
- 17:00 Influence of Nanoparticle Size on Chromium(VI) Sorptive Removal From Wastewater** **C.P2.55**  
Helena Augusta Lisboa de Oliveira<sup>1</sup>, Alex Fabiano Cortez Campos<sup>1</sup>, Renata Aquino<sup>1</sup>, Francisco Augusto Tourinho<sup>1</sup>, Jerome Depeyrot<sup>1</sup>; <sup>1</sup>Universidade de Brasília
- 17:00 MEIS investigation of PtPd nanoparticles structure** **C.P2.56**  
Vagner Zeizer Carvalho Paes<sup>1</sup>, Marcus Vinicius Castegnaró<sup>1</sup>, Pedro Luis Grande<sup>1</sup>, Jonder Morais<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Crystallinity content of isotactic polypropylene by Raman spectroscopy** **C.P2.57**  
 Paulo Alliprandini Filho<sup>1</sup>, Iago Aurino Marinho de Araújo<sup>1</sup>, Durval Bertoldo Menezes<sup>2,3</sup>; <sup>1</sup>Universidade Federal dos Vales do Jequitinhonha e Mucuri, <sup>2</sup>Universität Salzburg, <sup>3</sup>Instituto Federal do Triângulo Mineiro
- 17:00 Preparation of core-sheath nanofibers using coaxial electrospinning** **C.P2.58**  
 Karina Pires Reis<sup>1</sup>, Laura Elena Sperling<sup>1</sup>, Patricia Pranke<sup>1,2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Instituto de Pesquisa com Células-tronco (Stem Cell Research Institute)
- 17:00 Cellulose Nanofibril-Based Composites: Performance Evaluation and Potential Applications for Restoration of Cultural Heritage** **C.P2.59**  
Camilla Henriques Maia de Camargos<sup>1</sup>, João Cura D'Ars de Figueiredo Junior<sup>1</sup>, Washington Magalhães<sup>2</sup>, Fabiano Vargas Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Empresa Brasileira de Pesquisa Agropecuária
- 17:00 Hierarchical Nanowires on and Nanosticks in ZnO microtubes** **C.P2.60**  
Cynthia Marina Rivaldo Gomez<sup>1</sup>, Gabriel Cabrera Pasca<sup>1</sup>, Alejandro Zuniga<sup>1</sup>, Artur Wilson Carbonari<sup>2</sup>, José Antonio Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Instituto de Pesquisas Energéticas e Nucleares
- 17:00 Nanocomposites of SBA-15 and CeO<sub>2</sub>-MnO<sub>x</sub> mixed oxides** **C.P2.61**  
Danilo Gomes Genaro<sup>1</sup>, Alice Antunes Muscas Leandro Ferreira Jardim<sup>1</sup>, Fernanda Ferraz Camilo<sup>1</sup>, Tereza da Silva Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Synthesis and characterization of Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanoparticles: Orange II Sono-photodegradation** **C.P2.62**  
 Marcos May-Lozano<sup>1</sup>, Geovani Chiñas-López<sup>2</sup>, Ricardo López-Medina<sup>1</sup>, Victor X. Mendoza-Escamilla<sup>1</sup>, Cristina Iuga<sup>3</sup>, Sergio Alejandro Martínez-Delgado; <sup>1</sup>Universidad Autónoma Metropolitana Azcapotzalco, <sup>2</sup>Universidad Autónoma Metropolitana, <sup>3</sup>Universidad Autónoma Metropolitana Xochimilco
- 17:00 Ca<sub>12</sub>Al<sub>14</sub>O<sub>33</sub> conductive prepared with controlled atmosphere created by pyrolysis of rice husk** **C.P2.63**  
 Faili Cintia Tomsen Veiga<sup>1</sup>, Suelen Rodrigues Almeida, Fábio Rodrigues Pereira, Gustavo Fabro de Azevedo<sup>1</sup>, Flavio José Tomsen Veiga, José Ramon Jurado Egea, Sergio da Silva Cava, Vânia Caldas de Sousa<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

- 17:00 Rheological characterization and electrospinning of chitosan and poly(vinyl alcohol) acid solutions** C.P2.64  
Rodrigo Ferreira Gouvêa, Leticia Ramos Silva, Edwin Gonzalo Azero, Raquel Pires Gonçalves, Paulo Henrique de Souza Picciani, Cristina Tristão Andrade<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro
- 17:00 Study of the thermal conductivity of the nanostructured zinc oxide** C.P2.65  
Etlen Neves Benezar<sup>1</sup>, Daniela Menegon Trichês<sup>1</sup>, Fernanda Diamantino Azuma<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas
- 17:00 Preparation and characterization of PANI/V<sub>2</sub>O<sub>5</sub> nanocomposite using the laser ablation technique in liquid environment.** C.P2.66  
Leonardo Tadeu Boaes Mendonça<sup>1</sup>, Arandí Ginane Bezerra Junior<sup>2</sup>, walter mendes de azevedo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Influence of concentration of H<sub>2</sub>O<sub>2</sub> on the photocatalytic activity of TiO<sub>2</sub>** C.P2.67  
Maykon André Montanhera<sup>1</sup>, Éder Alves Pereira<sup>2</sup>, Fernando Rogério de Paula<sup>3</sup>, Edna Regina Spada<sup>4</sup>, Roberto Mendonça Faria<sup>4</sup>, Gabriela Byzinski Soares<sup>5</sup>, Rodrigo Guerreiro<sup>5</sup>, Cauê Ribeiro Oliveira<sup>5</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>3</sup>Universidade Estadual Paulista, Campus de Ilha Solteira, <sup>4</sup>Instituto de Física de São Carlos - USP, <sup>5</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 17:00 Preparation of polypyrrole nanocomposites decorated with silver nanoparticles in an ionic liquid** C.P2.68  
Larissa Verena Figueiredo Oliveira<sup>1</sup>, Fernanda Ferraz Camilo<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, Diadema, SP, Brazil
- 17:00 Characterization of resistive memories via MEIS** C.P2.69  
Milena Cervo Sulzbach<sup>1</sup>, Gabriel Guterres Marmitt<sup>1</sup>, Henri Ivanov Boudinov<sup>1</sup>, Pedro Luis Grande<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 CeO<sub>2</sub> films for gas sensors applications** C.P2.70  
Miguel Angel Ramírez Gil<sup>1</sup>, Camila Paixão Santos<sup>1</sup>, Johan Alexander Cortes Suarez<sup>1</sup>, Miguel Adolfo PONCE<sup>2</sup>, Alexandre Z. Simões<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulita "Júlio de Mesquita Filho"- Campus de Guaratinguetá, <sup>2</sup>Universidad Nacional de Mar del Plata
- 17:00 Synthesis and antimicrobial evaluation of nanostructures ZrO<sub>2</sub>:Ag** C.P2.71  
Cássia Vanessa Nova<sup>1</sup>, Karoline Hagatha Reis<sup>2</sup>, Diogo Alves Gálico<sup>3</sup>, James Venturini<sup>2</sup>, Fenelon Martinho Pontes<sup>1</sup>, Elson Longo<sup>4</sup>; <sup>1</sup>Faculdade de Ciências, UNESP-Bauru, <sup>2</sup>UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO", <sup>3</sup>Universidade Estadual de Campinas, <sup>4</sup>Universidade Federal de São Carlos
- 17:00 One-step colloidal synthesis of Bi<sub>2</sub>S<sub>3</sub> quantum dots using chitosan biopolymer as capping ligand** C.P2.72  
Fábio Pereira Ramanery<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Characterization of Oil-in-Water Nanoemulsions by Atomic Force Microscopy** C.P2.73  
Jeniffer Figueira<sup>1</sup>, Vania Emerich Bucco de Campos<sup>1</sup>, Cristal Cerqueira-Coutinho<sup>1</sup>, Claudia Regina Elias Mansur<sup>1</sup>, Bluma Guenther Soares<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano
- 17:00 Synthesis and characterization of zinc oxide** C.P2.74  
Fernanda Diamantino Azuma<sup>1</sup>, Daniela Menegon Trichês<sup>1</sup>, Sérgio Michielon de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas
- 17:00 A Comparison Study on Nanomembranes for Oil Spill Clean-up Devices – The Tea-bag Like Configuration Case** C.P2.75  
Aline Marques de Oliveira<sup>1</sup>, Viviane Cristina Munhoz<sup>1</sup>, Elvis Carneiro Monteiro<sup>1</sup>, Nathália C Menezes<sup>1</sup>, Suchilla Garcia Leão<sup>2</sup>, Camila Fernanda da Silva<sup>1</sup>, Antônio Ferreira Ávila<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Centro Universitário Newton Paiva
- 17:00 Modulation of confinement topology on InAs/GaAsSb quantum dots induced by electric field** C.P2.76  
Edson Rafael Cardozo de Oliveira, Marcio Daldin Teodoro<sup>1</sup>, Victor Lopez Richard<sup>1</sup>, Gilmar Eugenio Marques<sup>1</sup>, José Llorens<sup>2</sup>, Lukasz Wewior<sup>2</sup>, Benito Alén<sup>2</sup>, José Ulloa Herrero<sup>3,4</sup>, Antonio Utrilla<sup>3,4</sup>, Álvaro de Guzmán<sup>3,4</sup>, Adrián Hierro Cano<sup>3,4</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Instituto de Microelectrónica de Madrid, <sup>3</sup>Universidad Politécnica de Madrid, <sup>4</sup>Institute for Systems based on Optoelectronics and Microtechnology
- 17:00 Luminescent N-doped and N, S co-doped carbon dots sensitized-TiO<sub>2</sub> for photocatalytic applications** C.P2.77  
Mariana Matos<sup>1</sup>, Cláudia Emanuele Machado<sup>1</sup>, Brenner Rodrigo Carvalho Vale<sup>1</sup>, Daniela Pereira Santos<sup>1</sup>, Jefferson Luis Ferrari<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 17:00 Obtaining Complex Perovskite Lead-Based Using Chemical Route** C.P2.78  
ANA CLÁUDIA BATISTA ALMEIDA<sup>1</sup>, Luís Presley Serejo dos Santos<sup>2</sup>, Elizângela Batista Almeida<sup>3</sup>, Leandro Almeida<sup>3</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>3</sup>Universidade Estadual do Maranhão



- 17:00 Tailoring resistive switching properties with controlled incorporation of oxide nanoparticles** **C.P2.79**  
Alejandro Cristians Rios Cuadros<sup>1</sup>, Lorena Aarão Rodrigues<sup>1</sup>, Luciano Andrey Montoro<sup>1</sup>, Angelo Malachias<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Near-zero thermal expansion in  $\text{In}_x(\text{ZrMg})_{1-0.5x}\text{Mo}_3\text{O}_{12}$  compounds** **C.P2.80**  
Luciana Prates Prisco<sup>1</sup>, Patricia Isabel Pontón<sup>1</sup>, Roberto R de Avillez<sup>1</sup>, Carl P Romao<sup>2</sup>, Mary Anne White<sup>2</sup>, Bojan A. Marinkovic<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro, <sup>2</sup>Dalhousie University
- 17:00 Hydrofilization and stability of magnetic nanoparticles of  $\text{Fe}_3\text{O}_4$  in aqueous system** **C.P2.81**  
Mônica Freitas da Silva<sup>1</sup>, Rafael Admar Bini<sup>1</sup>, Laudemir Carlos Varanda<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP
- 17:00 Characterization of silica nanofluids by optical fiber sensor** **C.P2.82**  
 Eric Fujiwara<sup>1</sup>, Gustavo Adolfo Perdomo Gómez<sup>1</sup>, Egont Alexandre Schenkel<sup>1</sup>, Murilo Ferreira Marques dos Santos<sup>1</sup>, Marco César Soares, Carlos K. Suzuki<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Sintering behavior of quartz nanocrystals** **C.P2.83**  
Marco César Soares<sup>1</sup>, Murilo Ferreira Marques dos Santos<sup>1</sup>, Egont Alexandre Schenkel<sup>1</sup>, Eric Fujiwara<sup>1</sup>, Carlos K. Suzuki<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 AFM Study of Self-Organization of  $\beta$ -carotene** **C.P2.84**  
Bárbara Elza Nogueira Faria<sup>1</sup>, Bernardo Ruegger Almeida Neves<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Synthesis and characterization of hydrophobic and magnetic particles coated with functionalized glycerol** **C.P2.85**  
Gabriel Victor Simões Dutra<sup>1</sup>, Weslany Silvério Neto<sup>2</sup>, Olacir Alves Araújo<sup>1</sup>, José Divino dos Santos<sup>1</sup>; <sup>1</sup>Universidade Estadual de Goiás, <sup>2</sup>Universidade de Brasília
- 17:00 Temperature influence on the  $\text{Ni}(\text{OH})_2$  film by electrodeposition method** **C.P2.86**  
Lianet Aguilera Domínguez<sup>1</sup>, Raimundo Ribeiro Passos<sup>1</sup>, Leandro Aparecido Pocrifka<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas
- 17:00 Hydrothermal synthesis of  $\text{CePO}_4@/\text{SiO}_2$  for UV light absorption.** **C.P2.87**  
 Ayla Roberta Galaço<sup>1</sup>, Juliana Fonseca de Lima<sup>2</sup>, Osvaldo Antonio Serra<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Magnetic composite for oil stain removal in aqueous media** **C.P2.88**  
Gabriel Burlandy Melo<sup>1</sup>, André Ben-Hur Silva Figueredo<sup>1</sup>, Ronaldo Sérgio de Biasi<sup>1</sup>; <sup>1</sup>Instituto Militar de Engenharia
- 17:00 The Use of Graphene-CNTs Hybrids to Increase Bonded Joints Performance: Experimental and Numerical Analysis** **C.P2.89**  
Elvis Carneiro Monteiro<sup>1</sup>, Antonio Ferreira Ávila<sup>1</sup>, Aline Marques de Oliveira<sup>1</sup>, Viviane Cristina Munhoz<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Synthesis and Characterization of Nanocomposites:  $\text{TiO}_2\text{-CeO}_2/\text{SiO}_2$**  **C.P2.90**  
 Alice Antunes Muscas Leandro Ferreira Jardim<sup>1</sup>, Camila Okinokabu Vieira<sup>1</sup>, Marcia Carvalho de Abreu Fantini<sup>2</sup>, Rebeca Bacani<sup>2</sup>, Tereza da Silva Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Instituto de Física da Universidade de São Paulo
- 17:00 Removal of endocrine disrupters from an aqueous medium using a magnetic composite** **C.P2.91**  
Thais Sousa Almeida<sup>1</sup>, André Ben-Hur Silva Figueredo<sup>1</sup>; <sup>1</sup>Instituto Militar de Engenharia
- 17:00 Tuning the Surface Chemical Properties of MCM-41 for Embedding Silver Nanoparticles into the Pores** **C.P2.92**  
Marcos Augusto Bizeto<sup>1</sup>, Fernanda Ferraz Camilo<sup>1</sup>, Roselaine Silva Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Effect of montmorillonite crystallinity and molecular dynamics of the system PVAL / cephalixin** **C.P2.93**  
Antonio Pádua Castello Branco Cunha<sup>1</sup>, Emerson Oliveira da Silva<sup>1</sup>, Maria Inês Bruno Tavares<sup>1</sup>, Pedro Jose sebastião<sup>2</sup>; <sup>1</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UF RJ, <sup>2</sup>Universidade de Lisboa
- 17:00 Characterization of Nanostructured MgO using Small Angle X-Ray Scattering** **C.P2.94**  
Sonia Letichevsky<sup>1</sup>, Roberto R de Avillez<sup>1</sup>, Alan Dias<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro
- 17:00 Melaleuca oil nanoemulsions incorporated into the polymer matrix of sodium alginate** **C.P2.95**  
Viviane Guimarães Andrade Pires<sup>1</sup>, Marcia Regina de Moura<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP
- 17:00 Microwave synthesized  $\text{TiO}_2$  films for photocatalytic applications** **C.P2.96**  
Daniela Nunes<sup>1</sup>, Ana Pimentel<sup>1</sup>, Joana V Pinto<sup>1</sup>, Tomas Calmeiro<sup>1</sup>, Suman Nandy<sup>1</sup>, Pedro Barquinha<sup>1</sup>, Patricia A Carvalho<sup>2</sup>, Elvira Maria Correia Fortunato<sup>1</sup>, Rodrigo Ferrão de Paiva Martins<sup>1</sup>; <sup>1</sup>Departamento de Ciência dos Materiais, CENIMAT/I3N, Faculdade de Ciências e Tecnologia, FCT, Universidade Nova de Lisboa and CEMOP-UNINOVA, <sup>2</sup>SINTEF Materials and Chemistry

**17:00 An Investigation on Functionalized Carbon Nanotubes Effects into Poly(vinylidene fluoride) Nanomembranes C.P2.97**

**Morphology**

Viviane Cristina Munhoz<sup>1</sup>, Aline Marques de Oliveira<sup>1</sup>, Elvis Carneiro Monteiro<sup>1</sup>, Nathália C Menezes<sup>1</sup>, Suchilla Garcia Leão<sup>2</sup>, Camila Fernanda da Silva<sup>1</sup>, Antônio Ferreira Ávila<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Centro Universitário Newton Paiva

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## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session C.OR7 (09:45 - 10:45) - Room Plenary

**09:45 Synthesis of nanosized  $\text{Al}_2\text{CoO}_4$  crystals through pyrolysis of nitrate solutions followed by thermal treatment under controlled atmosphere.** C.OR7.23

Rogério Navarro Correia Siqueira<sup>1</sup>, Mariana Veronese<sup>1</sup>, José Brant Campos<sup>2</sup>, Roberto R de Avillez<sup>1</sup>, Eduardo Albuquerque Brocchi<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>2</sup>Universidade do Estado do Rio de Janeiro

**10:00 Assessment of electrical and chemical domains promoted by  $\text{TiO}_2$  and Carbon Nanotubes incorporated in a DLC multilayer using kelvin probe force microscopy (KPFM)** C.OR7.24

Jhonatan Steffens Brandão<sup>1</sup>, Carlos Alberto Costa<sup>2</sup>, Lucia Vieira Santos<sup>3,1</sup>, Evandro Martin Lanzoni<sup>2</sup>, Polyana Alves Radi Gonçalves<sup>3,1</sup>, Rodrigo Sávio Pessoa<sup>3,1</sup>, Homero S Maciel<sup>3,1</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Laboratório Nacional de Nanotecnologia, <sup>3</sup>Instituto Tecnológico de Aeronáutica

**10:15 Sensors based on porous Ag-doped hematite ( $\alpha\text{-Fe}_2\text{O}_3$ ) for sulfur dioxide detection at room temperature** C.OR7.25

Daniel Santos Garcia Osorio, Gino Italo Picasso<sup>1</sup>, Pilar Hidalgo Falla<sup>2</sup>; <sup>1</sup>Universidad Nacional de Ingeniería, <sup>2</sup>Universidade de Brasília

**10:30 Synthesis, characterization and photocatalytic application of ZnS nanocrystals.** C.OR7.26

Monique Gomes Teixeira<sup>1</sup>, Daniela Pereira Santos<sup>2</sup>, Jefferson Luis Ferrari<sup>2</sup>, Marco Antonio Schiavon<sup>2</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>Universidade Federal de São João del-Rei

#### Session C.OR8 (11:15 - 12:30) - Room Plenary

**11:15 Zinc doping of monoclinic  $\text{ZrO}_2$  oxides to improve their redox properties as catalysts** C.OR8.27

Leydi del Rocío Silva Calpa<sup>1</sup>, Priscila da Costa Zonetti<sup>2</sup>, Clarissa Perdomo Rodrigues<sup>2</sup>, Lucia Gorenstin Appel<sup>2</sup>, Odivaldo Cambraia Alves<sup>3</sup>, Roberto R de Avillez<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Tecnologia, <sup>3</sup>Universidade Federal Fluminense

**11:30 MOCVD/CVD growth of zinc and zinc oxide nanowires** C.OR8.28

Nathalia Talita Candido de Oliveira<sup>1</sup>, Alexandre Paon<sup>2</sup>, Julien Sabinaud<sup>2</sup>, Romain Meulle<sup>2</sup>, Enrique Ribeiro<sup>2</sup>, Dyego Maia Oliveira<sup>3</sup>, Anderson S. L. Gomes<sup>1</sup>, Eduardo Henrique Lago Falcão<sup>1</sup>, Marco Sacilotti<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Université de Bourgogne, <sup>3</sup>Centro de Tecnologias Estratégicas do Nordeste,

**11:45 Combined Raman spectroscopy and optical reflectivity in the study of highly doped graphene** C.OR8.29

JULIO CESAR CHACON TORRES<sup>1</sup>, BENJAMIN HATTING<sup>1</sup>, SEBASTIAN HEEG<sup>2</sup>, CHRISTIAN BERGER<sup>2</sup>, ARAVIND VIJAYARAGHAVAN<sup>2</sup>, STEPHANIE REICH<sup>1</sup>; <sup>1</sup>Freie Universität Berlin, <sup>2</sup>University of Manchester

**12:00 Optical and electrical properties of annealed graphene in nitrogen** C.OR8.30

Marina Sparvoli<sup>1</sup>, José Flávio Monteiro<sup>1</sup>, Rodrigo Hiroaki Ideyama<sup>1</sup>, Igor Yamamoto Abe<sup>2</sup>, Teresa Monteiro<sup>3</sup>, Jorge Manuel Soares<sup>3</sup>, Mauro Pinheiro Silva<sup>4</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Universidade de Aveiro, <sup>4</sup>Escola Politécnica da USP

**12:15 Morphology and thermal properties of surface modified cellulose aerogels** C.OR8.31

Alessandra de Souza Fonseca<sup>1</sup>, Suhara Panthapulakkal<sup>2</sup>, Mohini Sain<sup>2</sup>, Joabel Raabe<sup>3</sup>, Mario Guimarães Junior<sup>4</sup>, Tattiane Gomes Costa<sup>1</sup>, Gustavo H. D. Tonoli<sup>1</sup>; <sup>1</sup>Universidade Federal de Lavras, <sup>2</sup>University of Toronto, <sup>3</sup>Universidade de Brasília, <sup>4</sup>Centro Federal de Educação Tecnológica de Minas Gerais - Campus Araxá

#### Session C.OR9 (14:00 - 15:15) - Room Plenary

**14:00  $\beta\text{-Ga}_2\text{O}_3$  nanowires growth on silicon substrates with the MOCVD technique** C.OR9.32

Nathalia Talita Candido de Oliveira<sup>1</sup>, Ronaldo Pereira de Melo Júnior<sup>1</sup>, Fernando Iikawa<sup>2</sup>, Kelly Christian Tolentino Dominguez<sup>1</sup>, Anderson S. L. Gomes<sup>1</sup>, Eduardo Henrique Lago Falcão<sup>1</sup>, Marco Sacilotti<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Estadual de Campinas

- 14:15 Nanofibers from soybean straw: a comparison between enzymatic and acid hydrolysis extraction processes** C.OR9.33  
Milena Martelli Tosi<sup>1</sup>, Marcela da Silva Torricillas<sup>1</sup>, Maraiane Masson<sup>1</sup>, Maria Alice Martins<sup>2</sup>, Odilio B. G. Assis<sup>2</sup>, Delia Blácido<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - Universidade de São Paulo, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 14:30 Gold nanoparticles obtained by ultrasonic irradiation and their potential for enzyme immobilization** C.OR9.34  
Heloise Ribeiro de Barros<sup>1</sup>, Mary C. Santos<sup>1</sup>, Leandro Piovan<sup>1</sup>, Izabel Cristina Riegel-Vidotti<sup>1</sup>; <sup>1</sup>Federal University of Paraná
- 14:45 Synthesis of Gold Nanorods and their Potential Application on Mitochondrial Bioenergetics** C.OR9.35  
Ábner Magalhães Nunes<sup>1</sup>, Monique Gabriella Angelo da Silva<sup>1</sup>, Anibal Eugênio Vercesi<sup>2</sup>, Ana Catarina Rezende Leite<sup>1</sup>, Mario Roberto Meneghetti<sup>1</sup>; <sup>1</sup>Universidade Federal de Alagoas, <sup>2</sup>Universidade Estadual de Campinas
- 15:00 Nanomechanical properties of Zirconia- Yttria and Alumina Zirconia- Yttria Biomedical ceramics, Subjected to Different Compositions.** C.OR9.36  
Abel Hurtado-Macias<sup>1</sup>, Alfredo Nevarez-Rascon<sup>1</sup>, Maria Carmen Aragon-Duarte<sup>1</sup>, Hilda Esparza-Ponce<sup>1</sup>, Martina Margarita Nevarez-Razcon<sup>2</sup>, Roberto Pablo Talamntes-Soto<sup>1</sup>, Jesús González-Hernández<sup>3</sup>; <sup>1</sup>Centro de Investigación en Materiales Avanzados, <sup>2</sup>Universidad Autónoma de Chihuahua, <sup>3</sup>Centro de Ingeniería y Desarrollo Industrial

## Poster presentations

### Session C.P3 (17:00 - 19:00)

- 17:00 Effect of heat treatment on structure of TiO<sub>2</sub> nanotubes grown by electrodeposition technique.** C.P3.98  
Rachel Carvalho Goncalves<sup>1</sup>, Jhonatan Steffens Brandão<sup>1</sup>, Rodrigo Sávio Pessoa<sup>1</sup>, Homero S Maciel<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Styrene polymerization via atp analysis in presence of zinc oxide nanoparticles** C.P3.99  
Gabriel Platenik<sup>1</sup>, Sandra Regina Albinante, Maria Inês Bruno Tavares; <sup>1</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ
- 17:00 Synthesis of Cu-Ni / Al<sub>2</sub>O<sub>3</sub> Nanoparticles and Consolidated in Nanocomposites** C.P3.100  
Maria Isabel Ramos<sup>1</sup>, Natasha Midori Suguihiro<sup>2</sup>, Ivan Guillermo Solórzano-Naranjo<sup>3</sup>, Eduardo Albuquerque Brocchi<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 17:00 Study of Physico-Chemistry Properties of PMMA-Ag Nanocomposites** C.P3.101  
Francisco Nunes de Souza Neto<sup>1</sup>, Patrícia Francatto<sup>1</sup>, Edson Roberto Leite, Elson Longo, Emerson Rodrigues Camargo; <sup>1</sup>Universidade Federal de São Carlos
- 17:00 Microwave-Hydrothermal Synthesis and Photocatalysis Performance of TiO<sub>2</sub> and ZnS** C.P3.102  
Vinicius Gonçalves Deon<sup>1</sup>, Luiza Ribeiro Santana<sup>1</sup>, Ricardo Marques e Silva<sup>1</sup>, Guilherme Kurz Maron<sup>1</sup>, Bruno Silveira Noremberg<sup>1</sup>, Igor José Cherubin<sup>1</sup>, Cristiane Wienke Raubach<sup>1</sup>, Oscar Giordani Paniz<sup>1</sup>, Neftalí Lenin Villarreal Carreño<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 17:00 Rheological characterization of sol-gel transition and gel behavior of Nb<sub>2</sub>O<sub>5</sub> gels** C.P3.103  
 Laura Granados<sup>1</sup>, Luciana Valgas de Souza<sup>2</sup>, Gilberto Falk<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>, Dachamir Hotza<sup>1</sup>, Jairo Arturo Escobar<sup>3</sup>, João Batista Rodrigues Neto<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA, <sup>2</sup>Universidade Federal de Santa Catarina, <sup>3</sup>Universidad de los Andes Colombia
- 17:00 Synthesis and characterization of hydroxyapatite nanospheres by the control of nucleation and crystal growth induced by Sr<sup>2+</sup> ion doped.** C.P3.104  
Jose da Silva Rabelo Neto<sup>1</sup>, Thaianne Balestreri Knopf<sup>1</sup>, Mario Ernesto Giroldo Valerio<sup>2</sup>, Hakan Engqvist<sup>3</sup>, Wei Xia<sup>3</sup>, Marcio Celso Fredel<sup>4</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA, <sup>2</sup>Universidade Federal de Sergipe, <sup>3</sup>Uppsala University / Uppsala Universitet, <sup>4</sup>Universidade Federal de Santa Catarina
- 17:00 Electrochemical synthesis of silver nanoparticle stabilized by Poly(N-vinyl-2-pyrrolidone)** C.P3.105  
Anderson Gama Fernandes de Freitas<sup>1</sup>, Anderson G. Fernandes de Freitas<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Control of the aggregation of cobalt ferrite nanoparticles prepared by coprecipitation** C.P3.106  
Liliam Viana Leonel<sup>1</sup>, João Batista Santos Barbosa<sup>2</sup>, Estér Figueiredo Oliveira<sup>2</sup>, Douglas Miquita<sup>3</sup>; <sup>1</sup>Comissão Nacional de Energia Nuclear, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>3</sup>Universidade Federal de Minas Gerais
- 17:00 Water-swelling mechanism of synthetic Smectite-type clay: In situ X-ray diffraction study** C.P3.107  
 Luciano Honorato Chagas<sup>1</sup>, Oleksii Kuznetsov<sup>1</sup>, Carlos Alberto Franchini<sup>1</sup>, Adriana Maria da Silva<sup>1</sup>, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia

- 17:00 Effect of clay concentration on the swelling behavior of alginate nanocomposite hydrogels** **C.P3.108**  
Renan da Silva Fernandes<sup>1</sup>, Marcia Regina de Moura<sup>1</sup>, Fauze Ahmad Aouada<sup>1</sup>, <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP
- 17:00 Synthesis of particles of ZnO:N by different doping methods and using urea as nitrogen precursor reagent** **C.P3.109**  
Jéssica Ariane Oliveira<sup>1</sup>, Osmando Ferreira Lopes<sup>2</sup>, Elaine Cristina Paris<sup>3</sup>, Cauê Ribeiro Oliveira<sup>3</sup>, Gael Yves Poirier<sup>1</sup>, Tania Regina Giraldi<sup>1</sup>; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 17:00 Physical-chemistry characterization of molecularly imprinted polymers (MIP) for dye Basic Red 9** **C.P3.110**  
Marcos Vinicius Foguel<sup>1</sup>, Carolina Rabal Bissetto<sup>1</sup>, Angela Regina Araujo<sup>1</sup>, Maria Valnice Boldrin Zanoni<sup>1</sup>, Maria Del Pilar Taboada Sotomayor<sup>1</sup>; <sup>1</sup>Instituto de Química-Unesp/Araraquara
- 17:00 Synthesis and characterization of magnetic molecularly imprinted polymer for penicillin G** **C.P3.111**  
 Rafael Rovatti Pupin<sup>1</sup>, Marcos Vinicius Foguel<sup>1</sup>, Maria Del Pilar Taboada Sotomayor<sup>1</sup>; <sup>1</sup>Instituto de Química-Unesp/Araraquara
- 17:00 Obtaining Starch-Based Biodegradable Fibers Aiming the Thickness and Porosity Control** **C.P3.112**  
João Otávio Donizette Malafatti<sup>1</sup>, Vanessa Priscila Scagion<sup>1</sup>, Elaine Cristina Paris<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 17:00 Nanostructured materials based on palladium nanoparticles via continuous supercritical approach** **C.P3.113**  
Oana Pascu<sup>1</sup>, Samuel Marre<sup>2</sup>, Cyril Aymonier<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Institut de Chimie de la Matière Condensée de Bordeaux
- 17:00 Characterization of zein particles and fibers obtained by electrospinning aiming at applications in slow-release fertilizers.** **C.P3.114**  
Vanessa Priscila Scagion<sup>1,2</sup>, karine yamamura sakamoto<sup>1,2</sup>, Juliano Elvis Oliveira<sup>3</sup>, Elaine Cristina Paris<sup>2</sup>, Daniel Souza Corrêa<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>3</sup>Universidade Federal de Lavras
- 17:00 Coating Based on Nanocomposite Graphene Oxide and Polymer to Industrial Applications** **C.P3.115**  
Suzana Bottega Peripolli<sup>1,2,3</sup>, Stefania Nardecchia<sup>4</sup>, Cecília Vilani, Lincoln Silva Gomes<sup>2</sup>, Eric Cardona Romani, Leandro Guimarães De Oliveira<sup>2</sup>, Marcelo Eduardo Huguenin Maia da Costa<sup>4</sup>, José Brant Campos<sup>5</sup>, Dunieskys Roberto González Larrude<sup>6</sup>, Fernando Lázaro Freire Júnior; <sup>1</sup>Universidade Estácio de Sá, <sup>2</sup>Centro de Tecnologia SENAI Solda, <sup>3</sup>Universidade do Estado do Rio de Janeiro (UERJ), Brasil, <sup>4</sup>Departamento de Física (PUC-Rio), <sup>5</sup>Universidade do Estado do Rio de Janeiro, <sup>6</sup>Graphene and Nano-materials Research Center ? Mackgraphpe, Mackenzie Presbyterian University
- 17:00 Growth and characterization of thin films conductive oxide and ferroelectric with multilayer structure** **C.P3.116**  
Regina Aparecida Capeli<sup>1</sup>, Felon Martinho Pontes<sup>1</sup>, Debora Silva Pontes<sup>2</sup>, Adenilson José Chiquito<sup>2</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Instituto de Química de Araraquara
- 17:00 Fast synthesis of ZnO by hydrothermal method assisted by microwave** **C.P3.117**  
Ivonaldo Batista Silva<sup>1</sup>, JACKSON ANDSON MEDEIROS<sup>1</sup>, Erivane Silva<sup>1</sup>, Guilherme Leocárdio Lucena<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Max Rocha Quirino<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Thermodynamic Properties of Ionic Liquid Aggregation by NMR** **C.P3.118**  
Caroline Raquel Bender<sup>1</sup>, Paulo Roberto dos Santos Salbego<sup>1</sup>, Carla Andressa de Almeida Farias<sup>1</sup>, Thaissa Silva Beck<sup>1</sup>, Clarissa Piccinin Frizzo<sup>1</sup>, Marcos Antonio Villetti<sup>1</sup>, Marcos Antônio Pinto Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Maria
- 17:00 Comparison of different cocrystal screening methods** **C.P3.119**  
Paulo Roberto dos Santos Salbego<sup>1</sup>, Caroline Raquel Bender<sup>1</sup>, Bruno Luís Hennemann<sup>1</sup>, Andrei Lucca Belladonna<sup>1</sup>, Clarissa Piccinin Frizzo<sup>1</sup>, Marcos Antônio Pinto Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Maria
- 17:00 Zn<sub>2</sub>TiO<sub>4</sub> microspheres photocatalysts obtained in one minute by ultrasonic spray pyrolysis** **C.P3.120**  
Laurenia Martins Pereira<sup>1</sup>, Girlene Gonçalves do Nascimento<sup>1</sup>, Mara Tatiane de Souza Tavares, Fabiana Villela da Motta<sup>1</sup>, Mauricio Roberto Bomio Delmonte<sup>1</sup>, Rubens Maribondo do Nascimento<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 New insights into the microwave-assisted hydrothermal synthesis of  $\gamma$ -WO<sub>3</sub> hierarchical nanostructures mediated by hydrate precursor control** **C.P3.121**  
Tarcísio Micheli Perfecto<sup>1</sup>, Diogo Paschoalini Volanti<sup>1</sup>; <sup>1</sup>IBILCE Universidade Estadual Paulista

- 17:00 Morphological analysis of nanocomposite hydrogels containing silicates nanostructured** C.P3.122  
Helena Aparecida Guimarães Brito de Araujo<sup>1</sup>, Fauze Ahmad Aouada<sup>2</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/UNESP, <sup>2</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP - Departamento de Física e Química
- 17:00 Thermal aging of model Pd based catalysts: X-ray diffraction and high resolution transmission electron microscopy studies** C.P3.123  
Oleksii Kuznetsov<sup>1</sup>, Adriana Maria da Silva<sup>1</sup>, Carlos Alberto Franchini<sup>1</sup>, Andrea Porto Carreiro Campos<sup>1</sup>, Bráulio Soares Archanjo<sup>1</sup>, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 17:00 Electrospinning of Polyacrylonitrile using a high speed drum collector** C.P3.124  
 Camila Tiemi Ozaki da Silva<sup>1</sup>, Mauro Santos de Oliveira Junior<sup>1</sup>, Mirabel Cerqueira Rezende<sup>1</sup>, Lilia Müller Guerrini<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Synthesis and characterization of core-shell ZrO<sub>2</sub>@TiO<sub>2</sub>** C.P3.125  
Paula Daiany Gonçalves Silva<sup>1</sup>, Alberthmeiry Teixeira de Figueiredo<sup>2</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Universidade Federal de Goiás, <sup>2</sup>Universidade Federal de Goiás - Regional Catalão, <sup>3</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Characterization of polymeric foams used in composite medical applications** C.P3.126  
 Rafaela Chinelatto Flipsen<sup>1</sup>, Mauro Santos de Oliveira Junior<sup>1</sup>, Mirabel Cerqueira Rezende<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Fast method for adsorbing magnetic nanoparticle with APTES polymer by microwave heating** C.P3.127  
wesley santos galvao<sup>1</sup>, Victor Moreira da Costa<sup>1</sup>, Pierre Basílio Almeida Fechine<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Molybdenum trioxide (MoO<sub>3</sub>): synthesis, characterization and photocatalysis with dye anionic blue remazol** C.P3.128  
 Amanda Furtado Luna<sup>1</sup>, Francisco Xavier Nobre<sup>1</sup>, Claudia Ferreira Silva<sup>1</sup>, Luiz de Sousa Santos Júnior<sup>1</sup>, José Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí
- 17:00 Microwave-Hydrothermal Synthesis of Chemically-Substituted Transition Metal Molybdates** C.P3.129  
Guilherme Mendes Martins<sup>1</sup>, Pâmela de Oliveira Coelho<sup>1</sup>, Cintia Grossi de Abreu<sup>1</sup>, Kísla Príslen Félix Siqueira<sup>1</sup>, Anderson Dias<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Influence of synthesis conditions in the formation of the Al-doped ZnO by the microwave-assisted hydrothermal method.** C.P3.130  
Amanda Michelle de Brito Uchoa<sup>1</sup>, Ana Flávia Felix Farias<sup>1</sup>, Jakeline Daniela Soares da Silva Nascimento<sup>2</sup>, ADRIANA ALMEIDA CUTRIM<sup>3</sup>, Antônio Gouveia de Souza<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Bentonisa do Nordeste S.A, <sup>3</sup>Universidade Federal de Campina Grande
- 17:00 Synthesis of ordered mesoporous silica containing ferrites for magnetically induced hyperthermia** C.P3.131  
Renato Sílvia Siqueira<sup>1</sup>, Adriana Silva de Albuquerque<sup>1</sup>, Edésia Martins Barros de Sousa<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Coating of fixed oil (Babassu) with medicinal potential within TiO<sub>2</sub> nanotubes** C.P3.132  
Sarah Romini de Lima Basto<sup>1</sup>, Isabel Souza Arruda<sup>2</sup>, Thiago André Salgueiro Soares<sup>2</sup>, Alessandra Batista de Mattos<sup>2</sup>, Maria Tereza dos Santos Correia<sup>1</sup>, Giovanna Machado<sup>2</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste,
- 17:00 Characterization of photocatalytic activity in commercial porcelain tiles.** C.P3.133  
Ana Teresita Piotto<sup>1</sup>, Regina de Fátima Peralta Muniz Moreira<sup>1</sup>, Michele Dondi<sup>2</sup>, Dachami Hotza<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Institute of Science and Technology for Ceramics
- 17:00 Characterization of self-assembled thin films of zirconium phosphonate containing aromatic imides by atomic force microscopy and X-ray reflectivity** C.P3.134  
Bruna Tosco<sup>1</sup>, José Fernando Queiruga Rey<sup>1</sup>, Barbara Perez Gonçalves Silva<sup>1</sup>, Sergio Brochsztain<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Graphene oxide/gold nanorod nanocomposites for stable surface enhanced Raman spectroscopy** C.P3.135  
Pilar Gregory Vianna<sup>1</sup>, Greice K. B. Costa<sup>2,3</sup>, Sérgio H. Domingues<sup>1</sup>, Isabel C. S. Carvalho<sup>2</sup>, Jake Fontana<sup>4</sup>, Christiano J.S. de Matos<sup>1</sup>; <sup>1</sup>MackGraphe, Mackenzie Presbyterian University, Brazil, <sup>2</sup>Department of Physics, Pontifícia Universidade Católica do Rio de Janeiro, Brazil, <sup>3</sup>Photonic and Instrumentation Laboratory, Electrical Engineering Program, UFRJ, Brazil, <sup>4</sup>Naval Research Laboratory, United States of America
- 17:00 Extraction of corn straw pulp and banana leaf whiskers** C.P3.136  
Cécile Chaves Hernandez<sup>1</sup>, Derval dos Santos Rosa<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Optimization and characterization of the photocatalytic activity of ZnO doped with cerium hydrothermal method assisted by microwave.** C.P3.137  
 Yara Feliciano Gomes<sup>1</sup>, Anna Karla Freitas<sup>1</sup>, Guilherme Henrique De Melo Gurgel<sup>1</sup>, Carlos Alberto Paskocimas<sup>1</sup>, Mauricio Roberto Bomio Delmonte<sup>1</sup>, Fabiana Villela da Motta<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte

- 17:00 Colloidal Magnetic Fluids Synthesized by Ultrasound Method** **C.P3.138**  
Davino Machado Andrade Neto<sup>1</sup>, Tiago Melo Freire<sup>1</sup>, Rafael Melo Freire<sup>1</sup>, Manuel Banobre-Lopez<sup>2</sup>, Pierre Basílio Almeida Fachine<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>International Iberian Nanotechnology Laboratory
- 17:00 Rotary-jet spinning of poly-butylene adipate-co-terephthalate with carbon nanotubes and hydroxyapatite incorporated to tissue engineering** **C.P3.139**  
Patricia Oliveira de Andrade<sup>1</sup>, Ana Maria do Espirito Santo<sup>1</sup>, Maira Maftoum Costa<sup>2</sup>, Bruno Vinicius Manzolli Rodrigues<sup>2</sup>, Fernanda Roberta Marciano<sup>2</sup>, Anderson de Oliveira Lobo<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo - Instituto de Ciência e Tecnologia, <sup>2</sup>Universidade do Vale do Paraíba - Instituto de Pesquisa e Desenvolvimento
- 17:00 Synthesis and characterization of RNiO<sub>3</sub> nanowires produced by template assisted method** **C.P3.140**  
Daniel Felipe Simião<sup>1</sup>, Alessandra Zenatti<sup>1</sup>, Alexandre José de Castro Lanfredi<sup>1</sup>, Márcia Tsuyama Escote<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Synthesis of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> superconductor nanowires** **C.P3.141**  
Diego Anisio Modesto<sup>1</sup>, Juliane Carla Bernardi<sup>1</sup>, Márcia Tsuyama Escote<sup>1</sup>, Alexandre José de Castro Lanfredi<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Synthesis and characterization of Al-MCM-41 from thermally activated and acid treated kaolin** **C.P3.142**  
Evânia Carvalho dos Santos<sup>1</sup>, Raquel de Andrade Bessa<sup>1</sup>, Adonay Rodrigues Loiola<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará

## Thursday, October 1st

### Poster presentations

C

#### Session C.P4 (09:45 - 11:45)

- 09:45 Study the influence of the presence of surfactants in the electrochemical behavior of nanostructured V<sub>2</sub>O<sub>5</sub>** C.P4.143  
Samuel Leonardo Sales<sup>1</sup>, Fernanda Ribeiro Lemos<sup>2</sup>, Edmar Arantes Moreira<sup>2</sup>, Rodrigo Fernando Bianchi<sup>1</sup>, Elidia Maria Guerra<sup>2</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal de São João del-Rei
- 09:45 Influence of thermal treatment on the crystallization of yttria - stabilized tetragonal zirconia prepared by polymeric precursor method** C.P4.144  
Alejandra Hortencia Miranda González<sup>1</sup>, Renato Panegaci dos Santos<sup>1</sup>, Claudio Machado Junior<sup>1</sup>, Paulo Henrique Perlatti D'Alpino<sup>1</sup>, Carlos F. O. Graeff<sup>2</sup>; <sup>1</sup>Universidade Anhanguera de São Paulo, <sup>2</sup>Faculdade de Ciências, UNESP-Bauru
- 09:45 Synthesis and characterization of nanostructures titanate by means of a non-commercial precursor: investigation of the reaction parameters** C.P4.145  
Jardel Meneses Rocha<sup>1</sup>, José Milton Elias de Matos<sup>2</sup>, Bartolomeu Cruz Viana<sup>2</sup>, Maria Rita de Moraes Chaves Santos<sup>2</sup>, Patrícia Santos Andrade<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, ciência e Tecnologia do Sertão Pernambucano, <sup>2</sup>Federal University of Piauí
- 09:45 Non-toxic and biocompatible gold nanoparticles produced by photochemical method** C.P4.146  
Priscila Rios Teixeira<sup>1</sup>, Mayara Simonelly dos Santos<sup>1</sup>, Sonia Nair Bão<sup>1</sup>, Leonardo Giordano Paterno<sup>1</sup>; <sup>1</sup>Universidade de Brasília
- 09:45 Morphology and size study of (Gd,Er,Yb)-doped NaYF<sub>4</sub> nanoparticles through the X-ray Line Profile Analysis.** C.P4.147  
Raimundo Lora Serrano<sup>1</sup>, Wellington Akira Iwamoto<sup>1</sup>, Ernesto Estevez Rams<sup>2</sup>, Jeann César Rodrigues<sup>1</sup>, Beatriz Aragón Fernandez<sup>2</sup>; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Universidade de Havana
- 09:45 Biodegradable Sachets Composed by Starch:Pectin for Controlling/Slow Release of Phosphorus Ions from Hydroxyapatite Nanoparticles** C.P4.148  
Camila Rodrigues Sciena<sup>1,2</sup>, João Otávio Donizette Malafatti<sup>1</sup>, Luiz Ferreira Neves Jr.<sup>1</sup>, Matheus André Salles Carra<sup>1</sup>, Lillian Cruz Santos<sup>1</sup>, Daniel Souza Corrêa<sup>2</sup>, José Manoel Marconcini<sup>2</sup>, Cauê Ribeiro Oliveira<sup>2</sup>, Elaine Cristina Paris<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 09:45 Raman Study of Eu<sup>3+</sup>-W codoped Nanosized TiO<sub>2</sub>** C.P4.149  
Ricardo López Medina<sup>1</sup>, Elizabeth Rojas García<sup>1</sup>, Isaías Hernández Pérez<sup>1</sup>, Ana Marisela Maubert Franco<sup>1</sup>, Sergio Alejandro Martínez-Delgadillo<sup>1</sup>, Marcos May Lozano<sup>1</sup>, Victor X. Mendoza-Escamilla<sup>1</sup>; <sup>1</sup>Universidad Autónoma Metropolitana Azcapotzalco
- 09:45 Influence of SiO<sub>2</sub> nanoparticles in the anti-scale properties of nanostructured epoxy coatings** C.P4.150  
THIARA FRANCIS MATEUS RODRIGUES<sup>1,2</sup>, Mauro Meliga Wysard<sup>1</sup>, Bluma Guenther Soares<sup>3</sup>, Sérgio de Souza Camargo Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Vallourec Tubos do Brasil S.A., <sup>3</sup>Institute of Macromolecules, IMA/UFRJ
- 09:45 Dependence of the strain of InAs/InGaAlAs QDs on their size** C.P4.151  
Jose Eduardo Ruiz Rosero<sup>1,2</sup>, Maurício Pamplona Pires<sup>2,3</sup>, Patrícia Lustoza Souza<sup>1,2</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Ciência e Tecnologia de Nanodispositivos Semicondutores, <sup>3</sup>Instituto de Física - Universidade Federal do Rio de Janeiro
- 09:45 Obtaining thin films of LaNiO<sub>3</sub> and LaNiO<sub>3</sub>/BaTiO<sub>3</sub> by PLD technique for study of the structural and physical properties for application in ferroelectric memories** C.P4.152  
Leonélio Cichetto Junior<sup>1</sup>, Fernando M. Araujo Moreira<sup>2</sup>, Claudio Antonio Cardoso<sup>2</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Instituto de Química - UNESP - Araraquara, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Instituto de Química - UNESP Araraquara
- 09:45 Physical properties of Pr<sub>1-x</sub>Bi<sub>x</sub>FeO<sub>3</sub> prepared by microwave-assisted hydrothermal method** C.P4.153  
Marcio Sena Curvello<sup>1</sup>, Daniel Zanetti de Florio<sup>1</sup>, Alessandra Zenatti<sup>1</sup>, Marcia Tsuyama Escote<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC



- 09:45 Morphological characterization of beads polymer nanocomposite as matrix of bioactive** **C.P4.154**  
Diogo Poppino Cordeiro Batista<sup>1</sup>, Rafael da Silva Souza<sup>1</sup>, Ingrid Vieira Fernandes Monteiro<sup>1</sup>, Ana Rúbia Batista Ribeiro<sup>1</sup>, Eduardo Jorge da Silva Fonseca<sup>1</sup>, Emiliano de Oliveira Barreto<sup>1</sup>, João Xavier de Araújo-Júnior<sup>1</sup>, Edeildo Ferreira da Silva-Júnior<sup>1</sup>, Luciano Aparecido Meireles Grillo<sup>1</sup>, Camila Braga Dornelas<sup>1</sup>; <sup>1</sup>Universidade Federal de Alagoas
- 09:45 National Production of Nanoclay Additives for Polymers: Challenges and Perspectives** **C.P4.155**  
Frederico Séllos Mattoso<sup>1</sup>, Henrique Cislaguei da Silva<sup>1</sup>, Nilson Schwartz da Silva<sup>1</sup>, Grazielle Chequeto<sup>1</sup>, Renata Callegaro<sup>2</sup>; <sup>1</sup>T-cota Laboratório Cerâmico Ltda, <sup>2</sup>Fundação Centros de Referência em Tecnologias Inovadoras
- 09:45 Structural and electrochemical characterization of undoped diamond nanoparticles** **C.P4.156**  
Thiago Silva Broze<sup>1</sup>, Rosana Alves Gonçalves<sup>2</sup>, Divani Barbosa Gavinier<sup>2</sup>, Erica Cristina Almeida<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Instituto Nacional de Pesquisas Espaciais
- 09:45 Processing and characterization superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> wire** **C.P4.157**  
Juliane Carla Bernardi<sup>1</sup>, Alessandra Zenatti<sup>1</sup>, Marcio Sena Curvello<sup>1</sup>, Alexandre José de Castro Lanfredi<sup>1</sup>, Marcia Tsuyama Escote<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 09:45 Sodium alginate film with titanium dioxide nanodispersion** **C.P4.158**  
Ronaldo Shiguero Sasaki<sup>1</sup>, Marcia Regina de Moura<sup>2</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP, <sup>2</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP - Departamento de Física e Química
- 09:45 MOCVD growth of gallium spheres and films containing gallium and indium on silicon substrates** **C.P4.159**  
Gabriela Paula Cavalcanti<sup>1</sup>, Nathalia Talita Candido de Oliveira<sup>1</sup>, Eduardo Henrique Lago Falcão<sup>1</sup>, Marco Sacilotti<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 09:45 Synthesis of Cobalt Ferrite Nanoparticles in Hydrometallurgy Reactor** **C.P4.160**  
Elton John Nunes de Araújo<sup>1</sup>, Renata Aquino<sup>1</sup>, Jerome Depeyrot<sup>1</sup>, Francisco Augusto Tourinho<sup>1</sup>, Franciscarlos Gomes da Silva<sup>1</sup>; <sup>1</sup>Universidade de Brasília
- 09:45 Zeolites Synthesis and Evaluation of the Phenol Adsorption in Aqueous Medium** **C.P4.161**  
Henrique Cesar Musetti<sup>1,2</sup>, João Otávio Donizette Malafatti<sup>1,2</sup>, Elaine Cristina Paris<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 09:45 Shape controlled Pd nanocrystals as templates for bimetallic nanostructures containing Au and Ag** **C.P4.162**  
Liliani Kaori Yamada<sup>1</sup>, Fabiane de Jesus Trindade<sup>1</sup>, Daniele Val Rocha<sup>1</sup>, Artur Filipe Gonçalves de Sousa<sup>1</sup>, Pedro Henrique Cury Camargo<sup>1</sup>; <sup>1</sup>Instituto de Química-Universidade de São Paulo
- 09:45 INFLUENCE OF KOH MINERALIZATION IN BATIO<sub>3</sub> SYNTHESIS USING A COMPLEX TiO<sub>2</sub>/H<sub>2</sub>O<sub>2</sub> AS A PRECURSOR OF Ti** **C.P4.163**  
Renata da Silva Magalhães<sup>1</sup>, Wagner Dias Macedo Junior<sup>1</sup>, Nathanael Felipe Guedes Silva<sup>1</sup>, Agda Eunice de Souza<sup>1</sup>, Silvio Rainho Teixeira<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 09:45 Synthesis of nanocomposites of uhmwpe with branched-pe by in situ polymerization employing catalyst mixtures** **C.P4.164**  
 Patrícia Libório de Oliveira<sup>1</sup>, Jacson Silva Moraes<sup>1</sup>, Layse Costa<sup>1</sup>, Maria de Fátima Vieira Marques<sup>1</sup>; <sup>1</sup>Institute of Macromolecules, IMA/UFRJ
- 09:45 Evaluation of the cupric oxide photocatalytic activity for Rhodamine B** **C.P4.165**  
Lílian Cruz Santos<sup>1,2</sup>, Camila Rodrigues Sciena<sup>1,2</sup>, João Otávio Donizette Malafatti<sup>1,2</sup>, Elaine Cristina Paris<sup>1,2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 09:45 Hidrothermal Synthesis and Photocatalytic Study of Titanium Dioxide-Iron Nanoparticles** **C.P4.166**  
Nágila El Chamy Maluf<sup>1</sup>, Felon Martinho Pontes<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista, Campus de Bauru, <sup>2</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 09:45 STRONTIUM TITANATE (SrTiO<sub>3</sub>) WITH HIGH/WIDE PHOTOLUMINESCENCE EMISSION** **C.P4.167**  
Renata da Silva Magalhães<sup>1</sup>, Gabriel dos Santos<sup>1</sup>, Wagner Dias Macedo Junior<sup>1</sup>, Fernanda Cristina Anastacio<sup>1</sup>, Agda Eunice de Souza<sup>1</sup>, Silvio Rainho Teixeira<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 09:45 Electrochemical study of the composite electrode based on SrTiO<sub>3</sub>** **C.P4.168**  
Silvio Rainho Teixeira<sup>1</sup>, Wesley Bruno da Silva Machini<sup>1</sup>, Renata da Silva Magalhães<sup>1</sup>, Marcos Fernando de Souza Teixeira<sup>1</sup>, Agda Eunice de Souza<sup>1</sup>, Celso Xavier Cardoso<sup>2</sup>, Diego Noé David Parra<sup>1</sup>, Elson Longo<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>FCT-UNESP Campus de Presidente Prudente

- 09:45 Synthesis of  $\text{Ca}_3\text{Co}_4\text{O}_9$  plate-like particles by microwave-assisted hydrothermal method** C.P4.169  
Midilane Sena Medina<sup>1</sup>, Alessandra Zenatti<sup>1</sup>, Daniel Zanetti de Florio<sup>1</sup>, Márcia Tsuyama Escote<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 09:45 Incorporation of Zinc oxide nanoparticles in water borne alkyd coatings for carbon steel protection** C.P4.170  
 Suelen Rodrigues Müller<sup>1</sup>, Rogério Santejano<sup>1</sup>, Daniela Fonseca<sup>1</sup>, Célia de Fraga Malfatti<sup>2</sup>, Ester Schmidt Rieder<sup>1</sup>; <sup>1</sup>Universidade Luterana do Brasil, <sup>2</sup>Universidade Federal do Rio Grande do Sul
- 09:45 Evaluation of Cotton Fabrics Hydrophobization by Functionalized Silica Nanoparticles** C.P4.171  
 Oneide Chire Quispe<sup>1</sup>, Lillian Cruz Santos<sup>1</sup>, Camila Rodrigues Sciena<sup>1,2</sup>, Alessandra Carla Mendes<sup>2</sup>, João Paulo Saraiva Morais<sup>3</sup>, Cauê Ribeiro Oliveira<sup>2</sup>, Elaine Cristina Paris<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>3</sup>Embrapa Algodão
- 09:45 Use Of Electron Beam Lithography For Interdigitated Transistor Electrodes And Alignments In FIB Applications** C.P4.172  
Isabelle Cornelsen Sampaio Lima<sup>1</sup>, Cristol de Paiva Gouvêa<sup>1</sup>, Bráulio Soares Archanjo<sup>1</sup>, Sandra Marcela Landi<sup>1</sup>, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 09:45 Synthesis, Characterization and photocatalytic activity of titanate nanotubes doped with  $\text{Cr}^{3+}$**  C.P4.173  
 Francisco Xavier Nobre<sup>1</sup>, Emanuel da Cruz Lima<sup>2</sup>, Ludyane Nascimento Costa<sup>2</sup>, Bartolomeu Cruz Viana<sup>2</sup>, José Milton Elias de Matos<sup>2</sup>; <sup>1</sup>Universidade Federal do Piauí, <sup>2</sup>Federal University of Piauí
- 09:45 New ion-conducting PVA/Clay/ionic liquid nanocomposite membranes for fuel cells under anhydrous conditions** C.P4.174  
Jose Carlos Dutra Filho<sup>1</sup>, Karim DAHMOUCHE<sup>2</sup>, Ailton de Souza Gomes<sup>1</sup>; <sup>1</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ, Rio de Janeiro- RJ/Brazil, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 09:45 Cubic and spherical Ni nanoparticles produced by pulsed-laser deposition** C.P4.175  
LIYING LIU<sup>1</sup>, Yutao Xing, Dannte F Franceschini<sup>2</sup>, Ivan Guillermo Solórzano-Naranjo<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio, <sup>2</sup>Universidade Federal Fluminense
- 09:45 Synthesis, characterization and nickel oxide nanoparticle suspension preparation** C.P4.176  
Fabiana Vieira Silva<sup>1</sup>, Marcella Lemos Brettas Carneiro<sup>1</sup>, Aparecido Ribeiro Souza<sup>2</sup>; <sup>1</sup>Universidade de Brasília, <sup>2</sup>Universidade Federal de Goiás - Instituto de Química
- 09:45 Synthesis of nanostructured calcium silicate hydrate with in situ produced silver nanoparticles** C.P4.177  
 Marília S S Beltrão<sup>1</sup>, Natalia Mayumi Yoshihara<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 09:45 Obtaining of pure and In-doped ZnO nanoparticles and thin films by chemical route** C.P4.178  
 Ariane Porto Ruiz<sup>1</sup>, Camila Rodrigues Sciena<sup>1,2</sup>, Paola Thaís Spolaôr Falcão<sup>1</sup>, Lillian Cruz Santos<sup>1</sup>, Elaine Cristina Paris<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 09:45 Magnetic and fluorescent polystyrene/tetraphenylporphyrin/maghemite nanocomposites for the photoinactivation of pathogenic bacteria** C.P4.179  
Juan Carlos Medina Llamas<sup>1</sup>, Alicia Elizabeth Chávez Guajardo<sup>1</sup>, Luis Maquiera Espinosa<sup>2</sup>, José Jarib Alcaraz Espinoza<sup>1</sup>, Tiago Lopes de Araújo<sup>1</sup>, Glória Maria Vinhas<sup>1</sup>, Alexandre Ricalde Rodrigues<sup>1</sup>, Kleber Gonçalves Bezerra Alves<sup>1</sup>, Celso Pinto de Melo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Pontificia Universidade Católica do Rio de Janeiro
- 09:45 Novel edible nanocomposite film-based in pectin and poly( $\epsilon$ -caprolactone) nanoparticles** C.P4.180  
Marcos Vinicius Lorevice<sup>1</sup>, Caio Gomide Otoni<sup>2</sup>, Marcia Regina de Moura<sup>3</sup>, Luiz Henrique Capparelli Mattoso<sup>4</sup>; <sup>1</sup>Federal University of São Carlos, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>4</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 09:45 Syntheses of noble metal nanoparticles using Gamma radiation** C.P4.181  
Andressa Mayumi Kubo<sup>1</sup>, Luiz Fernando Gorup<sup>1</sup>, Luciana da Silva Amaral<sup>1</sup>, Pablo Antonio Vázquez Salvador<sup>2</sup>, Paulo de Souza Santos<sup>2</sup>, Edson Rodrigues Filho<sup>1</sup>, Edson Roberto Leite<sup>1</sup>, Elson Longo<sup>3</sup>, Emerson Rodrigues Camargo<sup>1</sup>; <sup>1</sup>Federal University of São Carlos, <sup>2</sup>Nuclear and Energy Research Institute, <sup>3</sup>Instituto de Química - UNESP Araraquara
- 09:45 Synthesis, characterization and photocatalytic activity of tungsten trioxide ( $\text{WO}_3$ ) and silver tungstates ( $\text{Ag}_x\text{WyO}_z$ )** C.P4.182  
Francisco Xavier Nobre<sup>1</sup>, Roberta Yonara Nascimento Reis<sup>2</sup>, Fernando Matos Borges<sup>2</sup>, Emanuel da Cruz Lima<sup>2</sup>, Ludyane Nascimento Costa<sup>2</sup>, Ainara Priscila Madeira Santos<sup>2</sup>, Bartolomeu Cruz Viana<sup>2</sup>, José Milton Elias de Matos<sup>2</sup>; <sup>1</sup>Universidade Federal do Piauí, <sup>2</sup>Federal University of Piauí

- 09:45 Bionanocomposite chitosan/carbon nanotubes: optimizing by response surface methodology.** C.P4.183  
Alessandra L. Costa Teófilo<sup>1</sup>, José Heriberto Oliveira do Nascimento<sup>1</sup>, Rasiah Ladhumanandasivam<sup>1</sup>, Maria Augusta Cavalcanti Soares<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 09:45 Synthesis and characterization of La<sub>0.5</sub>Ba<sub>0.5</sub>MnO<sub>3</sub> by hydrothermal assisted microwave** C.P4.184  
Alessandra Zenatti<sup>1</sup>, Alexander Raul Naupa Roque<sup>1</sup>, Alexandre José de Castro Lanfredi<sup>1</sup>, Edson Roberto Leite<sup>2</sup>, Elson Longo<sup>3</sup>, Márcia Tsuyama Escote<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Instituto de Química - UNESP Araraquara
- 09:45 Effect of ultrasonic treatment on the distribution of particle sizes of agglomerates LiFeO<sub>2</sub>** C.P4.185  
Cristovão Silva Nascimento<sup>1</sup>, Waldomiro Gomes Paschoal Jr.<sup>1,2</sup>, Sanclayton Moreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Lund University / Lunds universitet
- 09:45 Synthesis of MoO<sub>3</sub> by the microwave assisted hydrothermal method** C.P4.186  
Thiago Marinho Duarte<sup>1,2</sup>, Herbet Bezerra Sales<sup>1,2</sup>, JAKELINE DANIELA SOARES DA SILVA NASCIMENTO<sup>2</sup>, Adriana Almeida Cutrim<sup>3</sup>, Maria Gardennia Fonseca<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Bentonisa do Nordeste S.A., <sup>3</sup>Universidade Federal de Campina Grande
- 09:45 Developing a textile super hydrophobic material and thermochromic** C.P4.187  
Isaac Kleymer Dantas de Oliveira<sup>1</sup>, JORGE REINALDO OLIVEIRA NEVES<sup>2</sup>, José Heriberto Oliveira do Nascimento<sup>1</sup>, Vasco Teixeira<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Universidade do Minho
- 09:45 Efficient removal of Cr (VI) and Cu (II) ions from aqueous media by use of polypyrrole/maghemite and polyaniline/maghemite magnetic nanocomposites** C.P4.188  
Alicia Elizabeth Chávez Guajardo<sup>1</sup>, Juan Carlos Medina Llamas<sup>1</sup>, Luis Maquiera Espinosa<sup>2</sup>, César Augusto Souza de Andrade<sup>1</sup>, Kleber Gonçalves Bezerra Alves<sup>1</sup>, Celso Pinto de Melo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 09:45 Fluorescent phytantriol-based cubosomes: a versatile platform for potential brain-targeted theranostics.** C.P4.189  
Ághata Corrêa Binotto<sup>1</sup>, Fernanda Poletto<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 09:45 Electric and dielectric behavior of Ba(Zr<sub>x</sub>Ti<sub>1-x</sub>)O<sub>3</sub> films obtained by electrophoretic deposition** C.P4.190  
Guilherme Seidi Sasaki<sup>1</sup>, Agda Eunice de Souza<sup>1</sup>, Neri Alves<sup>1</sup>, Tiago Carneiro Gomes<sup>1</sup>, Silvio Rainho Teixeira<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 09:45 Nanostructured TiO<sub>2</sub>-based composites: structural, optical and electrical properties** C.P4.191  
Dayse Iara Dos Santos<sup>1</sup>, Olayr Modesto Jr.<sup>2</sup>, Joelma Cristina de Sousa Breve<sup>2</sup>, Diego Henrique de Oliveira Machado<sup>2</sup>, Márcio Francisco Da Silva<sup>1</sup>, Luis Vicente de Andrade Scalvi<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Campus de Bauru, <sup>2</sup>Universidade Estadual Paulista
- 09:45 Micronutrient administration from high-swellable nanocomposite hydrogels** C.P4.192  
Adriel Bortolin<sup>1,2</sup>, Fauze Ahmad Aouada<sup>3</sup>, Luiz Henrique Capparelli Mattoso<sup>1</sup>, Cauê Ribeiro Oliveira<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>2</sup>Federal University of São Carlos, <sup>3</sup>Faculdade de Engenharia de Ilha Solteira-Universidade Estadual Paulista
- 09:45 Preparation and characterization one-dimensional nanostructures of Te** C.P4.193  
Vanessa Rodrigues de Camargo<sup>1</sup>, Robson Rosa da Silva<sup>1</sup>, Sidney José Lima Ribeiro<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:45 Obtaining of TiO<sub>2</sub>:Ag films on porous substrates for Rhodamine B photocatalysis** C.P4.194  
Sara Novak<sup>1,2</sup>, Lilian Cruz Santos<sup>3,1</sup>, Elaine Cristina Paris<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>2</sup>Universidade Federal do Oeste da Bahia, <sup>3</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 09:45 Petroleum Characterization by Electron Paramagnetic Resonance** C.P4.195  
Marcio Solino Pessoa<sup>1</sup>, Maria de Fátima Pereira dos Santos<sup>1</sup>, Paulo Sérgio Moscon<sup>1</sup>, Maria Cecília Rodrigues Rosa<sup>1</sup>, Luciano Morais Lião<sup>2</sup>; <sup>1</sup>Universidade Federal do Espírito Santo, <sup>2</sup>Universidade Federal de Goiás
- 09:45 Electronic structure and ultrafast charge transfer dynamics of phosphorous doped graphene layers on copper substrate: A combined spectroscopic study** C.P4.196  
Dunieskys Roberto González Larrude<sup>1,2</sup>, Yunier Garcia Basabe<sup>3</sup>, Fernando Lázaro Freire Júnior<sup>1</sup>, Maria Luiza Miranda Rocco<sup>4</sup>; <sup>1</sup>Departamento de Física (PUC-Rio), <sup>2</sup>MackGraphe, Graphene and Nano-Materials Research Center, Mackenzie Presbyterian University, <sup>3</sup>Universidade Federal da Integração Latino, <sup>4</sup>Universidade Federal do Rio de Janeiro

- 09:45 NH<sub>4</sub>OH Concentration on the Control of the Composition and Morphology of Iron Oxides and Oxi-hydroxides Synthesis** C.P4.197  
Geronimo Perez<sup>1</sup>, Maria Paulina Romero<sup>2</sup>, Sonia Renaux Louro<sup>3</sup>, Ivan Guillermo Solórzano-Naranjo<sup>4</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Escola Politécnica Nacional, <sup>3</sup>Departamento de Física (PUC-Rio), <sup>4</sup>Pontificia Universidade Católica do Rio de Janeiro
- 09:45 Evaluation of silk fibroin and sodium alginate miscibility using morphological and thermal analysis** C.P4.198  
Laise Maia Lopes<sup>1</sup>, Marisa Masumi Beppu<sup>1</sup>, Mariana Agostini de Moraes<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal de São Paulo
- 09:45 Ba(Zr<sub>x</sub>Ti<sub>1-x</sub>)O<sub>3</sub>: Photoluminescence and particle growth** C.P4.199  
 Guilherme Seidi Sasaki<sup>1</sup>, Gleyson Tadeu de Almeida Santos<sup>1</sup>, Agda Eunice de Souza<sup>1</sup>, Silvio Rainho Teixeira<sup>1</sup>, Máximo Siu Li<sup>2</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade de São Paulo, São Carlos, <sup>3</sup>Universidade Estadual Paulista, Instituto de Química, Araraquara, SP
- 09:45 Use of commercial gelatin in the synthesis of ceramic materials for application in cathodes of solid oxide fuel cells (SOFC)** C.P4.200  
Gabriela Oliveira Galvão<sup>1</sup>, ANDERSON MOREIRA SÁ<sup>1</sup>, FLÁVIA DE MEDEIROS AQUINO<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 09:45 CaZrO<sub>3</sub> Nanoparticles by the Microwave Assisted Hydrothermal Method** C.P4.201  
Wagner Dias Macedo Junior<sup>1</sup>, Silvio Rainho Teixeira<sup>1</sup>, Renata da Silva Magalhães<sup>1</sup>, Guilherme Seidi Sasaki<sup>1</sup>, Agda Eunice de Souza<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista, Instituto de Química, Araraquara, SP
- 09:45 Optimization and Characterization the Process Formation of Anodic Oxide Nanotubes on Ta-25Ti alloy.** C.P4.202  
Thiago André Salgueiro Soares<sup>1,2</sup>, Lilian Campelo Holanda<sup>1,2</sup>, Caio Figueiró Melo<sup>1,2</sup>, Dyego Maia de Oliveira<sup>2</sup>, Isabel Souza Arruda<sup>2</sup>, Luciano Costa Almeida<sup>1</sup>, Giovanna Machado<sup>2</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste,
- 09:45 Effect of solvent type on polycaprolactone fibers produced by Solution Blow Spinning** C.P4.203  
REBECA TIBAU AGUIAR<sup>1</sup>, Eudes Leonnán Medeiros<sup>1</sup>, Meyson Cassio Nascimento<sup>1</sup>, Juliano Elvis Oliveira<sup>2</sup>, Eliton Souto Medeiros<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de Lavras
- 09:45 Preparation and characterization of La<sub>0,2</sub>Sr<sub>0,8</sub>FeO<sub>3</sub> and La<sub>0,2</sub>Sr<sub>0,8</sub>CoO<sub>3</sub> for use as cathodes in solid oxide fuel cells (SOFCs)** C.P4.204  
Gabriela Oliveira Galvão<sup>1</sup>, ANDERSON MOREIRA SÁ<sup>1</sup>, FLÁVIA DE MEDEIROS AQUINO<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade federal da Paraíba
- 09:45 Synthesis of silver nanoparticles in Langmuir monolayer** C.P4.205  
Douglas Ricardo de Assis<sup>1</sup>, Miguel Jafelici Júnior<sup>1</sup>, Marian Rosaly Davolos<sup>1</sup>, Higor Henrique de Souza Oliveira<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP Araraquara
- 09:45 Development, characterization and cytotoxicity assessment of nanoparticles for siRNA encapsulation** C.P4.206  
Alessandra Batista de Mattos<sup>1</sup>, André Filipe Pastor<sup>2</sup>, Keicyanne Fernanda Lessa dos Anjos<sup>1</sup>, Sarah Romini de Lima Basto<sup>3</sup>, Janaina Viana de Melo<sup>1</sup>, Rafael Dhalia<sup>2</sup>, Giovanna Machado<sup>1</sup>, Karina Lidiane Alcântara Saraiva<sup>2</sup>; <sup>1</sup>Centro de Tecnologias Estratégicas do Nordeste,, <sup>2</sup>Fundação Oswaldo Cruz - Centro de Pesquisa Aggeu Magalhães, <sup>3</sup>Universidade Federal de Pernambuco
- 09:45 Investigation of photocatalytic property of ZnO films doped with samarium by the polymeric precursor method** C.P4.207  
Raquel Guilherme Carvalho<sup>1</sup>, Vivianne Da Silva Pinheiro<sup>1</sup>, Mauricio Roberto Bomio Delmonte<sup>1</sup>, Fabiana Villela da Motta<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 09:45 Solutions to making silica nano powder and nano fiber** C.P4.208  
Murilo Borges Araújo<sup>1</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica
- 09:45 Structural and morphological characterization of zirconia-hydroxyapatite nanocomposite obtained by two chemical methods** C.P4.209  
Alejandra Hortencia Miranda González<sup>1</sup>, Ayrton Fernando Gomes de Oliveira<sup>1</sup>, Claudio Machado Junior<sup>1</sup>, Vinicius Di Hipólito<sup>1</sup>, Carlos F. O. Graeff<sup>2</sup>; <sup>1</sup>Universidade Anhanguera de São Paulo, <sup>2</sup>Faculdade de Ciências, UNESP-Bauru
- 09:45 Optimization and structure properties of Fe<sub>2</sub>MnSi Heusler nanoparticles by pulsed laser deposited** C.P4.210  
Noemi Raquel Checca Huaman<sup>1</sup>, Richard Caraballo<sup>1</sup>, Daniel Rocco<sup>1</sup>, Mario Reis<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 09:45 Growth of nanocrystalline iron nitride (γ'-FeN) nanoparticles by pulsed laser deposited** C.P4.211  
Noemi Raquel Checca Huaman<sup>1</sup>, Juan Lucas Nachez<sup>1</sup>, Dante Ferreira Franceschini<sup>1</sup>, Yutao Xing<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense

- 09:45 Preparation and characterization of catalyst Ni/Al<sub>2</sub>O<sub>3</sub>** **C.P4.212**  
 Patrícia Neves de Medeiros<sup>1</sup>, Raimison Bezerra de Assis<sup>1</sup>, Loic Sauvezie<sup>2</sup>, Yara Feliciano Gomes<sup>2</sup>, Carlos Alberto Paskocimas<sup>2</sup>, Mauricio Roberto Bomio Delmonte<sup>2</sup>, Fabiana Villela da Motta<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia da Bahia, <sup>2</sup>Universidade Federal do Rio Grande do Norte
- 09:45 Determination of dielectric constant and Influence of humidity on surface potential of graphene oxide by Scanning Probe Microscopy.** **C.P4.213**  
 Francisco Carlos Salomão<sup>1</sup>, Eduardo Bedê Barros<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 09:45 Effect of nanocrystalline rare earth oxide coatings obtained using different sol-gel processing routes on oxidation behavior of FeCrAl alloy.** **C.P4.214**  
 Stela Maria Carvalho Fernandes<sup>1</sup>, Olandir Vercino Correa<sup>1</sup>, Lalgudi Venkataraman Ramanathan<sup>2</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares, <sup>2</sup>Instituto de Pesquisas Energéticas e Nucleares
- 09:45 Relation between the composition and the catalytic activity of the bimetallic noble metal nanoparticles with tunable compositions supported on organofunctionalized mesoporous silica** **C.P4.215**  
 Italo Odone Mazali<sup>1</sup>, João Paulo Vita Damasceno<sup>1</sup>, Camila Marchetti Maroneze<sup>1</sup>, Mathias Strauss<sup>2</sup>, Fernando Aparecido Sigoli<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP
- 09:45 Evaluation of the thermal stability of the perovskite ((La(Fe<sub>x</sub>Ni<sub>1-x</sub>)O<sub>3</sub>)) crystalline structure by x-ray diffraction with temperature chamber evaluation of the thermal stability of the perovskite** **C.P4.216**  
 Renato Figueira da Silva<sup>1</sup>, Cristian Roque Perdoná<sup>1</sup>, Eduardo Rigoti<sup>2</sup>, Sibebe Berenice Castellã Pergher<sup>2</sup>; <sup>1</sup>Bruker do Brasil - Divisão AXS, <sup>2</sup>Universidade Federal do Rio Grande do Norte
- 09:45 Deposition of self-assembled films with TiO<sub>2</sub> nanoparticles in low-cost polymer substrate for degradation of organic contaminants.** **C.P4.217**  
 Levy Silva de Paiva<sup>1</sup>, Livia do Nascimento Ribeiro<sup>1</sup>, Thiago André Salgueiro Soares<sup>1,2</sup>, Luciano Costa Almeida<sup>1</sup>, Giovanna Machado<sup>2</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste,
- 09:45 Optimization of organic thin film parameters for the application of Two-Film thickness technique** **C.P4.218**  
 Tommaso Del Rosso<sup>1</sup>, Marco Cremona<sup>2</sup>, João Manoel Barbosa Pereira<sup>1</sup>; <sup>1</sup>Departamento de Física (PUC-Rio), <sup>2</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 09:45 Electrospinning Technique: A Platform to Obtain Nanostructured Materials** **C.P4.219**  
 Giulia Maria Rodrigues Alvares<sup>1</sup>, Luis Marcelo G da Silva<sup>1</sup>, Julia Cristina Silva<sup>1</sup>, Alice de Paula Gonçalves<sup>1</sup>, Cristine Costa Fulchini<sup>1</sup>, Rodrigo Kenji de Oliveira<sup>1</sup>, Gerson Luiz Mantovani<sup>1</sup>, Everaldo Carlos Venancio<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 09:45 Characterization of Reference Materials: Nanoparticles and Protocols** **C.P4.220**  
barthira rocha<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 09:45 Production of PVDF/FAU nanocomposites via solution blow spinning** **C.P4.221**  
 Lincon Zadorosny<sup>1</sup>, Alex Otávio Sanches<sup>1</sup>, Rafael Zadorosny<sup>1</sup>, Mirian Cristina Santos<sup>2</sup>, José Antonio Malmonge<sup>1</sup>, Luiz Francisco Malmonge<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira-Universidade Estadual Paulista, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química, Araraquara, SP
- 09:45 Nanofibers pure of TiO<sub>2</sub> obtained by Blow Spinning** **C.P4.222**  
 Tiago Cesar Gimenes<sup>1</sup>, Fernando Rogério de Paula<sup>1</sup>, Éder Alves Pereira<sup>2</sup>, Maykon Montanhera<sup>1</sup>, Edna Regina Spada<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>3</sup>Physics Institute, University of São Paulo, São Carlos
- 09:45 Thermal behavior of electrospun polyvinyl alcohol/TiO<sub>2</sub> nanotube composites** **C.P4.223**  
 Irina Marinho Factori<sup>1</sup>, Juliana Dos Santos Souza<sup>1</sup>, Sergio kogikoski Junior<sup>1</sup>, Michelle Da Silva Liberato<sup>1</sup>, Emerson Rodrigo da Silva<sup>1</sup>, Wendel Andrade Alves<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 09:45 Chromium-doped TiO<sub>2</sub> coating for corrosion protection of AISI 316 stainless steel** **C.P4.224**  
 Rogério Santejano<sup>1</sup>, Daniela Fonseca<sup>1</sup>, Claudia Trindade Oliveira<sup>2</sup>, Ester Schmidt Rieder<sup>1</sup>; <sup>1</sup>Universidade Luterana do Brasil, <sup>2</sup>Universidade Feevale
- 09:45 Synthesis and characterization of Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanoparticles: Orange II Sono-photodegradation** **C.P4.225**  
 Marcos May-Lozano<sup>1</sup>, Geovani Chiñas-López<sup>2</sup>, Ricardo López-Medina<sup>2</sup>, Victor X. Mendoza-Escamilla<sup>2</sup>, Sergio Alejandro Martínez-Delgadillo<sup>1</sup>, Cristina Iuga<sup>3</sup>; <sup>1</sup>Universidad Autónoma Metropolitana, <sup>2</sup>Universidad Autónoma Metropolitana Azcapotzalco, <sup>3</sup>Universidad Autónoma Metropolitana Xochimilco

- 09:45 Coating of fixed oil (Babassu) with medicinal potential within TiO<sub>2</sub> nanotubes** **C.P4.226**  
Sarah Romini de Lima Basto<sup>1</sup>, Isabel Souza Arruda<sup>1,2</sup>, Thiago André Salgueiro Soares<sup>2</sup>, Alessandra Batista Mattos<sup>2</sup>, Levy Silva de Paiva<sup>2</sup>, Giovanna Machado<sup>2</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste,
- 09:45 Synthesis and characterization of nano and photosensitive composites of calcium phosphate as potential drug delivery carriers for treatment of Cutaneous Leishmaniasis** **C.P4.227** **C**  
Alex Arbey Lopera<sup>1</sup>, Sara Maria Robledo<sup>2</sup>, Iván Dario Velez<sup>2</sup>, Claudia Patricia García<sup>1</sup>; <sup>1</sup>Universidad Nacional de Colombia, <sup>2</sup>Universidad de Antioquia
- 09:45 Synthesis and antimicrobial evaluation of nanostructures ZrO<sub>2</sub>:Ag** **C.P4.228**  
Cássia Vanessa Nova<sup>1</sup>, Karoline Hagatha Reis<sup>2</sup>, Diogo Alves Gálico<sup>3</sup>, James Venturini<sup>4</sup>, Fenelon Martinho Pontes<sup>4</sup>, Elson Longo<sup>5</sup>; <sup>1</sup>Faculdade de Ciências, UNESP-Bauru, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, <sup>3</sup>Universidade Estadual de Campinas, <sup>4</sup>Universidade Paulista Julio de Mesquita Filho, <sup>5</sup>Universidade Federal de São Carlos - Campus: São Carlos







## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session D.OR1 (09:45 - 10:45) - Room L1

- 09:45 High quality monolayer graphene synthesized by resistive heating cold wall chemical vapour deposition** **D.OR1.1\***  
Monica Felicia Craciun<sup>1</sup>, Thomas H Bointon<sup>1</sup>, Matthew D Barnes<sup>1</sup>, Saverio Russo<sup>1</sup>; <sup>1</sup>University of Exeter
- 10:15 Scanning tunneling microscopy and spectroscopy study of the interplay between strain modulation and electronic band structure of epitaxial graphene on copper** **D.OR1.2**  
Thais Chagas Peixoto Silva<sup>1</sup>, Thiago Henrique Rodrigues da Cunha<sup>1</sup>, Diogo Duarte dos Reis<sup>1</sup>, Matheus Josué de Souza Matos<sup>1</sup>, Karolline Araujo<sup>1</sup>, Angelo Malachias<sup>1</sup>, Mário Sérgio de Carvalho Mazzoni<sup>1</sup>, Andre S Ferlauto<sup>1</sup>, Rogerio Magalhaes Paniago<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 10:30 Applicability of different probe scanning microscopy techniques in the characterization of carbon nanostructures/polymeric latex nanocomposites.** **D.OR1.3**  
Carolina Ferreira de Matos<sup>1</sup>, Camilla K.B.Q.M Oliveira<sup>1</sup>, Fernando Galembeck<sup>2</sup>, Aldo J.G. Zarbin<sup>1</sup>; <sup>1</sup>Federal University of Paraná, <sup>2</sup>Universidade Estadual de Campinas

#### Session D.OR2 (11:15 - 12:30) - Room L1

- 11:15 Carbon Nanomaterials for Energy Harvesting and Storage** **D.OR2.4\***  
Gehan A. J. Amaratunga<sup>1</sup>; <sup>1</sup>Electrical Engineering Division and Centre for Advanced Photonics and Electronics (CAPE), Engineering Department, University of Cambridge
- 11:45 A Kirigami Approach to Engineering Elasticity in Nanocomposites** **D.OR2.5**  
Pablo F. Damasceno<sup>1</sup>, Terry Shyu<sup>1</sup>, Paul M Dodd<sup>1</sup>, Aaron Lamoureux<sup>1</sup>, Matthew Shlian<sup>1</sup>, Max Shtein<sup>1</sup>, Nicholas A. Kotov<sup>1</sup>, Sharon C Glotzer<sup>1</sup>; <sup>1</sup>University of Michigan
- 12:00 Graphene Transistors – Status, Prospects and Challenges** **D.OR2.6\***  
Frank Schwierz<sup>1</sup>; <sup>1</sup>Technische Universität Ilmenau

#### Session D.OR3 (14:00 - 15:15) - Room L1

- 14:00 Ultrafast Electron Dynamics in Graphene: Stacked Monolayer Graphene Samples** **D.OR3.7**  
Juan Andrés Castañeda<sup>1</sup>, Bernardo Kyotoku<sup>1</sup>, Henrique Guimarães Rosa<sup>2</sup>, José Carlos Gomes<sup>3</sup>, E.A. Thoroh de Souza<sup>2</sup>, Carlos Henrique Brito Cruz<sup>1</sup>, Hugo Luis Fragnito<sup>1</sup>, Lazaro A Padilha<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Presbiteriana Mackenzie, <sup>3</sup>National University of Singapore
- 14:15 Design and the synthesis of nanostructured carbon-based thin films** **D.OR3.8**  
Gueorgui Kostov Gueorguiev
- 14:30 Theoretical study of Graphone formation on different substrates** **D.OR3.9**  
Cristiano Francisco Woellner<sup>1</sup>, Pedro Alves Autreto<sup>1</sup>, Douglas Soares Galvão<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 14:45 Electronic properties of phosphorene** **D.OR3.10\***  
Adalberto Fazzio<sup>1</sup>; <sup>1</sup>Ministério da Ciência, Tecnologia e Inovação

### Poster presentations

#### Session D.P1 (17:00 - 19:00)

- 17:00 polymeric porphyrin-Fullerene (C<sub>60</sub>) and their Self-assembly morphologies** **D.P1.1**  
Mian Hasnain Nawaz<sup>1</sup>, Wang Feng<sup>2</sup>; <sup>1</sup>IRCBM, COMSATS Institute of Information Technology, Lahore, <sup>2</sup>East China University of Science & Technology
- 17:00 Electrodeposition of hydroxyapatite on vertically-aligned carbon nanotube/conductive polymer composite** **D.P1.2**  
 Cintia Maria Rosa<sup>1</sup>, Evaldo José Corat<sup>2</sup>, Fernanda Roberta Marciano<sup>1</sup>, Anderson de Oliveira Lobo<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Instituto Nacional de Pesquisas Espaciais

- 17:00 Effect of deuterium on the friction behavior of a-C:H/D thin films** **D.P1.3**  
Saron Rosy Sales de Mello<sup>1</sup>, Carla Daniela Boeira<sup>1</sup>, Marcelo Huguenin Maia da Costa<sup>2</sup>, Fernando Lázaro Freire Jr.<sup>2</sup>, Carlos Alejandro Figueroa<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul, <sup>2</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 17:00 Carbon Nanotube Growth on a Magnesium-Nickel Oxide** **D.P1.4**  
 Ronald Beyner Mejia Sanchez<sup>1</sup>, Dunieskys Roberto González Larrude<sup>2</sup>, Marcelo Huguenin Maia da Costa<sup>1</sup>, Roberto R de Avillez<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>2</sup>Universidade Presbiteriana Mackenzie
- 17:00 Synthesis of ethylene nanocomposites with graphite nanosheets** **D.P1.5**  
Giovani Pavoski<sup>1</sup>, Marcéo Auler Milani<sup>1</sup>, Thuany Maraschin<sup>2</sup>, Raul Quijada<sup>3</sup>, Nara Regina de Souza Basso<sup>2</sup>, Griselda Barrera Galland<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Pontifícia Universidade Católica do Rio Grande do Sul, <sup>3</sup>Universidad de Chile
- 17:00 Properties of Poly(propylene-1-octene)/graphite nanosheets nanocomposites obtained by in situ polymerization** **D.P1.6**  
 Marcéo Auler Milani<sup>1</sup>, Giovani Pavoski<sup>1</sup>, Rosário Benavente<sup>2</sup>, Raul Quijada<sup>3</sup>, Griselda Barrera Galland<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Instituto de Ciencia y Tecnología de Polímeros, <sup>3</sup>Universidad de Chile
- 17:00 Nanographite produced by ultrasonic mechanical exfoliation and its influence on mechanical properties of composites.** **D.P1.7**  
Regis Schiavon de Oliveira<sup>1</sup>, Bruno Henrique Ramos Lima<sup>1</sup>, Edson Roberto Leite<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Synthesis aluminum/graphite nanoplatelets nanocomposites by powder metallurgy route** **D.P1.8**  
Felipe Parise Garpelli<sup>1</sup>, Murillo Souza Pereira<sup>1</sup>, Daniel Andrada Maria<sup>1</sup>, Andreza de Sousa Andrada<sup>1</sup>, Clascídia A. Furtado<sup>2</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Electrical Properties of an Ethanol Vapor Sensor based on N-Doped Carbon Xerogel/Polyethylene Glycol Composite Film** **D.P1.9**  
 Cássio Longati Nunes<sup>1</sup>, Wagner Souza Machado<sup>2</sup>, Honória de Fátima Gorgulho<sup>2</sup>, Mariana Botelho Barbosa<sup>3</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>Universidade Federal de São João del-Rei, <sup>3</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Synthesis of Few-Layer Graphene using Plasma Enhanced CVD** **D.P1.10**  
Cristiane Regina Stilhano Vilas Boas<sup>1</sup>, Dunieskys Roberto González Larrude<sup>2</sup>, Demétrio Jackson dos Santos<sup>1</sup>, Maria Cecília Salvadori<sup>3</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Universidade Presbiteriana Mackenzie, <sup>3</sup>Universidade de São Paulo
- 17:00 Analysis of epoxy resins performance having absorbing properties applied in FSS** **D.P1.11**  
Samuel Machado Leal da Silva<sup>1,2,3</sup>, Mirabel Cerqueira Rezende<sup>1,4</sup>, Newton Adriano dos Santos Gomes<sup>1</sup>, Luiza de Castro Folgueras<sup>5</sup>, Cynthia Junqueira<sup>6</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica, <sup>2</sup>Centro de Instrução de Guerra Eletrônica, <sup>3</sup>Centro Tecnológico do Exército, <sup>4</sup>Universidade Federal de São Paulo, <sup>5</sup>Universidade de Taubaté, <sup>6</sup>Universidade Estadual de Campinas
- 17:00 Microwave absorbing paint based on magnetic and dielectric materials** **D.P1.12**  
Samuel Machado Leal da Silva<sup>1</sup>, Luiza de Castro Folgueras<sup>2</sup>, Mauro Angelo Alves<sup>1</sup>, Mirabel Cerqueira Rezende<sup>1,3</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica, <sup>2</sup>Universidade de Taubaté, <sup>3</sup>Universidade Federal de São Paulo
- 17:00 Thermal Lens Spectroscopy applied to the study of thermo-optical properties of PVA modified by insertion of betacarotene and carbon nanotubes** **D.P1.13**  
Luiz Fernando Lobato Silva<sup>1</sup>, Sanclayton Moreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Surface manufacturing of non-reflective carbon nanotubes with low wettability** **D.P1.14**  
Rodrigo Bezerra Vasconcelos Campos<sup>1</sup>, Sérgio de Souza Camargo Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Hybrid Composite Photocatalytic Based on Amorphous-Carbon Matrix with a dispersion of ZnO@Ni** **D.P1.15**  
Silvania Lanfredi<sup>1</sup>, Gisele Santos Silveira<sup>1</sup>, Marcos Augusto Lima Nobre<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente
- 17:00 Synthesis of aluminum/graphene nanocomposites by molecular Flake Metallurgy. First approaches.** **D.P1.16**  
Murillo Souza Pereira<sup>1</sup>, Felipe Parise Garpelli<sup>1</sup>, Andreza de Sousa Andrada<sup>1</sup>, Clascídia A. Furtado<sup>2</sup>, Daniel Andrada Maria<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Effects of Edge Magnetism on the Kohn Anomalies of Zigzag Graphene Nanoribbons** **D.P1.17**  
Francisco Javier Culchac<sup>1</sup>, Rodrigo B Capaz<sup>2</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Universidade Federal do Rio de Janeiro

- 17:00 New Nanocomposite for applications in dentistry. An experimental Study** **D.P1.18**  
Daniel Pinto Martins<sup>1</sup>, Cristina Costa de Almeida<sup>1</sup>, Cresus Vinicius Depes de Gouvea<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 One-pot microwave-assisted hydrothermal synthesis of SnO<sub>2</sub>-reduced graphene oxide nanocomposites** **D.P1.19**  
Cecilia de Almeida Zito<sup>1</sup>, Diogo Paschoalini Volanti<sup>1</sup>; <sup>1</sup>IBILCE Universidade Estadual Paulista
- 17:00 Comprehensive distinction into the morphological, chemical and structural characterization of graphite and graphene oxides** **D.P1.20**  
Raphael Verdan Curti<sup>1,2</sup>, Kelly Leite dos Santos Castro Assis<sup>1,2</sup>, Lídia Agata Sena<sup>2</sup>, Carlos Alberto Achete<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 17:00 Decontamination of wastewater using nanocarbon compounds insert in diatomite mesoporous structure** **D.P1.21**  
 Elena Flores<sup>1</sup>, Omar Enriquez<sup>1</sup>, Jesus De la Cruz<sup>1</sup>, Maria Quintana<sup>1</sup>; <sup>1</sup>Universidad de Ingeniería y Tecnología
- 17:00 Hydrogenated carbon nitride nanoparticles produced by hollow cathode dusty plasmas** **D.P1.22**  
 Clara Ramos Soares<sup>1</sup>, Maria Helena Brijaldo<sup>1</sup>, Juan Lucas Nachez<sup>1</sup>, Dante Ferreira Franceschini<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Graphene oxide electrodes for electrochemical storage energy in capacitor** **D.P1.23**  
renan neres santos<sup>1</sup>, Erica Freire Antunes<sup>2</sup>, Danilo Maciel Barquete<sup>1</sup>, Erica Cristina Almeida<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Carbon nanostructures on graphene/Ru(0001)** **D.P1.24**  
Ricardo Henriquez, Valeria Del Campo<sup>1</sup>, Patricio Häberle<sup>1</sup>; <sup>1</sup>Universidad Técnica Federico Santa María
- 17:00 Multi-Walled Carbon Nanotubes Films obtained by Electrophoresis Technique** **D.P1.25**  
Igor Yamamoto Abe<sup>1</sup>, Katia Franklin Albertin<sup>2</sup>, Inês Pereyra<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Fundação Universidade Federal do Abc
- 17:00 Inorganics composites: thermo-mechanical properties** **D.P1.26**  
Alisson Rios Silva<sup>1</sup>; <sup>1</sup>Centro Universitário Estadual da Zona Oeste
- 17:00 Preparation of graphene-based composites and application in dye-sensitized solar cells** **D.P1.27**  
Jilian Nei de Freitas<sup>1</sup>, Diogo M. Guilhermitti Neto<sup>1</sup>, Helton P. Nogueira<sup>1</sup>, Mubiayi P. Kalenga<sup>2</sup>, Nosipho Moloto<sup>2</sup>; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer, <sup>2</sup>University of the Witwatersrand
- 17:00 Effect of the CVD parameters on the fiber tensile strength of carbon fibers with growth carbon nanotubes using single-fiber tensile test** **D.P1.28**  
Marines Carvajal Gomes<sup>1</sup>, Evaldo José Corat<sup>1</sup>, Lays Dias Ribeiro Cardoso<sup>1</sup>, Fabio Santos da Silva<sup>2</sup>; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais, <sup>2</sup>EMBRAER
- 17:00 Influence of fulvic acids, degree of functionalization and length variation of carbon nanotubes in epoxy composites** **D.P1.29**  
Ingrid Beatriz Costa<sup>1</sup>, Felipe da Silva Medeiros<sup>1</sup>, Juliana Cardoso Neves<sup>1</sup>, Vinicius Gomide Castro<sup>1</sup>, Rodrigo Lassarote Lavall<sup>1</sup>, Glaura Goulart Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Pivoting bearings tests with DLC coating for implantable centrifugal blood pump** **D.P1.30**  
 Rosa Corrêa Leoncio de Sá<sup>1,2</sup>, Vladimir Jesus Trava-Airoldi<sup>3</sup>, Juliana Leme<sup>2</sup>, Tarcísio Leão<sup>1,2</sup>, Aron Pazzin Andrade<sup>2</sup>, João Roberto Moro<sup>1</sup>, Eduardo Bock<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, <sup>2</sup>Instituto Dante Pazzanese de Cardiologia de São Paulo, <sup>3</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Synthesis of ZnO-RGO nanocomposites by rapid heating using microwave-hydrothermal** **D.P1.31**  
Fernanda da Costa Romeiro<sup>1</sup>, Juliane Zacour Marinho<sup>1</sup>, Edson Nossol<sup>1</sup>, Renata Cristina de Lima<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia
- 17:00 Piezoresistivity study of polyurethane/carbon black film composites** **D.P1.32**  
Eliraldrin Amorin de Sousa<sup>1</sup>, Elen Poliani Arlindo Fuzari, Gilberto Campos Fuzari Junior; <sup>1</sup>Universidade Federal do Mato Grosso do Sul
- 17:00 Composite films of poly(vinylidene fluoride) and carbon black** **D.P1.33**  
 Wellerson Davi Dos Santos Deniz, Eliraldrin Amorin de Sousa<sup>1</sup>, Elen Poliani Arlindo Fuzari, Walter Katsumi Sakamoto, Gilberto Campos Fuzari Junior; <sup>1</sup>Universidade Federal do Mato Grosso do Sul
- 17:00 Synthesis and characterization of graphene and graphene/nanoparticles composites obtained from graphene oxide reduction direct by the modified polyol process** **D.P1.34**  
Rebecca Faggion Albers<sup>1</sup>, Laudemir Carlos Varanda<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP

- 17:00 Preparation of magnetic iron oxide nanoparticles@carbon for adsorption of heavy metals** **D.P1.35**  
Francisco Holanda Júnior<sup>1</sup>, Odair Pastor Ferreira<sup>1</sup>, Laís Helena Vieira<sup>1</sup>, João Maria Soares<sup>2</sup>, Altair Benedito Moreira<sup>3</sup>, Márcia Cristina Bisinoti<sup>3</sup>, Camila Almeida Melo<sup>3</sup>, Larissa Otubo<sup>4</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Universidade do Estado do Rio Grande do Norte, <sup>3</sup>IBILCE Universidade Estadual Paulista, <sup>4</sup>Instituto de Perquisas Energéticas e Nucleares
- 17:00 Gamma radiation effects on fluoropolymer/MWCNT nanocomposites.** **D.P1.36**  
Cristina Angioletto Pozenato<sup>1</sup>, Sandra Regina Scagliusi<sup>1</sup>, Ademar Benévolo Lugão<sup>1</sup>; <sup>1</sup>Instituto de Perquisas Energéticas e Nucleares
- 17:00 Electrochemical characterization of the carbon paste electrode modified with BaTiO<sub>3</sub>** **D.P1.37**  
Silvio Rainho Teixeira<sup>1</sup>, Wesley Bruno da Silva Machini<sup>1</sup>, Renata da Silva Magalhães<sup>1</sup>, Marcos Fernando de Souza Teixeira<sup>1</sup>, Agda Eunice de Souza<sup>1</sup>, Celso Xavier Cardoso<sup>2</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>FCT-UNESP Campus de Presidente Prudente, <sup>3</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 17:00 Electrochemical detection o Epinephrine using boron doped diamond electrode cathodically pre-treated** **D.P1.38**  
Miria Almeida Souza<sup>1</sup>, Kamila Pereira de Amorim<sup>1</sup>, Leonardo Santos Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás - Regional Catalão
- 17:00 In vivo response of a 3D biocomposite composed of type I collagen, mineral trioxide aggregate (MTA) and carbon nanotubes for bone tissue regeneration** **D.P1.39**  
Thalita Marcolan Valverde<sup>1</sup>, Vanessa Barbosa Andrade<sup>1</sup>, Breno Rocha Barrioni<sup>1</sup>, Elisandra Gava Castro<sup>2</sup>, Victor Coutinho Bastos<sup>1</sup>, Máissa Helena Cardoso<sup>1</sup>, Marivalda Magalhães Pereira<sup>1</sup>, Gregory Thomas Kitten<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Universidade Federal de Goiás

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session D.OR4 (09:45 - 10:45) - Room L1

- 09:45 Functionalization and Dispersion of Carbon nanotubes and Graphenes for Fundamental Studies and Applications in Nanotechnology** D.OR4.11\*  
Clascidia A. Furtado<sup>1</sup>, Adelina Pinheiro Santos<sup>1</sup>, Max Passos Ferreira<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 10:15 Highly conductive and semi-transparent flexible thin films of multilayer graphene by modified Langmuir-Blodgett method**  
Stanislav Moshkalev<sup>1</sup>, Andrei Alaferdov<sup>1</sup>, Raluca Savu<sup>1</sup>, Simas Rackauskas<sup>1</sup>, Tatiana Rackauskas<sup>1</sup>, Alfredo Rodrigues Vaz<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 10:30 Preparation of Carbon Dots with High Photoluminescent Quantum Yields and Their Applications in Biochemical Analysis** D.OR4.13  
Cheng Zhi Huang<sup>1</sup>; <sup>1</sup>Southwest University China

#### Session D.OR5 (11:15 - 12:30) - Room L1

- 11:15 Building Multi-Functional Nano-Carbon Technologies** D.OR5.14\*  
S. Ravi P. Silva<sup>1</sup>; <sup>1</sup>University of Surrey
- 11:45 Gas sensors based on self-assembled composites of carbon nanotubes and conducting polymers.** D.OR5.15  
 Marcelo Eising<sup>1</sup>, CARLOS EDUARDO CAVA<sup>2</sup>, Rodrigo Villegas Salvatierra<sup>1</sup>, Aldo J.G. Zarbin<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Federal University of Paraná, <sup>2</sup>Universidade Tecnológica Federal do Paraná
- 12:00 Development of electrochemical sensor of glassy carbon electrode modified with hap-mwcnt composite by electrophoretic deposition for detection of trace cadmium** D.OR5.16  
Victor Raúl Jauja Ccana<sup>1</sup>, Adolfo La Rosa-Toro Gómez<sup>1</sup>, Golfer Muedas Taipe<sup>1</sup>; <sup>1</sup>Universidad Nacional de Ingeniería
- 12:15 Evaluation by computer simulation of the use of carbon nanotubes as caffeine carrier towards new devices for environmental pollution detection** D.OR5.17  
Daniela Nadvorný<sup>1</sup>, Roberto Dias Lins<sup>2</sup>, Savia Gavazza Pessoa<sup>1</sup>, Lourdinha Florencio<sup>1</sup>, Petrus d'Amorim Santa-Cruz<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Fundação Oswaldo Cruz - Centro de Pesquisa Aggeu Magalhães

#### Session D.OR6 (14:00 - 15:15) - Room L1

- 14:00 Graphene-elastomer thin-film composites** D.OR6.18  
Maria Iliut<sup>1</sup>, ARAVIND VIJAYARAGHAVAN<sup>1</sup>; <sup>1</sup>University of Manchester
- 14:15 Magneto-micro-Raman Spectroscopy in Graphene** D.OR6.19  
Fabio Machado Ardito<sup>1</sup>, Thiago Grasio Mendes-de-Sa<sup>2</sup>, Paulo Freitas Gomes<sup>3</sup>, Fernando Iikawa<sup>1</sup>, Marcos Assunção Pimenta<sup>2</sup>, Rodrigo Gribel Lacerda<sup>2</sup>, Eduardo Granado<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal de Minas Gerais, <sup>3</sup>Universidade Federal de Goiás - Campus de Jataí
- 14:30 Characterization, mechanical and thermochemical properties of 2D carbon-based nanomaterials studied by calorimetry and thermal analysis** D.OR6.20  
Kristina Lilova<sup>1</sup>, Link Brown<sup>1</sup>; <sup>1</sup>SETARAM Inc.
- 14:45 Transparent Large Area Flexible Electronics** D.OR6.21\*  
Arokia Nathan<sup>1</sup>; <sup>1</sup>Electrical Engineering Division, Cambridge University, UK

## Poster presentations

### Session D.P2 (17:00 - 19:00)

- 17:00 Manufacture of a unidirectional upward solidification device and thermal analysis of nickel alloy reinforced with carbon nanotubes** **D.P2.40**  
Lendel dos Santos Rodrigues<sup>1</sup>, Daniel Rodrigues Oliveira<sup>2</sup>, Luiz Gabriel Nascimento<sup>3</sup>, José Antonio da Silva Souza, Fernando Antônio de Sá<sup>4</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará, <sup>2</sup>Universidade Federal do Rio de Janeiro, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará, <sup>4</sup>Universidade Federal do Pará
- 17:00 Tailoring the nitrogen doping of graphene oxide** **D.P2.41**  
RICARDO RANGEL, RICARDO RANGEL, Juan José Alvarado, Patricia Quintana
- 17:00 Reduced graphene oxide as a compatibilizer for starch/poly(lactic acid) biodegradable blends** **D.P2.42**  
Willian Hermogenes Ferreira<sup>1</sup>, Cristina Tristão Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Shape transitions of carbon nanotubes using molecular dynamics** **D.P2.43**  
Rafael Rodrigues Del Grande<sup>1</sup>, Rodrigo B Capaz<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Theoretical model for evaluation of the adhesion of diamond-like carbon coatings** **D.P2.44**  
Leonardo Mathias Leidens<sup>1</sup>, Felipe Cemin<sup>1</sup>, Carlos Alejandro Figueroa<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul
- 17:00 Dissociation constants of graphene-derived materials as a tool to support targeted functionalization** **D.P2.45**  
Elisa S Orth<sup>1</sup>, Jéssica Eliza Silva Fonsaca<sup>1</sup>, José Guilherme Lopes Ferreira<sup>1</sup>, Sirlon Francisco Blaskievicz<sup>1</sup>, Sérgio H. Domingues<sup>2</sup>, Aldo J.G. Zarbin<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Presbiteriana Mackenzie
- 17:00 The Nanobomb** **D.P2.46**  
Vitaly V. Chaban<sup>1</sup>, Eudes Eterno Fileti<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Synthesis and characterization of nanocomposites of amorphous diamond-like carbon with addition of SiO<sub>2</sub> nanoparticles.** **D.P2.47**  
William Emanuel Silva Santos Viana<sup>1</sup>, Ésoly Madeleine Bento dos Santos<sup>2</sup>, Sérgio de Souza Camargo Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade Federal Fluminense
- 17:00 Entrapment of gold nanoparticles by chitosan-melamin films onto epoxy-graphite electrodes as surface modification strategy** **D.P2.48**  
André Luiz Maia Azevedo<sup>1</sup>, Felipe Silva Semaan<sup>1</sup>, Paulo Henrique Buzzetti<sup>1</sup>, Jonathan Ribeiro Campos<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 In vivo study of the DLC films deposition with and without silver nanoparticles on titanium alloy for use in joints prostheses.** **D.P2.49**  
Milagros del valle El Abras Ankha<sup>1</sup>, Maiara Penteadó Camaliente<sup>1</sup>, Alecsandro de Moura Silva<sup>1</sup>, Luana Marotta de Vasconcellos, Polyana Alves Radi Gonçalves<sup>2</sup>, Argemiro Sousa da Silva Sobrinho<sup>3</sup>, Lafayette Nogueira Junior<sup>1</sup>, Yasmin Rodarte Carvalho<sup>1</sup>; <sup>1</sup>INSTITUTO DE CIÊNCIAS E TECNOLOGIA - UNIVERSIDADE PAULISTA JULHO MESQUITA FILHO, <sup>2</sup>Universidade do Vale do Paraíba, <sup>3</sup>Instituto Tecnológico de Aeronáutica
- 17:00 High quality graphite oxide produced by Nacional de Grafite LTDA** **D.P2.50**  
Geraldo Magela Trindade<sup>1</sup>, Ueverson Barros Lima<sup>1</sup>, Antônio Sérgio Souza<sup>1</sup>, Viviane Alves Ferreira<sup>1</sup>, Cristiano Waldolato Alvares<sup>1</sup>, Clascídia A. Furtado<sup>2</sup>, Fernanda Vieira<sup>2</sup>, Marcos Assunção Pimenta<sup>3</sup>, Carmelo Jonas Cook<sup>1</sup>; <sup>1</sup>Empresa Nacional de Grafite LTDA, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>3</sup>Universidade Federal de Minas Gerais
- 17:00 Ionization of Cucurbiturils as a Pathway to More Stable Host-Guest Complexes** **D.P2.51**  
Vitaly V. Chaban<sup>1</sup>, Eudes Eterno Fileti<sup>1</sup>, Thaciana Malaspina<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 The use of interlayers prepared by TEOS for improving the adhesion of DLC on steel** **D.P2.52**  
Carla Daniela Boeira<sup>1</sup>, Leonardo Mathias Leidens<sup>1</sup>, Felipe Cemin<sup>1</sup>, Eigor Renato Petry<sup>1</sup>, Carlos Alejandro Figueroa<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul
- 17:00 Sensing Properties of a Carbon Xerogel-based Sensor for Detection of Acetone, Ethanol, and Methanol Vapors** **D.P2.53**  
Flávio Silva Dias<sup>1,2</sup>, Leticia Gazola Tartuci<sup>1</sup>, Honória de Fátima Gorgulho<sup>1</sup>, Wagner Souza Machado<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>INSTITUTO FEDERAL DA BAHIA
- 17:00 Doped tetrahedral amorphous carbon film deposited by magnetron sputtering** **D.P2.54**  
Fernando Guzmán<sup>1</sup>, Rodrigo Andrés Espinoza-Gonzalez<sup>1</sup>, Victor M Fuenzalida<sup>1</sup>; <sup>1</sup>Universidad de Chile

- 17:00 Study of the kinetics of curing silicone precursor of SiC in composite CRFC-SiC** **D.P2.55**  
Ronald Izidoro Reis<sup>1</sup>, Emerson Sarmiento Gonçalves<sup>1</sup>, Andreza de Moura Cardoso<sup>1</sup>, Luiz Claudio Pardini<sup>1</sup>; <sup>1</sup>Instituto de Aeronáutica e Espaço
- 17:00 Theoretical approach of electrostatic tribocharging in contact surfaces** **D.P2.56**  
Fernando Graniero Echeverrigaray<sup>1</sup>, Carlos Alejandro Figueroa<sup>1,2</sup>; <sup>1</sup>Universidade de Caxias do Sul, Centro de Ciências Exatas e da Tecnologia, Brazil, <sup>2</sup>Plasmar Tecnologia Ltda., Incubadora Tecnológica de Caxias do Sul, RS, Brazil
- 17:00 “Structural and Thermal Characterization of Composites Bisphenol-A Polycarbonate/Graphene Oxide”** **D.P2.57**  
Lucas Mendonça da Rocha Oliveira<sup>1</sup>, Caio M. Paranhos<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Preparation and thermal properties of HDPE/LLDPE blend-based with carbon nanotubes nanocomposites** **D.P2.58**  
Caroline Martins dos Santos<sup>1</sup>, Fabio Roberto Passador<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Evaluation of Mechanical and chemistry resistance of Carbon Fiber-reinforced Epoxy composite in contact with biodiesel** **D.P2.59**  
Silvana de Abreu Martins<sup>1</sup>, Neyda de la Caridad Om Tapanes<sup>1</sup>, Larissa Alves Ferreira Martins<sup>1</sup>, Roberto O. Azoy<sup>2</sup>, Rodolfo Salazar Perez<sup>3</sup>; <sup>1</sup>Centro Universitário Estadual da Zona Oeste, <sup>2</sup>Azoy Ferramentaria e Serviços, <sup>3</sup>Universidade Federal do Rio de Janeiro
- 17:00 Conjugated Polymer/Graphene Oxide Composite Thin Films: Mechanical and Optoelectronic Characterization** **D.P2.60**  
Lucas Ferreira Lima<sup>1</sup>, Carolina Ferreira De Matos<sup>1</sup>, Liliane Cristina Gonçalves<sup>1</sup>, Rodrigo Villegas Salvatierra<sup>1</sup>, Carlos Eduardo Cava<sup>2</sup>, Aldo J.G. Zarbin<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Tecnológica Federal do Paraná
- 17:00 A comprehensive kinetic study on the formation of nanocomposites of polyaniline/carbon nanotubes as thin films** **D.P2.61**  
Fabio Da Silva Lisboa<sup>1</sup>, VICTOR HUGO RODRIGUES DE SOUZA<sup>1</sup>, Elisa S Orth<sup>1</sup>, Aldo J.G. Zarbin<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná
- 17:00 Effect of nitrogen in the formation of nanostructured graphite from pyrolysis of amino acids at high pressures.** **D.P2.62**  
Maria Alexandra Puerto Medina<sup>1</sup>, Andréia Fernandes da Silva<sup>1</sup>, Jackeline Barbosa Brito, Tania Maria Haas Costa, João Alziro Herz da Jornada, Naira Maria Balzaretto; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Effect of hydrogen in the formation of carbon nanostructures by pyrolysis at high pressures and high temperatures** **D.P2.63**  
Andréia Fernandes da Silva<sup>1</sup>, Maria Alexandra Puerto Medina<sup>1</sup>, Jackeline Barbosa Brito<sup>1</sup>, Tania Maria Haas Costa<sup>1</sup>, João Alziro Herz da Jornada<sup>2</sup>, Naira Maria Balzaretto<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 17:00 Evaluation of the mechanical behavior of carbon fiber reinforced polymer using wood as a filler** **D.P2.64**  
Guilherme Kurz Maron<sup>1</sup>, Ricardo Marques e Silva<sup>1</sup>, Bruno Silveira NoreMBERG<sup>1</sup>, Oscar Giordani Paniz<sup>1</sup>, Igor José Cherubin<sup>1</sup>, Vinicius Gonçalves Deon<sup>1</sup>, Neftali Lenin Villarreal Carreño<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 17:00 Producing Luminescent Carbon Nanodots in silica matrix** **D.P2.65**  
Jackeline Barbosa Brito<sup>1</sup>, Andréia Fernandes da Silva<sup>1</sup>, Maria Alexandra Puerto Medina<sup>1</sup>, Tania Maria Haas Costa<sup>1</sup>, João Alziro Herz da Jornada<sup>2</sup>, Fabiano Severo Rodembusch<sup>1</sup>, Roberto Dos Reis<sup>3</sup>, Naira Maria Balzaretto<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>3</sup>Lawrence Berkeley National Laboratory
- 17:00 One-pot synthesis of a catalytic polymeric nanocomposite derived from graphene oxide functionalized with imidazole** **D.P2.66**  
Sirlon Francisco Blaskiewicz<sup>1</sup>, Elisa S Orth<sup>1</sup>, Aldo J.G. Zarbin<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná
- 17:00 Mass loss assessment in the precursor matrix of C-SiC used in the production of CRFC-SiC composite** **D.P2.67**  
Ronald Izidoro Reis<sup>1</sup>, Emerson Sarmiento Gonçalves<sup>1</sup>, Christian Frederico de Avila Von Dollinger<sup>1</sup>, Andreza de Moura Cardoso<sup>1</sup>, Luiz Claudio Pardini<sup>1</sup>; <sup>1</sup>Instituto de Aeronáutica e Espaço
- 17:00 Characterization of the level of impregnation of laminated Carbon Fiber NFC Resin / Epoxy Resin CYCOM890 using processing and analysis of images** **D.P2.68**  
Priscilla Pereira Cunha<sup>1</sup>, Tessie Gouvea Cruz<sup>1</sup>, Carlos Eduardo Rodrigues<sup>2</sup>, Maria Odila Cioffi<sup>2</sup>; <sup>1</sup>Universidade Federal Rural do Rio de Janeiro, <sup>2</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil

- 17:00 Folded bilayer graphene: structural properties** **D.P2.69**  
Monica de Mesquita Lacerda<sup>1,2</sup>, Ariane Viana<sup>1,2</sup>, Erlon Henrique Martins Ferreira<sup>2</sup>, Clara Muniz Almeida<sup>2</sup>, Marcus V.O. Moutinho<sup>3</sup>, Pedro Venezuela<sup>3</sup>, Rodrigo B Capaz<sup>1,2</sup>, Luiz Gustavo Cancado<sup>4,2</sup>, Carlos Alberto Achete<sup>1,2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>3</sup>Universidade Federal Fluminense, <sup>4</sup>Universidade Federal de Minas Gerais
- 17:00 Characterization of Portland cement manufactured with carbon nanotubes directly synthesized over clinker in a continuous process** **D.P2.70**  
Tarcizo Cruz Souza<sup>1</sup>, Jose Marcio F Calixto<sup>2</sup>, Luiz Orlando Ladeira<sup>2</sup>, Péter Ludvig<sup>3</sup>, Paulo Henrique Vaz Silva<sup>2</sup>; <sup>1</sup>CTNanotubos - Centro de Pesquisas em Nanotubos de Carbono, <sup>2</sup>Universidade Federal de Minas Gerais, <sup>3</sup>Centro Federal de Educação Tecnológica de Minas Gerais
- 17:00 Characterization of functionalized MWCNT and mechanical properties of epoxy resin-based composite** **D.P2.71**  
Wesley Francisco<sup>1</sup>, Filipe Vargas Ferreira<sup>1</sup>, Eduardo Vargas Ferreira<sup>2</sup>, Luciana de Simone Cividanes<sup>1</sup>, Aparecido R Coutinho<sup>3</sup>, Gilmar Patrocínio Thim<sup>1</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica, <sup>2</sup>Universidade Federal do Paraná, <sup>3</sup>Universidade Metodista de Piracicaba
- 17:00 Dispersibility study of functionalized carbon nanotube** **D.P2.72**  
 Filipe Vargas Ferreira<sup>1</sup>, Wesley Francisco<sup>1</sup>, Luciana de Simone Cividanes<sup>1</sup>, Aparecido R Coutinho<sup>2</sup>, Gilmar Patrocínio Thim<sup>1</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica, <sup>2</sup>Universidade Metodista de Piracicaba
- 17:00 Development of Polypropylene Nanocomposites with Magnetic CNTs** **D.P2.73**  
Juan Ramón Riquelme Irizar<sup>1</sup>, Cristhian Andrés Garzón<sup>1</sup>, Raul Quijada<sup>1</sup>, Carlos Pérez Bergmann; <sup>1</sup>Universidad de Chile
- 17:00 Studies on epoxy-carbon spheres nanocomposites for organic memory application** **D.P2.74**  
Irineu Hattenhauer<sup>1</sup>, Celso Araújo Duarte<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná
- 17:00 Electronic Structure Calculation of Twisted Multilayer Graphene** **D.P2.75**  
Adriana Lizeth Vela Peña<sup>1</sup>, Francisco Javier Culchac<sup>2</sup>, Rodrigo B Capaz<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 17:00 Carbon nanotube dispersion in polyurethane precursor evaluated by optical microscopy** **D.P2.76**  
Beatriz Araújo Abreu Diniz<sup>1</sup>, Felipe Luiz Queiroz Ferreira<sup>1,2</sup>, Glaura Goulart Silva<sup>1,2</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>CTNanotubos - Centro de Pesquisas em Nanotubos de Carbono
- 17:00 Diamond-like carbon nanodot arrays grown by pulsed laser deposition** **D.P2.77**  
Samuel Alejandro Hevia<sup>1,2</sup>, Fernando Guzman<sup>3</sup>, Pía Himm<sup>1</sup>, Isabel Muñoz<sup>1</sup>, Gonzalo Muñoz<sup>1</sup>, Hugo Marcelo Ruiz<sup>1</sup>, Luis Sebastián Caballero<sup>1</sup>, Marcos Flores<sup>3</sup>, Mario Favre<sup>1</sup>; <sup>1</sup>Pontificia Universidad Católica de Chile, <sup>2</sup>Centro de Investigación en Nanotecnología y Materiales Avanzados, <sup>3</sup>Universidad de Chile
- 17:00 EVALUATION OF PHYSICAL PROPERTIES OF COMPOSITE ALUMINA-YAG with AlNbO4 and YNbO4** **D.P2.78**  
Ricardo Freitas Cabral<sup>1,2</sup>, Marcelo Henrique Prado da Silva<sup>3</sup>, Eduardo Sousa Lima<sup>3</sup>; <sup>1</sup>Centro Universitário Geraldo Di Biase, <sup>2</sup>Centro Universitário de Volta Redonda, <sup>3</sup>Instituto Militar de Engenharia



## Wednesday, September 30th

### Poster presentations

#### Session D.P3 (17:00 - 19:00)

- 17:00 Evaluation of morphological aspects of composite Al<sub>2</sub>O<sub>3</sub>-Cu obtained by milling process and sintering** **D.P3.79**  
 TATIANE POTIGUARA OLIVEIRA<sup>1</sup>, Uílame Umbelino Gomes<sup>1</sup>, Franciné Alves Costa<sup>1</sup>, Raimison Bezerra de Assis<sup>1</sup>, Valter José Fernandes Junior<sup>1</sup>, Elione Moura Carlos<sup>1</sup>, Jean Carlos Dantas<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Durability of Portland cement pastes produced with carbon nanotubes** **D.P3.80**  
 José Marcio Calixto<sup>1</sup>, Lucas Ladeira<sup>1</sup>, Luiz Orlando Ladeira<sup>1</sup>, Tarcizo Cruz de Souza<sup>2</sup>, Paulo Henrique Vaz Silva<sup>2</sup>, Rodrigo Costa<sup>2</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>CTNanotubos - Centro de Pesquisas em Nanotubos de Carbono
- 17:00 Concrete Microstructure Study with Emphasis on Interfacial Transition Zone** **D.P3.81**  
 Maryanna Nobre Cavalcante<sup>1</sup>, Rodrigo Mero Sarmiento da Silva<sup>1</sup>, João Gilberto Texeira Silva<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 17:00 Alkali activated cement and concrete reinforced for steel fiber** **D.P3.82**  
Alisson Rios Silva<sup>1</sup>; <sup>1</sup>Centro Universitário Estadual da Zona Oeste
- 17:00 Polymer/Silica Nanocomposites obtained by RAFT-Mediated Emulsion Polymerization** **D.P3.83**  
 Anthony José Palmeira Galvão de França<sup>1</sup>, Thaíssa Camargo Chaparro<sup>1</sup>, Rodrigo Duarte Silva<sup>1</sup>, Gizelda Maria Alves<sup>1</sup>, Muriel Lansalot<sup>2</sup>, Elodie Bourgeat-Lami<sup>2</sup>, Amilton Martins Santos<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>2</sup>Université Claude-Bernard Lyon I
- 17:00 Radar-absorbent Material (RAM) based on a polyurethane composite, with different ratios of Fe<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub>.** **D.P3.84**  
Vinícius Martins Freire<sup>1</sup>, Viviane Lilian Soethe<sup>1</sup>, Rafael Gallina Delatorre<sup>1</sup>, Hugo Borges de Quadros<sup>2</sup>, Mirabel Cerqueira Rezende<sup>3</sup>, Moisés Luiz Parucker<sup>4</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Instituto Tecnológico de Aeronáutica, <sup>3</sup>Federal University of São Paulo, São José dos Campos-SP, Brazil, <sup>4</sup>Universidade Federal de Itajubá
- 17:00 Hybrid thin-films containing polyaniline and Polygorskite: LbL deposition and characterization** **D.P3.85**  
WANDERSON MARCELLUS PENHA COSTA, Carla Eiras, Emanuel Airton de Oliveira Farias, Paulo Teixeira, Ernane Freire, Leandro Miranda Santos, Edivaldo L. Queiróz, Edson Cavalcanti da Silva Filho
- 17:00 Synthesis and characterization of unsupported zinc oxide nanorods:graphene oxide composites** **D.P3.86**  
 Helton P. Nogueira, Laura Canal, Talita Mazon
- 17:00 Preparation of mesoporous materials using ionic liquid as the carbon source for the synthesis of new amphiphilic carbonaceous materials** **D.P3.87**  
Tatiana Aparecida Ribeiro dos Santos<sup>1</sup>, Luisa Emanuele Milagre<sup>1</sup>, Ana Paula Carvalho Teixeira<sup>1</sup>, Maria Helena Araujo<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Investigation of graphites and carbon nanotubes as cathodes in an electrochemical cavity cell** **D.P3.88**  
Eduardo Henrique Lago Falcão<sup>1</sup>, Luciana Santos de Oliveira<sup>1</sup>, Gabriel Neves, Janine Ferra Vieira de Almeida, Janine Ferra Vieira de Almeida; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Study of packaging conditions of ZnO nanorods:graphene oxide nanocomposites for energy harvesting application** **D.P3.89**  
Agnes Nascimento Simoes, Pei Jen Shieh, Nilsa Toyoko Azana, Talita Mazon
- 17:00 Electrophoretic deposition of zinc oxide nanostructures supported in graphene oxide sheets** **D.P3.90**  
Natalia Jacomaci<sup>1</sup>, Laura Canal, Pei Jen Shieh, Nilsa Toyoko Azana, Maria Aparecida Zaghete, Talita Mazon; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer
- 17:00 Burning Graphene Layer-by-Layer in a Controllable Way** **D.P3.91**  
 Victor Ermakov<sup>1</sup>, Andrei V. Alafetov<sup>1</sup>, Alfredo Rodrigues Vaz<sup>1</sup>, Eric Perim<sup>1</sup>, Pedro Alves Autreto<sup>1</sup>, Ricardo Paupitz<sup>2</sup>, Douglas Soares Galvão<sup>1</sup>, Stanislav Moshkalev<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Paulista - Campus Rio Claro

- 17:00 Study of the effect of high energy grind on morphological characterization of the Al<sub>2</sub>O<sub>3</sub> + Ni<sub>3</sub>% composite particle** **D.P3.92**  
Mariana Chianca Silva<sup>1</sup>, Samara Melo Valcacer<sup>2</sup>, Uilame Umbelino Gomes<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Instituto Federal de Mato Grosso do Sul
- 17:00 Reduced graphene oxide and TiO<sub>2</sub> nanoparticles composite as electrochemical capacitor** **D.P3.93**  
Blanca Azucena Gómez Rodríguez<sup>1</sup>, Viviana González Velázquez<sup>2</sup>, Erika Ketlem Gomes Trindade<sup>1</sup>, Amanda Oliveira<sup>1</sup>, Rosa Fireman Dutra<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidad Carlos III de Madrid
- 17:00 Thermodynamic modeling of carbon coating formation over iron-chromium alloys and the associated corrosion behavior under oxidative environments** **D.P3.94**  
Rogério Navarro Correia Siqueira<sup>1</sup>, Cecília Vilani<sup>1</sup>, Eric Cardona Romani<sup>1</sup>, Marcelo Eduardo Huguenin Maia da Costa<sup>1</sup>, José Brant de Campos<sup>2</sup>, Suzana Bottega Peripolli<sup>3</sup>, Lincoln Silva Gomes<sup>3</sup>, Dunieskys Roberto González Larrude<sup>4</sup>, Fernando Lazaro Freire Junior<sup>5</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>2</sup>Universidade do Estado do Rio de Janeiro, <sup>3</sup>Centro de Tecnologia SENAI Solda, <sup>4</sup>Universidade Mackenzie, <sup>5</sup>Departamento de Física (PUC-Rio)
- 17:00 Synthesis and Characterization of Horseradish Peroxidase/Poly(3-hydroxybenzoic acid)/Gold Nanoparticles-Carbon Nanotubes Modified Electrode for Detection of Hydrogen Peroxide** **D.P3.95**  
Lídia Manfrim Dias<sup>1</sup>, Jussara Vieira Silva<sup>1</sup>, Ana Graci Brito-Madurro<sup>1</sup>, João Marcos Madurro<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia
- 17:00 Novel one-pot in situ photochemical synthesis of carbon nanostructures/gold nanorods nanocomposites and their application in picomolar chemical analyses** **D.P3.96**  
Anderson De Jesus Caires<sup>1</sup>, Raissa Pieroni Vaz<sup>1</sup>, Diego CB Alves<sup>1</sup>, Andre S Ferlauto<sup>1</sup>, Cristiano Fantini<sup>1</sup>, Luiz Orlando Ladeira<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Electrocatalysts trimetallic of PtRhNi/C and PdRhNi/C for Ethylene glycol oxidation** **D.P3.97**  
Vera Lucia da Silva Marinho<sup>1,2</sup>, Raimundo Ribeiro Passos<sup>2</sup>, Vanessa Maria Ferreira de Araujo<sup>2</sup>, Leandro Aparecido Pocrifka<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, <sup>2</sup>Universidade Federal do Amazonas
- 17:00 Evaluation of modified graphene and nanocomposites based on poly(lactic acid)** **D.P3.98**  
Maria Clara Guimarães Pedrosa<sup>1</sup>, Emerson Oliveira da Silva<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro
- 17:00 Different purification methods of Carbon nanotubes growth by methane chemical vapor deposition on fluidized bed reactor at 800°C** **D.P3.99**  
Alexander Caytuero Villegas<sup>1</sup>, Hugo Alvarenga Oliveira, Dante Ferreira Franceschini, Fabio Barboza Passos; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Development of a carbon nanotubes paste electrode for ascorbic acid based on 4-nitroaniline adsorbed on silica gel modified with zirconium oxide** **D.P3.100**  
Mayrane Carla Nascimento<sup>1</sup>, JAILSON DOS SANTOS SILVA<sup>1</sup>, FERNANDO ALVES FERREIRA<sup>1</sup>, Sarah Kelly Melo Cavalcante<sup>1</sup>, Cristian Bernado da Silva<sup>1</sup>, Joab Serra Rodrigues da silva<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, Johnnatan Duarte de Freitas<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, Demetrius Pereira Morilla<sup>1</sup>, wilney de Jesus Rodrigues Santos<sup>1</sup>, Phabyanno Rodrigues Lima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 17:00 Graphite milling-phenomenon during sonication to graphite-glycol dispersions and its after effects under the thermal conductivity** **D.P3.101**  
Marcos Augusto Lima Nobre<sup>1</sup>, Bruno dos Santos Potensa<sup>1</sup>, Carlos Henrique Calixto<sup>1</sup>, Sylvania Lanfredi<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho"
- 17:00 Study of coal eucalyptus activated as promising inhibitor fouling** **D.P3.102**  
Flávia Melo de Lima<sup>1</sup>, Hena Lissa de Sousa Medeiros<sup>1</sup>, Vanessa Bezerra Vilela<sup>1</sup>, Renata Martins Braga<sup>1</sup>, Dulce Maria de Araújo Melo<sup>1</sup>, Alexandre Santos Pimenta<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>PETROBRAS
- 17:00 Electrocatalytic activity of activated ferulic acid on multi-walled carbon nanotubes glassy carbon electrode for determination of epinephrine** **D.P3.103**  
José Anderson Farias da Silva Bomfim<sup>1</sup>, Joab Serra Rodrigues da silva<sup>1</sup>, Sarah Kelly Melo Cavalcante<sup>1</sup>, Mayrane Carla Nascimento<sup>1</sup>, Cristian Bernado da Silva<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, Johnnatan Duarte de Freitas<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, wilney de Jesus Rodrigues Santos<sup>1</sup>, Marília Oliveira Fonseca Goulart<sup>2</sup>, CLEYLTON BEZERRA LOPES, Phabyanno Rodrigues Lima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas, <sup>2</sup>Universidade Federal de Alagoas
- 17:00 Effect of void content on mechanical properties of carbon/epoxy composites** **D.P3.104**  
Arthur Araújo Souza<sup>1</sup>, José Daniel Diniz Melo<sup>2</sup>, Maria Carolina Burgos Costa<sup>1</sup>, Ana Paula Cysne Barbosa<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Federal University of Rio Grande do Norte

- 17:00 Composite electrode consisting of MWCNTs/VTMS and imprinted sol-gel for the detection of nitroaniline** **D.P3.105**  
José Anderson Farias da Silva Bomfim<sup>1</sup>, FERNANDO ALVES FERREIRA<sup>1</sup>, JAILSON DOS SANTOS SILVA<sup>1</sup>, Joab Serra Rodrigues da silva<sup>1</sup>, Sarah Kelly Melo Cavalcante<sup>1</sup>, Mayrane Carla Nascimento<sup>1</sup>, Cristian Bernado da Silva<sup>1</sup>, Johnnatan Duarte de Freitas<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, wilney de Jesus Rodrigues Santos<sup>1</sup>, Phabyanno Rodrigues Lima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 17:00 Polymer Brush reinforced with Graphene Oxide** **D.P3.106**  
Lucas Custódio Recco<sup>1</sup>, Valber Albuquerque Pedrosa<sup>2</sup>; <sup>1</sup>Universidade Paulista Julio de Mesquita Filho, <sup>2</sup>Universidade Estadual Paulista
- 17:00 Characterization of a promising inhibitor fouling** **D.P3.107**  
Flávia Melo de Lima<sup>1</sup>, Hena Lissa de Sousa Medeiros<sup>1</sup>, Vanessa Bezerra Vilela<sup>1</sup>, Renata Martins Braga<sup>1</sup>, Dulce Maria de Araújo Melo<sup>1</sup>, Alexandre Santos Pimenta<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>PETROBRAS
- 17:00 Electrocatalysts trimetallic of PtRhNi/C and PdRhNi/C for Ethylene glycol oxidation** **D.P3.108**  
Vera Lucia da Silva Marinho<sup>1,2</sup>, Vanessa Maria Ferreira de Araujo<sup>2</sup>, Leandro Aparecido Pocrifka<sup>2</sup>, Raimundo Ribeiro Passos<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, <sup>2</sup>Universidade Federal do Amazonas
- 17:00 Comprehensive distinction into the morphological, chemical and structural characterization of graphite and graphene oxides** **D.P3.109**  
Raphael Verdan Curti<sup>1</sup>, Kelly Leite dos Santos Castro Assis<sup>1</sup>, Lídia Agata Sena<sup>1</sup>, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia

## Thursday, October 1st

### Poster presentations

#### Session D.P4 (09:45 - 11:45)

- 09:45 Study of thermal composite  $Al_2O_3$ -Cu on different levels of copper through thermogravimetry and differential scanning calorimetry** **D.P4.110**  
TATIANE POTIGUARA OLIVEIRA<sup>1</sup>, Elione Moura Carlos<sup>1</sup>, Uílame Umbelino Gomes<sup>1</sup>, Franciné Alves Costa<sup>1</sup>, Raimison Bezerra de Assis<sup>1</sup>, Valter José Fernandes Junior<sup>1</sup>, Jean Carlos Dantas<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 09:45 Synthesis and characterization of ceramic composites  $Al_2O_3$  - La/  $ZrO_2$  -  $Al_2O_3$**  **D.P4.111**  
Raimison Bezerra de Assis<sup>1</sup>, Patrícia Neves de Medeiros<sup>1</sup>, William Guterres Oliveira<sup>1</sup>, Tércio Graciano Machado<sup>1</sup>, Maurício Roberto Delmonte Bomio<sup>2</sup>, Carlos Alberto Paskocimas<sup>2</sup>, Elson Longo<sup>3</sup>, Fabiana Villela da Motta<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia da Bahia, <sup>2</sup>Universidade Federal do Rio Grande do Norte, <sup>3</sup>UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO"
- 09:45 Poly(methyl methacrylate) reinforced with layered hydroxide salt nanocomposites: Synthesis in situ and characterization.** **D.P4.112**  
Rodrigo Botan<sup>1</sup>, Sabrina de Bona Sartor<sup>1</sup>, Liliane Maria Ferrareso Lona<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 09:45 Two-Step Sintering and Characterization of Submicron Zirconia-(0-15 vol%) Alumina Composites** **D.P4.113**  
 Raphael Euclides Prestes Salem<sup>1,2</sup>, Fábulo Ribeiro Monteiro<sup>3</sup>, Adriana Scoton Chinelatto<sup>3</sup>, Adilson Luiz Chinelatto<sup>3</sup>, Elíria Maria de Jesus Agnolon Pallone<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade Tecnológica Federal do Paraná, <sup>3</sup>Universidade Estadual de Ponta Grossa
- 09:45 Preparation and thermal characterization of UHMW-PE/LLDPE blends** **D.P4.114**  
Bruna Cristina da Silva<sup>1</sup>, Fabio Roberto Passador<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 09:45 Use the residue to produce bacterial nanocellulose** **D.P4.115**  
Giovana Roberta Francisco Bronzato<sup>1</sup>, Jéssica Florentino<sup>1</sup>, Djanira Rodrigues Negrão<sup>2</sup>, Rita de Cássia da Silva<sup>1</sup>, Marcia Rodrigues de Moraes Chaves<sup>3</sup>, Ivana Cesarino<sup>1</sup>, Alcides Lopes Leao<sup>1</sup>; <sup>1</sup>Faculdade Ciências Agrômicas-UNESP, <sup>2</sup>CENTRO DE ENERGIA NUCLEAR NA AGRICULTURA/USP, <sup>3</sup>Universidade do Sagrado Coração
- 09:45 Biomimetic synthesis of hybrid dendrimers encapsulated nanoparticles/microorganisms** **D.P4.116**  
leonardo ribeiro teles<sup>1</sup>, Marcos Malta dos Santos<sup>1</sup>, Regina Maria Geris dos Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Bahia
- 09:45  $NaNbO_3$ /PVDF composites: Influence of  $NaNbO_3$  particles on the electrical and optical properties** **D.P4.117**  
Guilhermina Ferreira Teixeira<sup>1</sup>, Rafael Amoresi Ciola<sup>1</sup>, Thiago Rago Wright<sup>1</sup>, Maria Aparecida Zaghete<sup>1</sup>, Elson Longo<sup>1</sup>, José A. Varela<sup>1</sup>; <sup>1</sup>Instituto de Química de Araraquara
- 09:45 Preparation of hybrid materials of cellulose polyaniline and silver nanoparticles** **D.P4.118**  
Fernanda Ferraz Camilo<sup>1</sup>, Roselaine S. Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, Diadema, SP, Brazil
- 09:45 Evaluation of clay addition on WPC mechanical properties** **D.P4.119**  
Mário A.B.S. Nunes, Ana Flávia Felix Farias, Iêda Maria Garcia Santos, Eliton Souto Medeiros, Juliano Elvis Oliveira, Fabiana Villela da Motta, SEVERINO JACKSON GUEDES, Antonio Gouveia Souza, Amélia Severino Ferreira e Santos
- 09:45 Composites of Poly (3-Hydroxybutyrate), PHB, Reinforced with Mallow Fibers (*Urena lobata*) Chemically Treated** **D.P4.120**  
Priscila Ferreira de Oliveira<sup>1</sup>, Maria de Fátima Vieira Marques<sup>1</sup>, Rafael Silva Araújo<sup>1</sup>, Allison Gonçalves Silva<sup>2</sup>; <sup>1</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ, Rio de Janeiro- RJ/Brazil, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia da Bahia
- 09:45 Development of electrical conductive cross-linked polymeric matrices of PVA mixed with PANi** **D.P4.121**  
 LUIS CARLOS DE MORAIS<sup>1</sup>, Arthur Tadeu Freitas de Almeida Araújo<sup>1</sup>, Julia yumi Hiraici<sup>1</sup>, Talita Perez<sup>1</sup>, Luiza Carolina Pomarolli<sup>1</sup>, Ana Laura de Azevedo<sup>1</sup>, Bianca Tainá Ferreira<sup>1</sup>, Thamiros Mariano<sup>1</sup>, Daniel Alves Cerqueira<sup>1</sup>, Daniel Pasquini<sup>2</sup>, Thiago Sanchez Moraes<sup>3</sup>; <sup>1</sup>Universidade Federal do Triângulo Mineiro, <sup>2</sup>Universidade Federal de Uberlândia, <sup>3</sup>External Partner in Research and Technological Development
- 09:45 Glass/Epoxy Composite: Exothermic Behavior During Cure** **D.P4.122**  
Vanesa Mitchell Ferrari<sup>1</sup>, Bruna Carolina Lima<sup>1</sup>, Marcelo Gonçalves<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba

- 09:45 Morphological Study of Alumina Modified-Silica Composites with Embedded Nickel Nanoparticles** **D.P4.123**  
Tiziana Azario de Medeiros, danielly nascimento morais<sup>1</sup>, Rafael Aparecido Ciola Amoresi, Jusinei Meireles Stropa, Margarete Soares Silva, Alberto Adriano Cavalheiro<sup>1</sup>; <sup>1</sup>Universidade Estadual de Mato Grosso do Sul
- 09:45 Synthesis and Characterization of Nickel Embedded Silica-Alumina Composite by Modified Polymeric Precursor Method** **D.P4.124**  
danielly nascimento morais<sup>1</sup>, Tiziana Azario de Medeiros<sup>1</sup>, Rafael Aparecido Ciola Amoresi<sup>2</sup>, Jusinei Meireles Stropa<sup>3</sup>, Margarete Soares Silva<sup>1</sup>, Alberto Adriano Cavalheiro<sup>1</sup>; <sup>1</sup>Universidade Estadual de Mato Grosso do Sul, <sup>2</sup>Faculdade de Ciências Agrárias e Veterinárias de Jaboticabal, <sup>3</sup>Universidade Federal de Mato Grosso do Sul
- 09:45 Correlation of interparticle distance, conductivity and percolation threshold on NiO/PVDF composites** **D.P4.125**  
 Rafael Aparecido Ciola Amoresi, Anderson André Felix, Guilhermina Ferreira Teixeira, Natalia Jacomaci, Andrelson Wellington Rinaldi, Nelson Luis de Campos Domingues, Eriton Rodrigo Botero, Evaristo Alexandre Falcão, Maria Aparecida Zaghete
- 09:45 Application of nanocomposite hydrogels to improve germination and seedling quality.** **D.P4.126**  
UILIAN GABALDI YONEZAWA<sup>1</sup>, Fauze Ahmad Aouada<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Campus de Ilha Solteira
- 09:45 An inorganofunctionalized spongolite with Zr(IV): Preparation, Characterization and a Voltammetric Application for Determination of Nitrite** **D.P4.127**  
Tayla Fernanda Serantoni da Silveira<sup>1</sup>, Devaney Ribeiro do Carmo<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Ilha Solteira
- 09:45 Effect of functionalization of silica with ionic liquids on epoxy/silica composites** **D.P4.128**  
ADRIANA DOS ANJOS SILVA<sup>1</sup>, Bluma Guenther Soares<sup>2</sup>, Deborah Barros<sup>3</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ, Rio de Janeiro-RJ/Brazil, <sup>3</sup>Universidade Federal do Rio de Janeiro
- 09:45 Hybrid composites reinforced with sisal fibers and jute fibers with 15mm length: Analyze traction mechanics** **D.P4.129**  
Alessandro José Gomes dos Santos<sup>1</sup>, Felipe Pinheiro Teixeira<sup>1</sup>, Mauricio Maia Ribeiro<sup>1</sup>, José Emilio Medeiros dos Santos<sup>1</sup>, Roberto Tetsuo Fujiyama<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 09:45 Polymer encapsulation of smectite clays by RAFT-mediated emulsion polymerization** **D.P4.130**  
Rodrigo Duarte Silva<sup>1</sup>, Thaissa Camargo Chaparro<sup>1</sup>, Ana Barros-Timmons<sup>2</sup>, Franck D'Agosto<sup>3</sup>, Muriel Lansalot<sup>3</sup>, Elodie Bourgeat-Lami<sup>3</sup>, Amilton Martins Santos<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>2</sup>Universidade de Aveiro, <sup>3</sup>Université Claude-Bernard Lyon I
- 09:45 Study of the mechanical behavior of polymer composites reinforced with fibers bamboo (*Bambusa vulgaris*) before and after Mercerization** **D.P4.131**  
Wilker Costa de Oliveira<sup>1</sup>, Paulo Cesar Reis Filho<sup>1</sup>, Hilbenaria Mercedes Santos<sup>1</sup>, Dayane Antunes Coimbra<sup>1</sup>, Márcio Paulo Araújo Mafra<sup>2,1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará, <sup>2</sup>Universidade Federal do Pará
- 09:45 Microstructural characterization of self-lubricating sintered nickel composites.** **D.P4.132**  
Moisés Luiz Parucker<sup>1</sup>, Aloísio Augusto Efrain dos Santos Ferreira<sup>1</sup>, Viviane Lilian Soehete<sup>2</sup>, CESAR EDIL DA Costa<sup>3</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA, <sup>3</sup>Fundação Universidade do Estado de Santa Catarina
- 09:45 Polycrystalline NiO/NiMn<sub>2</sub>O<sub>4</sub> composite: Synthesis, structural characterization, and exchange bias effect.** **D.P4.133**  
Alex Junior de Freitas Cabral<sup>1</sup>, Jilder Dandy Peña Serna<sup>2</sup>, Benjamin Rache Salles<sup>2</sup>, Miguel Alexandre Novak<sup>2</sup>, Andre Luiz Pinto<sup>3</sup>, Cláudio M.R. Remédios<sup>4</sup>; <sup>1</sup>Universidade Federal do Oeste do Pará, <sup>2</sup>Universidade Federal do Rio de Janeiro, <sup>3</sup>Centro Brasileiro de Pesquisas Físicas, <sup>4</sup>Universidade Federal do Pará
- 09:45 Influence of bentonite concentration and drying technique for obtaining nanocomposite polymer as encapsulating matrix for entomopathogenic agent** **D.P4.134**  
Diogo Porpino Cordeiro Batista<sup>1</sup>, Rafael da Silva Souza<sup>1</sup>, Ingrid Vieira Fernandes Monteiro<sup>1</sup>, Maria Cristina Delgado da Silva<sup>1</sup>, Cantídio Francisco de Lima-Neto<sup>1</sup>, Ana Rúbia Batista Ribeiro<sup>1</sup>, Eduardo Jorge da Silva Fonseca<sup>1</sup>, Jailma Barros dos Santos<sup>1</sup>, Luciano Aparecido Meireles Grillo<sup>1</sup>, Camila Braga Dornelas<sup>1</sup>; <sup>1</sup>Universidade Federal de Alagoas
- 09:45 Study of toughening of ABS copolymer with copolymer block SBS** **D.P4.135**  
Jéssica Helisa Hautrive Rossato<sup>1</sup>, Marcelo Rodrigues Melo<sup>1</sup>, Everaldo Carlos Venancio<sup>1</sup>, Gerson Luiz Mantovani<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 09:45 Purification process of Kraft lignin by acid-water washing for application in advanced materials** **D.P4.136**  
 Otavio Augusto Titton Dias<sup>1</sup>, Djanira Rodrigues Negrão<sup>2</sup>, Larisa Baldo Arruda<sup>3</sup>, Alcides Lopes Leao<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - FCA/Câmpus de Botucatu, <sup>2</sup>CENTRO DE ENERGIA NUCLEAR NA AGRICULTURA/USP, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - UNESP, Bauru

- 09:45 Use of polyaniline/alginate/Fe<sub>3</sub>O<sub>4</sub> magnetic hybrid composite for the removal of Cr (VI) ions from aqueous media** **D.P4.137**  
Juan Carlos Medina Llamas<sup>1</sup>, Alicia Elizabeth Chávez Guajardo<sup>1</sup>, José Jarib Alcaraz Espinoza<sup>1</sup>, Rafael Ramos da Silva<sup>1</sup>, Maria Danielly Lima de Oliveira<sup>1</sup>, Alexandre Ricalde Rodrigues<sup>1</sup>, César Augusto Souza de Andrade<sup>1</sup>, Celso Pinto de Melo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 09:45 Palygorskite and Polyaniline a conducting composite: synthesis and characterization** **D.P4.138** **D**  
WANDERSON MARCELLUS PENHA COSTA, Carla Eiras, Leandro Miranda Santos, Emanuel Airton de Oliveira Farias, Ernane Freire, Paulo Teixeira, Edson Cavalcanti da Silva Filho, Edson Cavalcanti da Silva Filho, Edivaldo L. Queiróz
- 09:45 Electrical, thermal and morphological properties of polyamide-6,6/polyaniline blends** **D.P4.139**  
Eluise Sobral Lopes<sup>1,2</sup>, Rodrigo de Santis Neves<sup>2</sup>, Fernando Gomes de Souza Junior<sup>3</sup>, Kátia Regina Souza<sup>4</sup>, Braulio Soares Archanjo<sup>2</sup>, Joyce Rodrigues Araujo<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>3</sup>Instituto de Macromoléculas Professora Eloisa Mano - UFRJ, <sup>4</sup>Instituto Militar de Engenharia
- 09:45 Characterization of Poly(ε-caprolactone) Nanofibers Containing Silver Nanoparticles** **D.P4.140**  
Rodrigo Guerreiro Fontoura Costa<sup>1</sup>, Alessandra Alves Correa<sup>2</sup>, Cauê Ribeiro Oliveira<sup>1</sup>, Luiz Henrique Capparelli Mattoso<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 09:45 Scaling laws analysis applied on polymer surfaces treated by non-thermal plasma** **D.P4.141**  
MARTA ELISA ROSSO DOTTO<sup>1</sup>, Taís Felix<sup>1</sup>, Luis Otávio de Brito Benetoli<sup>1</sup>, Nito Angelo Debacher<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA
- 09:45 Effect of ageing on microstructure and mechanical properties of composite polyamide 6/glass fiber/montmorillonite** **D.P4.142**  
Monize Aparecida Martins<sup>1</sup>, Jair Fiori Junior<sup>2</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense, <sup>2</sup>FACULDADE DE ITAPIRANGA
- 09:45 Study and development of a self-healing asphalt based composite using industrial waste product and microwave heating** **D.P4.143**  
Marília Brykalski<sup>1</sup>, Leonardo Andrade Costa<sup>1</sup>, Monica Regina Garcez<sup>2</sup>, Antonio Shigueaki Takimi<sup>2</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Universidade Federal do Rio Grande do Sul
- 09:45 Study of reinforced properties in epoxy/textile fiber composite** **D.P4.144**  
Mateus Kurten<sup>1</sup>, Alberto Vieira da Silva<sup>1</sup>, Leticia Quinello Pereira<sup>1</sup>; <sup>1</sup>Senai Cetiqt
- 09:45 Comparative analysis of the influence of pre-treatment of WC-9%Co substrate on the adhesion of CVD diamond films** **D.P4.145**  
 Laura Ardila Rodriguez<sup>1</sup>, José Vieira<sup>2</sup>, Mariana Amorim Fraga<sup>2</sup>, Vladimir Jesus Trava-Airoldi<sup>2</sup>; <sup>1</sup>Federal University of São Paulo, São José dos Campos-SP, Brazil, <sup>2</sup>Instituto Nacional de Pesquisas Espaciais
- 09:45 Micro-Raman investigation of the coupling degree between metal substrate and graphene monolayers deposited by CVD on Cu foil** **D.P4.146**  
 Gino Mariotto<sup>1</sup>, Enzo Cazzanelli<sup>1</sup>, Marcos Castriota<sup>1</sup>, Angela Fasanella<sup>1</sup>, Raffaele Agostino<sup>1</sup>, Marco Giarola<sup>1</sup>; <sup>1</sup>Dipartimento di Informatica, Università di Verona
- 09:45 Effects of accelerated aging on epoxy** **D.P4.147**  
Ana Paula Pereira Fulco<sup>1</sup>, Ana Paula Cysne Barbosa<sup>1</sup>, Érick Stefano Silveira Guerra<sup>1</sup>, Maria Carolina Burgos Costa<sup>1</sup>, José Daniel Diniz Melo<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte







## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### *Session E.OR1 (09:45 - 10:45) - Room E*

- 09:45 RMB: The New Brazilian Multipurpose Research Reactor** **E.OR1.1\***  
Jose Augusto Perrotta<sup>1</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares
- 10:15 Neutron Scattering as a Probe for Materials Science** **E.OR1.2\***  
Eduardo Granado<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

#### *Session E.OR2 (11:15 - 12:30) - Room E*

- 11:15 Using neutron as a probe to study correlated electron materials** **E.OR2.3\***  
Pengcheng Dai<sup>1</sup>; <sup>1</sup>Rice University
- 11:45 Crystal and Magnetic Structures of  $\text{Ba}_{(1-x)}\text{La}_x\text{Ti}_{1/2}\text{Mn}_{1/2}\text{O}_3$  ( $x = 0.0, 0.5, 0.9$  and  $0.1$ )** **E.OR2.4**  
Ulisses Ferreira Kaneko<sup>1</sup>, Raimundo Lora Serrano<sup>2</sup>, Markus Hölzel<sup>3</sup>, Eduardo Granado<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal de Uberlândia, <sup>3</sup>Forschungsneutronenquelle Heinz Maier-Leibnit
- 12:00 Small Angle Neutron Scattering: A powerful tool for investigating nanosystems** **E.OR2.5\***  
Cristiano Luís Pinto de Oliveira<sup>1</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo

### Poster presentations

#### *Session E.P1 (17:00 - 19:00)*

- 17:00 Study of magnetic nanoparticles of cobalt ferrite using Neutron** **E.P1.1**  
Priscyla Lima de Andrade<sup>1</sup>, Juscelino B. Leão<sup>2</sup>, Kathryn Krycka<sup>2</sup>, Joseph Dura<sup>2</sup>, Maria da Paz Carvalho da Silva<sup>3</sup>, José Albino Aguiar<sup>3</sup>; <sup>1</sup>Faculdade Boa Viagem, <sup>2</sup>National Institute of Standards and Technology, <sup>3</sup>Universidade Federal de Pernambuco
- 17:00 Structural and magnetic properties of  $\text{Ca}_2\text{MnReO}_6$  as a function of temperature: a neutron diffraction study** **E.P1.2**  
Arthur Sant'Ana Cavichini<sup>1</sup>, Eduardo Granado<sup>2</sup>, Marcos Tadeu D'Azeredo Orlando<sup>1</sup>, Janaina Bastos Depianti<sup>1</sup>, Jose Luis Passamai Jr<sup>1</sup>; <sup>1</sup>Universidade Federal do Espírito Santo, <sup>2</sup>Universidade Estadual de Campinas
- 17:00 Contribution of the Symmetric Hemi-Lateral Distortion of Pentagonal Sites Coordinated by Niobium Polyhedra in Niobate to the Thermal Stability of Crystalline Lattice: an Analysis by Neutron Diffraction** **E.P1.3**  
Silvania Lanfredi<sup>1</sup>, Celine Darie<sup>2</sup>, Claire V Colin<sup>2</sup>, Marcos Augusto Lima Nobre<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente, <sup>2</sup>Université Joseph Fourier Grenoble 1



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session F.OR1 (09:45 - 10:45) - Room 10

**09:45 Potencialities of SAXS to correlate Nanostructure and Properties of Polymer-based Hybrid Nanocomposites for Technological Applications** F.OR1.1\*

Karim DAHMOUCHE<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

**10:15 Synthesis of Ag NPs via chemical reduction and preparation of waterborne poly(urethane urea) nanocomposite films** F.OR1.2

Antoniél Carlos Carolino Campos<sup>1</sup>, Estela Mary de Sá<sup>2</sup>, Gisele dos Santos Miranda<sup>1</sup>, Marcia Cerqueira Delpech<sup>1</sup>, Ricardo AF Machado<sup>2</sup>, Rodrigo Azevedo Reis<sup>1</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro, <sup>2</sup>Universidade Federal de Santa Catarina

**10:30 Multivariate SAXS Profiles Analysis Applied to Synthesis of Mixed-Structured Silica from SiCl<sub>4</sub> by Sol-gel Method** F.OR1.3

Yolice Patricia Moreno Ruiz<sup>1</sup>, João Henrique Zimnoch dos Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

#### Session F.OR2 (11:15 - 12:30) - Room 10

**11:15 Sirius, the new Brazilian Synchrotron Light Source** F.OR2.4\*

Antônio José Roque da Silva<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron

**11:45 Surface modified Zn based QDs: structure and optical properties** F.OR2.5

Eloísa Berbel Manaia<sup>1</sup>, Renata Cristina Kiatkoski Kaminski<sup>2</sup>, Claudie Bourgaux<sup>3</sup>, Leila Aparecida Chiavacci<sup>1</sup>; <sup>1</sup>Faculdade de Ciências Farmacêuticas - Unesp Araraquara, <sup>2</sup>Universidade Federal de Sergipe, <sup>3</sup>Université Paris Sud

**12:00 Unveiling the mesostructure of liposome/pDNA and liposome/hyaluronic acid complexes using SAXS** F.OR2.6

Antonio Augusto Malfatti Gasperini<sup>1</sup>, Ximena Elizabeth Puentes<sup>1</sup>, Tiago Albertini Albino<sup>2</sup>, Alexandre Cassago<sup>3</sup>, Rodrigo Villares Portugal<sup>3</sup>, Lucimara de La Torre<sup>2</sup>, Leide Cavalcanti<sup>2</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Laboratório Nacional de Nanotecnologia

**12:15 Development of spectral ct based on Medipix3 detectors for material identification** F.OR2.7

Jean Rinkel<sup>1</sup>, Debora Magalhaes<sup>1</sup>, Alexandre Lo Bianco Santos<sup>1</sup>, Eduardo Xavier Miqueles<sup>1</sup>; <sup>1</sup>Centro Nacional de Pesquisa em Energia e Materiais

#### Session F.OR3 (14:00 - 15:15) - Room 10

**14:00 X-ray Absorption Spectroscopy Applied to Materials Science: ferroelectric ceramics, glassy and nanostructured oxide materials.** F.OR3.8\*

Valmor Roberto Mastelaro<sup>1</sup>; <sup>1</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP

**14:30 XAS/Raman combined in situ and operando study from catalyst activation to deactivation during ethanol steam reforming reaction** F.OR3.9

Aline Ribeiro Passos<sup>1,2</sup>, Leandro Martins<sup>2</sup>, Sandra Helena Pulcinelli<sup>2</sup>, Valérie Briois<sup>1</sup>, Celso Valentim Santilli<sup>2</sup>; <sup>1</sup>Synchrotron SOLEIL, <sup>2</sup>Instituto de Química - UNESP Araraquara

**14:45 The mechanism of electrostatic doping on YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> thin films investigated by X-ray absorption spectroscopy** F.OR3.10

Pedro Schio de Noronha Muniz<sup>1,2</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron, <sup>2</sup>Centro Nacional de Pesquisa em Energia e Materiais

**15:00 Understanding fire retardant action on polymers by in situ XAS** F.OR3.11

Hudson Wallace Pereira Carvalho<sup>1</sup>, Celso Valentim Santilli<sup>2</sup>, Fabrice Leroux<sup>3</sup>, Sandra Helena Pucinelli<sup>2</sup>, Valérie Briois<sup>4</sup>; <sup>1</sup>CENTRO DE ENERGIA NUCLEAR NA AGRICULTURA/USP, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>3</sup>Université Clermont-Ferrand 2 Blaise Pascal, <sup>4</sup>Synchrotron SOLEIL

## Poster presentations

### Session F.P1 (17:00 - 19:00)

- 17:00 Organic-inorganic hybrids containing cerium and silver compounds : nanostructure evolution during release and antibacterial activity** **F.P1.1**  
Laurianne Truffault<sup>1</sup>, Danilo Fernando Rodrigues<sup>2</sup>, Hérica Regina Nunes Salgado<sup>2</sup>, Celso Valentim Santilli<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Universidade Estadual Paulista
- 17:00 Oriented mesoporous materials from zirconia liquid crystal templates** **F.P1.2**  
Fernanda Gabriel Freitas<sup>1</sup>, Carlos Henrique Aparecido Alves Moris<sup>1</sup>, Celso Valentim Santilli<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Effects of Nanosilicas on Generation of Hydrophobic Surface From Structured-Mixed Silica Using Sol-Gel Process** **F.P1.3**  
Yolice Patricia Moreno Ruiz<sup>1</sup>, Mateus Borba Cardoso<sup>2</sup>, Edwin A. Moncada<sup>3</sup>, João Henrique Zimnoch dos Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Laboratório Nacional de Luz Síncrotron, <sup>3</sup>Instituto Tecnológico Metropolitano
- 17:00 Fast X-ray powder diffraction of heavy-element materials on XRD1 beamline at LNLS** **F.P1.4**  
Alexandre Magnus Gomes Carvalho<sup>1</sup>, Rafael Silva Nunes<sup>1</sup>, Adelino de Aguiar Coelho<sup>2</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron, <sup>2</sup>Universidade Estadual de Campinas
- 17:00 Composition and structure of urinary stones by synchrotron x-ray diffraction and x-ray microtomography: a preliminary study** **F.P1.5**  
Leticia Kuplich<sup>1</sup>, Marcos Vinicius Colaço<sup>1</sup>, Liebert Pereira Nogueira<sup>1</sup>, Elder Cardoso de Oliveira<sup>1</sup>, Fabricio Borges Carrerette<sup>1</sup>, Fanny Nascimento Costa<sup>2</sup>, Roosevelt Droppa Jr.<sup>2</sup>, Delson Braz<sup>3</sup>, Giuliana Tromba<sup>4</sup>, Regina Cély Barroso<sup>1</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro, <sup>2</sup>Universidade Federal do ABC, <sup>3</sup>Universidade Federal do Rio de Janeiro, <sup>4</sup>Sincrotrone Trieste SCpA
- 17:00 SAXS of micelles with different substituents on the head of the cethylammonium surfactant** **F.P1.6**  
Pedro Paulo Modesto Neto<sup>1</sup>, Ana Flavia Pinheiro de Campos<sup>2</sup>, Aurélia Retiella Oliveira Ferreira<sup>2</sup>, Isabella Pereira Alkimim<sup>2</sup>, Jailson Arruda de Araújo<sup>2</sup>, Laura Lorena da Silva<sup>2</sup>, Iago W. Zapelini<sup>2</sup>, Dilson Cardoso<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Multifunctional magnetic hybrid materials for drug delivery systems** **F.P1.7**  
Bruno Leonardo Caetano, Clement Guibert<sup>1</sup>, Jerome Fresnais<sup>1</sup>, Sandra Helena Pulcinelli<sup>2</sup>, Christine Ménager<sup>1</sup>, Celso Valentim Santilli<sup>2</sup>; <sup>1</sup>Université Paris 6 Pierre and Marie Curie, <sup>2</sup>Instituto de Química de Araraquara
- 17:00 SAXS study of the nanostructure and swelling process of ureasil-PEO hybrid materials with chitosan addition** **F.P1.8**  
Mayté Paredes<sup>1,2</sup>, Celso Valentim Santilli<sup>2</sup>, Sandra Helena Pulcinelli<sup>2</sup>; <sup>1</sup>Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear, <sup>2</sup>Instituto de Química - UNESP
- 17:00 Genesis of gold nanoparticles: nucleation, growth and stabilisation studies.** **F.P1.9**  
Ana Flávia Suzana<sup>1,2</sup>, Stéphanie Blanchandin<sup>3</sup>, Valérie Briois<sup>3</sup>, Celso Valentim Santilli<sup>2</sup>, Florian Meneau<sup>1</sup>, Sandra Helena Pulcinelli<sup>2</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>3</sup>Synchrotron SOLEIL
- 17:00 Effects of Li<sup>+</sup> doping on the structure and conductivity of Siloxane-Polyether hybrid blends** **F.P1.10**  
Gustavo Palacio<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>, Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP
- 17:00 Control of the Reduction properties of CeO<sub>2</sub> Using Metallic Nanoparticles** **F.P1.11**  
Alisson Steffli Thill<sup>1</sup>, Leandro Luza<sup>1</sup>, Jairton Dupont<sup>1</sup>, Fabiano Bernardi<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 CATERETÊ: The Coherent and Time-Resolved X-ray Scattering Beamline at The Brazilian light source SIRIUS** **F.P1.12**  
Florian Meneau<sup>1</sup>, Bernd Meyer<sup>1</sup>, Jean Rinkel, Joacir Santos<sup>1</sup>, Tiago Kalile<sup>1</sup>, Mateus Borba Cardoso, Harry Westfahl Jr<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron
- 17:00 X-ray absorption studies and f-level occupancy in Ce<sub>2</sub>Rh<sub>(1-x)</sub>Ir<sub>x</sub>In<sub>8</sub>** **F.P1.13**  
Raimundo Lora Serrano<sup>1</sup>, Nilmar Silva Camilo<sup>1</sup>, Cris Adriano<sup>2</sup>, Leandro Felix Bufaiçal<sup>3</sup>, Pascoal G. Pagliuso<sup>2</sup>; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Universidade Federal de Goiás

**17:00 In situ synchrotron scattering studies of the crystallization kinetic of the drop-casting organic-inorganic hybrid perovskite film F.P1.14**

Chun-Yu Chang<sup>1</sup>, Cheng-Si Tsao<sup>2</sup>, Yu-Ching Huang<sup>2</sup>, Wei-Fang Su<sup>1</sup>; <sup>1</sup>National Taiwan University, <sup>2</sup>Institute of Nuclear Energy Research

**17:00 Effect of solvent quality and pH on swelling behaviour of amino-alcohol-silicate hybrids by small angle X-ray scattering. F.P1.15**

André Luis Alves Moura<sup>1</sup>, Lilian Karla de Oliveira<sup>1</sup>, Katia Jorge Ciuffi<sup>1</sup>, Eduardo Ferreira Molina<sup>1</sup>; <sup>1</sup>Universidade de Franca

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session F.OR4 (09:45 - 10:45) - Room 10

- 09:45 Combination of time resolved XAS and Raman spectroscopies to reveal the sulfidation process of a dehydrated NiMo/Al<sub>2</sub>O<sub>3</sub> catalyst** F.OR4.12  
Amelie Rochet<sup>1</sup>, Bertrand Baubet<sup>2</sup>, Virginie Moizan<sup>2</sup>, Elodie Devers<sup>2</sup>, Antoine Hugon<sup>2</sup>, Christophe Pichon<sup>2</sup>, Edmond Payen<sup>3</sup>, Valérie Briois<sup>4</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron, <sup>2</sup>IFP Energies Nouvelles, <sup>3</sup>Unité de Catalyse et de Chimie du Solide, <sup>4</sup>Synchrotron SOLEIL
- 10:00 Structural and Surface studies of Functionalized Ni-Promoted Tungsten Carbide Catalysts for application in Cellulose Conversion** F.OR4.13  
Cristiane Barbieri Rodella<sup>1</sup>, Dean Howard Barrett<sup>1</sup>, Silvia Fernanda Moya<sup>1</sup>, Santiago J. A. Figueroa<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron
- 10:15 Changing the reduction temperature of CeO<sub>2</sub> nanoparticles by using different parameters in the synthesis** F.OR4.14  
 Livia Pugens Matte<sup>1</sup>, Alisson Steffli Thill<sup>1</sup>, Guilherme Basso della Mea<sup>1</sup>, Francieli de Oliveira Lobato<sup>1</sup>, Leliz Ticona Arenas<sup>1</sup>, Edilson Valmir Benvenuti<sup>1</sup>, Fernanda Poletto<sup>1</sup>, Fabiano Bernardi<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 10:30 Structural and morphological properties of Ce(1-x)FexO<sub>2-δ</sub> synthesized by citrate route** F.OR4.15  
 Mariano Mazan<sup>1</sup>, Aldo Craievich<sup>2</sup>, Emila Halac<sup>3</sup>, Marcia Carvalho de Abreu Fantini<sup>2</sup>, Diego Lamas<sup>4</sup>, Susana Larrondo<sup>5</sup>; <sup>1</sup>Facultad de Ingenieria de la Universidad de Buenos Aires, <sup>2</sup>Instituto de Física da Universidade de São Paulo, <sup>3</sup>Departamento de Física, Centro Atómico Constituyentes, <sup>4</sup>Escuela de Ciencia y Tecnología de la UNSAM, <sup>5</sup>CITEDEF-UNIDEF-CONICET

#### Session F.OR5 (11:15 - 12:30) - Room 10

- 11:15 Operando X-ray Absorption Investigations of Catalysts: Methods and Results** F.OR5.16\*  
Valerie Briois<sup>1</sup>; <sup>1</sup>Synchrotron SOLEIL
- 11:45 Synchrotron radiation induced X-ray micro-analytical methods applied to the study of specific issues in biomedicine, earth and environmental sciences.** F.OR5.17  
Carlos Alberto Pérez<sup>1</sup>; <sup>1</sup>Centro Nacional de Pesquisa em Energia e Materiais
- 12:00 In Situ Q-EXAFS characterization of Carbon Supported Pd Nanoparticles during NO Reduction.** F.OR5.18  
 Marcus Vinicius Castegnar<sup>1</sup>, Deise Schafer<sup>1</sup>, Amelie Rochet<sup>2</sup>, Valérie Briois<sup>3</sup>, Maria do Carmo Martins Alves<sup>1</sup>, Jonder Moraes<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Centro Nacional de Pesquisa em Energia e Materiais, <sup>3</sup>Synchrotron SOLEIL
- 12:15 Operando XAS/MS/Raman investigation of copper catalysts supported on hierarchical porous alumina used for the ethanol dehydrogenation reaction** F.OR5.19  
Wellington Henrique Cassinelli<sup>1</sup>, Leandro Martins<sup>1</sup>, Aline Ribeiro Passos<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>, Amélie Rochet<sup>1</sup>, Valérie Briois<sup>2</sup>, Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Synchrotron SOLEIL

#### Session F.OR6 (14:00 - 15:15) - Room 10

- 14:00 Exploring time resolved X-ray diffraction techniques for the study of sub-nanosecond dynamics in magnetic materials** F.OR6.20\*  
Carlos Giles<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 14:30 Retained austenite thermal stability in a TRIP-assisted advanced high strength steel - in situ X-ray diffraction assessment** F.OR6.21  
Julian David Escobar<sup>1,2</sup>, Guilherme Faria<sup>1,2</sup>, Leonardo Wu<sup>2</sup>, Paulo Roberto Mei<sup>1</sup>, Antonio J. Ramirez<sup>3</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP, <sup>3</sup>The Ohio State University

- 14:45 Understanding molecular interactions in light-emitting polymer bilayers using resonant soft x-ray reflectivity** **F.OR6.22**  
 Muriel de Pauli<sup>1</sup>, Luiz Alberto Cury<sup>1</sup>, Angelo Malachias<sup>1</sup>, Rogério Magalhaes Paniago<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 15:00 Influence of initial amorphous structure on the in-situ crystallization of metastable thin films** **F.OR6.23**  
Kevin Stone<sup>1</sup>, Laura Schelhas<sup>1</sup>, Lauren Garten<sup>2</sup>, Casandra Cox<sup>3</sup>, Zamyra Chan<sup>3</sup>, Hong Ding<sup>4</sup>, Badri Shyam<sup>1</sup>, Apurva Mehta<sup>1</sup>, Kristin Persson<sup>4</sup>, Dan G. Nocera<sup>3</sup>, David Samuel Ginley<sup>2</sup>, Michael Toney<sup>1</sup>; <sup>1</sup>SLAC National Accelerator Laboratory, <sup>2</sup>National Renewable Energy Laboratory, <sup>3</sup>Harvard University, <sup>4</sup>Lawrence Berkeley National Laboratory

## Poster presentations

### Session F.P2 (17:00 - 19:00)

- 17:00 Luminescent and the correlation with local structure of nanostructured CaTiO<sub>3</sub>:La, Pr and SrTiO<sub>3</sub>:La, Pr** **F.P2.16**  
 Guilherme Kubo Ribeiro<sup>1</sup>, Lucas Angelini Deltreggia<sup>1</sup>, Maria Bernardi<sup>2</sup>, Alexandre Mesquita<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Growth and characterization of L-glutamic acid hydrochloride crystal** **F.P2.17**  
Renato Inácio Matos<sup>1,2</sup>, Adenilson Oliveira dos Santos<sup>2</sup>, Geanso Miranda de Moura<sup>2</sup>, José Leal Rodrigues<sup>1,2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal do Maranhão
- 17:00 Anion Effect on Organization of Dicationic Ionic Liquids by SAXS and NMR Measurements** **F.P2.18**  
Clarissa Piccinin Frizzo<sup>1</sup>, Caroline Raquel Bender<sup>1</sup>, Paulo Roberto dos Santos Salbego<sup>1</sup>, Izabelle de Mello Gindri<sup>2</sup>, Giovanna Machado<sup>3</sup>, Otávio Bianchi<sup>4</sup>, Marcos Antonio Villetti<sup>1</sup>, Marcos Antonio Pinto Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Maria, <sup>2</sup>Universidade do Texas - Dallas, <sup>3</sup>Centro de Tecnologias Estratégicas do Nordeste,, <sup>4</sup>Universidade de Caxias do Sul
- 17:00 Time and temperature dependence of nano and macro structures of Si-PPO hybrid matrixes from SAXS and WAXS perspectives.** **F.P2.19**  
Ranielle oliveira silva<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>, Karim DAHMOUCHE<sup>2</sup>, Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 17:00 Influence of hydrogen on martensitic transformation in the duplex stainless steel 2507 and the austenitic stainless steel 316** **F.P2.20**  
John Jairo Hoyos<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP
- 17:00 Advanced multi-axis goniometry for protein crystals at XRD2 beamline of the LNLS** **F.P2.21**  
Sergio Luiz Morelhaio<sup>1</sup>, Cláudio M.R. Remédios<sup>2</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Universidade Federal do Pará
- 17:00 ZnO/ZnS mixed structures obtained by sol-gel process** **F.P2.22**  
Eloísa Berbel Manaia<sup>1</sup>, Renata Cristina Kiatkoski Kaminski<sup>2</sup>, Bruno Leonardo Caetano<sup>3</sup>, Marina Magnani<sup>3</sup>, Florian Meneau<sup>4</sup>, Valérie Briois<sup>5</sup>, Amelie Rochet<sup>4</sup>, Claudie Bourgaux<sup>6</sup>, Leila Aparecida Chiavacci<sup>1</sup>; <sup>1</sup>Faculdade de Ciências Farmacêuticas, <sup>2</sup>Universidade Federal de Sergipe, <sup>3</sup>Instituto de Química - UNESP (IQ-UNESP), <sup>4</sup>Laboratório Nacional de Luz Síncrotron, <sup>5</sup>Synchrotron SOLEIL, <sup>6</sup>Université Paris Sud
- 17:00 Microemulsions based on vegetable oil extracts as corrosion inhibitors: A structural study by SAXS** **F.P2.23**  
HENRIQUE BARBOSA GONÇALVES<sup>1</sup>, Cristian Huck Iriart<sup>2</sup>, Emmanoel Vilaça Costa<sup>1</sup>, Victor Hugo Vitorino Sarmento<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe, <sup>2</sup>Instituto de investigaciones fisicoquímicas aplicas y teóricas
- 17:00 Structural and Electronic Characterization of Y-Doped Ferrite Nanoparticles in a Colloidal System** **F.P2.24**  
Arlon Fernando Silva<sup>1</sup>, Marcelo Parise<sup>1</sup>, Paulo Eduardo Souza<sup>1</sup>, Letícia Nunes Coelho<sup>1</sup>, Paulo Cesar Morais<sup>1</sup>; <sup>1</sup>Universidade de Brasília
- 17:00 Table top femtosecond x-ray source for time resolved x-ray diffraction experiments** **F.P2.25**  
George Nicolas Kontogiorgos<sup>1</sup>, Carlos William Galdino<sup>1</sup>, Kelin Regina Tasca<sup>1</sup>, Carlos Manuel Giles<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 The invar effect studied by time resolved x-ray diffraction** **F.P2.26**  
 Carlos Giles<sup>1</sup>, Carlos William Galdino<sup>1</sup>, George Nicolas Kontogiorgos<sup>1</sup>, Kelin Regina Tasca<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

- 17:00 Electrochemical sensor based on Molecularly Imprinted Polymer (MIP) for detection of gallic acid** **F.P2.27**  
Maria Oneide Silva de Moraes<sup>1</sup>, Igor Medeiros Assis<sup>1</sup>, Raimundo Ribeiro Passos<sup>1</sup>, Jose Roberto Casarini<sup>2</sup>, Deivy Wilson Masso<sup>1</sup>, Douglas Galante<sup>3</sup>, Yunier Garcia-Basabe<sup>4</sup>, Maria Luiza Miranda Rocco<sup>5</sup>, Walter Ricardo Brito<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas, <sup>2</sup>Instituto SENAI de Inovação, <sup>3</sup>Laboratório Nacional de Luz Síncrotron, <sup>4</sup>Universidade Federal de Paraná, <sup>5</sup>Universidade Federal do Rio de Janeiro
- 17:00 Grazing-incidence X-ray scattering studies of myelin membranes at air/water interface** **F.P2.28**  
Antonio Augusto Malfatti Gasperini<sup>1</sup>, Ximena Elizabeth Puentes<sup>1</sup>, Rafael Oliveira<sup>2</sup>, Leide Cavalcanti<sup>3</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron, <sup>2</sup>Consejo Nacional Investigacion Cientifica y Tecnica, <sup>3</sup>Universidade Estadual de Campinas
- 17:00 Multielementar analysis in red algae using X-Ray Total Reflection Fluorescence with Synchrotron Radiation** **F.P2.29**  
Renata de Faria Barbosa<sup>1</sup>, Ana Paula Villa Felix<sup>1</sup>, Diana Negrão Cavalcanti<sup>2</sup>, Edgar Francisco Oliveira De Jesus<sup>3</sup>, Eliane Teixeira Mársico<sup>2</sup>, Roberta De Oliveira Resende Ribeiro<sup>2</sup>, Livia Castro Marques<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Universidade Federal Fluminense, <sup>3</sup>Universidade Federal do Rio de Janeiro
- 17:00 Thermal reduction of Cu<sup>2+</sup> in presence of Ag<sup>+</sup> in Cuban natural clinoptilolite: A short range structural study by X ray absorption spectroscopy** **F.P2.30**  
Beatriz Concepcion-Rosabal<sup>1</sup>, Arbelio Penton-Madrigal<sup>1</sup>, Inocente Rodriguez-Iznaga<sup>1</sup>, Santiago J. A. Figueroa<sup>2</sup>, Vitalii Petranovskii<sup>3</sup>; <sup>1</sup>Universidad de la Habana, <sup>2</sup>Laboratório Nacional de Luz Síncrotron, <sup>3</sup>Universidad Nacional Autónoma de México
- 17:00 XAS/WAXS in situ study of LDH thermal decomposition and recovery** **F.P2.31**  
Rodrigo Moraes Menezes dos Santos<sup>1</sup>, Valérie Briois<sup>2</sup>, Florian Meneau<sup>3</sup>, Sandra Helena Pulcinelli<sup>1</sup>, Jairo Tronto<sup>4</sup>, Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP, <sup>2</sup>Synchrotron SOLEIL, <sup>3</sup>Laboratório Nacional de Luz Síncrotron, <sup>4</sup>Fundação Universidade Federal de Viçosa







## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session G.OR1 (09:45 - 10:45) - Room 07

**09:45 An Overview of State-of-the Art Simulation/Computational Models used in Physics, Chemistry, Biology and Materials Science: Selected Frontier Research** **G.OR1.1\***

Carlton Anthony Taft<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**10:15 Joining DFT and Microscopy to elucidate surface/interface special properties** **G.OR1.2\***

Corinne Arrouvel<sup>1</sup>, Jacques Werckmann<sup>2</sup>, Andrea Porto<sup>2</sup>, Sabrina Sanches<sup>3</sup>, Jean-Guillaume Eon<sup>3</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>3</sup>Universidade Federal do Rio de Janeiro

#### Session G.OR2 (11:15 - 12:30) - Room 07

**11:15 Highly active copper-ceria-titania catalysts. Insights from first principles calculations** **G.OR2.3\***

Javier Fdez. Sanz<sup>1</sup>, Jesus Graciani, Jose J Plata, Jose A. Rodriguez<sup>2</sup>; <sup>1</sup>Universidad de Sevilla, <sup>2</sup>Brookhaven National Lab

**11:45 Density functional theory study of structural, electronic and optical properties of quaternary chalcogenide semiconductors Cs<sub>2</sub>M<sup>IV</sup>M<sup>IV</sup><sub>3</sub>Q<sub>8</sub>** **G.OR2.4**

Rafael Besse<sup>1</sup>, Fernando Pereira Sabino<sup>1</sup>, Juarez L. F. Da Silva<sup>2</sup>; <sup>1</sup>São Carlos Institute of Physics, USP, <sup>2</sup>São Carlos Institute of Chemistry, USP

**12:00 Transition-Metal Clusters, Ethanol, and Water Supported on the CeO<sub>2</sub>(111) Surface: A Theoretical Investigation** **G.OR2.5\***

Juarez L. F. Da Silva<sup>1</sup>, Yohanna Seminovski<sup>1</sup>, Polina Tereshchuk<sup>1</sup>, Mauricio Jeomar Piotrowski<sup>2</sup>, Adam Kiejna<sup>3</sup>; <sup>1</sup>São Carlos Institute of Chemistry, <sup>2</sup>Universidade Federal de Pelotas, <sup>3</sup>University of Wrocław

#### Session G.OR3 (14:00 - 15:15) - Room 07

**14:00 Long-range van der Waals forces in inorganic low density materials** **G.OR3.6\***

Claudio Marcelo Zicovich-Wilson<sup>1</sup>, Erick Iván Román-Román<sup>1</sup>; <sup>1</sup>Universidad Autónoma del Estado de Morelos

**14:30 Atomistic approach to the intercalation of organo-iron complexes in montmorillonite.** **G.OR3.7**

Claro Ignacio Sainz-Díaz<sup>1</sup>; <sup>1</sup>Instituto Andaluz de Ciencias de la Tierra (CSIC-UGR)

**14:45 Roles of the Cation Atomic Radius and s-d Hybridization in the Stability of the Gallia Ga<sub>2</sub>O<sub>3</sub> Structure** **G.OR3.8**

Fernando Pereira Sabino<sup>1</sup>, Luiz Nunes de Oliveira<sup>1</sup>, Juarez L. F. Da Silva<sup>2</sup>; <sup>1</sup>São Carlos Institute of Physics, USP, <sup>2</sup>São Carlos Institute of Chemistry, USP

**15:00 Theoretical Investigation of the Physical and Chemical Properties Evolution of Unary and Binary Subnanometer Cu<sub>n</sub>, Pt<sub>n</sub>, and (PtCu)<sub>n</sub> Clusters** **G.OR3.9**

Anderson Silva Chaves, Diego Guedes-Sobrinho, Gustavo Garcia Rondina, Polina Tereshchuk, Mauricio Jeomar Piotrowski, Juarez L. F. Da Silva

### Poster presentations

#### Session G.P1 (17:00 - 19:00)

**17:00 Using carbon steel ASTM A-283 Grade C in the construction of pressure vessels** **G.P1.1**

Cristiano Piccard Gonçalves<sup>1</sup>, Edson A. Capello Souza<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil

**17:00 Investigation of Hybrid Structures Composed of Graphene and Carbon Nanotubes by Means of First-Principles Methods** **G.P1.2**

Juliana Aparecida Gonçalves<sup>1</sup>, Ronaldo Junio Campos Batista<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto

- 17:00 EXACT SOLUTION FOR MOVING BOUNDARY PROBLEM IN SPHERICAL POROUS MEDIA WITH VARIOUS BOUNDARY CONDITIONS** **G.P1.3**  
Rahul Basu<sup>1</sup>; <sup>1</sup>Visweshwariah Technological University
- 17:00 Quantum Relativistic Chemistry in GPU** **G.P1.4**  
André Luiz Fassone Canova<sup>1</sup>, Aguinaldo Robinson de Souza<sup>2</sup>; <sup>1</sup>Faculdade Origenes Lessa, <sup>2</sup>Universidade Estadual Paulista
- 17:00 Methodology for obtaining and study of geometries of singlewall and doublewall silicon carbide nanotube** **G.P1.5**  
Rogério José Costa<sup>1</sup>, Carlton Anthony Taft<sup>2</sup>, João Batista Lopes Martins<sup>1</sup>, Elson Longo<sup>3</sup>, José Divino Santos<sup>4</sup>; <sup>1</sup>Universidade de Brasília, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>4</sup>Universidade Estadual de Goiás
- 17:00 Magnetostatic interactions between wire-tube nanostructures** **G.P1.6**  
Diego Salazar-Aravena<sup>1,2</sup>, Juan Escrig<sup>2,3</sup>, Juan Luis Palma<sup>2,3</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidad de Santiago de Chile, <sup>3</sup>Center of development of Nanoscience and Nanotechnology
- 17:00 Experimental and Theoretical Study of Structural and Electronic Properties of ZnO:Al** **G.P1.7**  
Naiara Letícia Marana<sup>1</sup>, Neilo Trindade<sup>2</sup>, José R. Ribeiro Bortoleto<sup>2</sup>, Julio Ricardo Sambrano<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" / Bauru, <sup>2</sup>Universidade Estadual Paulista - Campus Sorocaba
- 17:00 Global structural search of Ir<sub>n</sub> clusters (n= 3-50)** **G.P1.8**  
Alejandro Bautista Hernandez<sup>1</sup>; <sup>1</sup>Benemerita Universidad Autonoma de Puebla
- 17:00 A STUDY OF Co<sub>2</sub>MnAl HUESLER ALLOYS: ELECTRONIC AND MAGNETIC PROPERTIES.** **G.P1.9**  
João Carlos Krause<sup>1</sup>, Bianca Maciel Marques<sup>1</sup>, Cleudson Paduani<sup>2</sup>; <sup>1</sup>Universidade Regional Integrada do Alto Uruguai E das Missões, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Truss finite element implementation for a shape memory alloy** **G.P1.10**  
Edcarlos Antônio Nunes Coura<sup>1</sup>, Leandro de Arruda Santos<sup>1</sup>, Carlos Alberto Cimini Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Crystal structure of computer study of protein p53, using the software rasmol for biochemical-structural analysis** **G.P1.11**  
Marcos Vinicius Sena Santos<sup>1</sup>, Andressa Carvalho<sup>1</sup>, Reinaldo Souza Miranda<sup>1</sup>, Leandro Martinez<sup>1</sup>, Patricia Carvalho Garcia<sup>1</sup>, Renato Massaharu Hassunuma<sup>1</sup>, Paula Martins da Silva<sup>1</sup>, Heloísa de Carvalho Sampaio<sup>1</sup>, Cirlene Conceição de Carvalho Campos<sup>1</sup>, Ana Laura Seneda<sup>1</sup>; <sup>1</sup>Universidade Paulista
- 17:00 Simulation of columnar and equiaxed grains during solidification process for a binary alloy system** **G.P1.12**  
Roberto Carlos Sales<sup>1</sup>, Alexandre José da Silva<sup>1</sup>, Alexandre Furtado Ferreira<sup>1</sup>, Dimas Moraes da Silva<sup>1</sup>, Monira Maisa Valente<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Simulation of interface velocity and solid fraction during solidification process in Al-Cu system** **G.P1.13**  
Dimas Moraes da Silva<sup>1</sup>, Alexandre Furtado Ferreira<sup>1</sup>, Monira Maisa Valente<sup>1</sup>, Késsia Gomes Paradelá<sup>1</sup>, Roberto Carlos Sales<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Synthesis and molecular docking of novel Nitrogen-Containing Bisphosphonates as potential antitumor agents** **G.P1.14**  
Ghalem Said<sup>1</sup>, Mourad Mesmoudi<sup>1</sup>, Allali Hocine<sup>1</sup>, Ismail Daoud<sup>1</sup>; <sup>1</sup>University of Tlemcen
- 17:00 Numerical - experimental program for analysis of composite beams of wood and concrete in fire** **G.P1.15**  
Julio Cesar Molina<sup>1</sup>, Carlito Calil Junior<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista - Câmpus de Itapeva, <sup>2</sup>Escola de Engenharia de São Carlos, Departamento de Engenharia de Estruturas, USP
- 17:00 Thickness effects in the properties of hexagonal array of nanosized ni hollow-spheres** **G.P1.16**  
Yuset Guerra Dávila<sup>1</sup>, Ramón Raudel Peña Garcia<sup>1</sup>, Ariel Delgado del Toro<sup>1</sup>, Paola Fuentes Morales<sup>1</sup>, Bruno Verissimo de Miranda Farias<sup>1</sup>, Eduardo Padrón Hernández<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Thermodynamic modeling of deleterious phases in AISI 304L, AISI 316 and AISI 2205 stainless steels** **G.P1.17**  
Pedro Ruff Pereira Viana<sup>1</sup>, Viviane Azambuja Favre-Nicolin<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo
- 17:00 Theoretical Electronic Structure of the Molybdenum Sulfide Cluster (MoS<sub>4</sub>)** **G.P1.18**  
Nelson Henrique Morgon<sup>1</sup>, Aguinaldo Robinson de Souza<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" / Bauru
- 17:00 Synthesis, characterization, DTF study and crystal structure of dihydrocoumarin C<sub>16</sub>H<sub>14</sub>O<sub>3</sub>** **G.P1.19**  
Jhonata Jesus Silva<sup>1</sup>, Nislaine Caetano Silva<sup>2</sup>, Jefferson Luiz Fonseca Silva<sup>1</sup>, Hamilton Barbosa Napolitano<sup>1</sup>, Solemar Silva Oliveira<sup>1</sup>, Gilberto Lúcio Benedito Aquino<sup>1</sup>, Marilene Silva Oliveira<sup>1</sup>; <sup>1</sup>Universidade Estadual de Goiás, <sup>2</sup>Universidade de Brasília

- 17:00 Shallow seismic applications in the study of soils and study methodology of data processing for imaging** **G.P1.20**  
Andrés Mauricio Muñoz Garcia<sup>1</sup>, Juan Fernando Montoya<sup>2</sup>, Jaime Moncada<sup>1</sup>, Andres Rojas<sup>1</sup>, Martin Eduardo Espitia<sup>1</sup>; <sup>1</sup>Corporación Universitaria Minuto de Dios, <sup>2</sup>Corporación Universitaria Lasallista
- 17:00 Theoretical and computational study of the anisotropy in the Colombian subsurface. Study before seismic migration in complex environments.** **G.P1.21**  
Andrés Mauricio Muñoz Garcia<sup>1</sup>, Ruben Dario Guerra<sup>1</sup>, Luis Alfredo Montes Vides<sup>2</sup>; <sup>1</sup>Instituto Tecnológico Metropolitano, <sup>2</sup>Universidad Nacional de Colombia
- 17:00 Theoretical Study in Energy Absorption in the Systems ZnPBAT-TiO<sub>2</sub> in Solar-Cells** **G.P1.22**  
Fernando Mendizabal<sup>1</sup>; <sup>1</sup>Universidad de Chile
- 17:00 Computational modeling and structural analysis of biomaterials for dental implant applications** **G.P1.23**  
Lieca Hasegawa Kavashima<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 A Theoretical Investigation of the Structural and Electronic Properties of 55-Atom Nanoclusters: The Example of Y, Zr, Nb, Mo, Tc, and Pt** **G.P1.24**  
Krys Elly de Araújo Batista<sup>1</sup>, Juarez L. F. Da Silva<sup>2</sup>, Maurício Jeomar Piotrowski<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Universidade de São Paulo
- 17:00 Computational study of the human Pyruvate Dehydrogenase E1 using the Rasmol software for a biochemical structural analysis.** **G.P1.25**  
Paula Martins da Silva<sup>1</sup>, Renato Massaharu Hassunuma<sup>1</sup>, Patricia Carvalho Garcia<sup>1</sup>, Leandro Martinez<sup>1</sup>, Reinaldo Souza Miranda<sup>1</sup>, Marcos Vinicius Sena Santos<sup>1</sup>, Andressa Carvalho<sup>1</sup>, Heloisa de Carvalho Sampaio<sup>1</sup>, Cirlene Conceição de Carvalho Campos<sup>1</sup>, Ana Laura Seneda<sup>1</sup>; <sup>1</sup>Universidade Paulista
- 17:00 Structural analysis biochemistry: Simulation for inhibition of carbonic anhydrase II by acetazolamide.** **G.P1.26**  
Reinaldo Souza Miranda<sup>1</sup>, Andressa Carvalho<sup>1</sup>, Marcos Vinicius Sena Santos<sup>1</sup>, Leandro Martinez<sup>1</sup>, Patricia Carvalho Garcia<sup>1</sup>, Renato Massaharu Hassunuma<sup>1</sup>, Paula Martins da Silva<sup>1</sup>, Heloisa de Carvalho Sampaio<sup>1</sup>, Cirlene Conceição de Carvalho Campos<sup>1</sup>, Ana Laura Seneda<sup>1</sup>; <sup>1</sup>Universidade Paulista
- 17:00 Numerical Simulation for Bauschinger Effect of Influence Verification the Steel on the Straight Flanging TRIP 800** **G.P1.27**  
Siedro Augusto Haus, Ricardo Adriano dos Santos<sup>1</sup>, Sérgio Fernando Lajarin<sup>2</sup>, Paulo Victor Prestes Marcondes<sup>2</sup>, Luana Jéssica dos Santos Lopes<sup>1</sup>, Nicolas Kirchhoff Alves<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Paraná, <sup>2</sup>Universidade Federal do Paraná
- 17:00 Applications of the Knot theory in the study of protein structure** **G.P1.28**  
Paula Martins da Silva<sup>1</sup>, Aguinaldo Robinson de Souza<sup>2</sup>; <sup>1</sup>Universidade Paulista, <sup>2</sup>Instituto de Química - UNESP
- 17:00 About Cement Hydration: Comparative Study of Mathematical Models** **G.P1.29**  
João Francisco de Carvalho Neto<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Investigating artificial neural network QSAR models towards epidemiological studies to determine the association between phenol exposure and rodent cancer** **G.P1.30**  
José Vitorino Júnior<sup>1</sup>, Ricardo Stefani<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso
- 17:00 The Effects of the Charge Transfer State on Device Performance of Bi-layer Organic Solar Cells: a Numerical Study** **G.P1.31**  
Yiming Liu<sup>1</sup>, Karin Zojer<sup>2</sup>, Bhushan Ramesh Patil<sup>1</sup>, Mehrad Ahmadpour<sup>1</sup>, Benny Lassen<sup>1</sup>, Jakob Kjelstrup-Hansen<sup>1</sup>, Morten Madsen<sup>1</sup>; <sup>1</sup>University of Southern Denmark / Syddansk Universitet, <sup>2</sup>Graz University of Technology
- 17:00 Atomic and Electronic Structure of the (TiO<sub>2</sub>)<sub>n</sub>, n = 1-15 Clusters: A Density Functional Investigation** **G.P1.32**  
Israel Rosalino<sup>1</sup>, Diego Guedes-Sobrinho<sup>1</sup>, Juarez L. F. Da Silva<sup>1</sup>; <sup>1</sup>São Carlos Institute of Chemistry, USP
- 17:00 Adsorption of glycerol on ideal and reconstructed Pt(hkl) surfaces: ab initio density function theory calculations** **G.P1.33**  
Polina Tereshchuk<sup>1</sup>, Juarez L. F. Da Silva; <sup>1</sup>São Carlos Institute of Chemistry, USP

## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session G.OR4 (09:45 - 10:45) - Room 07

**09:45 First-principles design of magnetic nanostructures deposited on surfaces** **G.OR4.10\***  
Angela Burlamaqui Klautau<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará

**10:15 Quantum Monte Carlo Study of Ferromagnetism in the Lieb Lattice** **G.OR4.11\***  
Thereza Cristina de Lacerda Paiva<sup>1</sup>, Tiago Mendes Santos<sup>1</sup>, Natanael de Carvalho Costa<sup>1</sup>, Raimundo Rocha dos Santos<sup>1</sup>, Richard Theodore Scalettar<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>University of California, Davis

#### Session G.OR5 (11:15 - 12:30) - Room 07

**11:15 Symmetries of quantum transport with Rashba spin-orbit: Graphene spintronics** **G.OR5.12\***  
andrea brito latge<sup>1</sup>, Leonor Chico<sup>2</sup>, Hernan Santos<sup>3</sup>, Luis Brey<sup>2</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Instituto de Ciencias de Materiales de Madrid, <sup>3</sup>Universidad Nacional de Educación a Distancia

**11:45 How can a small molecule be used to make a model to study Graphene Oxide spectra and structure?** **G.OR5.13**  
João Paulo Almeida de Mendonça<sup>1</sup>, Alessandro Henrique de Lima<sup>1</sup>, Georgia Maria Amaral Junqueira<sup>1</sup>, Welber Gianini Quirino<sup>1</sup>, Cristiano Legnani<sup>1</sup>, Indhira Oliveira Maciel<sup>1</sup>, Fernando Sato<sup>1</sup>; <sup>1</sup>Universidade Federal de Juiz de Fora

**12:00 Simulating different types of interactions in electronic transport using density functional theory and non-equilibrium Green's functions** **G.OR5.14\***  
Alexandre Reily Rocha<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

#### Session G.OR6 (14:00 - 15:15) - Room 07

**14:00 Applications of multiscale molecular simulations on oil industry** **G.OR6.15\***  
Caetano Rodrigues Miranda<sup>1</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo

**14:30 A computational multiscale approach to assess the intrinsic wettability of a surface and the implications in oil recovery** **G.OR6.16**  
Ronaldo Giro<sup>1</sup>, Peter William Bryant<sup>1</sup>, Rafael Rodrigues Del Grande<sup>2</sup>, Michael Engel<sup>1</sup>, Mathias Bernhard Steiner<sup>1</sup>; <sup>1</sup>IBM Research, <sup>2</sup>Universidade Federal do Rio de Janeiro

**14:45 DiPEVA, a three-dimensional semi-empirical method for predicting the surface tension of solids and liquid metals** **G.OR6.17**  
Cláudio Nunes Pereira<sup>1</sup>, Guilherme Cañete Vebber<sup>2</sup>; <sup>1</sup>Tecnano Pesquisas e Serviços Ltda, <sup>2</sup>Universidade Estadual do Rio Grande do Sul

**15:00 The Next Generation of Materials By Design: Including Metastability** **G.OR6.18**  
David Samuel Ginley, Gebrand Ceder, Vladan Stevanovic, Kristin Persson, Michael Toney, Lauren Garten

### Poster presentations

#### Session G.P2 (17:00 - 19:00)

**17:00 CO Coverage effects on ZnO** **G.P2.34**  
João Batista Lopes Martins<sup>1</sup>, Elton Anderson Santos de Castro<sup>2</sup>, Italo P. de Lima<sup>1</sup>; <sup>1</sup>Universidade de Brasília, <sup>2</sup>Universidade Estadual de Goiás

**17:00 DFT study of small nickel clusters and hydrogen adsorption** **G.P2.35**  
Cecilia Carolina Torres<sup>1</sup>, Cristian Hugo Campos Figueroa<sup>1</sup>, Verónica Jiménez<sup>2</sup>, Joel Alderete<sup>1</sup>; <sup>1</sup>Universidad de Concepción, <sup>2</sup>Universidad Andrés Bello

- 17:00 How  $\beta$ -tubulin mutants can affect to antimetabolic agents. A molecular dynamics study of native and mutated tubulin complexes with epothilone B** **G.P2.36**  
 Karen Roxana Navarrete<sup>1</sup>, Joel Alderete<sup>1</sup>, Verónica Andrea Jimenez<sup>2</sup>; <sup>1</sup>Universidad de Concepción, <sup>2</sup>Universidad Andrés Bello
- 17:00 Aggregation thermodynamics of phenothiazines derivatives in aqueous and micro-heterogeneous media** **G.P2.37**  
 Cleiton Domingos Maciel<sup>1</sup>, Maurício Domingues Coutinho-Neto<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Study of elastic and piezoelectric constants of ZnO** **G.P2.38**  
 Naiara Letícia Marana<sup>1</sup>, Julio Ricardo Sambrano<sup>2</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" / Bauru, <sup>2</sup>Universidade Estadual Paulista, <sup>3</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 17:00 Numerical simulation of solute driven convection around an equiaxed dendrite** **G.P2.39**  
 Romulo Heringer<sup>1</sup>, Leonardo Maximino Bernardo<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Elastic properties of minerals. Theoretical study, preliminary treatment of seismic data in Colombia** **G.P2.40**  
 Ruben Dario Guerra Tamayo<sup>1</sup>, Andrés Mauricio Muñoz Garcia<sup>1</sup>, Luis Alfredo Montes Vides<sup>2</sup>; <sup>1</sup>Instituto Tecnológico Metropolitano, <sup>2</sup>Universidad Nacional de Colombia
- 17:00 Mechanical Instability of Porous Biostructures as a Design Tool for Nanotechnology Applications** **G.P2.41**  
 Alejandro Gutierrez<sup>1</sup>, Lilian P. Dávila<sup>1</sup>; <sup>1</sup>University of California Merced
- 17:00 Flaw detectability estimation by computer simulation and statistical analysis in carbon steel welding inspected by ultrasonic technique** **G.P2.42**  
 MARIANA BURROWES MOREIRA GUIMARÃES<sup>1</sup>, Gabriela Ribeiro Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Study of the E/Z Equilibrium on the Mechanism of the Fujiwara Hydroheteroarylation of Alkynes** **G.P2.43**  
 Nelson Henrique Morgon<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Characterization in silico of the structural parameters of the antifungal agent ketoconazole** **G.P2.44**  
 Gilderlan Almeida Araújo<sup>1</sup>, Robson Guimarães Sanabio<sup>1</sup>, Felipe Kairo de Sousa Lima<sup>1</sup>, José Auri Pinheiro<sup>1</sup>, Eliana Pereira Silva<sup>1</sup>, Emmanuel Silva Marinho<sup>1</sup>, Rondinelle Ribeiro Castro<sup>1</sup>, Márcia Machado Marinho<sup>1</sup>, Marciana Bandeira Albuquerque<sup>1</sup>; <sup>1</sup>Universidade Estadual do Ceará
- 17:00 Simulation of the dendritic morphology and microsegregation for binary alloy Al-4.5% Cu by phase field** **G.P2.45**  
 Kessia Gomes Paradelá<sup>1</sup>, Alexandre Furtado Ferreira<sup>1</sup>, Dimas Moraes da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Computational research training facility catalytic species  $\text{RuCl}_2(\text{N}^{\text{III}})_2(=\text{CHCOOCH}_2\text{CH}_3)$**  **G.P2.46**  
 Hudson Gomes Evangelista<sup>1</sup>, Fernando Silva Reis<sup>1</sup>, Fernando da Silva Resis<sup>1</sup>, Égil Brito Sá<sup>1</sup>, José Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí
- 17:00 Computational Research of polyurethane formation from the reaction of 1,6- HDI with monoglycerol derived from babassu oil** **G.P2.47**  
 Francisco Ivan Silva<sup>1</sup>, Fernando da Silva Resis<sup>1</sup>, Fernando Silva Reis<sup>1</sup>, Égil Brito Sá<sup>1</sup>, José Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí
- 17:00 DFT Calculations on Electronic Properties of bulk and slabs of  $\text{PbO}_2$**  **G.P2.48**  
 João Marques Cordeiro<sup>1</sup>, Victor Ciro Solano Reynoso<sup>1</sup>, Tatiana Conceição Barretto<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP
- 17:00 In Situ Growth of Ag Nanoparticles on  $\alpha\text{-Ag}_2\text{WO}_4$  by Electron Irradiation in Transmission Electron Microscope: Theoretical Insights from Density Functional Theory (DFT) Calculations** **G.P2.49**  
 Miguel A. San-Miguel<sup>1</sup>, Juan Andrés<sup>2</sup>, Elson Longo<sup>3</sup>, Edison Zacarias da Silva<sup>4</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universitat Jaume I, <sup>3</sup>Universidade Estadual Paulista - Câmpus de Araraquara, <sup>4</sup>Instituto de Física Gleb Wataghin
- 17:00 Object Oriented Simulation of Nucleation and Growth via Cellular Automata** **G.P2.50**  
 Jonathas Luis Groetares Ferreira<sup>1</sup>, Wesley Luiz da Silva Assis<sup>1</sup>, Tiago Araújo Neves<sup>1</sup>, Guilherme Costa de Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Importance of nucleation incubation time nucleation of the texture components during recrystallization** **G.P2.51**  
 Marcos Felipe Braga da Costa<sup>1</sup>, Guilherme Dias Fonseca<sup>1</sup>, André Luiz Moraes Alves<sup>1</sup>, Wesley Luiz da Silva Assis<sup>1</sup>, Paulo Rangel Rios<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Molecular dynamics simulations of crystalline and amorphous Lennard-Jones thin films under ion irradiation** **G.P2.52**  
 Leandro Ize Gutierrez<sup>1</sup>, Nathan Willig Lima<sup>1</sup>, Raquel Silva Thomaz<sup>1</sup>, Eduardo M. Bringa<sup>2</sup>, Ricardo Meurer Papaléo<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul, <sup>2</sup>Consejo Nacional Investigacion Científica y Técnica

- 17:00 Determination of Solid Fraction by a Micro-model of Solidification Using Experimental Results** **G.P2.53**  
Gabriel Braga Regattieri Sampaio<sup>1</sup>, Vinicius Karlinski de Barcellos<sup>1</sup>, Carlos Ferreira Frick<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Theoretical investigation of the covalently bounded bichromophoric isoalloxazine-anthraquinone system** **G.P2.54**  
Carlos Eduardo Silva<sup>1</sup>, M. Angeles Farrán<sup>2</sup>, Miguel A. San-Miguel<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidad Nacional de Educación a Distancia
- 17:00 Electronic properties of bulk HgTe and HgTe/CdTe (001) superlattices** **G.P2.55**  
Cláudio de Oliveira<sup>1</sup>, Horácio Wagner Leite Alves<sup>1</sup>, José Carlos Egues<sup>2</sup>; <sup>1</sup>Universidade Federal de São João del-Rei, <sup>2</sup>Instituto de Física de São Carlos/USP
- 17:00 BaSnO<sub>3</sub> (110) Surface: Electronic and Structural Properties by Periodic DFT Calculation** **G.P2.56**  
Prescila Glaucia Christianini Buzolin<sup>1</sup>, Amanda Cosmo de Almeida<sup>1</sup>, Elson Longo<sup>2</sup>, Julio Ricardo Sambrano<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 17:00 Understanding Solvent Effects on Luminescent Properties of the N-Salicylidene-5-Chloroaminopyridine** **G.P2.57**  
Cristina Aparecida Barboza<sup>1</sup>, José Carlos Germino<sup>1</sup>, Pedro Antonio Muniz Vazquez<sup>1</sup>, Teresa Dib Zambon Atvars<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Activation energy spectrum of the irreversible structural relaxation of amorphous ZrW<sub>2</sub>O<sub>8</sub>** **G.P2.58**  
Giovani Luis Rech<sup>1</sup>, Fernanda Miotto<sup>1</sup>, Cláudio Antônio Perottoni<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul
- 17:00 An extended semi-empirical optimization method based on the hansen solubility parameters incorporating acid-base interactions for assessing lignin dissolution** **G.P2.59**  
Cláudio Nunes Pereira<sup>1</sup>, Guilherme Cañete Vebber<sup>2</sup>; <sup>1</sup>Tecnano Pesquisas e Serviços Ltda, <sup>2</sup>Universidade Estadual do Rio Grande do Sul
- 17:00 Influence of the bath temperature in dissipative and diffusion mechanisms of mesoscopic superconductors** **G.P2.60**  
Elwis Carlos Sartorelli Duarte<sup>1</sup>, Edson Sardella<sup>2</sup>, Rafael Zadorosny<sup>3</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/UNESP, <sup>2</sup>Faculde de Ciencias- UNESP Bauru, <sup>3</sup>Faculdade de Engenharia de Ilha Solteira-Universidade Estadual Paulista
- 17:00 Theoretical study of the interaction between magnetite and polydimethylsiloxane** **G.P2.61**  
Gabriel Victor Simões Dutra<sup>1</sup>, José Divino dos Santos<sup>1</sup>, Olacir Alves Araújo<sup>1</sup>; <sup>1</sup>Universidade Estadual de Goiás
- 17:00 Localized Atomic Mobility of Hybrid Materials** **G.P2.62**  
Renato Grigolon Capelo<sup>1</sup>, Rodrigo Queiroz de Albuquerque<sup>2</sup>; <sup>1</sup>São Carlos Institute of Chemistry, <sup>2</sup>Instituto de Química de São Carlos - USP
- 17:00 AC loss calculations in multilayered tapes used in high temperature superconducting power cable** **G.P2.63**  
Edson de Pinho da Silva<sup>1</sup>, Marcelo Azevedo Neves<sup>1</sup>, Marco Antonio Pereira do Rosário<sup>2</sup>, Artur Jorge da Silva Lopes<sup>1</sup>, Luiz Maltar Castello Branco<sup>1</sup>, Alesson Mansur Torres<sup>1</sup>, Carlos Alexandre Meireles do Nascimento<sup>3</sup>; <sup>1</sup>Universidade Federal Rural do Rio de Janeiro, <sup>2</sup>NeoKinetika, <sup>3</sup>Companhia Energética de Minas Gerais
- 17:00 Transition Metal Clusters Study via Genetic Algorithm** **G.P2.64**  
Paulo Cesar Piquini<sup>1</sup>, Raisi Natalia Baldez<sup>1</sup>, Alex André Schmidt<sup>1</sup>, Marcelo Kuroda<sup>2</sup>; <sup>1</sup>Universidade Federal de Santa Maria, <sup>2</sup>Auburn University
- 17:00 Modeling and computer simulation of sequential transformations without overlapping** **G.P2.65**  
Guilherme Dias Fonseca<sup>1</sup>, André Luiz Moraes Alves<sup>1</sup>, Marcos Felipe Braga da Costa<sup>1</sup>, Wesley Luiz da Silva Assis<sup>1</sup>, Paulo Rangel Rios<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense







## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session I.OR1 (09:45 - 10:45) - Room 04

- 09:45 Theoretical & Experimental Structure-Property Studies in Multiferroic Magnetoelectric Compositions** **I.OR1.1**  
Luiz Fernando Cótica<sup>1</sup>, Guilherme Maia Santos<sup>1</sup>, Igor Barbosa Catellani<sup>1</sup>, Breno Ferraz De Oliveira<sup>1</sup>, Gustavo Sanguino Dias<sup>1</sup>, Ivair Aparecido Santos<sup>1</sup>, Ruyan Guo<sup>2</sup>, Amar S. Bhalla<sup>2</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>University of Texas San Antonio
- 10:00 Study and characterization of bilayered ceramics of BZT-BST (BaTi<sub>1-x</sub>Zr<sub>x</sub>O<sub>3</sub>-Ba<sub>1-y</sub>Sr<sub>y</sub>TiO<sub>3</sub>)** **I.OR1.2**  
 Antonio Guerreiro Serrano<sup>1</sup>, André Luis Boaventura<sup>1</sup>, Eduardo Antonelli<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 10:15 Influence of Synthesis atmosphere on the magnetic and structural properties of TbMnO<sub>3</sub> multiferroic polycrystals** **I.OR1.3**  
Gustavo Sanguino Dias<sup>1</sup>, Luiz Gustavo Davanse Silveira<sup>1</sup>, Luiz Fernando Cótica<sup>1</sup>, Ivair Aparecido Santos<sup>1</sup>, Adelino de Aguiar Coelho<sup>2</sup>, Juraci Aparecido Sampaio<sup>3</sup>, Ducinei Garcia<sup>4</sup>, José Antônio Eiras<sup>4</sup>, Fabiano Yokaichiya<sup>5</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro, <sup>4</sup>Universidade Federal de São Carlos, <sup>5</sup>Helmholtz-Zentrum Berlin für Materialien und Energie
- 10:30 Characterization of A<sub>5</sub>B<sub>5</sub>O<sub>17</sub> (A = La, B = Ti, Sc, Mg, Zn, Nb)-layered perovskite ceramics for microwave communications** **I.OR1.4**  
Raz Muhammad<sup>1</sup>, Yaseen Iqbal<sup>1</sup>; <sup>1</sup>University of Peshawar

#### Session I.OR2 (11:15 - 12:30) - Room 04

- 11:15 Imprint effect in lead zirconate titanate thin films** **I.OR2.5**  
Eudes Borges Araujo<sup>1</sup>, Elton Carvalho Lima<sup>2</sup>, Igor Bdikin<sup>3</sup>, Andrei kholkin<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>Fundação Universidade Federal do Tocantins, <sup>3</sup>Universidade de Aveiro
- 11:45 Direct piezoelectric effect microscopy: a new method for investigating nano-scaled piezo materials** **I.OR2.6**  
Thiago José de Almeida Mori<sup>1</sup>, Plamen Stamenov<sup>2</sup>, Lucio Strazzabosco Dorneles<sup>3</sup>; <sup>1</sup>Centro Nacional de Pesquisa em Energia e Materiais, <sup>2</sup>Trinity College University of Dublin, <sup>3</sup>Universidade Federal de Santa Maria
- 12:00 Investigation of ferroelectric domain switching in soft and hard lead-free piezoceramics** **I.OR2.7**  
Manuel Henrique Lente<sup>1</sup>, Camila Alves de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 12:15 Ferroelectric composites based in BaTiO<sub>3</sub>-NaNbO<sub>3</sub>, polyvinylidene fluoride and hydroxyapatite for biomedical application** **I.OR2.8**  
Taiana Moretti Bonadio<sup>1</sup>, Guilherme Lorenzett<sup>2</sup>, Valdirlei Fernandes Freitas<sup>2</sup>, Jaciele Marcia Rosso<sup>1</sup>, Ludmilla Magalhães<sup>1</sup>, Luiz Fernando Cótica<sup>1</sup>, Wilson Ricardo Weinand<sup>1</sup>, Ivair Aparecido Santos<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Universidade Estadual do Centro Oeste

### Poster presentations

#### Session I.P1 (17:00 - 19:00)

- 17:00 Structure-Properties Correlations in Rare-Earth Modified TbMnO<sub>3</sub> Polycrystalline Ceramics** **I.P1.1**  
Gustavo Sanguino Dias<sup>1</sup>, Luiz Gustavo Davanse Silveira<sup>1</sup>, Luiz Fernando Cótica<sup>1</sup>, Ivair Aparecido Santos<sup>1</sup>, Ducinei Garcia<sup>2</sup>, José Antônio Eiras<sup>2</sup>, Juraci Aparecido Sampaio<sup>3</sup>, Adelino de Aguiar Coelho<sup>4</sup>, Fabiano Yokaichiya<sup>5</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro, <sup>4</sup>Universidade Estadual de Campinas, <sup>5</sup>Helmholtz-Zentrum Berlin für Materialien und Energie

- 17:00 Incorporating TiO<sub>2</sub> and LiNbO<sub>3</sub> nanoparticles in carbon fiber to obtain nanocomposites for applications at photodegradation** **I.P1.2**  
Ricardo Marques e Silva<sup>1</sup>, Anderson Thesing<sup>2</sup>, Vinicius Gonçalves Deon<sup>1</sup>, Bruno Silveira Noremberg<sup>1</sup>, Igor José Cherubin<sup>1</sup>, Guilherme Kurz Maron<sup>1</sup>, José Carlos Bernedo Alcazar<sup>1</sup>, Natália Hadler Marins<sup>1</sup>, Oscar Giordani Paniz<sup>1</sup>, Alice Gonçalves Osório<sup>1</sup>, Marcelo Ornaghi Orlandi<sup>3</sup>, Neftali Lenin Villarreal Carreño<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Universidade Federal do Rio Grande do Sul, <sup>3</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Anisotropic magnetism in Fe<sub>3</sub>O<sub>2</sub>BO<sub>3</sub>** **I.P1.3**  
Lygia Walmsley<sup>1</sup>, Igor Fier<sup>2</sup>, Everton Carvalho dos Santos<sup>1</sup>, João Carlos Fernandes<sup>3</sup>, Mucio Amado Continentino<sup>4</sup>, Adilson J A de Oliveira<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Rio Claro, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Universidade Federal Fluminense, <sup>4</sup>Centro Brasileiro de Pesquisas Físicas
- 17:00 Synthesis and characterization of the (1-x)BNT-xBT, 0.02≤x≤0.05, lead free piezoelectric ceramics** **I.P1.4**  
Julio Cesar Camilo Alborno Diaz<sup>1</sup>, Paulo Sérgio da Silva Junior<sup>1</sup>, Michel Venet Zambrano<sup>1</sup>, Ariano De Giovanni Rodrigues<sup>1</sup>, Odila Florêncio<sup>1</sup>, Jean Claude M'Peko<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 Magnetic and transport properties along with local distortions in Bi<sub>2</sub>Mn<sub>4</sub>O<sub>10</sub> and Bi<sub>2</sub>Fe<sub>4</sub>O<sub>9</sub> multiferroic compounds** **I.P1.5**  
Gabriel Cabrera Pasca<sup>1</sup>, Fabian Nima Ramirez<sup>1</sup>, Artur Wilson Carbonari<sup>2</sup>, Jose Mestnik-filho<sup>2</sup>, José Antonio Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Instituto de Pesquisas Energéticas e Nucleares
- 17:00 dielectric properties of BaTi<sub>0.9</sub>Zr<sub>0.1</sub>O<sub>3</sub> from a mixture of BaTiO<sub>3</sub> and BaZrO<sub>3</sub>** **I.P1.6**  
André Luis Boaventura<sup>1</sup>, Eduardo Antonelli<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Intrinsic dielectric properties of magnetodielectric La<sub>2</sub>CoMnO<sub>6</sub>** **I.P1.7**  
Rosivaldo Xavier Silva<sup>1</sup>, Carlos William Araujo Paschoal<sup>1</sup>, Roberto Luiz Moreira<sup>2</sup>, Roberto Magalhães Paniago<sup>2</sup>, Rafael Almeida<sup>3</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Universidade Federal de Minas Gerais, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão
- 17:00 Microwave-Hydrothermal Synthesis and Characterization of PZT and Yttrium doped PZT** **I.P1.8**  
Vinicius Gonçalves Deon<sup>1</sup>, Luiza Ribeiro Santana<sup>1</sup>, Ricardo Marques e Silva<sup>1</sup>, Guilherme Kurz Maron<sup>1</sup>, Bruno Silveira Noremberg<sup>1</sup>, Igor José Cherubin<sup>1</sup>, Oscar Giordani Paniz<sup>1</sup>, Alice Gonçalves Osório<sup>1</sup>, Neftali Lenin Villarreal Carreño<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 17:00 Synthesis of (K<sub>x</sub>Na<sub>1-x</sub>)NbO<sub>3</sub> powders by microwave-assisted route** **I.P1.9**  
Camila Alves de Souza<sup>1</sup>, Manuel Henrique Lente<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Structural and magnetic properties of CoFe<sub>2</sub>O<sub>4</sub>:BaTiO<sub>3</sub> core-shell nanocomposites synthesized employing a two steps route** **I.P1.10**  
Denise Alanis<sup>1</sup>, Paula Nunes de Oliveira<sup>1</sup>, Raquel Dosciatti Bini<sup>1</sup>, Daniel Matos Silva<sup>1</sup>, Gustavo Sanguino Dias<sup>1</sup>, Ivair Aparecido Santos<sup>1</sup>, Luiz Fernando Cótica<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá
- 17:00 Synthesis and characterization of Fe<sub>3</sub>O<sub>4</sub> nanoparticles coated with uniform layers of silica** **I.P1.11**  
Raquel Dosciatti Bini<sup>1</sup>, Paula Nunes de Oliveira<sup>1</sup>, Denise Alanis<sup>1</sup>, Daniel Matos Silva<sup>1</sup>, Gustavo Sanguino Dias<sup>1</sup>, Ivair Aparecido Santos<sup>1</sup>, Luiz Fernando Cótica<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá
- 17:00 Experimental conditions: The key to improve the characteristic of the superparamagnetic NiZn ferrite** **I.P1.12**  
Rafael Melo Freire<sup>1</sup>, Paulo George cavalcante<sup>1</sup>, wesley santos galvao<sup>1</sup>, Luelc Sousa da Costa<sup>2</sup>, Thiago Soares Ribeiro<sup>1</sup>, Igor Frota Vasconcelos<sup>1</sup>, Juliano Casagrande Denardin<sup>3</sup>, Pierre Basílio Almeida Fechine<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Universidad de Santiago de Chile
- 17:00 Characterization electrical in ferroelectric composites based de poly (vinylidene and Fluoride)** **I.P1.13**  
Danilo Umbelino Figueiredo<sup>1</sup>, Evaristo Alexandre Falcão<sup>1</sup>, Ducinei Garcia<sup>2</sup>, Eriton Rodrigo Botero<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal da Grande Dourados, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Relations Structure/Properties on multiferroic BiFeO<sub>3</sub>-PbTiO<sub>3</sub> compound** **I.P1.14**  
Valdirlei Fernandes Freitas<sup>1</sup>, Gustavo Sanguino Dias<sup>2</sup>, Tania Toyomi Tominaga<sup>1</sup>, Ricardo Yoshimitsu Miyahara<sup>1</sup>, Luiz Fernando Cótica<sup>2</sup>, José Antônio Eiras<sup>3</sup>, Ivair Aparecido Santos<sup>2</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste, <sup>2</sup>Universidade Estadual de Maringá, <sup>3</sup>Universidade Federal de São Carlos
- 17:00 Influence of time and calcination temperature in obtaining BaFe<sub>12</sub>O<sub>19</sub>** **I.P1.15**  
Julia C Xavier<sup>1</sup>, Johan Alexander Cortes Suarez<sup>1</sup>, Miguel Angel Ramirez Gil<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Guaratinguetá, UNESP

- 17:00 Magnetic Anisotropy in BiFeO<sub>3</sub> PLD thin films deposited over Si substrates** **I.P1.16**  
 Grecia Alejandra Gomez-Iniarte<sup>1</sup>, Dácio M Souza<sup>2</sup>, Luiz Augusto Souza Oliveira<sup>3</sup>, Alexandre Silva Mello<sup>1</sup>, Laura Beatriz Steren<sup>4</sup>, Santiago Carreira<sup>4</sup>, Arbelio Penton-Madrigal<sup>5</sup>, João Paulo Sinnecker; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Universidade Federal Fluminense, <sup>3</sup>Universidade Federal do Rio de Janeiro, <sup>4</sup>Departamento de Física, Centro Atômico Constituyentes, <sup>5</sup>Universidad de la Habana
- 17:00 Growth and characterization of single crystal fibers and potassium sodium niobate (KNN)** **I.P1.17**  
 Juliana Teixeira Alves<sup>1</sup>, Manuel Henrique Lente<sup>1</sup>, Ana Maria do Espirito Santo<sup>1</sup>, Marcus Vinicius Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 MAGNETIC SUSCEPTIBILITY OF IRON ORE TAILINGS** **I.P1.18**  
 Anderson Alves Cunha<sup>1</sup>, Jefferson Januario Mendes<sup>2,1</sup>, Rubén Antonio Llobell Solé<sup>3</sup>, Fernando Gabriel da Silva Araújo<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais, <sup>3</sup>Fundação Gorceix
- 17:00 Tuning electric polarization in helimagnetic CaMn<sub>7</sub>O<sub>12</sub> by Sr doping** **I.P1.19**  
 Ariel Nonato Almeida de Abreu Silva<sup>1</sup>, Carlos William Araujo Paschoal<sup>1</sup>, Susana Yáñez Vilar<sup>2</sup>, María Antonia Señaris Rodríguez<sup>2</sup>, Manuel Sánchez Andújar<sup>2</sup>, Socorro Castro García<sup>2</sup>, Abilio de Jesus Monteiro Almeida<sup>3</sup>, Joaquim Agostinho Moreira<sup>3</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Universidade da Coruña, <sup>3</sup>Universidade do Porto
- 17:00 Evaluation of magnetic properties La<sub>0,7</sub>Sr<sub>0,3</sub>MnO<sub>3</sub> obtained by Complex Polymerization Method** **I.P1.20**  
 Rafaela Luiz Pereira Santos<sup>1</sup>, Raimison Bezerra de Assis<sup>1</sup>, Girlene Gonçalves do Nascimento<sup>2</sup>, Renata Ferreira Sousa<sup>1</sup>, Elione Moura Carlos<sup>1</sup>, Fabiana Villela da Motta<sup>1</sup>, Mauricio Roberto Bomio Delmonte<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Ferrites Zn<sub>0,1</sub>Co<sub>0,9</sub>Fe<sub>2</sub>O<sub>4</sub> obtained by combustion reaction a proposal FSS, with great magnetic properties** **I.P1.21**  
 Giovanni Da Vinci Oliveira<sup>1</sup>, Alciney Miranda Cabral<sup>1</sup>, João Bosco Oliveira Lucena<sup>1</sup>, Ranilson Carneiro Filho<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte
- 17:00 Barium doping effect on spin-phonon coupling in La<sub>2</sub>NiMnO<sub>6</sub> double perovskite** **I.P1.22**  
 Diego Augusto Batista Barbosa<sup>1</sup>, Carlos William Araujo Paschoal<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Structural and optical properties of modified Lead Titanate** **I.P1.23**  
 Osmany Garcia Zaldivar<sup>1</sup>, Gustavo de Jesus Lopez Nunez<sup>2</sup>, J.M Yáñez Limón<sup>3</sup>, M.C Rodriguez Aranda<sup>3</sup>, Arbelio Penton Madrigal<sup>1</sup>, Yanela Mendez Abreu<sup>1</sup>, Fransisco Calderón Piñar<sup>1</sup>; <sup>1</sup>Universidad de la Habana, <sup>2</sup>Universidade Federal da Integração Latino, <sup>3</sup>CINVESTAV
- 17:00 Processing and characterization of physical properties of (Bi<sub>0,5</sub>Na<sub>0,5</sub>)TiO<sub>3</sub>-BaTiO<sub>3</sub> lead-free piezoceramics** **I.P1.24**  
 Giovanna Cristina da Silva Batista<sup>1</sup>, Manuel Henrique Lente<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo - Instituto de Ciência e Tecnologia
- 17:00 Study of Optical Properties of Polyvinylidene Fluoride (PVDF)** **I.P1.25**  
 Glauciane Gonçalves Leite<sup>1</sup>, Danilo Umbelino Figueiredo<sup>1</sup>, Evaristo Alexandre Falcão<sup>1</sup>, Eriton Rodrigo Botero<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal da Grande Dourados
- 17:00 Ferroelectric local investigation by piezoresponse force microscopy** **I.P1.26**  
 José Antônio Eiras, André Marino Gonçalves
- 17:00 Grain size influence on the magnetic and dielectric properties of magnetoelectric La<sub>0,7</sub>Ba<sub>0,3</sub>MnO<sub>3</sub>-BaTiO<sub>3</sub> composites** **I.P1.27**  
 José Luis Clabel<sup>1</sup>, Victor Anthony Garcia Rivera, Fabio Luis Zabotto<sup>2</sup>, Claudio Antonio Cardoso<sup>2</sup>, Ducinei Garcia<sup>2</sup>, Fabio Aparecido Ferri<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP, <sup>2</sup>Universidade Federal de São Carlos



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session J.OR1 (09:45 - 10:45) - Room E

- 09:45 Using soft x-rays to look into (buried) interfaces of energy conversion devices** **J.OR1.1\***  
 Clemens Heske<sup>1,2</sup>; <sup>1</sup>Karlsruhe Institute of Technology, <sup>2</sup>University of Nevada, Las Vegas
- 10:15 Surface structure characterization of ultra-thin films of Au deposited on Pd(111)** **J.OR1.2**  
 Alexandre Pancotti<sup>1</sup>, Abner de Siervo<sup>2</sup>, Pedro Augusto de Paula Nascente<sup>3</sup>, Richard Landers<sup>2</sup>; <sup>1</sup>Universidade Federal de Goiás - Campus de Jataí, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 10:30 Niobium-based nanostructured thin films: Synthesis and characterizations.** **J.OR1.3**  
Ary da Silva Maia<sup>1,2</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Stéphanie Députier<sup>2</sup>, Valerie Demange<sup>2</sup>, Valérie Bouquet<sup>2</sup>, Maryline Guilloux-Viry<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Université de Rennes 1

#### Session J.OR2 (11:15 - 12:30) - Room E

- 11:15 Deposition and characterization of nitrides thin films resistant to high temperature oxidation** **J.OR2.4**  
Eduardo Kirinus Tentardini<sup>1</sup>, Renata Gomes Carvalho<sup>1</sup>, Flavio Gustavo Ribeiro Freitas<sup>1</sup>, Daniel Felix Santos<sup>1</sup>, Roberto Hubler<sup>2</sup>, Agenor Hentz<sup>3</sup>, Daniel Angel Ramirez Fernandez<sup>1</sup>, Lucas Campos Felix<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe, <sup>2</sup>Pontificia Universidade Católica do Rio Grande do Sul, <sup>3</sup>Universidade Federal do Rio Grande do Sul
- 11:30 Characterization of TiNb thin films on AISI 316L stainless steel for biomedical applications** **J.OR2.5**  
Terlize Cristina Niemeyer<sup>1,2</sup>, Ernesto David Gonzalez<sup>1</sup>, Carlos Alberto Fonzar Pintão<sup>2</sup>, Pedro Augusto de Paula Nascente<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP
- 11:45 Self-similar Structures in Hydrophobic Amorphous Carbon Films** **J.OR2.6**  
Julio Miranda Pureza<sup>1</sup>, Marcio José Particheli<sup>1</sup>, Ricardo Antonio de Simone Zanon<sup>1</sup>, Monica de Mesquita Lacerda<sup>2</sup>; <sup>1</sup>Fundação Universidade do Estado de Santa Catarina, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 12:00 On the Electrostatic Component of Friction Force at Interfaces under Relative Motion** **J.OR2.7**  
Thiago A L Burgo<sup>1,2,3</sup>, Fernando Galembeck<sup>1,3</sup>, Ali Erdemir<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Argonne National Laboratory, <sup>3</sup>Laboratório Nacional de Nanotecnologia

#### Session J.OR3 (14:00 - 15:15) - Room E

- 14:00 Metal-organic contacts and heteromolecular hybrid interfaces: Geometric and electronic fingerprints of the interaction strength** **J.OR3.8\***  
Christian Kumpf<sup>1</sup>; <sup>1</sup>Forschungszentrum Jülich
- 14:30 Observing magnetic cobalt clusters underneath graphene on SiC(0001).** **J.OR3.9**  
Luis Henrique de Lima<sup>1</sup>, Richard Landers<sup>1</sup>, Abner de Siervo<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 14:45 Development of new hybrid magnetic nanostructures** **J.OR3.10**  
Oana Pascu<sup>1</sup>, Sergiu Calancea<sup>2</sup>, Maria das Gracas Fialho Vaz<sup>2</sup>, Miguel Alexandre Novak<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade Federal Fluminense
- 15:00 \*\*\* CANCELLED \*\*\* Role of Antiferromagnetic Ordering in the (1 × 2) Surface Reconstruction of Ca(Fe<sub>1-x</sub>Co<sub>x</sub>)<sub>2</sub>As<sub>2</sub>** **J.OR3.11**  
 Guorong Li<sup>1</sup>, Liangbo Liang<sup>2</sup>, Qing Li<sup>3</sup>, Ming Hu Pan<sup>3</sup>, Von Braun Nascimento<sup>4,1</sup>, Xiaobo He<sup>1,5</sup>, Amar B Karki<sup>1</sup>, Vincent Meunier<sup>2</sup>, Rongying Jin<sup>1</sup>, Jiandi Zhang<sup>1</sup>, Ward Plummer<sup>1</sup>; <sup>1</sup>Louisiana State University, <sup>2</sup>Rensselaer Polytechnic Institute, <sup>3</sup>Oak Ridge National Laboratory, <sup>4</sup>Universidade Federal de Minas Gerais, <sup>5</sup>Princeton University

## Poster presentations

### Session J.P1 (17:00 - 19:00)

- 17:00 Construction of a Josephson junction in superconducting thin films system  $\text{Bi}_{1.8}\text{Pb}_{0.4}\text{Sr}_2\text{CaCu}_2\text{O}_x$  heat treated in a conventional microwave oven.** J.P1.1  
 Gustavo Quereza Freitas<sup>1</sup>, Cláudio Luiz Carvalho<sup>2</sup>, Rafael Zadorosny<sup>2</sup>, Cicero Rafael Cena<sup>3</sup>, Jeferson A Moreto<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia Goiano, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 17:00 Nanoscale assemblies of metal-free organic magnets: Electronic structure and stability from ultra high vacuum to air exposure** J.P1.2  
Francesca Ciccullo<sup>1</sup>, Benedetta Casu<sup>1</sup>; <sup>1</sup>University of Tübingen
- 17:00 B3N3 doped nanographene on Au(111) single crystals** J.P1.3  
Benedetta Casu, Francesca Ciccullo
- 17:00 Electronic and structural properties in thermally annealed PSiF-DBT:PC<sub>71</sub>BM blends for organic photovoltaics** J.P1.4  
 Bruno Gabriel Alves Leite Borges<sup>1</sup>, Cleber Fabiano Marchiori<sup>2</sup>, Mathias Glaser<sup>3</sup>, Yunier Garcia Basabe<sup>1</sup>, Carlos Eduardo Vieira de Moura<sup>1</sup>, Alexandre B. Rocha<sup>1</sup>, Lucimara Stolz Roman<sup>2</sup>, Thomas Chassé<sup>3</sup>, Benedetta Casu<sup>3</sup>, Maria Luiza Miranda Rocco<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade Federal do Paraná, <sup>3</sup>Universität Tübingen
- 17:00 TiO<sub>2</sub> thin films production by different deposition techniques and their use as biomedical sensor in EGFET devices** J.P1.5  
 Jessica Colnaghi Fernandes<sup>1</sup>, Marcelo Mulato<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Aluminum arc spray coatings for evaporative condenser piping system** J.P1.6  
Luis Felipe Sverzut Baroni<sup>1</sup>, Carlos Alberto Della Rovere<sup>1</sup>, Rodrigo Silva<sup>1</sup>, Sebastião Elias Kuri<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Humidity sensing effect in Bi-based ferrite compounds** J.P1.7  
Emersson Eduardo Espinosa Velez<sup>1</sup>, Gabriel Cabrera Pasca<sup>1</sup>, José Antonio Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Determination of shear strength of single-lap joints for different thicknesses of the bonded layer** J.P1.8  
Matheus Porto Trindade<sup>1</sup>, Adiana Nascimento Silva<sup>2</sup>, Silvio de Barros<sup>3</sup>, Ana Cristina Ribeiro Veloso<sup>1</sup>, Jaqueline Dias Altidis<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe, <sup>2</sup>Universidade Federal Rural do Semi Árido, <sup>3</sup>Centro Federal de Educação Tecnológica Celso Suckow da Fonseca
- 17:00 Anharmonicity in structural properties of solid surfaces** J.P1.9  
José Nicodemus Teixeira Rabelo<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás
- 17:00 Surface properties of extruded and laminated 304 steel textured by laser** J.P1.10  
Maria Fernanda Romeu Lino de Souza<sup>1,2</sup>, Paula Cardoso Lauar<sup>1,2</sup>, José Guilherme Simões<sup>2</sup>, Rudimar Riva<sup>2</sup>, Walter Miyakawa<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Instituto de Estudos Avançados
- 17:00 XPS analysis of SS304 surfaces modified by nitrogen PIII using magnetic field** J.P1.11  
Nazir Monteiro dos Santos<sup>1</sup>, Elver Juan de Dios Mitma Pillaca<sup>1</sup>, Mario Ueda<sup>1</sup>; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Electrical properties of metallic thin films applied as radar absorber materials** J.P1.12  
Rafael Gallina Delatorre<sup>1</sup>, Caio Otavio Rodrigues<sup>1</sup>, Hugo Borges de Quadros<sup>2</sup>, André Avelino Pasa<sup>1</sup>, Mirabel Cerqueira Rezende<sup>3</sup>, Viviane Lilian Soethe<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Instituto Tecnológico de Aeronáutica, <sup>3</sup>Universidade Federal de São Paulo
- 17:00 Effect of sodium lithium carbonate on the microstructure development and electrical conductivity of different surface area of gadolinia-doped ceria** J.P1.13  
Edson Cezar Grzebielucka<sup>1</sup>, Dulcina Pinatti Ferreira de Souza<sup>2</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Mapping the E-Field in the Dielectric Layer of Organic Transistors By SFG Spectroscopy** J.P1.14  
Douglas José Correia Gomes<sup>1</sup>, Silvia Genaro Motti<sup>2</sup>, Paulo Barbeitas Miranda<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Politecnico di Milano
- 17:00 Atmospheric Pressure Plasma treatment on Aluminium Alloys for Enhancement of Paint Adhesion Properties** J.P1.15  
Taiana She Mir Mui<sup>1</sup>, Leide Lili Gonçalves da Silva<sup>1</sup>, Kontantin Georgiev Kostov<sup>1</sup>, Vadym Prysiashnyi<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"- Campus Guaratinguetá



- 17:00 Ge surface/interface properties using DFT calculations and HRTEM/HRSTEM** **J.P1.16**  
Corinne Arrouvel<sup>1</sup>, Jacques Werckmann<sup>2</sup>, Andrea Porto<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 17:00 Study of the influence of ionic liquid on electrical dielectrical emi shielding and crystallinity properties on pvdf/polyaniline composites** **J.P1.17**  
Ketly Pontes Soares<sup>1</sup>, Jessica Marins<sup>2</sup>, Loan Filipi Calheiros Souto<sup>1</sup>, Guilherme Mariz de Oliveira Barra<sup>3</sup>, Sebastián Livi<sup>4</sup>, Bluma Guenther Soares<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloísa Mano, <sup>2</sup>Instituto de Macromoléculas Professora Eloísa Mano, <sup>3</sup>Universidade Federal de Santa Catarina, <sup>4</sup>Ingénierie des Matériaux Polymères
- 17:00 Dielectric study of the composite magnesium titanate – Yttrium iron garnet and dielectric resonator antenna applications.** **J.P1.18**  
Hans Kelsen Menezes Matias<sup>1</sup>, Dario Delgado Assunção<sup>1</sup>, Symon Costa Fernandes dos Reis<sup>1</sup>, Tatiana Sainara Maia Fernandes<sup>1</sup>, Marcelo Antonio Santos da Silva<sup>1</sup>, Antonio Sérgio Bezerra Sombra<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Quantitative test of the 'surface trans-effect' in an adsorbed metal-organic complex** **J.P1.19**  
Francesco Allegretti<sup>1</sup>, Peter S. Deimel<sup>1</sup>, David A. Duncan<sup>2</sup>, Tien-Lin Lee<sup>2</sup>, Pardeep K. Thakur<sup>2</sup>, Philip J. Blowey<sup>3</sup>, Luke Rochford<sup>3</sup>, D.P. Woodruff<sup>3</sup>, Johannes V. Barth<sup>1</sup>; <sup>1</sup>Physik-Department E20, TU Munich, <sup>2</sup>Diamond Light Source, Didcot, <sup>3</sup>University of Warwick

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session J.OR4 (09:45 - 10:45) - Room E

- 09:45 Theoretical spectroscopy of organic/inorganic interfaces: Concepts and challenges** **J.OR4.12\***  
Claudia Draxl<sup>1</sup>; <sup>1</sup>Humboldt-Universitaet zu Berlin
- 10:15 When electrons transfer as single charges - theoretical insights on organic/insulator/metal interfaces** **J.OR4.13**  
Oliver T Hofmann<sup>1</sup>, Patrick Rinke<sup>2</sup>, Matthias Scheffler<sup>3</sup>, Georg Heimel<sup>4</sup>; <sup>1</sup>Graz University of Technology, <sup>2</sup>Aalto University / Aalto-yliopisto, <sup>3</sup>Fritz-Haber Institute, <sup>4</sup>Humboldt Universität zu Berlin
- 10:30 Expanding the range of applications of AlN through its scalability at the 2D limit** **J.OR4.14**  
Gueorgui Kostov Gueorguiev, Anelia Kakanakova-Georgieva, Renato Batista Santos, Roberto Rivelino, Fernando de Brito Mota

#### Session J.OR5 (11:15 - 12:30) - Room E

- 11:15 Multiscale Modeling of the Adsorption of Petroleum Model Compounds on Kaolinite Surfaces in Toluene and Dense CO<sub>2</sub> Solvents** **J.OR5.15**  
Mateus Ribeiro Lage<sup>1,2,3</sup>, Stanislav R. Stoyanov<sup>2,3</sup>, José Walkimar de Mesquita Carneiro<sup>1</sup>, Andriy Kovalenko<sup>2,3</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>University of Alberta, <sup>3</sup>National Institute for Nanotechnology
- 11:30 Developemnt of eco-friendly biosorbent for heavy metal adsorption** **J.OR5.16**  
Fernanda Guerra Lima Medeiros Borsagli<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 11:45 Evaluation of (bio)degradation of electron beam-cured print inks on plastic packaging materials** **J.OR5.17**  
Marcelo Augusto Gonçalves Bardi<sup>1</sup>, Rafael Auras<sup>2</sup>, Luci Diva Brocardo Machado<sup>3</sup>; <sup>1</sup>Universidade São Francisco, <sup>2</sup>Michigan State University, <sup>3</sup>Comissão Nacional de Energia Nuclear

### Poster presentations

#### Session J.P2 (17:00 - 19:00)

- 17:00  $\beta$ -Ag<sub>2</sub>WO<sub>4</sub>: the formation of a composite from a meta stable phase in the presence of incident electron beam** **J.P2.20**  
Pablo Santana Lemos<sup>1</sup>, Román Alvarez Roca<sup>2,3</sup>, Içamira Costa Nogueira<sup>4</sup>, Laécio Santos Cavalcante<sup>5,6</sup>, Elson Longo<sup>7,8</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus Araras, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Universidade Federal de Itajubá, <sup>4</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, MA, <sup>5</sup>Universidade Estadual do Piauí, <sup>6</sup>UNIVERSIDADE ESTADUAL DO PIAUI, <sup>7</sup>Universidade Estadual Paulista, <sup>8</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 17:00 Effect of partial glycolysis of unsaturated polyester residue on morphology of polypropylene particulate composites** **J.P2.21**  
Sandro Manoel da Silva Júnior<sup>1</sup>, Yuri Lincoln Marques Bastos<sup>2</sup>, Emerson J. F. T. Luiz<sup>2</sup>, Marciano Furukava<sup>2</sup>, Ciliana Regina Colombo<sup>2</sup>, Eliton Souto Medeiros<sup>1</sup>, Carlos Alberto Paskocimas<sup>2</sup>, Amélia Severino Ferreira e Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Analysis of dielectric response in replacement Mg<sup>2+</sup> in place of Ca<sup>2+</sup> in the ceramic CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub>** **J.P2.22**  
Carolina Lourenço<sup>1</sup>, Johan Alexander Cortes Suarez<sup>1</sup>, Santiago Orrego<sup>1</sup>, Miguel Angel Ramirez Gil<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Guaratinguetá, UNESP
- 17:00 Development of ceramic material (Nb<sub>2</sub>O<sub>5</sub>) for applications in the microwave devices** **J.P2.23**  
José de Arimatéia Pinto Magno<sup>1</sup>, Idalmir de Souza Queiroz Júnior<sup>1</sup>, Humberto Dionisio de Andrade<sup>1</sup>, Samanta Mesquita de Holanda<sup>1</sup>, DANILO DE SOUZA<sup>1</sup>, Jorge de Almeida Silveira<sup>1</sup>; <sup>1</sup>Universidade Federal Rural do Semi Árido

- 17:00 Dielectric study of  $\text{Al}_2\text{O}_3$ - $\text{CaTiO}_3$  composites in radiofrequency and temperature effect.** **J.P2.24**  
 Lindemberg de Sousa Oliveira<sup>1</sup>, Dario Delgado Assunção<sup>2</sup>, Marcelo Antonio Santos da Silva<sup>2</sup>, Antonio Sérgio Bezerra Sombra<sup>2</sup>, Daniel Xavier Gouveia<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Ceará, <sup>2</sup>Universidade Federal do Ceará
- 17:00 Interaction Between  $\text{TiO}_2$  and ILs From Active Pharmacological Ingredients (APIs)** **J.P2.25**  
Clarissa Piccinin Frizzo<sup>1</sup>, Caroline Raquel Bender<sup>1</sup>, Paulo Roberto dos Santos Salbego<sup>1</sup>, Keli Maiara Wust<sup>1</sup>, Thaíssa Silva Beck<sup>1</sup>, Carla Andressa de Almeida Farias<sup>1</sup>, Marcos Antonio Pinto Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Maria
- 17:00 DIELECTRIC STUDY OF  $\text{Al}_2\text{O}_3$  WITH ADDITION OF  $\text{Nb}_2\text{O}_5$  FOR APPLICATIONS IN RADIOFREQUENCY** **J.P2.26**  
Luiz Nonato Lopes de Oliveira<sup>1</sup>, Raphael Victor Barros Campos<sup>1</sup>, Dario Delgado Assunção<sup>2</sup>, Daniel Xavier Gouveia<sup>1</sup>, Marcelo Antonio Santos da Silva<sup>2</sup>, Antonio Sérgio Bezerra Sombra<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Ceará, <sup>2</sup>Universidade Federal do Ceará
- 17:00 The effect of  $\text{TiO}_2$  addition and temperature in ceramic matrix  $\text{Sr}_2\text{CoNbO}_6$ .** **J.P2.27**  
 José Eduardo Vasconcelos Morais<sup>1</sup>, Hans Kelsen Menezes Matias<sup>1</sup>, Marcelo Antonio Santos da Silva<sup>1</sup>, Daniel Benevides da Costa<sup>1</sup>, Antonio Sérgio Bezerra Sombra<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Strain measurements by medium energy scattering : Ge implanted Si** **J.P2.28**  
Tiago Silva de Ávila<sup>1</sup>, Pedro Luis Grande<sup>2</sup>, Paulo F. P. Fichtner<sup>2</sup>, Vladimir Popov<sup>3</sup>, Agenor Hentz<sup>2</sup>; <sup>1</sup>Instituto de Física - Universidade Federal do Rio Grande do Sul, <sup>2</sup>Universidade Federal do Rio Grande do Sul, <sup>3</sup>Institute of Semiconductor Physics
- 17:00 Dielectric study of the composite magnesium titanate – lithium ferrite and dielectric resonator antenna applications** **J.P2.29**  
Dario Delgado Assunção<sup>1</sup>, Hans Kelsen Menezes Matias<sup>1</sup>, Symon Costa Fernandes dos Reis<sup>1</sup>, Tatiana Sainara Maia Fernandes<sup>1</sup>, Marcelo Antonio Santos da Silva<sup>1</sup>, Antonio Sérgio Bezerra Sombra<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Structural surface charge density of conventional and core/shell ferrite nanoparticle used on aqueous ferrofluids elaboration** **J.P2.30**  
Laudenira Vieira Viana<sup>1</sup>, Francisco Augusto Tourinho<sup>1</sup>, Jerome Depeyrot<sup>1</sup>, Alex Fabiano Cortez Campos<sup>1</sup>, Renata Aquino<sup>1</sup>; <sup>1</sup>Universidade de Brasília
- 17:00 Corrosion resistance improvement of 304 steel textured by laser** **J.P2.31**  
Maria Fernanda Romeu Lino de Souza<sup>1,2</sup>, Eduardo Saito<sup>1</sup>, Marcos Massi<sup>1</sup>, José Guilherme Simões<sup>2</sup>, Rudimar Riva<sup>2</sup>, Walter Miyakawa<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Instituto de Estudos Avançados
- 17:00 Study Behavior of Gas Carburizing in P20 Steel by Arrhenius and Fick's laws of diffusion** **J.P2.32**  
Luciana Sgarbi Rossino<sup>1,2</sup>, Cleiton Tiago Rodrigues Oliveira<sup>2</sup>, Henrique Solowej Medeiros Lopes<sup>2</sup>, Jéferson Aparecido Moreto<sup>3</sup>, Marcos Dorigão Manfrinato<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba, <sup>2</sup>Faculdade de Tecnologia, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia Goiano
- 17:00 First-principles molecular dynamics simulation of pentanoic acid adsorption on  $\alpha$ - $\text{Al}_2\text{O}_3$**  **J.P2.33**  
 André Luis Martinotto<sup>1</sup>, Jaine Webber<sup>1</sup>, Janete Eunice Zorzi, Robinson Carlos Dudley Cruz<sup>1</sup>, Cláudio Antônio Perottoni; <sup>1</sup>Universidade de Caxias do Sul, Centro de Ciências Exatas e da Tecnologia, RS, Brazil
- 17:00 Electrical conduction mechanism for interface of  $\alpha$ - $\text{Ag}_2\text{WO}_4$  and  $\alpha$ - $\text{Ag}_{2-x}\text{WO}_4$  with nanoparticles in the surface** **J.P2.34**  
Felipe Gollino<sup>1</sup>, Román Alvarez Roca<sup>2,3</sup>, Alberico Borges Ferreira da Silva<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Universidade Federal de Itajubá
- 17:00 Microstructures of automotive DP600 steel thermally treated by laser** **J.P2.35**  
Paula Cardoso Lauer<sup>1,2</sup>, Maria Fernanda Romeu Lino de Souza<sup>1,2</sup>, Walter Miyakawa<sup>1</sup>, Davi Neves<sup>1</sup>, Milton Sergio Fernandes de Lima<sup>1</sup>, Rudimar Riva<sup>1</sup>; <sup>1</sup>Instituto de Estudos Avançados, <sup>2</sup>Universidade Federal de São Paulo, São José dos Campos
- 17:00 Dielectric properties in radiofrequency of ceramic matrix  $\text{Bi}_5\text{FeTi}_3\text{O}_{15}$**  **J.P2.36**  
 Caio Leite Bezerra<sup>1</sup>, Denis Valony Martins Paiva<sup>2</sup>, Raphael Victor Barros Campos<sup>1</sup>, Symon Costa Fernandes dos Reis<sup>2</sup>, Marcelo Antonio Santos da Silva<sup>2</sup>, Antonio Sérgio Bezerra Sombra<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Ceará, <sup>2</sup>Universidade Federal do Ceará
- 17:00 Dielectric modeling by equivalent circuits of CTO-YIG composite in impedance measurements in radiofrequency range** **J.P2.37**  
Denis Valony Martins Paiva<sup>1</sup>, Marcelo Antonio Santos da Silva<sup>1</sup>, Pierre Basílio Almeida Fechine<sup>1</sup>, Antonio Sérgio Bezerra Sombra<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará

**17:00 Morphological Investigation of Timplate Coating for Food Packaging**

**J.P2.38**

Bruna Sanmartin Vargas<sup>1</sup>, Sabrina Neves da Silva<sup>1</sup>, Luciana Machado Rodrigues<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Pampa

**17:00 Study of effect of TiO<sub>2</sub> addition in ceramic matrix alumina in the dielectric properties by impedance spectroscopy**

**J.P2.39**

Raphael Victor Barros Campos<sup>1</sup>, Luiz Nonato Lopes de Oliveira<sup>1</sup>, Caio Leite Bezerra<sup>1</sup>, Marcelo Antonio Santos da Silva<sup>2</sup>, Daniel Xavier Gouveia<sup>1</sup>, Antonio Sérgio Bezerra Sombra<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Ceará, <sup>2</sup>Universidade Federal do Ceará





## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session K.OR1 (09:45 - 10:45) - Room 04

- 09:45 Effects of moisture on the interaction between an unsized carbon fibre and an epoxy-based polymer** **K.OR1.1\***  
Michael Noeske<sup>1</sup>, Katharina Maria Adamow, Stefan Dieckhoff; <sup>1</sup>Fraunhofer Institute for Manufacturing Technology and Advanced Materials
- 10:15 FUSION BOND EPOXY: Interfacial, Morphological and Mineralogical Characterization** **K.OR1.2**  
Patricia Alves Saliba<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Dagoberto Brandão Santos<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 10:30 Injection barrier at the metal-semiconductor interface as only one of many parameters determining the contact resistance of organic transistors** **K.OR1.3**  
 Karin Zojer<sup>1</sup>, Egbert Zojer<sup>1</sup>, Anton Fernandez Fernandez<sup>1</sup>, Manfred Gruber<sup>1</sup>; <sup>1</sup>Graz University of Technology

#### Session K.OR2 (11:15 - 12:30) - Room 04

- 11:15 Joining organic semiconducting components and surfaces in molecular electronic devices** **K.OR2.4\***  
Jan-Ole Joswig<sup>1</sup>, Regina Luschtinetz<sup>1</sup>, Gotthard Seifert<sup>1</sup>; <sup>1</sup>Technical University Dresden
- 11:45 Understanding the formation of Janus particles from Nano Droplets of Alkyl Thiols** **K.OR2.5\***  
Jayant Kumar Singh<sup>1</sup>, Debdeep Bhandary, Vasumathi Valechi, Maria Cordeiro; <sup>1</sup>Indian Institute of Technology Kanpur
- 12:15 Fatigue lifetime prediction of adhesively bonded joints using Finite Element Analysis** **K.OR2.6**  
Vinicius Carrillo Beber<sup>1</sup>, Pedro Henrique Fernandes<sup>1</sup>, Juliana Espada Fragato<sup>1</sup>, Bernhard Schneider<sup>1</sup>, Markus Brede<sup>1</sup>; <sup>1</sup>Institute for Manufacturing Technology and Advanced Materials Fraunhofer IFAM

#### Session K.OR3 (14:00 - 15:15) - Room 04

- 14:00 Efficient charge carrier injection into solution processed single- and tandem-OLEDs** **K.OR3.7\***  
 Stefan Höfle<sup>1</sup>, Min Zhang<sup>1</sup>, Christoph Bernhard<sup>1</sup>, Alexander Schienle<sup>1</sup>, Alexander Colsmann<sup>1</sup>; <sup>1</sup>Karlsruhe Institute of Technology
- 14:30 Computational modelling to support novel material design** **K.OR3.8**  
Vinicius Carrillo Beber<sup>1</sup>, Lucas Taveira Caleiro<sup>2,1</sup>, Kelen Menezes Flores Rossi de Aguiar<sup>3</sup>, Jan-Ole Joswig<sup>4</sup>, Ubirajara Pereira Rodrigues Filho<sup>3</sup>, Michael Noeske<sup>1</sup>, Klaus Rischka<sup>1</sup>, Welchy Leite Cavalcanti<sup>1</sup>; <sup>1</sup>Fraunhofer Institute for Manufacturing Technology and Advanced Materials, <sup>2</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>3</sup>Instituto de Química de São Carlos- Universidade de São Paulo, <sup>4</sup>Technische Universität Dresden
- 14:45 Low-temperature nitriding kinetics of different martensitic stainless steels** **K.OR3.9**  
 Lauro Mariano Ferreira<sup>1</sup>, Silvio Francisco Brunatto<sup>1</sup>, Rodrigo Perito Cardoso<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná
- 15:00 Application of Hybrid Organic/Inorganic Polymers as Coatings on Metallic Substrates** **K.OR3.10**  
Tiago da Rosa Augustinho<sup>1</sup>, Silvia Adriana Collins Abarca<sup>1</sup>, Günter Motz<sup>2</sup>, Ricardo AF Machado<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Universität Bayreuth

### Poster presentations

#### Session K.P1 (17:00 - 19:00)

- 17:00 Synthesis and colorimetric characterization of inorganic nanopigments  $\text{CoAl}_{1.95}\text{O}_4:0.05\text{Cr}^{3+}$  and  $\text{Zn}_{0.8}\text{Al}_2\text{O}_4:0.2\text{Co}^{2+}$  by solution combustion** **K.P1.1**  
Edgar Andres Chavarriaga<sup>1</sup>, Alex Arbey Lopera<sup>1</sup>, Juan Fernando Montoya<sup>1</sup>, Juan Camilo Restrepo Gutierrez<sup>1</sup>, Oscar Jaime Restrepo Baena<sup>1</sup>; <sup>1</sup>Universidad Nacional de Colombia

- 17:00 Functionalization of hydrophobic polymeric surfaces with laccase enzyme and antimicrobial peptides** **K.P1.2**  
Yendry Corrales Urena<sup>1</sup>, Klaus Rischka<sup>2</sup>, Linda Wittig<sup>2</sup>, Matheus Vieira<sup>3</sup>, Michael Noeske<sup>2</sup>, Juliano Luiz Faccioni<sup>4</sup>, Paulo Noronha Lisboa-Filho<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Fraunhofer Institute for Manufacturing Technology and Advanced Materials, <sup>3</sup>Universidade Federal do Ceará, <sup>4</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Spectroscopic studies of the interaction between a biosurfactant with polymeric micelles** **K.P1.3**  
Rosemaire Souza Santana<sup>1</sup>, Nelida Simona Marin<sup>1</sup>, Grace Gosmann<sup>2</sup>, Luiz Carlos Salay<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Hybrid nanoparticles based on cyclodextrins and Pd(0) immobilized tramadol** **K.P1.4**  
 Luiz Fernando Brum Malta<sup>1</sup>, Suellen Dayenn Tozetti de Barros<sup>1</sup>, Jaqueline Dias Senra<sup>2</sup>, Luzineide W. Tinoco<sup>1</sup>, Renata Simao<sup>1</sup>, Elizabeth Roditi Lachter<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Epoxy structural adhesives characterization using differential scanning calorimetry and infrared spectroscopy by attenuated reflectance** **K.P1.5**  
Pedro Henrique Almeida<sup>1</sup>, Rodrigo Barreto Caldas<sup>1</sup>, Carlos Alberto Cimini Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Using the “polyol synthesis” as a simple tool for preparing hybrid TiO<sub>2</sub>@Ag nanocomposites** **K.P1.6**  
Evandro Ivanov<sup>1</sup>, Paola Corio<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Evaluation of physical and physicochemical properties of knitted fabrics PES/CO, covered with PVP and cross-linked via UV-C radiation** **K.P1.7**  
Ivoneite Oliveira Barcellos<sup>1</sup>, Giovana Aparecida Vieira<sup>1</sup>, Ana Paula Wunsch Boitt<sup>1</sup>, Ana Paula Serafini Immich Boemo<sup>2</sup>, Antonio Augusto de Souza<sup>2</sup>; <sup>1</sup>Universidade Regional de Blumenau, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Study and characterization of thermomdiffusion vanadium carbide on tool steels applied to plastic deformation and cutting of metallic materials** **K.P1.8**  
Djoille Denner Damm<sup>1</sup>, Kalil Almeida Figueiredo<sup>1</sup>, Saulo Emílio Guerrieri Araújo Damm<sup>2</sup>, Stephanie Gonçalves Nunes<sup>3</sup>, Patrícia Cristiane Santana Silva<sup>4</sup>, Andre Contin<sup>4</sup>, Lhaira Souza Barreto<sup>1</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>, Danilo Maciel Barquete<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Federal Rural do Rio de Janeiro, <sup>3</sup>Universidade Federal do Rio Grande do Sul, <sup>4</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Analysis and study of diamond growth HFCVD on carbon steels using the vanadium carbide interface applied to cutting tools** **K.P1.9**  
Djoille Denner Damm<sup>1</sup>, Kalil Almeida Figueiredo<sup>1</sup>, Saulo Emílio Guerrieri Araújo Damm<sup>2</sup>, Stephanie Gonçalves Nunes<sup>3</sup>, Lhaira Souza Barreto<sup>1</sup>, Patrícia Cristiane Santana Silva<sup>4</sup>, Andre Contin<sup>4</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>, Danilo Maciel Barquete<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Federal Rural do Rio de Janeiro, <sup>3</sup>Universidade Federal do Rio Grande do Sul, <sup>4</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Synthesis and Characterization an Intercalation Bond of Nitronyl-nitroxide Radicals into Fluoromica Clay** **K.P1.10**  
Sina Klabunde<sup>1</sup>, Zhaoyang Zeng<sup>1</sup>, Carsten Doerenkamp<sup>1</sup>, Marcos Oliveira Junior<sup>2</sup>, Hellmut Eckert<sup>2,1</sup>; <sup>1</sup>Westfälische Wilhelms-Universität Münster, <sup>2</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 Mesoporous silica MCM-41 with hybrid walls in an alkaline condition** **K.P1.11**  
Ana Rosa Fusco<sup>1</sup>, Marcos Bizeto<sup>1</sup>, Celso Molina<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Modification of silanized polyaniline by silicon oil infusion in order to obtain an anti-scaling surface** **K.P1.12**  
Maria de Fátima Brito Sousa<sup>1</sup>, Guilherme Fiorezi Barbosa<sup>1</sup>, Filipe Signorelli<sup>1</sup>, Mônica de Oliveira Penna<sup>2</sup>, Celso Aparecido Bertran<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>PETROBRAS
- 17:00 Experimental evaluation of thermomdiffusion process vanadium carbide on AISI D2 steel for high-performance tools** **K.P1.13**  
Kalil Almeida Figueiredo<sup>1</sup>, Djoille Denner Damm<sup>1</sup>, Danilo Maciel Barquete<sup>1</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>, Joao Thiago de Guimaraes Anchieta e Araujo Campos<sup>2</sup>, Lhaira Souza Barreto<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Federal da Bahia
- 17:00 Study of DLC thin films deposited by PECVD with vanadium carbide interface** **K.P1.14**  
Kalil Almeida Figueiredo<sup>1</sup>, Djoille Denner Damm<sup>1</sup>, Danilo Maciel Barquete<sup>1</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>, Joao Thiago de Guimaraes Anchieta e Araujo Campos<sup>2</sup>, Thallis Leal Almeida<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade Federal da Bahia
- 17:00 Incorporation of [Fe(CN)<sub>5</sub>(L)]<sup>3-</sup> type complexes in chitosan** **K.P1.15**  
 Natanna Azevedo de Aguiar<sup>1</sup>, Thiago dos Santos Francisco<sup>1</sup>, Maria Aparecida Santiago da Silva<sup>1</sup>, Izaura Cirino Nogueira Diógenes<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará



- 17:00 Improving the Bonding Performance of a Thermoplastic Elastomer for an Adhesive Technical Process** **K.P1.16**  
 Geovana de Avila Bockorny<sup>1</sup>, Maria Madalena de Camargo Forte<sup>1</sup>, Stephani Stamboroski<sup>2</sup>, Michael Noeske<sup>3</sup>, Andreas Keil<sup>3</sup>, Welchy Leite Cavalcanti<sup>3</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Universidade Federal de Santa Catarina, <sup>3</sup>Fraunhofer Institute for Manufacturing Technology and Advanced Materials
- 17:00 Tribological Improvement of Stellite using Diamondlike Carbon Coatings** **K.P1.17**  
Ricardo Assunção Santos<sup>1</sup>, Sérgio de Souza Camargo Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Carbon-fluorine thin films deposited by PECVD from 1,1,1,2-Tetrafluorethane (C<sub>2</sub>H<sub>2</sub>F<sub>4</sub>)** **K.P1.18**  
Mauro Meliga Wysard<sup>1</sup>, Sérgio de Souza Camargo Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Effect of sugarcane bagasse composition in an array of pet in thermal morfology and mechanical evaluation for subsequent application as an insulator** **K.P1.19**  
Fernanda Guerra Lima Medeiros Borsagli<sup>1</sup>, ALESSANDRO BORSAGLI<sup>2</sup>, ANDRÉ GUIMARÃES FERREIRA<sup>3</sup>, JOEL ROMANO BRANDÃO<sup>3</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Pontifícia Universidade Católica de Minas Gerais, <sup>3</sup>Centro Federal de Educação Tecnológica de Minas Gerais
- 17:00 BN formation from Fe<sub>2</sub>B by plasma nitriding** **K.P1.20**  
Adriano David dos Anjos<sup>1,2</sup>, Leon Deny W. P. Alcantara<sup>2</sup>, Silvio Francisco Brunatto<sup>2</sup>, Rodrigo Perito Cardoso<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Paraná, <sup>2</sup>Universidade Federal do Paraná
- 17:00 Obtaining of hybrid polymeric network between unsaturated polyester resin and epoxy resin** **K.P1.21**  
Ligia Reghin Reis<sup>1</sup>, José Ulisses Jansen<sup>2</sup>, Antônio Carlos Ancelotti Jr<sup>1</sup>, Alan Túlio Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Universidade de São Paulo
- 17:00 Delineation of patterns on the polyamide surface by plasma process** **K.P1.22**  
 Ricardo Shindi Hosokawa<sup>1</sup>, Elidiane Cipriano Rangel<sup>1</sup>, Nilson Cristino Cruz<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Sorocaba
- 17:00 Integrated treatment for color removal of Remazol Red dye solution - electrochemical oxidation and adsorption with perlite modified with chitosan** **K.P1.23**  
SHEILA PRICILA MARQUES CABRAL DE SOUZA<sup>1</sup>, Janiele Mayara Ferreira de Almeida<sup>1</sup>, Carlos Alberto Martinez Huitle<sup>1</sup>, NEDJA SUELY FERNANDES<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Fusion bond epoxy coating for pipes used in oil and gas industry: thermal behavior and silane/epoxy interphase chemistry** **K.P1.24**  
Patrícia Alves Saliba<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Detection of heavy metal ions using modified electrodes containing MWCNT-doped biopolymers** **K.P1.25**  
Jorge Augusto de Moura Delezuk<sup>1</sup>, Flávio Makoto Shimizu<sup>1</sup>, Osvaldo Novais Oliveira Jr<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Insights on the structural and physical properties of ODPa-ODA polyimide films via computational modelling** **K.P1.26**  
Barbara Priscila Andreon<sup>1</sup>, Fabio Augusto Souza Ferreira<sup>1,2</sup>, Vinicius Carrillo Beber<sup>1</sup>, Lucas Taveira Caleiro<sup>3,1</sup>, Ubirajara Pereira Rodrigues Filho<sup>2</sup>, Welchy Leite Cavalcanti<sup>1</sup>; <sup>1</sup>Fraunhofer Institute for Manufacturing Technology and Advanced Materials, <sup>2</sup>Instituto de Química de São Carlos - USP, <sup>3</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 TEPs-modified adhesives** **K.P1.27**  
Mariana Banea<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica Celso Suckow da Fonseca
- 17:00 Synthesis, Characterization and Hydrophobic Activity of Nanoparticle ZnO Functionalized by APTS.** **K.P1.28**  
Juliane Germano de Souza Gondim<sup>1</sup>, Eduardo Oliveira Gomes<sup>1</sup>, Carlos Alberto Paskocimas<sup>1</sup>, Fabiana Villela da Motta<sup>1</sup>, Mauricio Roberto Bomio Delmonte<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 The effect of ammonia salts on the synthesis of TiO<sub>2</sub> nanoparticles applied for photocatalytic water splitting** **K.P1.29**  
 Emerson Cristofer Kohlrausch<sup>1</sup>, Maximiliano Jesús Moreno Zapata<sup>1</sup>, Maurício Oliveira Vaz<sup>1</sup>, Pedro G. Demingos<sup>1</sup>, Jacqueline Ferreira<sup>1</sup>, Sérgio Ribeiro Teixeira<sup>1</sup>, Marcos Jose Leite Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Traction tests on resin composites polyester and fiber of leaf of miriti treated and untreated** **K.P1.30**  
Alynne De Souza Pedreira<sup>1</sup>, Rafael da Silva Sena<sup>1</sup>, Jean da Silva Rodrigues<sup>1</sup>, Sabina da Memória Cardoso de Andrade<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 17:00 Electrochemical recycling of Zn and Mn from exhausted alkaline batteries and their application as anti-corrosion coatings and electrochemical sensors** **K.P1.31**  
 Vinicius Guilherme Celante<sup>1</sup>, Magno Barcelos Costa<sup>1</sup>; <sup>1</sup>Federal institute of education, science and technology of Espírito Santo

- 17:00 Changing optical and electrical properties of ITO by ion bombardment** **K.P1.32**  
Gabriel Volkweis Leite<sup>1</sup>, Henri Ivanov Boudinov; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 DLC-based Coatings to Reduce Inorganic Scale Deposition** **K.P1.33**  
Lucas Muraro Sassi<sup>1</sup>, Sérgio de Souza Camargo Jr.<sup>1</sup>, Mauro Meliga Wysard<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

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## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session K.OR4 (09:45 - 10:45) - Room 04

##### 09:45 Enzymatic treatment of hydrophobic surfaces

K.OR4.11

Klaus Rischka<sup>1</sup>, Yendry Corrales Urena<sup>2,1</sup>, Michael Szardenings<sup>3</sup>; <sup>1</sup>Fraunhofer Institute for Manufacturing Technology and Advanced Materials, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Fraunhofer Institute for Cell Therapy and Immunology

##### 10:00 Electrospinning activation of highly porous PMMA microfibers for diagnostic applications

K.OR4.12

Bruno M. Serafim<sup>1</sup>, Amanda Leitolis<sup>2</sup>, Sandra Crestani<sup>2</sup>, Bruna H. Marcon<sup>3</sup>, Michèle O. de Souza<sup>4</sup>, Leonardo Foti<sup>2</sup>, Cesar L. Petzhold<sup>4</sup>, Cyro K. Saul<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Instituto de Biologia Molecular do Paraná, <sup>3</sup>Instituto Carlos Chagas - Fiocruz, <sup>4</sup>Universidade Federal do Rio Grande do Sul

##### 10:15 Toward Multifunctional "Clickable" Nanoparticles

K.OR4.13

Sabine Szunerits<sup>1</sup>, Volodymyr Zaitsev<sup>2</sup>, Rabah Boukherroub, Aloysius Siriwardena; <sup>1</sup>Université des Sciences et Technologies Lille 1, <sup>2</sup>Pontificia Universidade Católica do Rio de Janeiro

##### 10:30 Influences of the pH on the adsorption properties of an antimicrobial peptide on titanium surfaces.

K.OR4.14

Yendry Corrales Urena<sup>1</sup>, Linda Wittig<sup>2</sup>, Matheus Vieira Nascimento<sup>3</sup>, Juliano Luiz Faccioni<sup>4</sup>, Paulo Noronha Lisboa-Filho<sup>5</sup>, Klaus Rischka<sup>2</sup>; <sup>1</sup>FCT -Faculdade de Ciência e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente -SP, <sup>2</sup>Institute for Manufacturing Technology and Advanced Materials, <sup>3</sup>Universidade Federal do Ceará, <sup>4</sup>Universidade Federal do Rio Grande do Sul, <sup>5</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil

#### Session K.OR5 (11:15 - 12:30) - Room 04

##### 11:15 Graphene supported bio-mimetic membranes

K.OR5.15\*

ARAVIND VIJAYARAGHAVAN<sup>1</sup>; <sup>1</sup>University of Manchester

##### 11:45 High resolution scanning transmission electron microscope spectrum imaging on interfaces: 2D crystal-graphene heterostructure devices and nanoparticle catalysts

K.OR5.16\*

Sarah Jane Haigh<sup>1</sup>, Pedro Henrique Cury Camargo<sup>2</sup>; <sup>1</sup>Manchester University, <sup>2</sup>Universidade de São Paulo

##### 12:15 Development of Surface Pretreatment Processes for Magnesium Alloy Adherents

K.OR5.17

Stephani Stamborski<sup>1,2</sup>, Priscilla Natalli Stachera<sup>3,2</sup>, Wilson Irajá Ribas Neto<sup>3,2</sup>, Gustavo Homann Hrycyna<sup>3,2</sup>, Michael Noeske<sup>2</sup>, Uwe Specht<sup>2</sup>, Jörg Ihde<sup>2</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Institute for Manufacturing Technology and Advanced Materials Fraunhofer IFAM, <sup>3</sup>Universidade Estadual de Ponta Grossa

#### Session K.OR6 (14:00 - 15:15) - Room 04

##### 14:00 Heterogeneous Surface Polarity and Acidity of Alkyl- and Amine-Functionalized Silica-Organic Materials

K.OR6.18

Inna V. Khristenko<sup>1</sup>, Rodion Yu. Iliashenko<sup>1</sup>, Anton V. Panteleimonov<sup>1</sup>, Oleg Tkachenko<sup>1</sup>, Andrey O. Doroshenko<sup>1</sup>, Edilson Valmir Benvenuti<sup>2</sup>, Yuriy Kholin<sup>1</sup>; <sup>1</sup>V.N. Karazin Kharkiv National University, <sup>2</sup>Universidade Federal do Rio Grande do Sul

##### 14:15 Super-hydrophobic self-cleaning thin film obtained by sol gel technology

K.OR6.19

Aline Geice Vitor Silva<sup>1</sup>, Angela Mello Ferreira<sup>1,2</sup>, Magnum Augusto Moraes Lopes de Jesus<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais, <sup>2</sup>Instituto Nacional de Ciência e Tecnologia em Recursos Naturais, água e Biodiversidade

##### 14:30 Characterization of AISI 409 stainless steel pattern via DC plasma nitriding

K.OR6.20

Keila Christina Kleinjohann<sup>1,2</sup>, Bruno Borges Ramos<sup>1</sup>, Luana Vefago dos Santos<sup>1</sup>, Ana Maria Maliska<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Universidade do Vale do Itajaí

##### 14:45 Impact strength evaluation of joints bonded with multilayered pressure sensitive adhesives

K.OR6.21\*

Chiaki Sato<sup>1</sup>, Yu Sekiguchi<sup>1</sup>; <sup>1</sup>Tokyo Institute of Technology

## Poster presentations

### Session K.P2 (17:00 - 19:00)

- 17:00 Initial results of plasma carburized niobium** **K.P2.34**  
KATHERINE SICACHA VELEZ<sup>1</sup>, Silvio Francisco Brunatto<sup>2</sup>; <sup>1</sup>Federal University of Paraná, <sup>2</sup>Universidade Federal do Paraná
- 17:00 Experimental Study of Roughness Measurement by Ultrasound.** **K.P2.35**  
Luis Bráulio mendes Martins<sup>1</sup>, Mauricio Saldanha Motta<sup>1</sup>, Silvio de Barros<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica Celso Suckow da Fonseca
- 17:00 Antibacterial effect of textile fabric covered by the technique by silver deposition in plasma** **K.P2.36**  
Michelle Cequeira Feitor<sup>1</sup>, Rômulo Ribeiro Magalhães de Sousa<sup>2</sup>, Clodomiro Alves Junior<sup>3</sup>, Thercio Henrique de Carvalho Costa<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Federal University of Piauí, <sup>3</sup>Universidade Federal Rural do Semi Árido
- 17:00 Evaluation of the physical and mechanical properties of ceramics with addition of construction plaster waste** **K.P2.37**  
Pâmella Bianca Costa Moreira<sup>1</sup>, Julliene Cristiny de Oliveira Portela<sup>1</sup>, Elias Bruno Mocbel<sup>1</sup>, Elias Fagury Neto<sup>1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará
- 17:00 The influence by the atmospheric air in plasma nitriding of SAE 1045 carbon steel** **K.P2.38**  
 Francisco Cavilha Neto<sup>1</sup>, Luise de Faria Wendhausen<sup>1</sup>, Bruno Borges Ramos<sup>1</sup>, Tatiana Bendo<sup>1</sup>, Ana Maria Maliska<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Controlling PA6 membrane morphology using additives** **K.P2.39**  
Layse Mendes Diniz<sup>1</sup>, Amanda Melissa Damião Leite<sup>1</sup>, Edcleide Maria Araújo<sup>1</sup>; <sup>1</sup>Universidade Federal de Campina Grande
- 17:00 Synthesis and characterization of Co and Cu recycled from spent Li-ion and application in Electroflocculation treatment of produced water** **K.P2.40**  
 Vinicius Guilherme Celante<sup>1</sup>, Carol de Souza Berger<sup>1</sup>; <sup>1</sup>Federal institute of education, science and technology of Espírito Santo
- 17:00 Surface Modification of NdFeB Magnets by DC Plasma Treatment** **K.P2.41**  
Laura Just Bohr<sup>1</sup>, Bruno Borges Ramos<sup>1</sup>, Francisco Cavilha Neto<sup>1</sup>, Fernando Maccari<sup>1</sup>, Paulo Antônio Pereira Wendhausen<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Influence of nitriding temperature on expanded ferrite and chromium nitride formation for a ferritic stainless steel** **K.P2.42**  
 Keila Christina Kleinjohann<sup>1,2</sup>, Bruno Borges Ramos<sup>1</sup>, Luana Vefago dos Santos<sup>1</sup>, Ana Maria Maliska<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Universidade do Vale do Itajaí
- 17:00 Highly efficient PMMA-silica hybrid coatings for corrosion protection** **K.P2.43**  
Fábio Cesar dos Santos, Samarah Vargas Harb, Sandra Helena Pulcinelli, Celso Valentim Santilli, Peter Hammer<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista (UNESP), Instituto de Química
- 17:00 Hardness of yttria-doped zirconia reinforced dental porcelain** **K.P2.44**  
 Rafaela Luiz Pereira Santos<sup>1</sup>, Raimison Bezerra de Assis<sup>1</sup>, Bruno Alexandre Henriques<sup>2,3</sup>, Filipe Samuel Silva<sup>2</sup>, Rubens Maribondo do Nascimento<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Universidade do Minho, <sup>3</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA
- 17:00 Ultrathin Film Based On Hybrid Material MWCNT/Sb For Electrochemical Sensing** **K.P2.45**  
Pollyana Ferreira da Silva<sup>1</sup>, Paulo Augusto Raymundo-Pereira<sup>1</sup>, Sergio Antonio Spinola Machado<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP
- 17:00 Comparison between MWCNTs and AuNPs/MWCNTs as substrates for amperometric sensors for pesticide detection** **K.P2.46**  
Érica Megumi Kataoka<sup>1</sup>, Livia Flório Sgobbi<sup>1</sup>, Sergio Antonio Spinola Machado<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP
- 17:00 In situ synthesis of nanostructured gold-polyaniline composite on flexible substrates** **K.P2.47**  
Graciela da Costa Pedro<sup>1</sup>, Filipe Dione Souza Gorza<sup>1</sup>, José Jarib Alcaraz<sup>1</sup>, Celso Pinto de Melo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco

- 17:00 Wettability of hexagonal boron nitride during brazing for synchrotron light source application** **K.P2.48**  
MARCIO JOSE ROSALES<sup>1</sup>, Osmar Roberto Bagnato<sup>2</sup>, <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Laboratório Nacional de Luz Síncrotron
- 17:00 Influence of coir fiber granulometry on melt flow index and water absorption properties of wood plastic composite (WPC)** **K.P2.49**  
Amanda Gomes de Carvalho<sup>1</sup>, Amélia Severino Ferreira e Santos<sup>1</sup>, Walter Rodrigues da Silva Filho<sup>1</sup>, Elieber Barros Bezerra<sup>2</sup>, Edcleide Araujo<sup>2</sup>, Tomás Jeferson Alves de Melo<sup>2</sup>, Amanda Melissa Damiano Leite<sup>2</sup>, Lucineide Balbino Silva<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de Campina Grande
- 17:00 Materials composite with resin polyester and dendê fiber** **K.P2.50**  
Rafael da Silva Sena<sup>1</sup>, Alynne De Souza Pedreira<sup>1</sup>, Sabina da Memória Cardoso de Andrade<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 17:00 Development of magnetic films of magnetite and semiconducting polymers** **K.P2.51**  
Silmar Antonio Travain<sup>1</sup>, Marcelo Massayuki Nichidome Kikuchi, Vitor Rodrigues de Sá; <sup>1</sup>Faculdade de Engenharia de Guaratinguetá, UNESP
- 17:00 Characterization and application of 4-amine-3-hidrazine-5-mercaptop-1,2,4-triazole modified silica in the removal of Cu(II) from aqueous samples** **K.P2.52**  
Gustavo Rocha Castro<sup>1</sup>, Alexandre de Oliveira Jorgetto<sup>2</sup>, Adrielli Cristina Silva<sup>2</sup>, Marcos Henrique P Wondracek<sup>2</sup>, Bruno Prior Rocha<sup>2</sup>, Marco Antonio Utrera Martines<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Universidade Estadual Paulista, <sup>3</sup>Universidade Federal do Mato Grosso do Sul
- 17:00 Influence of surface mechanical treatment on fatigue life of adhesively bonded joints under mode II loading.** **K.P2.53**  
Silvio de Barros<sup>1</sup>, Paulo Pedro Kenedi<sup>1</sup>, Luís Felipe Guimarães de Souza<sup>1</sup>, Svetlana N. M. Ferreira<sup>1</sup>, Alencar José Bernardino<sup>1</sup>; <sup>1</sup>Federal Center of Technological Education in Rio de Janeiro
- 17:00 Characterization of the austenite in CA6-NM steel tempered at different temperatures** **K.P2.54**  
Leonardo Luis Santos<sup>1</sup>, José Guilherme Dellamano<sup>1</sup>, Rodrigo Perito Cardoso<sup>2</sup>, Sérgio Luiz Henke<sup>1</sup>, Silvio Francisco Brunatto<sup>1</sup>; <sup>1</sup>Federal University of Paraná, <sup>2</sup>Universidade Federal do Paraná
- 17:00 Electrical properties of polyaniline films after doping with norbixin.** **K.P2.55**  
Vicente Galber Freitas Viana<sup>1</sup>, Guilherme Sousa Mota<sup>1</sup>, Deuzuita dos Santos Oliveira<sup>2,3</sup>, Vicente Galber Freitas Viana Junior<sup>4</sup>, Francisco Wenner de Sousa da Silva<sup>1</sup>, Francisco Alberto Alencar Miranda<sup>3</sup>, MARCOS RODRIGUES RESENDE<sup>1</sup>, IVAN Ferreira do Nascimento<sup>1</sup>, João Mariz Guimarães Neto<sup>4</sup>, HELDER NUNES DA CUNHA<sup>4</sup>, Francisco Xavier Nobre<sup>4</sup>, Charllyton Luis Sena da Costa<sup>5</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>2</sup>Faculdade Integral Diferencial, <sup>3</sup>Universidade Estadual do Maranhão, <sup>4</sup>Universidade Federal do Piauí, <sup>5</sup>Faculdade Santo Agostinho
- 17:00 Riblet structured surface sensor: A light matter interaction approach applied at structured coating quality assurance** **K.P2.56**  
Michael Noeske<sup>1</sup>, Maurício Zadra Pacheco<sup>2,1</sup>, Daniel Vriesman<sup>2,1</sup>, Gesa Patzelt<sup>1</sup>, Hauke Brüning<sup>1</sup>, Welch Leite Cavalcanti<sup>1</sup>, Kai Brune<sup>1</sup>; <sup>1</sup>Institute for Manufacturing Technology and Advanced Materials Fraunhofer IFAM, <sup>2</sup>Universidade Estadual de Ponta Grossa
- 17:00 Application study of the composite MoO<sub>3</sub> /AgNP on the photobleaching of reactive dyes** **K.P2.57**  
Amanda de Freitas Gavanski<sup>1</sup>, ANDRESSA Antunes BORTOTI<sup>1</sup>, Tamara Maria de Andrade<sup>1</sup>, Eryza Guimarães de Castro<sup>1</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste
- 17:00 Plasma nitriding of Fe<sub>30</sub>Ni alloy, synthesized from elementary powder and processed by slip casting** **K.P2.58**  
Bruno Borges Ramos<sup>1</sup>, Francisco Cavilha Neto<sup>1</sup>, Luiz Eloi Vieira Jr<sup>1</sup>, Ana Maria Maliska<sup>1</sup>, Aloísio Nelmo Klein<sup>1</sup>, Rodrigo Moreno<sup>1</sup>, Dachamir Hotza<sup>1</sup>, João Batista Rodrigues Neto<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Plasma Etching of NdFeB magnets** **K.P2.59**  
Luise de Faria Wendhausen<sup>1</sup>, Ana Maria Maliska<sup>1</sup>, Bruno Borges Ramos<sup>1</sup>, Raphael van Well<sup>1</sup>, Frederico Orlandini Keller<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Synthesis and Characterization of ionic copolymers and its evaluation to inhibition of inorganic scale in oil industry** **K.P2.60**  
Suzanny Paiva Carvalho<sup>1</sup>, Elizabete Fernandes Lucas<sup>1</sup>, Luiz Magalhães Palermo<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro
- 17:00 Influence of Thermal Treatments of wood in the maximum temperature during the sanding process of Pinus elliottii** **K.P2.61**  
Carlino Carvalho de Almeida<sup>1</sup>, Larissa Ribas de Lima Soares<sup>1</sup>, Manoel Cleber de Sampaio Alves<sup>1</sup>, Sarah David Muzel<sup>1</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA

- 17:00 Influence of coir fiber content on the mechanical and morphological properties of wood plastic composite (WPC)** **K.P2.62**  
Amanda Gomes de Carvalho<sup>1</sup>, Amélia Severino Ferreira e Santos<sup>1</sup>, Walter Rodrigues da Silva Filho<sup>1</sup>, Elieber Barros Bezerra<sup>2</sup>, Tomás Jeferson Alves de Melo<sup>2</sup>, Amanda Melissa Damiano Leite<sup>2</sup>, Lucineide Balbino Silva<sup>1</sup>, Edcleide Araujo<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de Campina Grande
- 17:00 Nano-Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> Particles Supported N<sup>1</sup>-(3-trimethoxysilylpropyl)-diethylenetriamine as catalyst for Knoevenagel Condensation** **K.P2.63**  
Ercules Epaminondas de Sousa Teotonio<sup>1</sup>, João Batista Moura de Resende Filho<sup>1</sup>, Juliana Alves Vale<sup>1</sup>, Gilvan Pozzobon Pires<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Resistivity change due to thiols adsorption on metallic thin films.** **K.P2.64**  
Ricardo Henriquez<sup>1</sup>, Valeria Del Campo<sup>1</sup>, Claudio Arenas<sup>2</sup>, Claudio A. González-Fuentes<sup>1</sup>, Carolina Parra<sup>1</sup>, Jonathan Correa<sup>1</sup>, Patricio Häberle<sup>1</sup>; <sup>1</sup>Universidad Técnica Federico Santa María, <sup>2</sup>Synopsys Inc.







## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session L.OR1 (09:45 - 10:45) - Room 10

- 09:45 Nonequilibrium dynamics of functionalized colloids on substrates** L.OR1.1\*  
Nuno Araújo<sup>1</sup>; <sup>1</sup>Universidade de Lisboa
- 10:15 Programmable Nanoscale Construction with Biomolecules** L.OR1.2\*  
Shawn Douglas<sup>1</sup>; <sup>1</sup>Dept. of Cellular and Molecular Pharmacology University of California San Francisco (UCSF)

#### Session L.OR2 (11:15 - 12:30) - Room 10

- 11:15 Magnetic and Structural Study of Electric Double Layered Ferrofluid with MnFe<sub>2</sub>O<sub>4</sub>@-Fe<sub>2</sub>O<sub>3</sub> Nanoparticles of Different Mean Diameters: Determination of the Magnetic Correlation Distance** L.OR2.3\*  
 Eduardo Gonçalves<sup>1</sup>, Daniel Reinaldo Cornejo<sup>1</sup>, Cristiano Luís Pinto de Oliveira<sup>1</sup>, Jerome Depeyrot<sup>2</sup>, Francisco Augusto Tourinho<sup>2</sup>, Renata Aquino<sup>2</sup>, Antonio Figueiredo Neto<sup>1</sup>; <sup>1</sup>Institute of Physics, University of São Paulo, São Paulo, SP, Brazil, <sup>2</sup>University of Brasília, Brasília and Planaltina, Brazil
- 11:45 From fracture to fragmentation: Discrete element modeling** L.OR2.4\*  
Humberto Andrade Carmona<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 12:15 Pathway Analysis of Stochastic Folding of Convex Polyhedra** L.OR2.5  
Paul M Dodd<sup>1</sup>, Pablo F. Damasceno<sup>1</sup>, Sharon C Glotzer<sup>1</sup>; <sup>1</sup>University of Michigan

#### Session L.OR3 (14:00 - 15:15) - Room 10

- 14:00 Studying Zinc Selenide through Molecular Dynamics** L.OR3.6\*  
José Pedro Rino<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos
- 14:30 Shaping Disorder for Targeted Self-assembly** L.OR3.7\*  
Pablo F. Damasceno<sup>1</sup>; <sup>1</sup>University of Michigan
- 15:00 Session Wrap-up** L.OR3.8\*  
Pablo F. Damasceno<sup>1</sup>; <sup>1</sup>University of Michigan

### Poster presentations

#### Session L.P1 (17:00 - 19:00)

- 17:00 Analysis of the Effect of Fiber Orientation and Dimensional Configuration of Equatorial Balsa Wood Submitted to Maximum Tensile Stress** L.P1.1  
 Filipi Marques de Souza<sup>1</sup>, Virginia Bezerra Oliveira Campos<sup>1</sup>, Vitor Ramalho de Brito<sup>1</sup>, Antonio Marcos de Medeiros<sup>2</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>CENTRO DE TECNOLOGIA DO GÁS E ENERGIAS RENOVÁVEIS
- 17:00 Comportamento mecânico de materiais compósitos de alumina / cerâmica vítrea** L.P1.2  
Nayadie Jorge Loh<sup>1</sup>, Pâmela Milak<sup>1</sup>, Jeanini Justi<sup>1</sup>, Agenor De Noni Jr<sup>1</sup>, Oscar Rubem Klegues Montedo<sup>1</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense
- 17:00 Influence of moisture content of wood on the variation of the sound level, during the up milling of Pinus elliottii** L.P1.3  
Cleverson Pinheiro<sup>1,2</sup>, Manoel Cleber de Sampaio Alves<sup>2</sup>, Simone Simões Amaral<sup>2</sup>, Marcos Tadeu Tibúrcio Gonçalves<sup>3</sup>,IVALDO DE DOMENICO VALARELLI<sup>4</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo - Campus de Jacareí, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"- Campus de Guaratinguetá, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Itapeva, <sup>4</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Bauru

- 17:00 Concrete compressive strength evaluation with replacement of fine aggregate by glass residue applying statistical tools as methodology taguchi and response surface** **L.P1.4**  
Cristiano Augusto Manhães Silveira<sup>1</sup>, Matheus Maia Rodrigues de Andrade<sup>1</sup>, Christian Egidio Silva<sup>2</sup>, Sérgio Roberto Montoro<sup>1,3</sup>; <sup>1</sup>Centro Universitário de Volta Redonda, <sup>2</sup>OneSubsea, <sup>3</sup>Faculdade de Tecnologia de Pindamonhangaba
- 17:00 Correlation between the moisture content of wood and cutting power, during the up milling of Pinus elliottii.** **L.P1.5**  
Cleverson Pinheiro<sup>1,2</sup>, Manoel Cleber de Sampaio Alves<sup>2</sup>, Simone Simões Amaral<sup>2</sup>, Marcos Tadeu Tibúrcio Gonçalves<sup>3</sup>, Ivaldo De Domenico Valarelli<sup>4</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo - Campus de Jacareí, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Guaratinguetá, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Itapeva, <sup>4</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Bauru
- 17:00 Study of ceramic tile planarity during firing by thermic fleximetry method** **L.P1.6**  
 Patrick Henrique<sup>1</sup>, Augusto Wanderlind<sup>1</sup>, Jeanini Jiusti<sup>1</sup>, Agenor De Noni Jr<sup>1</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense
- 17:00 Analysis of Failure in TBM Disc Cutters** **L.P1.7**  
Lucas Salgado Vidal<sup>1</sup>, Cristiane Maria Basto Bacaltchuk<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica Celso Suckow da Fonseca
- 17:00 Applying a factorial design to evaluate the compression strength void ratio and dry density of concrete with replacement of fine aggregate by glass waste.** **L.P1.8**  
Matheus Maia Rodrigues de Andrade<sup>1</sup>, Cristiano Augusto Manhães Silveira<sup>1</sup>, Christian Egidio Silva<sup>2</sup>, Sérgio Roberto Montoro<sup>1,3</sup>; <sup>1</sup>Centro Universitário de Volta Redonda, <sup>2</sup>OneSubsea, <sup>3</sup>Faculdade de Tecnologia de Pindamonhangaba
- 17:00 Corrugations in unpaved roads: molecular dynamics simulation** **L.P1.9**  
Tiago Moy da Silva<sup>1</sup>, Américo Tristão Bernardes<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Assessment of Structural Integrity of Mechanical Components by Statistical Methods: Case Study for a Power Transmission Shaft** **L.P1.10**  
Túlio Sérgio de Almeida<sup>1</sup>, Jorge Alberto Rodriguez Duran<sup>1</sup>, Dionísio José Rodrigues da Costa<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense
- 17:00 Comparative study of stress wave attenuation in alumina and porcelain stoneware plates** **L.P1.11**  
Jeanini Jiusti<sup>1</sup>, Leandro Neckel<sup>1</sup>, Nayadie Jorge Loh<sup>1</sup>, Eduardo Hobold Kammer<sup>1</sup>, Oscar Rubem Klegues Montedo<sup>1</sup>, Agenor De Noni Jr<sup>1</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense





## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session M.OR1 (09:45 - 10:45) - Room C

- 09:45 Fracture Toughness of Glare Fiber-Metal Laminates** **M.OR1.1\***  
Enrique Mariano Castrodeza<sup>1</sup>; <sup>1</sup>Laboratory of Fracture Mechanics, PEMM/COPPE, Federal University of Rio de Janeiro
- 10:15 Study on work hardening behavior of ferritic-bainitic dual phase steels** **M.OR1.2**  
Meysam Mashhadikarimi<sup>1</sup>, Uilame Umbelino Gomes<sup>1</sup>, Shahram Kheirandish<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Iran University of Science & Technology Tehran
- 10:30 Effect of Microstructure on Fatigue Crack Growth Resistance in Five Different Pearlitic Steels for Railroad Application** **M.OR1.3**  
Luiza Pessoa Moreira<sup>1</sup>, Thiago Gomes Viana<sup>1</sup>, Leonardo Barbosa Godefroid<sup>1</sup>, Geraldo Lúcio Faria<sup>1</sup>, Luiz Cláudio Cândido<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto

#### Session M.OR2 (11:15 - 12:30) - Room C

- 11:15 Miniaturized Charpy impact assessment of a friction stir welded bead-on-plate API-5L-X80 steel** **M.OR2.4**  
Julián Arnaldo Ávila<sup>1,2</sup>, Jeffrey Sowards<sup>3</sup>, Enrico Lucon<sup>3</sup>, Paulo Roberto Mei<sup>1</sup>, Antonio J. Ramirez<sup>4</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Laboratório Nacional de Nanotecnologia, <sup>3</sup>National Institute of Standards and Technology, <sup>4</sup>Ohio State University
- 11:30 \*\*\* CANCELLED \*\*\* Imperfections in Chromium Carbide Overlays Deposited by Submerged Arc Welding** **M.OR2.5**  
Márcio Corrêa de Carvalho<sup>1</sup>, José Antônio da Silva Souza<sup>1</sup>, EDUARDO MAGALHÃES BRAGA; <sup>1</sup>Universidade Federal do Pará
- 11:45 Preliminary study on the development of numerical models to simulate FSpW lap joints under shear tensile loading** **M.OR2.6**  
Tonilson de Souza Rosendo, Luizane Ramos dos Santos, Marco Antonio Durlo Tier, José Antonio Esmerio Mazzaferro, Cintia Petry Mazzaferro, Jorge dos Santos, Telmo Roberto Strohaecker
- 12:00 Microstructure and texture Evolution of different High Manganese cast Steels during hot deformation and subsequent treatment** **M.OR2.7**  
Waydson Martins Ferreira<sup>1,2</sup>, Mohammad Masoumi<sup>1</sup>, Jeferson Leandro Klug<sup>1</sup>, Caio David Andrade<sup>1</sup>, Marcos Natan da Silva Lima<sup>1</sup>, Péricles Mendes de Medeiros<sup>1</sup>, Hamilton Ferreira Gomes de Abreu<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Universidade Federal do Piauí
- 12:15 Evolution of crystallographic texture in alloys Zircaloy 4 with cold deformed** **M.OR2.8**  
Regina Araújo Vieira<sup>1</sup>, Davi Alves Marques<sup>1</sup>, Hamilton Ferreira Gomes de Abreu<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará

#### Session M.OR3 (14:00 - 15:15) - Room C

- 14:00 EBSD characterization of aluminum alloy AA5052, laser welded.** **M.OR3.9**  
THIAGO AUGUSTO DE SOUSA MOREIRA<sup>1</sup>, Adilson Rodrigues Costa<sup>2</sup>, Milton Sergio Fernandes de Lima<sup>3</sup>, Leonardo Lagoeiro Evangelista<sup>2</sup>; <sup>1</sup>Universidade Federal do Oeste do Pará, <sup>2</sup>Universidade Federal de Ouro Preto, <sup>3</sup>Instituto de Estudos Avançados
- 14:15 Influence of welding parameters on the corrosion resistance of friction stir welded AA2024-T3** **M.OR3.10**  
Hercílio Gomes de Melo<sup>1</sup>, Diego Fabri Abrahão<sup>1</sup>, Rocio del P. Bendezu Hernandez<sup>1</sup>, Camila Molena de Assis<sup>1</sup>, Vincent Vivier<sup>2</sup>; <sup>1</sup>Escola Politécnica da Universidade de São Paulo, <sup>2</sup>Université Paris 6 Pierre and Marie Curie
- 14:30 Mechanical Properties and Microstructural Analysis of Hot Extruded Al-3Ni Powder Alloy** **M.OR3.11**  
Maurício Mhirdaui Peres<sup>1</sup>, José Eduardo Spinelli<sup>2</sup>, Conrado Ramos Moreira Afonso<sup>2</sup>, Walter José Botta<sup>2</sup>, Alberto Moreira Jorge Junior<sup>2</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Federal University of São Carlos
- 14:45 Characterization of Solid Solution Fe-Al alloys produced by PTA deposition** **M.OR3.12**  
Fernando Irto Zanetti<sup>1</sup>, Wendy Luz Alexandre<sup>1</sup>, Silvio Francisco Brunatto<sup>1</sup>, Rodrigo Perito Cardoso<sup>2</sup>; <sup>1</sup>Universidade Federal de Paraná, <sup>2</sup>Universidade Federal do Paraná

- 15:00 Influence of Ni on the synthesis of alumina processed from powder mixtures of Talc+Al** **M.OR3.13**  
 Edson H. Takano<sup>1</sup>, Sidnei Antonio Pianaro<sup>2</sup>, Ana Sofia C. M. D'Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Estadual de Ponta Grossa

## Poster presentations

### Session M.P1 (17:00 - 19:00)

- 17:00 Study proposal for solutions in the components of construction with applications mechanical conflicting** **M.P1.1**  
Renato Pereira da Silva<sup>1</sup>; <sup>1</sup>Colégio Estadual Costa Viana
- 17:00 Characterization of residual stresses in 2205 Duplex Stainless Steels using software for analysis of data from X-ray diffraction** **M.P1.2**  
Sergio Nolêto Turibus, Vladimir Ivanovitch Monine, Joaquim Teixeira Assis, Ricardo Tadeu Lopes
- 17:00 Study of the microstructure of the oxide film grown by oxidation of austenitic stainless AISI 304** **M.P1.3**  
Roberto Paulo Barbosa Ramos<sup>1</sup>, Emiliane Advíncula Malheiros<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 17:00 Microstructural Characterization of oxide film grown by oxidation of stainless steel AISI 439** **M.P1.4**  
Emiliane Advíncula Malheiros<sup>1</sup>, Roberto Paulo Barbosa Ramos<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 17:00 Study Behavior of 2524-T3 Aluminum Alloy by SVET and EIS Techniques** **M.P1.5**  
Jeferson A Moreto<sup>1</sup>, Gabriela Laranjo<sup>1</sup>, Luciana Sgarbi Rossino<sup>2</sup>, Gustavo Quereza Freitas<sup>1</sup>, João Carlos Salvador Fernandes<sup>3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia Goiano, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Instituto Superior Técnico de Lisboa
- 17:00 Failure analysis of a tool steel punch used in powder metallurgy** **M.P1.6**  
Tatiana Silva Barros<sup>1</sup>, Cassio Barbosa<sup>1</sup>, Ibrahim Cerqueira Abud<sup>1</sup>, Edvan Silva Barbosa<sup>1</sup>, Sheyla Santana Carvalho<sup>1</sup>; <sup>1</sup>Instituto Nacional de Tecnologia
- 17:00 Aspects of adhesion properties and microstructure of Co and Ni alloy obtained by thermal spraying** **M.P1.7**  
Hector Reynaldo Meneses Costa<sup>1</sup>, Marília Garcia Diniz<sup>2</sup>, Fernando Jose Antunes<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, <sup>2</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Hole-Drilling method applied to residual stress analysis in a seamed square tube** **M.P1.8**  
 André de Araújo Oliveira<sup>1</sup>, Marília Garcia Diniz<sup>1</sup>, Luciano Ornelas Lima, Sandro Rosa Correa<sup>2</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro, <sup>2</sup>Universidade Federal Fluminense
- 17:00 Evidence of precipitation z-phase in stainless steel austenitic high nitrogen ASTM F 1586 by stress relaxation** **M.P1.9**  
Eden Santos Silva<sup>1</sup>, Ingrid Pinheiro Rocha<sup>2</sup>, Debora Cristina Vilas Boas<sup>2</sup>, Gedeon Silva Reis<sup>1</sup>, Oscar Balancin<sup>1,3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Unidade de Ensino Superior Dom Bosco, <sup>3</sup>Universidade Federal de São Carlos
- 17:00 MICROHARDNESS ANALYSIS OF THE MONOTECTIC Al-1.2wt.%Pb ALLOY SOLIDIFIED IN A HORIZONTAL DIRECTIONAL DEVICE** **M.P1.10**  
Camila Negrão Konno<sup>1</sup>, Jivago Vieira Muniz da Silva<sup>1</sup>, Angela de Jesus Vasconcelos<sup>1</sup>, André dos Santos Barros<sup>1</sup>, Maria Adrina Paixão de Souza da Silva<sup>1</sup>, Otávio Fernandes Lima da Rocha<sup>2</sup>, Antonio Luciano Moreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 17:00 Synthesis, thermal characterization and spectroscopic study of solid-state manganese losartanate.** **M.P1.11**  
José Augusto Teixeira<sup>1</sup>, Wilhan Donizete Gonçalves Nunes<sup>2</sup>, André Luiz Carneiro Soares do Nascimento<sup>2</sup>, Francisco Xavier de Campos<sup>2</sup>, Tiago André Denck Colman<sup>2</sup>, Flávio Junior Caires<sup>2</sup>, Adriano Buzutti Siqueira<sup>3</sup>, Massao Ionashiro<sup>2</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO", <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>3</sup>Universidade Federal de Mato Grosso
- 17:00 The formation of reverted austenite in 18% Ni 300 grade maraging steel after creep exposure** **M.P1.12**  
Adriano Gonçalves dos Reis<sup>1</sup>, Daniela Aparecida Pereira Reis<sup>2,3</sup>, Antonio Jorge Abdalla<sup>2,4</sup>, Jorge Otubo<sup>2,3</sup>, Antonio Augusto Couto<sup>5,1</sup>, João Paulo Machado<sup>6</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares, <sup>2</sup>Instituto Tecnológico de Aeronáutica, <sup>3</sup>Universidade Federal de São Paulo, <sup>4</sup>Instituto de Estudos Avançados, <sup>5</sup>Universidade Presbiteriana Mackenzie, <sup>6</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Transient horizontal directional solidification: interconnection between vickers microhardness and tertiary dendritic arm spacing** **M.P1.13**  
Igor Alexander Barbosa Magno<sup>1</sup>, Fabricio Vinicius Andrade de Souza<sup>1</sup>, Otávio Fernandes Lima da Rocha<sup>1</sup>, André Santos Barros<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará, <sup>2</sup>Universidade Federal do Pará

- 17:00 SECONDARY DENDRITE ARM SPACING AND MICROHARDNESS IN THE DIRECTIONALLY SOLIDIFIED AL-8wt%Cu ALLOY** **M.P1.14**  
 Fabricio Vinicius Andrade de Souza<sup>1</sup>, Igor Aleksander Barbosa Magno<sup>1</sup>, André Santos Barros<sup>1</sup>, Otávio Fernandes Lima da Rocha<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 17:00 Comparative study of the hardness in haz and the decrease of welding distortions after heats treatments of a steel ASTM A131 GRADE-A welded by fcaw process** **M.P1.15**  
 Alberto Ribeiro Correa<sup>1</sup>, Gianfranco Melo Stieven<sup>1</sup>, Daniele dos Reis Soares<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Intergranular corrosion in UNS S31830 heat treated at 800 °C varying range times** **M.P1.16**  
 Najara Barros Dias<sup>1</sup>, Viviane Azambuja Favre-Nicolin<sup>2</sup>, Ricardo Salvador Boldrini<sup>2</sup>, Bianca Barros Santos<sup>1</sup>, Pedro Rupf Pereira Viana<sup>2</sup>, Julia Zancanela Tonini<sup>1</sup>, Maylla Castro Mafra<sup>1</sup>; <sup>1</sup>Faculdade Pitágoras Linhares, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo
- 17:00 Synthesis and thermal characterization of solid-state lanthanum losartanate.** **M.P1.17**  
 José Augusto Teixeira<sup>1</sup>, Tiago André Denck Colman<sup>1</sup>, Wilhan Donizete Gonçalves Nunes<sup>1</sup>, André Luiz Carneiro Soares do Nascimento<sup>1</sup>, Francisco Xavier de Campos<sup>1</sup>, Flávio Junior Caires<sup>1</sup>, Massao Ionashiro<sup>1</sup>, Adriano Buzutti Siqueira<sup>2</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO", <sup>2</sup>Universidade Federal de Mato Grosso
- 17:00 Analysis and comparison between microstructural by Friction welding processes - FSW and Tungsten Inert Gas - TIG series of aviation aluminum alloys 2xxx.** **M.P1.18**  
 Jorge Luiz Rosa<sup>1</sup>, Wesley Nascimento Barros<sup>2</sup>, Luís Ricardo Beagioni<sup>2</sup>, Emerson Augusto Raymundo<sup>3</sup>, Rosinei Batista Ribeiro<sup>2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Faculdade de Tecnologia de Pindamonhangaba, <sup>3</sup>Centro Universitário Salesiano de São Paulo
- 17:00 Tool wear analysis on the necking of an Al-8wt%Si alloy solidified on U device** **M.P1.19**  
 Igor Ricardo Prado da Silva<sup>1</sup>, Camila Negrão Konno<sup>1</sup>, Diego Gomes dos Santos<sup>1</sup>, EVERALDO AFONSO FERNANDES<sup>1</sup>, Tamires Isabela Botelho<sup>1</sup>, Maria Adrina Paixão de Souza da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Correlation between macrostructure and micr hardness in naval aluminum 5052 F welds** **M.P1.20**  
 Diego Gomes dos Santos<sup>1</sup>, Maria Adrina Paixão de Souza da Silva<sup>1</sup>, Igor Ricardo Prado da Silva<sup>1</sup>, Otávio Fernandes Lima da Rocha<sup>2</sup>, Cibele Vieira Arão da Silva<sup>1</sup>, Sylreire Lopes de Paula Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 17:00 Necking test methodology for solidified alloys in directional solidification devices** **M.P1.21**  
 Jivago Vieira Muniz da Silva<sup>1</sup>, Maria Adrina Paixão de Souza da Silva<sup>1</sup>, Camila Negrão Konno<sup>1</sup>, Mayron Pantoja Cardoso<sup>1</sup>, Mauro José Guerreiro Veloso<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Intergranular corrosion resistance of AISI 430 stainless steel** **M.P1.22**  
 Maylla Castro Mafra<sup>1</sup>, Julia Zancanela Tonini<sup>1</sup>, Pedro Rupf Pereira Viana<sup>2</sup>, Bianca Barros Santos<sup>1</sup>, Najara Barros Dias<sup>1</sup>; <sup>1</sup>Faculdade Pitágoras Linhares, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo
- 17:00 Influence of time and temperature of stress relief heat treatment of AISI 4130 on the microstructure and micro hardness** **M.P1.23**  
 Christian Egidio Silva<sup>1,2,3</sup>, Sérgio Roberto Montoro<sup>3</sup>, Maurício Vieira Calçada<sup>1</sup>, Melina Gomes<sup>3</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>OneSubsea, <sup>3</sup>Faculdade de Tecnologia de Pindamonhangaba
- 17:00 Fatigue behaviour of titanium alloys with surface modified by chemical treatment for biomedical use** **M.P1.24**  
 Cesar Adolfo Escobar Claros<sup>1</sup>, Diego Oliveira Pedreira<sup>1</sup>, Claudemiro Bolfarini<sup>1</sup>, Claudemiro Bolfarini<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 The Influence of Time Hammer Peening of the Grain Size and Mechanical Properties of HAZ of TIG Welding Austenitic Stainless Steel** **M.P1.25**  
 Any Suelem Andrade Ferreira<sup>1</sup>, Alberto Ribeiro Correa<sup>1</sup>, Catiane Lima Monteiro<sup>1</sup>, EDUARDO MAGALHÃES BRAGA<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Non-collinear spin DFT calculations in the cobalt oxo-borate.** **M.P1.26**  
 MARIA OSWALD MACHADO DE MATOS<sup>1</sup>, Joice Terra<sup>2</sup>, Donald E. Ellis<sup>3</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Materials Science and Engineering Department, Northwestern University
- 17:00 Modified Stoney equation for strained thin film** **M.P1.27**  
 Amanda Machado Carvalho Pires<sup>1</sup>, Miguel Tafur Tanta<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Microstructural characterization of as-cast Al-Cu alloys** **M.P1.28**  
 Camila Aparecida Rosiak<sup>1</sup>, Vanessa Motta Chad<sup>1</sup>, Marcia Moreira Medeiros<sup>1</sup>, Gilberto Carvalho Coelho<sup>2</sup>, Carlos Angelo Nunes<sup>2</sup>, Paulo Atsushi Suzuki<sup>2</sup>, Claudemiro Bolfarini<sup>3</sup>; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Universidade Federal de São Carlos

- 17:00 Synthesis and Comparative Characterization of Maraging-like alloys** **M.P1.29**  
Tayla Jaqueline Barragan Alves<sup>1</sup>, Glécilla Colombelli de Souza Nunes<sup>1</sup>, Aline Alves Oliveira<sup>1</sup>, Paulo Willian Sarvezuk<sup>2</sup>, Valdecir Biondo<sup>1</sup>, Flávio Francisco Ivashita<sup>1</sup>, Andrea Paesano Júnior<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Evaluation of shape memory effect and corrosion resistance of a Fe-14,5Mn-4Si-10Cr-4,5Ni-0,13N stainless steel alloy** **M.P1.30**  
 Rafael Wagner Simon<sup>1</sup>, Carlos Alberto Della Rovere<sup>1</sup>, Enrico José Giordano<sup>1</sup>, Sebastião Elias Kuri<sup>1</sup>, Rodrigo Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Scanning magnetic susceptometry in HP steels with different aging stages** **M.P1.31**  
Mônica Patricia Arenas Correa<sup>1,2</sup>, Clara Johanna Pacheco<sup>2</sup>, Antonio Carlos Bruno<sup>3</sup>, João Manoel Barbosa Pereira<sup>3</sup>, Luiz Henrique de Almeida<sup>1</sup>, Gabriela Ribeiro Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Laboratório de Ensaios Não Destrutivos, Corrosão e Soldagem (LNDC), <sup>3</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 17:00 The Fe<sub>80</sub>Co<sub>14-x</sub>Cu<sub>x</sub> compound: Structural, Magnetic and hyperfine properties study of low concentration of Cu.** **M.P1.32**  
João Carlos Krause<sup>1</sup>, Clederson Paduani<sup>2</sup>; <sup>1</sup>Universidade Regional Integrada do Alto Uruguai E das Missões, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Magnetic Studies of Maraging-350 steel** **M.P1.33**  
Glécilla Colombelli de Souza Nunes<sup>1</sup>, Tayla Jaqueline Barragan Alves<sup>1</sup>, Paulo Willian Sarvezuk<sup>2</sup>, Antonio Marcos Helgueira de Andrade<sup>3</sup>, Valdecir Biondo<sup>1</sup>, Marcos Vinícius Salles Nunes<sup>1</sup>, Flávio Francisco Ivashita<sup>1</sup>, Andrea Paesano Júnior<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Universidade Tecnológica Federal do Paraná, <sup>3</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Study of the relationship between temperature and engineering and true strains for a alloy steel SAE 4340.** **M.P1.34**  
Mario da Costa Samuel<sup>1</sup>, José Eduardo Salgueiro Lima<sup>1</sup>, Lea Nogueira Braulino de Melo Nishioka<sup>1</sup>; <sup>1</sup>Faculdade de Tecnologia de São José dos Campos
- 17:00 Intergranular corrosion in AISI 304 heat treated at 800 °C varying range times** **M.P1.35**  
Yasmin Siqueira Souza<sup>1</sup>, Luiza Venturini<sup>1</sup>, Pedro Rupf Pereira Viana<sup>2</sup>, Bianca Barros Santos<sup>1</sup>; <sup>1</sup>Faculdade Pitágoras Linhares, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo
- 17:00 Deleterious phases analysis in AISI 2205 by electrochemical impedance spectroscopy (EIS) in NaCl 3,5%<sub>wt</sub>.** **M.P1.36**  
Matheus Rodrigues Novais<sup>1</sup>, Pedro Rupf Pereira Viana<sup>1</sup>, Adonias Ribeiro Franco Júnior<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo
- 17:00 Deleterious phases analysis in AISI 304 by electrochemical impedance spectroscopy (EIS) in NaCl 3,5%<sub>wt</sub>.** **M.P1.37**  
Sergio Honorato dos Santos<sup>1</sup>, Pedro Rupf Pereira Viana<sup>1</sup>, Adonias Ribeiro Franco Júnior<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo
- 17:00 Surface Oxidation in Maraging-350 plates** **M.P1.38**  
LILIAN FELIPE TUPAN<sup>1</sup>, Valdecir Biondo<sup>1</sup>, Flávio Francisco Ivashita<sup>1</sup>, Andrea Paesano Júnior<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá
- 17:00 Characterization of composites materials based on stainless steel and alumina** **M.P1.39**  
Fábio Rodrigues Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 17:00 Decarburization process in a SAE 9254 Spring Steel: influence of heat treatment parameters** **M.P1.40**  
Jéssica Cristina Costa de Castro<sup>1</sup>, Sydney Ferreira Santos<sup>1</sup>, Renato Altobelli Antunes<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Shape memory alloy wires applied to aircraft actuators** **M.P1.41**  
Edcarlos Antônio Nunes Coura<sup>1</sup>, Leandro de Arruda Santos<sup>1</sup>, Carlos Alberto Cimini Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Analysis of cutting temperature in the necking process of Al-3%Cu alloy solidified in a directional horizontal device** **M.P1.42**  
Cássio Augusto Pinto da Silva<sup>1</sup>, Ilayo Ricardo Machado Leal<sup>1</sup>, DANIEL CASTRO RODRIGUES<sup>1</sup>, LEANDRO JOSÉ MONTEIRO RIBEIRO<sup>1</sup>, Maria Adrina Paixão de Souza da Silva<sup>1</sup>, Otávio Fernandes Lima da Rocha<sup>1</sup>, Antonio Luciano Moreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Effect of torch oscillation path (trapezoid triangle and straight line) on abrasion resistance in wear-resistant weld deposits** **M.P1.43**  
Rafael Bezerra Azevedo Mendes<sup>1</sup>, Sérgio Rodrigues Barra<sup>1</sup>, Matheus André da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte



- 17:00 Effects of heat treatment on the properties electromechanical alloy Al-Cu 0.05% [0.35-0.45]% Fe-0.15%Zr** **M.P1.44**  
Whellisson da Silva Dias<sup>1</sup>, Emerson Rodrigues Prazeres<sup>1</sup>, Mauro Ângelo Alfaia<sup>1</sup>, José Maria do Vale Quaresma<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Developing nanostructured surfaces in Zirconium- Titanium alloy** **M.P1.45**  
Juarez Targino<sup>1</sup>; <sup>1</sup>Faculde de Ciencias- UNESP Bauru
- 17:00 The influence of ferrite content on magnetic permeability of welding in austenitic alloys.** **M.P1.46**  
Giovani Schwingel<sup>1</sup>, Hugo Garcia Lemes<sup>1</sup>, João Emílio de Castro Pistelli<sup>1</sup>, João Victor Morelli<sup>1</sup>, Osmar Roberto Bagnato<sup>2</sup>; <sup>1</sup>Universidade São Francisco, <sup>2</sup>Laboratório Nacional de Luz Síncrotron
- 17:00 effects of sigma phase in stainless steel SEW 410 Nr. 1.4517** **M.P1.47**  
Wanderleiton da Silva Cardoso<sup>1</sup>, Brena da Silva Porcino<sup>1</sup>, André Luiz Caulit Silva<sup>2</sup>; <sup>1</sup>MULTIVIX VITÓRIA, <sup>2</sup>VALE S/A
- 17:00 Magnetic characterization of steels AISI A 366, AISI S 235 and AISI 304 using Bitter technic (Ferrofluid)** **M.P1.48**  
Lucas Kling e Silva<sup>1,2</sup>, Nadja Sonntag<sup>2</sup>, Birgit Skrotzki<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Bundesanstalt für Materialforschung und -prüfung (BAM)
- 17:00 Structure and magnetic properties of rapidly quenched Gd5.09Ge2.03Si1.88 alloy** **M.P1.49**  
Marcio Andreato Mendes<sup>1</sup>, Bruno Daniel Gonçalves<sup>1</sup>, William Imamura<sup>2</sup>, Cleber Santiago Alves<sup>2</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná, <sup>2</sup>Universidade Estadual de Maringá
- 17:00 Study of the double aging heat treatment on the creep behavior of superalloy Inconel 718 comparing on the alloy homogenized** **M.P1.50**  
 Fabrícia Assis Resende<sup>1</sup>, Felipe Caliar<sup>1</sup>, Danieli Aparecida Pereira Reis<sup>2,1</sup>, Miguel Justino Ribeiro Barboza<sup>3</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Instituto Tecnológico de Aeronáutica, <sup>3</sup>Escola de Engenharia de Lorena da Universidade de São Paulo

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session M.OR4 (09:45 - 10:45) - Room C

- 09:45 Effect of titanium nitride precipitates on the pitting corrosion in a supermartensitic stainless steel** **M.OR4.14**  
César Augusto Duarte Rodrigues<sup>1</sup>, RAFAEL MARINHO BANDEIRA<sup>1</sup>, Germano Tremiliosi-Filho<sup>1</sup>, Alberto Moreira Jorge Junior<sup>2</sup>; <sup>1</sup>São Carlos Institute of Chemistry, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 10:00 Comparative analysis of behavior of oxidation ferritic stainless steel aisi 439 in high temperatures in atmospheres argon and air synthetic** **M.OR4.15**  
 Maria Fatima Salgado<sup>1,2</sup>, João Alberto Santos Porto<sup>1,2</sup>, Giscard Eanes Dias Viana<sup>1,2</sup>, Olandir Vercino Correa<sup>3</sup>, Lalgudi Venkataraman Ramanathan<sup>3</sup>, Ayrton de Sá Brandim<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>2</sup>CENTRO DE ESTUDOS SUPERIORES DE CAXIAS DA UNIVERSIDADE ESTADUAL DO MARANHÃO, <sup>3</sup>Instituto de Perquisas Energéticas e Nucleares
- 10:15 Cyclic oxidation parameters evaluation** **M.OR4.16** **M**  
 Carolina Aurélia Ribeiro Maestro<sup>1</sup>, Artur Mariano de Sousa Malafaia<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei
- 10:30 Structural and mechanical evaluation of Ti-Nb thin films deposited by magnetron Sputtering for biomedical applications** **M.OR4.17**  
Ernesto David Gonzalez<sup>1</sup>, Terlize Cristina Niemeyer<sup>2</sup>, Conrado Ramos Moreira Afonso<sup>1</sup>, Alvaro Enrique Gomez Ovalle<sup>3</sup>, Pedro Augusto de Paula Nascente<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>3</sup>Universidad del Valle

#### Session M.OR5 (11:15 - 12:30) - Room C

- 11:15 The role of oxides on the high temperature sliding wear of Stellite 1 alloy Coating** **M.OR5.18**  
 Leandro Da Conceição<sup>1</sup>, Ana Sofia C. M. D'Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná
- 11:30 Assessment of Pack Aluminized Ni Based Surfaces Obtained with Different Procedures** **M.OR5.19**  
Ederson Pauletti<sup>1</sup>, Ana Sofia C. M. D'Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná
- 11:45 Eddy Currents Characterization of Cold-Worked Austenitic Stainless Steels** **M.OR5.20**  
Vitor Manoel de Araújo Silva<sup>1</sup>, Cesar Giron Camerini<sup>1</sup>, Gabriela Ribeiro Pereira<sup>1</sup>, Juan Carlos Garcia Blás<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 12:00 Microstructural and Physical Characterization of Co-based Superalloy** **M.OR5.21**  
 alex matos da silva costa<sup>1</sup>, Marcus Vinicius Salgado<sup>2</sup>, Carlos Angelo Nunes<sup>2</sup>, Antonio J. Ramirez<sup>3</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP, <sup>2</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>3</sup>The Ohio State University
- 12:15 Comparison of the mechanical response of porous Ti-6Al-4V alloys produced by different compaction techniques** **M.OR5.22**  
İpek Nakas<sup>1</sup>, Fatma Sen<sup>1</sup>, Gizem Yaymaci<sup>1</sup>, Emin Erkan Asik<sup>2</sup>; <sup>1</sup>University of Anatolia / Anadolu Üniversitesi, <sup>2</sup>University of Twente / Universiteit Twente

#### Session M.OR6 (14:00 - 15:15) - Room C

- 14:00 Quenching and Intercritical Tempering of Microalloyed Pipeline Steel** **M.OR6.23**  
Lucas Pintol Nishikawa<sup>1</sup>, Arthur Seiji Nishikawa<sup>1</sup>, Paulo Henrique Ogata<sup>1</sup>, Mario Gonzalez Ramirez<sup>1</sup>, Hélio Goldenstein<sup>1</sup>; <sup>1</sup>Escola Politécnica de Universidade de São Paulo
- 14:15 Isothermal Transformations under and above Ms Temperature in a high Si Bearing Steel** **M.OR6.24**  
Daniel Fevereiro Valdebenito<sup>1</sup>, Arthur Seiji Nishikawa<sup>1</sup>, Hélio Goldenstein<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 14:30 Structural characterization of cast iron white high chrome with addition of niobium using the rietveld method** **M.OR6.25**  
Cláudio Gonçalves de Oliveira<sup>1</sup>, Ivete Peixoto Pinheiro<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais

- 14:45 Obtaining MnAs compound by magnesiothermic process** **M.OR6.26**  
Joyce Galdino da Silva Santos<sup>1</sup>, MARISSOL RODRIGUES FELEZ<sup>1</sup>, Sergio Gama<sup>1</sup>, Ricardo Alexandre Galdino da Silva<sup>1</sup>, Adelino de Aguiar Coelho<sup>2</sup>, Vinicius Gomes de Paula<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo,<sup>2</sup>Universidade Estadual de Campinas
- 15:00 Bainite precipitation in the Cu-9%Al-10%Mn3%Ag alloy** **M.OR6.27**  
André Paganotti<sup>1</sup>, Antonio Talarico Adorno<sup>2</sup>, Camila Maria Andrade dos Santos<sup>2</sup>, Thaisa Mary Carvalho<sup>2</sup>, Cesar Celestino da Silva<sup>3</sup>, Ricardo Alexandre Galdino da Silva<sup>3</sup>; <sup>1</sup>Universidade Federal de São Paulo, Diadema, SP, Brazil, <sup>2</sup>Instituto de Química - UNESP Araraquara, <sup>3</sup>Universidade Federal de São Paulo

## Poster presentations

### Session M.P2 (17:00 - 19:00)

- 17:00 Integrated treatment for color removal of Novacron Blue dye solution - electrochemical oxidation and adsorption** **M.P.2.51**  
SHEILA PRICILA MARQUES CABRAL DE SOUZA<sup>1</sup>, Erica Souza Oliveira<sup>1</sup>, Carlos Alberto Martinez Huitle<sup>1</sup>, NEDJA SUELY FERNANDES<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Diamonds synthesis in high pressures and temperatures magnesium as a dopant using the alloy Ni-Mn-C** **M.P.2.52**  
layzza tardin da silva<sup>1</sup>, Márcia Giardinieri de Azevedo<sup>1</sup>; <sup>1</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro
- 17:00 Analysis of properties and fracture mechanics of railway wheels microalloyed** **M.P.2.53**  
Isaias Moreira de Freitas<sup>1</sup>, Estéfano Aparecido Vieira<sup>2</sup>, Domingos José Minicucci<sup>3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo, <sup>2</sup>Materials and Metallurgical Department of IFES, <sup>3</sup>Universidade Estadual de Campinas
- 17:00 Influence of heat treatment in Al-Cu-Fe-Si alloy modified with Ti and Zr contents** **M.P.2.54**  
Rafael Assis da Silva<sup>1</sup>, Emerson Rodrigues Prazeres<sup>1</sup>, Everaldo Afonso Fernandes<sup>1</sup>, Hélio Gleidson de Oliveira Sena<sup>1</sup>, Jessiana Avelar Lima<sup>1</sup>, José Maria do Vale Quaresma<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Analyze the artificial aging of the alloy Al- 4 8% Cu cast green sand mold** **M.P.2.55**  
Marlo Costa Oliveira<sup>1</sup>, FABIO SANTOS DE SOUSA<sup>1</sup>, Fabricio Vinicius Andrade de Souza<sup>1</sup>, Igor Alexander Barbosa Magno<sup>1</sup>, José Nazareno Santos Silva<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 17:00 Effect of heat treatment on the microstructure of SAE 9254 spring steel** **M.P.2.56**  
Silvano Leal Santos<sup>1</sup>, Bruno Geoffroy Scuracchio<sup>2</sup>, Sydney Ferreira Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Universidade São Judas Tadeu
- 17:00 Effect of overloads on the fatigue crack growth resistance of an api-x70 steel** **M.P.2.57**  
Leonardo Barbosa Godefroid<sup>1</sup>, Bruno Hissa Amorim Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Effect of cr additions on the fracture toughness of a complex-phase C-Mn-V steel** **M.P.2.58**  
Leonardo Barbosa Godefroid<sup>1</sup>, André Lincoln Alexandrino Silva<sup>1</sup>, Charles Abreu Martins<sup>2</sup>, Nina Fonstein<sup>3</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>ARCELORMITTAL TUBARAO, <sup>3</sup>ARCELORMITTAL CHICAGO
- 17:00 Microstructural characterization of as-cast Ti-Ni-Zr alloys** **M.P.2.59**  
Arnoldo Augusto Bahls Kava<sup>1</sup>, Vanessa Motta Chad<sup>1</sup>, Alexandra de Oliveira França Hayama<sup>1</sup>, Alberto Moreira Jorge Junior<sup>2</sup>, Marcia Moreira Medeiros<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Microstructural characterization of as-cast Ti-Ni-Cu alloys** **M.P.2.60**  
 Mayara Auxiliadora Castilho Benites<sup>1</sup>, Vanessa Motta Chad<sup>1</sup>, Leonardo Resende<sup>1</sup>, Claudemiro Bolfarini<sup>2</sup>, Marcia Moreira Medeiros<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Discontinuous Salt-Spray Test in Hot Dip Galvanized IF Steel** **M.P.2.61**  
Thiago Barreto da Silva Amaral<sup>1</sup>, Carlos Henrique Izoton Filho<sup>1</sup>, Felipe Azevedo de Carvalho<sup>2</sup>, Cristiane Maria Basto Bacaltchuk<sup>1</sup>, Gilberto Alexandre Castello Branco<sup>1</sup>, Hector Reynaldo Meneses Costa<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, <sup>2</sup>Federal Center of Technological Education in Rio de Janeiro
- 17:00 Grain Boundary Discontinuous Precipitation in Alloy 33 (Cr-Fe-Ni-N) resulting from aging at 700 °C and 900 °C** **M.P.2.62**  
Julio Cesar Spadotto<sup>1</sup>, Ivan Guillermo Solórzano-Naranjo<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro

- 17:00 Analysis of the Mechanical Behavior of Incoloy® 945 Processed by Cold Lamination at Different Heat Treatments** **M.P2.63**  
Igor Colado Porto Martins<sup>1</sup>, Waldemar Alfredo Monteiro<sup>1</sup>, Cláudio José Rocha<sup>1</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares
- 17:00 Comparison between the techniques nitriding in hollow cathode and cathodic cage by TiN deposition** **M.P2.64**  
 Thiago Victor Rodrigues Medeiros<sup>1</sup>, Thercio Henrique de Carvalho Costa<sup>1</sup>, Michelle Cequeira Feitor<sup>2</sup>, Rômulo Ribeiro Magalhães de Sousa<sup>3</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Universidade Federal do Rio Grande do Norte, <sup>3</sup>Federal University of Piauí
- 17:00 Eu<sup>3+</sup> optical probe in SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> host matrix** **M.P2.65**  
Juliana Souza Silva Paula<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>, Jefferson Luis Ferrari<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei
- 17:00 Magnetic and electrical properties of niobium doped copper ferrite** **M.P2.66**  
 Claudiney de Sales Pereira Mendonça<sup>1</sup>, Valesca Donizeti Oliveira<sup>1</sup>, Vander Alkmin dos Santos Ribeiro<sup>1</sup>, Rero Marques Rubinger<sup>1</sup>, Manoel Ribeiro da Silva<sup>1</sup>, Adhimar Flávio Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Influence of heat treatment in tensile strength and electrical conductivity alloy 2024** **M.P2.67**  
 Aline da Silva<sup>1</sup>, Carlos Alberto Rodrigues<sup>1</sup>, Mirian de Lourdes Noronha Motta Melo<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Anomalies on the Anelastic Spectra of Cu<sub>47,75</sub>Zr<sub>47,75</sub>Al<sub>4,5</sub> Amorphous Alloy at Low Temperature** **M.P2.68**  
Paulo Wilmar Barbosa Marques<sup>1</sup>, Javier Andrés Munoz Chaves<sup>1</sup>, Odila Florêncio<sup>1</sup>, Paulo Sérgio da Silva Junior<sup>1</sup>, Marcelo Falcão de Oliveira<sup>2</sup>, Luís Cesar Aliaga<sup>3</sup>, Walter José Botta<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Magnetic characterization of titanium-copper ferrites** **M.P2.69**  
 Valesca Donizeti Oliveira<sup>1</sup>, Claudiney de Sales Pereira Mendonça<sup>1</sup>, Vander Alkmin dos Santos Ribeiro<sup>1</sup>, Manoel Ribeiro da Silva<sup>1</sup>, Rero Marques Rubinger<sup>1</sup>, Adhimar Flávio Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Morphological characterization of metallic lines deposited by focused ion beam under different beam currents** **M.P2.70**  
Saulo Davila Jacobsen<sup>1</sup>, emmanuel petitprez<sup>1</sup>, Ronald Tararam<sup>1</sup>, Cristiano Krug<sup>1</sup>, marcelo lubaszewski<sup>1</sup>; <sup>1</sup>Centro de Excelência em Tecnologia Eletrônica Avançada
- 17:00 Microestrutural characterization of Al-3Ni atomized powder alloy with particle size +45 -88 µm and +106 - 180µm** **M.P2.71**  
 Yolanda Andrade Rodrigues<sup>1</sup>, Mauricio Mhirdau Peres<sup>1</sup>, José Eduardo Spinelli<sup>2</sup>, Alberto Moreira Jorge Jr<sup>2</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Recrystallization effect on microstructure and hardness of ferritic-pearlitic LNE 380 steel cold rolled** **M.P2.72**  
Alexandre Nogueira Ottoboni Dias<sup>1</sup>, Claudiney de Sales Pereira Mendonça<sup>1</sup>, Vitor de Almeida Assuena<sup>1</sup>, Eliara Torres da Costa<sup>1</sup>, Leticia Laura de Oliveira<sup>1</sup>, Geovani Rodrigues<sup>1</sup>, Gilbert Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Microstructural analysis and hardness of aluminum composites reinforced with nickel ferrite consolidated by extrusion at different temperatures** **M.P2.73**  
 Danielle Golebiowski Ren<sup>1</sup>, Yolanda Andrade Rodrigues<sup>1</sup>, Mauricio Roberto Bomio Delmonte<sup>1</sup>, Walter José Botta<sup>2</sup>, Alberto Moreira Jorge Junior<sup>2</sup>, Mauricio Mhirdau Peres<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Federal University of São Carlos
- 17:00 Magnetic alloys based on MnFeSn ternary intermetallic compounds for applications on thermomagnetic motors** **M.P2.74**  
MARISSOL RODRIGUES FELEZ<sup>1</sup>, Fabiano Yokaichiya<sup>2</sup>, Margareth Kazuyo Kobayashi Dias Franco<sup>3</sup>, Adelino de Aguiar Coelho<sup>4</sup>, Sergio Gama<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Helmholtz-Zentrum Berlin für Materialien und Energie, <sup>3</sup>Instituto de Pesquisas Energéticas e Nucleares, <sup>4</sup>Universidade Estadual de Campinas
- 17:00 Synthesis and characterization of AISI 4340 steel with and without vanadium carbide addition through powder metallurgy** **M.P2.75**  
Victor Fan Arcara<sup>1</sup>, Beatriz Gonçalves<sup>1</sup>, Luís Felipe Castro Luz Souza e Silva<sup>1</sup>, Flávio Yuji Assahi<sup>1</sup>, Bruna Horta Bastos Kuffner<sup>1</sup>, Aline da Silva<sup>1</sup>, Geovani Rodrigues<sup>1</sup>, Gilbert Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Evaluative study of the mechanical characterization SAE 1644 steel and its impact resistance after thermochemical treatment of cementation.** **M.P2.76**  
Dayane Antunes Coimbra<sup>1</sup>, Maria Rita Araújo de Almeida<sup>1</sup>, Samara Alves Lopes<sup>1</sup>, Wilker Costa de Oliveira<sup>1</sup>, João Henrique de Assunção Vieira<sup>1</sup>, Márcio Paulo Araújo Mafra<sup>2,1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará, <sup>2</sup>Universidade Federal do Pará

- 17:00 Mechanical and microstructural characterization of Aluminum Bronze alloy cold rolled and submitted to recrystallization** **M.P.2.77**  
Alexandre Nogueira Ottoboni Dias<sup>1</sup>, Claudiney de Sales Pereira Mendonça<sup>1</sup>, Gabriel de Andrade V. Camargo<sup>1</sup>, Lucas Coli Cortes<sup>1</sup>, Carlos Alberto Rodrigues<sup>1</sup>, Gilbert Silva<sup>1</sup>, Geovani Rodrigues<sup>1</sup>, Mirian de Lourdes Noronha Motta Melo<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Evaluation of the J-integral of steel AL 6XN PLUS™ according to standard ASTM** **M.P.2.78**  
 Marcelo Ricardo de Souza Angelotto<sup>1</sup>, Marcos Daniel Gouveia Filho<sup>1</sup>, Enio Pontes de Deus<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 New route in assembling of hfac-dppi-Hdppi mixed-ligand copper clusters: Synthesis, Crystal Structures, Magnetic Properties, and Catecholase-like Activity** **M.P.2.79**  
Samira Gama Reis<sup>1</sup>, Sergiu Calancea<sup>1</sup>, Guilherme Pereira Guedes<sup>2</sup>, Rafael A. Allão Cassaro<sup>3</sup>, Fernando López Ortiz<sup>4</sup>, Maria das Gracas Fialho Vaz<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Universidade Federal Rural do Rio de Janeiro, <sup>3</sup>Universidade Federal do Rio de Janeiro, <sup>4</sup>Universidade de Almeria
- 17:00 Influence of 316L stainless steel recrystallization after sintering and rolling** **M.P.2.80**  
Alice Horta Bastos Kuffner<sup>1</sup>, Jonas Mendes<sup>1</sup>, Bruna Horta Bastos Kuffner<sup>1</sup>, Roberta Alves Gomes Matos<sup>1</sup>, Carlos Alberto Rodrigues<sup>1</sup>, Gilbert Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Characterization of Al-Ti joint welded by Friction Spot Welding.** **M.P.2.81**  
Guilherme dos Santos Vacchi<sup>1</sup>, Athos Henrique Plaine<sup>1</sup>, Carlos Alberto Della Rovere, Sebastião Elias Kuri<sup>1</sup>, Nelson Guedes Alcântara<sup>1</sup>, Jorge dos Santos<sup>2</sup>; <sup>1</sup>Federal University of São Carlos, <sup>2</sup>Helmholtz-Zentrum Geesthacht
- 17:00 Cobalt(II)-Lanthanide(III) Heterobinuclear Complexes: Synthesis, Crystal Structures and Magnetic Properties** **M.P.2.82**  
Andrei Alunel Patrascu<sup>1</sup>, Mathieu Rouzies<sup>2</sup>, Rodolphe Clérac<sup>2</sup>, Catalin Maxim<sup>1</sup>, Augustin Madalin Madalan<sup>1</sup>, Marius Andruh<sup>1</sup>; <sup>1</sup>University of Bucharest, <sup>2</sup>Centre de Recherche Paul Pascal
- 17:00 Preparation of nano WC particles with addition of 316 L stainless steel by high energy milling** **M.P.2.83**  
 Daniel Assis Amâncio<sup>1</sup>, José Veríssimo Ribeiro de Toledo<sup>1</sup>, Cristina Maria Fernandes<sup>2</sup>, Ana Maria de Oliveira Rocha SenosROCHA SENOS, A. D.<sup>2</sup>, Edmilson Otoni Corrêa<sup>1</sup>, Gilbert Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Universidade de Aveiro
- 17:00 Sintering, microstructure and properties of WC-AISI316L powder composites** **M.P.2.84**  
 Daniel Assis Amâncio<sup>1</sup>, José Veríssimo Ribeiro de Toledo<sup>1</sup>, Cristina Maria Fernandes<sup>2</sup>, Ana Maria de Oliveira Rocha SenosROCHA SENOS, A. D.<sup>2</sup>, Edmilson Otoni Corrêa<sup>1</sup>, Gilbert Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Universidade de Aveiro
- 17:00 Study of the influence of addition of oxides of WC in Al<sub>2</sub>O<sub>3</sub>** **M.P.2.85**  
 Samara Melo Valcacer<sup>1</sup>, Uilame Umbelino Gomes<sup>2</sup>, Tércio Graciano Machado<sup>3</sup>, Isaac Pericles Maia Medeiros<sup>2</sup>, Mariana Chianca Silva<sup>2</sup>, Raimison Bezerra de Assis; <sup>1</sup>Instituto Federal de Mato Grosso do Sul, <sup>2</sup>Universidade Federal do Rio Grande do Norte, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia da Bahia
- 17:00 Ageing Temperature and quantitative effect in the intercalation of indometacin in Mg/Al-LDH synthesized by a coprecipitation route** **M.P.2.86**  
Kelly Miranda Costa<sup>1</sup>, Jenny Jouin<sup>2</sup>, Julie Cornette<sup>2</sup>, Ariane Meguekam Sado<sup>2</sup>, Richard Mayet<sup>2</sup>, Olivier Masson<sup>2</sup>, José Araujo Silva<sup>1</sup>, Rafaela da Silva Ferreira<sup>1</sup>, Julia Rachit Machado<sup>1</sup>, Cláudio Nahum Alves<sup>1</sup>, Philippe Thomas<sup>2</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Université de Limoges
- 17:00 Comparison between a friction stir welding heat affected zone and a continuous cooling transformation diagram of API-5L X80 steel** **M.P.2.87**  
 Barbara Zapparoli Cunha<sup>1,2</sup>, William Santos Magalhães<sup>1,2</sup>, Julián Arnaldo Ávila<sup>1,2</sup>, Antonio J. Ramirez<sup>3,2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Centro Nacional de Pesquisa em Energia e Materiais, <sup>3</sup>Ohio State University
- 17:00 Influence of annealing time on the microstructure of the ferritic stainless steel during recrystallization** **M.P.2.88**  
Ketly Pontes Soares<sup>1</sup>, Ariane Neves Moura<sup>2</sup>, Tarcísio Reis Oliveira<sup>3</sup>, Cláudio Moreira Alcântara<sup>3</sup>; <sup>1</sup>Institute of Macromolecules, IMA/UFRJ, <sup>2</sup>Materials and Metallurgical Department of IFES, <sup>3</sup>Research Center of Aperam South America
- 17:00 Physical simulation of UNS S32760 super duplex stainless steel friction stir welding** **M.P.2.89**  
William Santos Magalhães<sup>1,2</sup>, Eduardo Bertoni da Fonseca<sup>2</sup>, Sergio Tonini Button<sup>1</sup>, Antonio J. Ramirez<sup>3,2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Centro Nacional de Pesquisa em Energia e Materiais, <sup>3</sup>Ohio State University

## Wednesday, September 30th

### Poster presentations

#### Session M.P3 (17:00 - 19:00)

- 17:00 Study of precipitates Al<sub>2</sub>Cu flow after rotary forging and annealing to 350 oC of de duralumin** **M.P3.90**  
Roberta Alves Gomes Matos<sup>1</sup>, Jonas Mendes<sup>1</sup>, Carlos Alberto Rodrigues<sup>1</sup>, Bruna Horta Bastos Kuffner<sup>1</sup>, Mirian de Lourdes Noronha Motta Melo<sup>1</sup>, Gilbert Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Evolution of the duralumin's microstructural after reduction in area of 54 and 76%** **M.P3.91**  
Roberta Alves Gomes Matos<sup>1</sup>, Jonas Mendes<sup>1</sup>, Carlos Alberto Rodrigues<sup>1</sup>, Bruna Horta Bastos Kuffner<sup>1</sup>, Mirian de Lourdes Noronha Motta Melo<sup>1</sup>, Gilbert Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Influence of the alumina addition in the high energy ball milling process of the AISI 52100 steel** **M.P3.92**  
Bruna Horta Bastos Kuffner<sup>1</sup>, Alice Horta Bastos Kuffner<sup>1</sup>, Roberta Alves Gomes Matos<sup>1</sup>, Jonas Mendes<sup>1</sup>, Geovani Rodrigues<sup>1</sup>, Gilbert Silva<sup>1</sup>, Carlos Alberto Rodrigues<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Effect of Nb content on microstructure and corrosion resistance of NiTiNb shape memory alloys** **M.P3.93**  
Maria Eurenice Cronemberger<sup>1</sup>, João Pedro Tosetti<sup>2</sup>, Carlos Alberto Della Rovere<sup>1</sup>, Sebastião Elias Kuri<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Instituto Tecnológico de Aeronáutica
- 17:00 Influence of time of the nitrogen plasma immersion ion implantation (N-PIII) in the creep behavior of the Ti-6Al-4V alloy** **M.P3.94**  
Susana Zepka<sup>1</sup>, Danieli Aparecida Pereira Reis<sup>2</sup>, Maria Margareth da Silva<sup>1</sup>, Mario Ueda<sup>3</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica, <sup>2</sup>Universidade Federal de São Paulo, São José dos Campos, <sup>3</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Evaluation of the porosity and hardness of the AISI 52100 steel with alumina addition produced by powder metallurgy** **M.P3.95**  
Bruna Horta Bastos Kuffner<sup>1</sup>, Alice Horta Bastos Kuffner<sup>1</sup>, Roberta Alves Gomes Matos<sup>1</sup>, Jonas Mendes<sup>1</sup>, Geovani Rodrigues<sup>1</sup>, Gilbert Silva<sup>1</sup>, Carlos Alberto Rodrigues<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Comparative analysis of Carbide and Carbide coated with TiB<sub>2</sub> tools in Aluminium 2024 turning** **M.P3.96**  
 Marcel Yuzo Kondo<sup>1</sup>, Nathalia Mayumi Bernardes Miyahara<sup>2</sup>, Manoel Cleber de Sampaio Alves<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 Influence of the grinding parameters using high energy ball milling on the AISI 52100 steel** **M.P3.97**  
Alice Horta Bastos Kuffner<sup>1</sup>, Jonas Mendes<sup>1</sup>, Bruna Horta Bastos Kuffner<sup>1</sup>, Carlos Alberto Rodrigues<sup>1</sup>, Gilbert Silva<sup>1</sup>, Geovani Rodrigues<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Characterization of NbC Reinforced Aluminum Matrix Composites Produced by High-Energy Ball Milling** **M.P3.98**  
Marina Judice Silva<sup>1</sup>, Dilermando Nagle Travessa<sup>1</sup>, Gisele Ferreira de Lima<sup>1</sup>, Kátia Regina Cardoso<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, São José dos Campos
- 17:00 Metallurgy Applied in Development of Rotary Die Cutting of Cold Working for Processing of Flexible Fabrics** **M.P3.99**  
Giancarlo Xavier Nascimento de Sousa<sup>1</sup>, Léa Nogueira Braulino de Melo Nishioka<sup>1</sup>; <sup>1</sup>Faculdade de Tecnologia de São José dos Campos
- 17:00 Aluminum foam production from recycled containers** **M.P3.100**  
Cristina Aparecida Esteves<sup>1</sup>, Sidney Nicodemos da Silva<sup>1</sup>, Keila Cristina Vilela<sup>1</sup>, Stela Da Silva Caminhas<sup>1</sup>, Matheus Brant<sup>1</sup>; <sup>1</sup>Centro federal. De educação tecnologica de Minas Gerais
- 17:00 The effect of pre-annealing temperature on powder compressibility and properties of Eurofer stainless steel sintered P. M. parts** **M.P3.101**  
Roberta Araujo Cavalcante de Menezes<sup>1</sup>, Meysam Karimi<sup>1</sup>, Uilame Umbelino Gomes<sup>1</sup>, Marciano Furukava<sup>1</sup>, Gisele Carneiro da Cunha<sup>1</sup>, Everton Lima Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Magnetic anisotropy in metallic glasses ribbons** **M.P3.102**  
Paulo Sérgio Moscon<sup>1</sup>, Márcio Solino Pessoa<sup>1</sup>, Edson Passamani<sup>1</sup>, Fernando Pelegrini<sup>2</sup>; <sup>1</sup>Universidade Federal do Espírito Santo, <sup>2</sup>Universidade Federal de Goiás

- 17:00 Magnetic and mechanical behavior of Lean duplex steel submitted to deformation plastic and treatment of 650°C.** **M.P3.103**  
 Claudiney de Sales Pereira Mendonça<sup>1</sup>, Alexandre Nogueira Ottoboni Dias<sup>1</sup>, Caio Flaret Argentino Oliveira<sup>1</sup>, Raphael Bianchi de Vicente<sup>1</sup>, Mirian de Lourdes Noronha Motta Melo<sup>1</sup>, Manoel Ribeiro da Silva<sup>1</sup>, Gilbert Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Cyclic oxidation comparison of austenitic stainless steel at high temperature** **M.P3.104**  
 Luis Fernando Pedrosa Rabelo<sup>1</sup>, Vinicius Souza<sup>1</sup>, Artur Mariano de Sousa Malafaia<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei
- 17:00 FeMnSiCrNi cyclic oxidation evaluation at high temperatures** **M.P3.105**  
 Priscila Rodrigues de Oliveira<sup>1</sup>, Vinicius Souza<sup>1</sup>, Artur Mariano de Sousa Malafaia<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei
- 17:00 Effect of precipitation of the alpha phase line ( $\alpha'$ ) in the resistance to localized corrosion of lean duplex stainless steel UNS S32101** **M.P3.106**  
 Rodrigo Silva<sup>1</sup>, Carlos Alberto Della Rovere<sup>1</sup>, Sebastião Elias Kuri<sup>1</sup>, Luis Felipe Sverzut Baroni<sup>1</sup>, Conrado Ramos Moreira Afonso<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Extrusion efficiency in angular channel on the microstructure of copper alloys and aluminum** **M.P3.107**  
 Luiz Carlos Sekitani Silva<sup>1</sup>, Wender Santana<sup>1</sup>, Cezar Henrique Gonzalez<sup>1</sup>, Carlos Augusto Oliveira<sup>1</sup>, Karla Carolina Alves Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 FeMnSiCrNi anomalous oxidation behavior investigated by finite element analysis** **M.P3.108**  
 Valdecy Rodrigo Nascimento<sup>1</sup>, Shaiane Carazza Vallim<sup>1</sup>, Artur Mariano de Sousa Malafaia<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 17:00 Study of cyclic oxidation and oxidation on titanium surface** **M.P3.109**  
 Carolina Aurélio Ribeiro Maestro<sup>1</sup>, Roseli Marins Balestra<sup>1</sup>, Artur Mariano de Sousa Malafaia<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei
- 17:00 Stainless steel ferritic AISI 439 oxidation in atmosphere air synthetic and high temperatures** **M.P3.110**  
 Maria Fatima Salgado<sup>1,2</sup>, Jackeline Macêdo de Sousa Santos<sup>2</sup>, Ayrton de Sá Brandim<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>2</sup>CENTRO DE ESTUDOS SUPERIORES DE CAXIAS DA UNIVERSIDADE ESTADUAL DO MARANHÃO
- 17:00 Electrochemical and analytical investigation of passive films formed on Fe-Mn-Si-Cr-Ni-(Co) shape memory stainless steels in highly alkaline media** **M.P3.111**  
 Carlos Alberto Della Rovere<sup>1</sup>, Rodrigo Silva<sup>1</sup>, Jorge Otubo<sup>2</sup>, Sebastião Elias Kuri<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Instituto Tecnológico de Aeronáutica
- 17:00 Local Electrochemical Techniques for Evaluation of Friction Stir Welded AA 2024-T3** **M.P3.112**  
 Hercílio Gomes de Melo<sup>1</sup>, Camila Molena de Assis<sup>2,1</sup>, Rocio del P. Bendezu Hernandez<sup>1</sup>, Mireille Turmine<sup>2</sup>, Vincent Vivier<sup>2</sup>; <sup>1</sup>Escola Politécnica da Universidade de São Paulo, <sup>2</sup>Université Paris 6 Pierre and Marie Curie
- 17:00 Molybdenum trioxide (MoO<sub>3</sub>): synthesis, characterization and photocatalytic activity front of the blue dye anionic remazol** **M.P3.113**  
 Amanda Furtado Luna<sup>1</sup>, MARIA GIRLENE DE SOUSA BEZERRA<sup>1</sup>, Fernando Silva Reis<sup>1</sup>, José Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Federal University of Piauí
- 17:00 Effects on the electrical resistivity of niobium oxide (Nb<sub>2</sub>O<sub>5</sub>) doped barium titanate (BaTiO<sub>3</sub>) ceramics.** **M.P3.114**  
 Fábio Henrique Sales<sup>1</sup>, Alberto Neil Castro de Carvalho<sup>1</sup>, Iedo Alves de Souza<sup>2</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Instituto Federal do Maranhão, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>3</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 Creep evaluation of Ti-6Al-4V alloy with SiC thin film at 600 °C** **M.P3.115**  
 Tarcila Sugahara<sup>1</sup>, Fabiano Montoro<sup>2</sup>, Gislene Martins<sup>3</sup>, Naiara Sebbe<sup>1</sup>, Danieli Aparecida Pereira Reis<sup>1</sup>, Marcos Massi<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, São José dos Campos, <sup>2</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP, <sup>3</sup>Instituto Tecnológico de Aeronáutica
- 17:00 Perovskites Based in PbTiO<sub>3</sub> modified with neodymium using OPM (The Oxidant-Peroxide Method)** **M.P3.116**  
 Patrícia Francatto<sup>1</sup>, Elson Longo<sup>2</sup>, Edson Roberto Leite<sup>1</sup>, Emerson Rodrigues Camargo<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Paulista Julio de Mesquita Filho
- 17:00 In-situ SEM observations of Co-Cr alloys under deformation** **M.P3.117**  
 Raquel de Moraes Lobo<sup>1</sup>, Aparecido Edilson Morcelli<sup>2</sup>, Diogens Cordeiro Souza Neto<sup>1</sup>, Waldemar Alfredo Monteiro<sup>3</sup>, Arnaldo Homobono Paes de Andrade<sup>1</sup>; <sup>1</sup>Nuclear and Energy Research Institute, <sup>2</sup>Instituto de Criminalística-SSSP, <sup>3</sup>Universidade Presbiteriana Mackenzie

- 17:00 High temperatures cyclic oxidation evaluation of FeSiCrNi alloys** **M.P3.118**  
Josue Lucas do Nascimento Santos<sup>1</sup>, João Marcos de Andrade<sup>1</sup>, Artur Mariano de Sousa Malafaia<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei
- 17:00 Analysis of the manufacturing parameters of the Squeeze Casting process on the macrostructure, microstructure and mechanical properties of alloys of Al-Si system** **M.P3.119**  
 Ricardo Francisco Alves<sup>1</sup>, José Luiz Francisco Alves<sup>1</sup>, Rivaldo Lins Rocha Filho<sup>1</sup>, Eudes Leonnan Medeiros<sup>1</sup>, Claudio Alves Siqueira<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Tensile Properties Characterization of an Stainless Steel Tube for LBB Evaluation** **M.P3.120**  
Arnaldo Homobono Paes de Andrade<sup>1</sup>, Gabriel Giannini de Cunto<sup>1</sup>, Raquel de Moraes Lobo<sup>1</sup>, Waldemar Alfredo Monteiro<sup>2</sup>; <sup>1</sup>Nuclear and Energy Research Institute, <sup>2</sup>Mackenzie Presbyterian University
- 17:00 Ni-Fe-Al Thin Film Characterized by High Resolution Electron Backscattering Diffraction** **M.P3.121**  
Geronimo Perez<sup>1</sup>, Cristol de Paiva Gouvêa<sup>1</sup>, Braulio Soares Archanjo<sup>1</sup>, Carlos Alberto Achete<sup>1</sup>, Mathew Payne<sup>2</sup>, Andrew John Gellman<sup>2</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Carnegie Mellon University
- 17:00 Comparison of the Corrosion Performance of Micro- and Nanosized HVOF-sprayed WC coatings** **M.P3.122**  
 Ana Paula Fonseca Albers<sup>1</sup>, Viliam Sinka<sup>1</sup>, Lucia vieira Santos Santos<sup>1</sup>, Liz Gravito de Carvalho Gomes<sup>1</sup>, Angela A. Vieira<sup>1</sup>, Isabel C. F. Silva<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Bi-2223 consolidated by SPS: microstructure and mechanical properties evaluation** **M.P3.123**  
 Inhaudis Calzada Pompa<sup>1</sup>, Sueli Hatsumi Masunaga<sup>2</sup>, Iván García-Fornaris<sup>1</sup>, Lázaro Pérez-Acosta<sup>3</sup>, Ernesto Govea-Alcaide<sup>1</sup>, Izabel Fernanda Machado<sup>2</sup>, Renato de Figueiredo Jardim<sup>2</sup>; <sup>1</sup>Universidad de Granma, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Universidad de Camaguey
- 17:00 Synthesis and structural characterization of oxides ternary systems containing manganese nickel and cobalt** **M.P3.124**  
Felipe Barros Silva<sup>1</sup>, Cássio Morilla dos Santos<sup>1</sup>, José Marcos Sasaki<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Chemical Synthesis Production and Characterization of NiCoCu Ternary Nanoparticles** **M.P3.125**  
Eliana Paola Marín Castaño<sup>1</sup>, Ivan Guillermo Solórzano-Naranjo<sup>1</sup>, Eduardo Albuquerque Brocchi<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro
- 17:00 A Device for Obtaining Effort Cutting and Later Correlation with the Parameters Machining of a Stainless Steel Super Duplex UNS S32750** **M.P3.126**  
Clovis Velecico Velecico<sup>1</sup>, Givanildo Alves dos Santos<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 17:00 Structural properties of high performance anticorrosive PMMA-silica hybrid coatings derived from the correlation of NMR, SAXS and XPS data** **M.P3.127**  
Peter Hammer<sup>1,2</sup>, Fábio Cesar dos Santos<sup>1</sup>, Samarah Vargas Harb<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>, Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Instituto de Química - UNESP
- 17:00 Microstructural characterization and mechanical properties in pins for mechanical transmission of martensitic stainless steel and brass pins fuses in high voltage switch** **M.P3.128**  
 Carlos Alberto Soufen<sup>1</sup>, Luiz Eduardo Rodrigues Pereira<sup>1</sup>, Ivaldo De Domenico Valarelli<sup>1</sup>, marcelo capella campos<sup>1</sup>, PAULO DONATO FRIGUETTO<sup>2</sup>, Momotaro Imaizumi<sup>1</sup>, ELSON AVALLONE<sup>2</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO" - BAURU - SP, <sup>2</sup>INSTITUTO FEDERAL DE CATANDUVA
- 17:00 Application of electrochemical technic as nondestructive testing for quantification of sigma phase in duplex stainless steels** **M.P3.129**  
Hudson Loch Haskel<sup>1</sup>, Luciana Schmidlin Sanches<sup>1</sup>, Haroldo de Araujo Ponte<sup>1</sup>; <sup>1</sup>Federal University of Paraná
- 17:00 Failure analysis of steel knife and screw fixation ruptured in service** **M.P3.130**  
Luciana Sgarbi Rossino<sup>1,2</sup>, Dirceu Alves Lima<sup>2</sup>, Jéferson Aparecido Moreto<sup>3</sup>, Marcos Dorigão Manfrinato<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba, <sup>2</sup>Faculdade de Tecnologia, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia Goiano
- 17:00 Aging of Maraging-350 steel: Diffraction and Mössbauer Studies** **M.P3.131**  
Glécilla Colombelli de Souza Nunes<sup>1</sup>, Paulo Willian Sarvezuk<sup>2</sup>, Valdecir Biondo<sup>1</sup>, Marcos Vinícius Salles Nunes<sup>1</sup>, Flávio Francisco Ivashita<sup>1</sup>, Andrea Paesano Júnior<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Study of recrystallization kinetics and grain growth in shape memory alloys** **M.P3.132**  
MARCELO NAVA<sup>1</sup>, EMMANUEL PACHECO ROCHA LIMA<sup>2</sup>, PEDRO CUNHA DE LIMA<sup>1</sup>; <sup>1</sup>INSTITUTO FEDERAL DA BAHIA, <sup>2</sup>Universidade de Brasília







## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session N.OR1 (09:45 - 10:45) - Room B

- 09:45 Luminescent biosensors** N.OR1.1\*  
Sidney José Lima Ribeiro<sup>1</sup>, João Marcos Gonçalves<sup>1</sup>, Lais Roncalho Lima<sup>1</sup>, Paulo Ricardo da Silva Sanches<sup>1</sup>, Eduardo Maffud Cilli<sup>1</sup>; <sup>1</sup>Institute of Chemistry- São Paulo State University- UNESP
- 10:15 LUMINESCENT MESOPOROUS MATERIAL USING NEW SILYLATED COMPLEX OF Eu<sup>3+</sup>** N.OR1.2  
Juliana Jorge<sup>1</sup>, Marc Verelst<sup>2</sup>, Gustavo Rocha Castro<sup>3</sup>, Marco Antonio Utrera Martines<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso do Sul, <sup>2</sup>Centre d'Élaboration de Matériaux et d'Études Structurales, <sup>3</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 10:30 NIR Emitting Lanthanide Complexes for Organic Light Emitting Diodes** N.OR1.3  
 Rian Esteves Aderne<sup>1</sup>, Zubair Ahmed<sup>1</sup>, Jiang Kai<sup>1</sup>, Marco Cremona<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro

#### Session N.OR2 (11:15 - 12:30) - Room B

- 11:15 Nanothermometer based on emission intensity variation of benzoylacetone europium(III) complex** N.OR2.4  
Diogo Alves Gálico<sup>1</sup>, Italo Odone Mazali<sup>1</sup>, Fernando Aparecido Sigoli<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 11:30 Low Temperature Materials Synthesis Based in the Benzenetrycarboxylate Method** N.OR2.5  
Ivan Guide Nunes da Silva<sup>1</sup>, Danilo Mustafa<sup>1</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup>, Maria Cláudia França da Cunha Felinto<sup>2</sup>, Oscar Loureiro Malta<sup>3</sup>, Hermi Felinto Brito<sup>1</sup>; <sup>1</sup>Instituto de Química da Universidade de São Paulo, <sup>2</sup>Instituto de Pesquisas Energéticas e Nucleares, <sup>3</sup>Universidade Federal de Pernambuco
- 11:45 Laser ablation technique in liquid environment a next generation tools for materials preparation** N.OR2.6  
walter mendes de azevedo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 12:00 Luminescent magnetic hybrid materials based on samarium and terbium complexes** N.OR2.7  
Jandeilson Lima Moura<sup>1</sup>, Gilvan Pozzobon Pires<sup>1</sup>, Israel Ferreira da Costa<sup>1</sup>, Ercules Epaminondas de Sousa Teotonio<sup>1</sup>, Wagner Mendonça Faustino<sup>1</sup>, Haryane Ribeiro Morais da Silva<sup>1</sup>, Hermi Felinto Brito<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Instituto de Química - USP -SP
- 12:15 Oxygen and temperature sensitive probe based on lanthanides(III) complexes chemically bonded to polydimethylsiloxane** N.OR2.8  
Fernando Aparecido Sigoli<sup>1</sup>, Rafael Di Lazaro Gaspar<sup>1</sup>, Jorge H Monteiro<sup>1</sup>, Ivo Milton Raimundo JR<sup>1</sup>, Italo Odone Mazali<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

#### Session N.OR3 (14:00 - 15:15) - Room B

- 14:00 The use of synchrotron light on the study of luminescent materials: present and future perspectives in Brazil** N.OR3.9\*  
Douglas Galante<sup>1</sup>, Veronica de Carvalho Teixeira<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron
- 14:30 Dental ceramics: a suitable material for personnel thermoluminescence radiation dosimeter** N.OR3.10  
 Raquel Gomes da Rocha<sup>1,2</sup>, Ingrid Gomes de Lima<sup>3</sup>, Virgilio Correcher Delgado<sup>2</sup>; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro
- 14:45 Printable uv personal dosimeter: sensitivity as a function of DoD parameters and number of layers of a functional photonic ink** N.OR3.11  
Felipe Leon Nascimento de Sousa<sup>1</sup>, Lizeth Carolina Mojica Sánchez<sup>2</sup>, Savia Gavazza Pessoa<sup>2</sup>, Lourdinha Florencio<sup>2</sup>, Elaine Cavalcanti Rodrigues Vaz<sup>2</sup>, Petrus d'Amorim Santa-Cruz<sup>2</sup>; <sup>1</sup>Universidade Federal Rural de Pernambuco, <sup>2</sup>Universidade Federal de Pernambuco
- 15:00 Resonant Ultrasound Spectroscopy study on ionic crystals: Temperature and swift heavy ion irradiation effects** N.OR3.12  
Igor Alencar Vellame<sup>1,2</sup>, Eiken Haussühl<sup>2</sup>, Björn Winkler<sup>2</sup>, Christina Trautmann<sup>3</sup>, Daniel Severin<sup>3</sup>, Kay-Obbe Voss<sup>3</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Johann Wolfgang Goethe Universität Frankfurt am Main, <sup>3</sup>GSI Helmholtzzentrum für Schwerionenforschung

## Poster presentations

### Session N.P1 (17:00 - 19:00)

- 17:00 Luminescent, thermal and thermo-optical properties of Nd<sub>2</sub>O<sub>3</sub>-doped Calcium Boroaluminate glasses.** **N.P1.1**  
Julieth Daiane Marques Dias<sup>1</sup>, Franciana Pedrochi, Alysson Steimacher, Marcio José Barboza, Thiago Augusto Lodi, Glaucio Hebert Almeida de Melo, Edson Carvalho Paz; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Influence of different surfactants on the shape and optics properties of Bi<sub>2</sub>WO<sub>6</sub> nanocrystals** **N.P1.2**  
Raissa Mendes Silva<sup>1</sup>, Poliana Lima Rocha<sup>1</sup>, Amanda Fernandes Gouveia<sup>2</sup>, Máximo Siu Li<sup>3</sup>, José Renato de Oliveira Lima<sup>1</sup>, Adeilton Pereira Maciel<sup>1</sup>, Elson Longo<sup>2</sup>, Marcio Aurélio Pinheiro Almeida<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Universidade de São Paulo
- 17:00 Study of structural and thermal properties of Sm<sub>2</sub>O<sub>3</sub> doped Calcium Boroaluminate** **N.P1.3**  
Diogo Ramon do Nascimento Brito<sup>1</sup>, Maria Nayane de Queiroz<sup>1</sup>, Antônia Millena de Oliveira Lima<sup>1</sup>, Jheimison Ferreira Gomes<sup>1</sup>, Marcio José Barboza<sup>1</sup>, Alysson Steimacher<sup>1</sup>, Franciana Pedrochi<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Study of the electroluminescence mechanism in light-emitting composite based on conductive polymer and Zn<sub>2</sub>SiO<sub>4</sub>:Mn as active material** **N.P1.4**  
Giovani Gozzi<sup>1</sup>, Dante Luis Chinaglia<sup>1</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO"
- 17:00 Synthesis and characterization of Samarium doped borotellurites glasses** **N.P1.5**  
Maria Nayane de Queiroz<sup>1</sup>, Diogo Ramon do Nascimento Brito<sup>1</sup>, Antônia Millena de Oliveira Lima<sup>1</sup>, Jheimison Ferreira Gomes<sup>1</sup>, Marcio José Barboza<sup>1</sup>, Alysson Steimacher<sup>1</sup>, Franciana Pedrochi<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Fluorescence and optical properties of Eu<sup>3+</sup> doped Calcium Boroaluminate glasses.** **N.P1.6**  
Glaucio Hebert Almeida de Melo<sup>1</sup>, Edson Carvalho Paz<sup>2</sup>, Julieth Daiane Marques Dias<sup>2</sup>, Bernardo Rurik Aparecido Gomes<sup>2</sup>, Thiago Augusto Lodi<sup>2</sup>, Marcio José Barboza<sup>2</sup>, Franciana Pedrochi<sup>2</sup>, Alysson Steimacher<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal do Maranhão
- 17:00 Investigation of erbium doped calcium boro-tellurite glasses** **N.P1.7**  
Jheimison Ferreira Gomes<sup>1</sup>, Antônia Millena de Oliveira Lima<sup>1</sup>, Diogo Ramon do Nascimento Brito<sup>1</sup>, Maria Nayane de Queiroz<sup>1</sup>, Alysson Steimacher<sup>1</sup>, Franciana Pedrochi<sup>1</sup>, Marcio José Barboza<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Spectral properties of erbium ion in phosphate glasses: Judd-Ofelt intensity parameters** **N.P1.8**  
Zélia Maria Da Costa Ludwig<sup>1</sup>, Geraldo Henriques Silva<sup>1</sup>, Maria José Valenzuela Bell<sup>1</sup>, Victor Rocha da Silva<sup>1</sup>, Célia Regina da Costa<sup>2,3</sup>, Valdemir Ludwig<sup>4</sup>, Virgílio de Carvalho dos Anjos<sup>1</sup>, Diogo Rúbio Sant'Anna das Dores<sup>1</sup>, Marla Silva de Oliveira Leal<sup>1</sup>; <sup>1</sup>Universidade Federal de Juiz de Fora, <sup>2</sup>Politecnico di Milano, <sup>3</sup>Escola de Artes, Ciências e Humanidades, Universidade de São Paulo, <sup>4</sup>Universidade Federal de São João Del Rei
- 17:00 Photoluminescent Dy<sup>3+</sup>-doped Gd<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> materials with tunability of yellow, blue and green emission intensity** **N.P1.9**  
Leonardo Alves Rocha<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>, Sidney José Lima Ribeiro<sup>2</sup>, Jefferson Luis Ferrari<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Synthesis of Pr<sup>3+</sup>-doped CaTiO<sub>3</sub> by different methods: structural determination and photoluminescence properties** **N.P1.10**  
Rosana de Fátima Gonçalves<sup>1</sup>, Ana Paula de Azevedo Marques<sup>1</sup>, Alan Rogerio Lima<sup>2</sup>, Mario Godinho Junior<sup>3</sup>, Elson Longo<sup>4</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Universidade Federal de Goiás - Instituto de Química, <sup>4</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Preparation and characterization of Eu<sup>3+</sup>-Calcium Boro-tellurite glasses with metallic nanoparticles** **N.P1.11**  
Thiago Augusto Lodi<sup>1</sup>, Franciana Pedrochi<sup>1</sup>, Marcio José Barboza<sup>1</sup>, Alysson Steimacher<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Investigation of Dy<sup>3+</sup> doped Strontium Boro-tellurite glasses Luminescence Properties** **N.P1.12**  
Bernardo Rurik Aparecido Gomes<sup>1</sup>, Alysson Steimacher<sup>1</sup>, Franciana Pedrochi<sup>1</sup>, Marcio José Barboza<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Laser-heated synthesis of Nd<sup>3+</sup>-doped Al<sub>2</sub>O<sub>3</sub>-Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> eutectics for phonon relaxation medical devices.** **N.P1.13**  
Marcello Rubens Barsi Andreetta<sup>1,2</sup>, Erika R. M. Andreetta<sup>3</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Universidade Paulista

- 17:00 Photophysical properties of Aluminum Phthalocyanine Hydroxide (AlOHPc) at different solvent and concentration** N.P1.14  
Cassiano Batesttin Costa<sup>1</sup>, Bruna Bueno Postacchini<sup>1</sup>, Thiago Cazati<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Luminescent CaBAI glasses as alternative phosphor for white light LED** N.P1.15  
PEDRO ALVES FONTES NETO<sup>1,2</sup>, Glaucio Herbert Almeida Melo<sup>1</sup>, Thiago Augusto Lodi<sup>2</sup>, Franciana Pedrochi<sup>2</sup>, Marcio José Barboza<sup>2</sup>, Alysson Steimacher<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal do Maranhão
- 17:00 Eu<sup>3+</sup> as a spectroscopic probe for site symmetry in the  $\alpha$ -Ag<sub>2</sub>WO<sub>4</sub> synthesized by the coprecipitation methodology** N.P1.16  
Ivo Mateus Pinatti<sup>1</sup>, Paula Fabiana dos Santos Pereira<sup>2</sup>, Elson Longo<sup>2</sup>, Ieda Lúcia Viana Rosa<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Instituto de Química - UNESP
- 17:00 Enhancement of organic light-emitting diode light extraction by texturing PDMS layers** N.P1.17  
Cristiano Vicente<sup>1</sup>, Vinicius Claudio Zoldan<sup>1</sup>, André Avelino Pasa<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Thermoluminescence and electron paramagnetic resonance of study of apophyllite** N.P1.18  
 Shigeeo Watanabe<sup>1</sup>, Tumkur Krishnaswamy Gundu Rao<sup>1</sup>, Nilo Francisco Cano-Mamani<sup>2</sup>, Reinaldo M Ferreira<sup>1</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Universidade Federal de São Paulo
- 17:00 Tungsten oxide thin films obtained by anodizing: structure and photoluminescent properties** N.P1.19  
IRENE TERESINHA SANTOS GARCIA<sup>1</sup>, Nadja Berenice Dias da Costa<sup>2</sup>, Gabriel Haas Pires<sup>1</sup>, Andre Gundel<sup>3</sup>, Eduardo Ceretta Moreira<sup>3</sup>, Guilherme Sombrio<sup>1</sup>, Henri Ivanov Boudinov<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul, <sup>3</sup>Fundação Universidade Federal do Pampa
- 17:00 On the effect of broken conjugation on the photoluminescence properties of Eu(III) aromatic carboxylate complexes** N.P1.20  
ELAINE SILVA VASCONCELOS<sup>1</sup>, Wagner de Mendonça Faustino<sup>1</sup>, Geórgia Batista Lima<sup>1</sup>, Iran Ferreira da Silva<sup>1</sup>, Ercules Teotonio<sup>1</sup>, Gilberto Fernandes Sá<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de Pernambuco
- 17:00 Optical absorption, electronic paramagnetic resonance and luminescence spectroscopic characterization of olivine** N.P1.21  
 Shigeeo Watanabe<sup>1</sup>, Antonio Quina<sup>2</sup>, Tumkur Krishnaswamy Gundu Rao<sup>1</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Instituto de Pesquisas Energéticas e Nucleares
- 17:00 Photoluminescence analysis influenced by passivation of oxidized structures of Porous Silicon** N.P1.22  
Tiago Franca Paes<sup>1</sup>, Luiz Angelo Berni<sup>1</sup>, Antonio Fernando Beloto<sup>1</sup>; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Optical and Structural Properties of CaTiO<sub>3</sub>/ $\alpha$ -Ag<sub>2</sub>WO<sub>4</sub>** N.P1.23  
Mayara Mondego Teixeira<sup>1</sup>, Wyllamaney da Silva Pereira<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 NaYF<sub>4</sub> nanoparticles co-doped with Yb<sup>3+</sup> and Nd<sup>3+</sup> for temperature sensing** N.P1.24  
Andréa Ferreira da Silva<sup>1</sup>, Adriana Fontes<sup>1</sup>, Edilson Lucena Falcão-Filho<sup>1</sup>, Beate Saegesser Santos<sup>1</sup>, Cid Bartolomeu de Araújo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Theoretical investigations of new solid-state emissive Tellurophenes compounds** N.P1.25  
Inara de Aguiar<sup>1</sup>, Eric Rivard<sup>2</sup>, Alex Brown<sup>2</sup>, Gabriel L. C. de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>University of Alberta
- 17:00 Photostability study of CdTeQuantum dots encapsulated in a silica shell nanostructure.** N.P1.26  
Leticia Gazola Tartuci<sup>1</sup>, Luis Fernando Tonholo Domingos<sup>1</sup>, Jefferson Bettini<sup>2</sup>, kayo Oliveira Vieira<sup>1</sup>, Jefferson Luis Ferrari<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>Laboratório Nacional de Nanotecnologia
- 17:00 Resonance Energy Transfer Between Quantum Dots of CdTe and Carbon Dots Containing Nitrogen** N.P1.27  
Brener Rodrigo Carvalho Vale<sup>1</sup>, Jefferson Luis Ferrari<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 17:00 Structural correlations and spectroscopic properties of rare earth doped fluorophosphate glasses and glass ceramics** N.P1.28  
Tássia Souza Gonçalves<sup>1</sup>, Marcos Oliveira Jr.<sup>1</sup>, Hellmut Eckert<sup>1</sup>, Andrea Simone Stucchi de Camargo<sup>1</sup>; <sup>1</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 Study of coordination environment for rare earths ions present in phosphors obtained by spray pyrolysis** N.P1.29  
André Riul<sup>1</sup>, José Mauricio Almeida Caiuti<sup>1</sup>; <sup>1</sup>Universidade de São Paulo

- 17:00 Analysis of particle size distribution of water-soluble CdTe-MSA quantum dots by optical spectroscopy** **N.P1.30**  
José Carlos Leandro de Sousa<sup>1</sup>, Jefferson Luis Ferrari<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 17:00 Spectroscopic properties of nanostructured red phosphors based on europium and gold in the host of yttrium molybdate** **N.P1.31**  
Celso Xavier Cardoso<sup>1</sup>, Airton Germano Bispo Junior<sup>2</sup>, Gabriel Mamoru Marques Shinohara<sup>3</sup>, Ana Maria Pires<sup>1</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente, <sup>2</sup>IBILCE Universidade Estadual Paulista, <sup>3</sup>Instituto de Química - UNESP
- 17:00 Dependence of lifetime of excited state  $^5D_0$  as a function crystallite size of  $\text{Eu}^{3+}$ -doped  $\text{Y}_2\text{O}_3$  obtained via different route synthesis** **N.P1.32**  
Caroline de Mayrinck<sup>1</sup>, Renato Luiz Siqueira<sup>2</sup>, Sidney José Lima Ribeiro<sup>3</sup>, Marco Antonio Schiavon<sup>1</sup>, Jefferson Luis Ferrari<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 17:00 Optical properties and thermal study of  $\text{Tb}(\text{DAS})_3 \cdot 2\text{H}_2\text{O}$  and  $\text{Eu}(\text{DAS})_3 \cdot 7\text{H}_2\text{O}$  sulfonates** **N.P1.33**  
RODRIGO VIEIRA RODRIGUES<sup>1,2</sup>, JIVALDO ROSÁRIO MATOS<sup>3</sup>, Hermi Felinto Brito<sup>3</sup>, Latifullah Khan<sup>3</sup>, Lukasz Marciniak<sup>4</sup>, Wieslaw Streck<sup>4</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO, <sup>3</sup>Instituto de Química da Universidade de São Paulo, <sup>4</sup>INSTITUTE OF LOW TEMPERATURE AND STRUCTURE RESEARCH

## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session N.OR4 (09:45 - 10:45) - Room A

- 09:45 LUMPAC project: Development of a Computational tool for Experimental Researches** N.OR4.13\*  
 José Diogo Lisboa Dutra<sup>1</sup>, Ricardo O Freire<sup>1</sup>; <sup>1</sup>Pople Computational Chemistry Laboratory, Department of Chemistry, UFS, São Cristóvão - SE
- 10:15 Novel BODIPY Dyes Targeting Strong Two-Photon Absorption** N.OR4.14  
 Thiago A.S. Cardoso<sup>1</sup>, Juan Andrés Castañeda<sup>1</sup>, Anna Hoerner<sup>2</sup>, Dominik K. Koemel<sup>2</sup>, Stefan Braese<sup>2</sup>, Carlos Henrique Brito Cruz<sup>1</sup>, Lazaro A Padilha<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Karlsruhe Institute of Technology
- 10:30 Luminescence study of rare earth (Eu<sup>3+</sup>, Er<sup>3+</sup>) doped tungsten-phosphate glasses** N.OR4.15  
Mohammad Reza Dousti<sup>1</sup>, Gaël Poirier<sup>2</sup>, Andrea Simone Stucchi de Camargo<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade Federal de Alfenas

#### Session N.OR5 (11:15 - 12:30) - Room A

- 11:15 Effect of concentration on the luminescent properties of powders LaOF : Eu 3+** N.OR5.16  
JOÃO PAULO CARVALHO<sup>1</sup>, Thamasia Fernanda Evangelista<sup>1</sup>, NIKIFOR RAKOV GOMEZ<sup>1</sup>, Jorge Adriano Alves Coelho<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco
- 11:30 Titanium phosphors as a new alternative to rare earth doped materials** N.OR5.17  
José Miranda Carvalho<sup>1</sup>, Cássio Cardoso Santos Pedroso<sup>1</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup>, Mika Lastusaari<sup>2</sup>, Maria Cláudia França da Cunha Felinto<sup>3</sup>, Hermi Felinto Brito<sup>1</sup>; <sup>1</sup>Instituto de Química-Universidade de São Paulo, <sup>2</sup>University of Turku / Turun yliopisto, <sup>3</sup>Instituto de Pesquisas Energéticas e Nucleares
- 11:45 Light emission characterization of Tb<sup>3+</sup> doped a-SiC:H thin films** N.OR5.18  
Jorge Andres Guerra<sup>1,2</sup>, Liz Margarita Montañez Huamán<sup>1,3</sup>, Albrecht Winnacker<sup>2</sup>, Roland Weingärtner<sup>1,2</sup>; <sup>1</sup>Pontificia Universidad Católica del Perú, <sup>2</sup>Friedrich Alexander Universität Erlangen Nürnberg, <sup>3</sup>Technische Universität Ilmenau
- 12:00 Photophysical properties of silver-based coordination polymers** N.OR5.19  
Catiúcia Rodrigues Marcelino Oliveira Matos<sup>1</sup>, Célia Machado Ronconi<sup>1</sup>, Carlos Basílio Pinheiro<sup>2</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Universidade Federal de Minas Gerais
- 12:15 Effects of repulsive forces from Naphthalene Diimide on Hydrogel and Soluble Copolymer** N.OR5.20  
Fátima Aparecida das Chagas Silva<sup>1</sup>, Eduardo Rezende Triboni<sup>2</sup>, Fábio Herbst Florenzano<sup>2</sup>, Mário José Politi<sup>1</sup>, Ligia Ferreira Gomes<sup>3</sup>, Isis Vasconcelos<sup>4</sup>, Francisco Palacios Fernandez<sup>5</sup>, Thamires da Silva Ribeiro<sup>2,1</sup>; <sup>1</sup>Instituto de Química - USP - SP, <sup>2</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>3</sup>Faculdade de Ciências Farmacêuticas, <sup>4</sup>Instituto de Física de São Carlos - USP, <sup>5</sup>Faculdades de Ciências Farmacêuticas

#### Session N.OR6 (14:00 - 15:15) - Room A

- 14:00 Quantum dots illuminating the macro and micro world** N.OR6.21\*  
Beate Saegesser Santos<sup>1</sup>; <sup>1</sup>Departamento de Ciências Farmacêuticas - UFPE
- 14:30 Synthesis and characterization of water-soluble ternary CuInS<sub>2</sub> environmentally friendly quantum dots** N.OR6.22  
Calink Indiara do Livramento dos Santos<sup>1</sup>, Jefferson Luis Ferrari<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 14:45 Spectroscopic Characterization of Functionalized CNT as Nano-antennas in Light Conversion Nanostructured Devices** N.OR6.23  
Elaine Cavalcanti Rodrigues Vaz<sup>1</sup>, Audrey Nunes de Andrade<sup>1</sup>, Janaína Versiani dos Anjos<sup>1</sup>, Petrus d'Amorim Santa-Cruz<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 15:00 Tuning Dual Fluorescence in Leucoemeraldine by Self-Assembling upon Gold Nanoparticles** N.OR6.24  
Isaac Aarón Frías<sup>1</sup>, Celso Pinto de Melo<sup>1</sup>, César Augusto Souza de Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco

## Poster presentations

### Session N.P2 (17:00 - 19:00)

- 17:00 Synthesis and characterization of core-shell nanocomposites of gadolinium hydroxide and samarium hydroxide** N.P2.34  
Maria Aparecida Bezerra Santos<sup>1</sup>, Mario Godinho Junior<sup>1</sup>, Rosana de Fátima Gonçalves<sup>2</sup>, Murillo Henrique de Matos Rodrigues<sup>1</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Universidade Federal de Goiás, <sup>2</sup>Universidade Federal de São Paulo, <sup>3</sup>Instituto de Química - UNESP
- 17:00 Spurious Thermoluminescence observed in nanocrystalline BaTiO<sub>3</sub> Powder obtained by Pechini's Method** N.P2.35  
Seila Rojas Souza<sup>1</sup>, Anderson Sergio Bannwart<sup>1</sup>, Ronaldo Santos da Silva<sup>2</sup>, José Ezequiel De Souza<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal da Grande Dourados, <sup>2</sup>Universidade Federal de Sergipe
- 17:00 Sr<sub>2</sub>CeO<sub>4</sub> pure or doped with Eu<sup>3+</sup> with intense blue, red and white emission** N.P2.36  
Gustavo Gabriel Percília<sup>1</sup>, Leonardo Alves Rocha<sup>2</sup>, Marco Antonio Schiavon<sup>2</sup>, Jefferson Luis Ferrari<sup>2</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>Universidade Federal de São João del-Rei
- 17:00 X-ray diffraction characterization of the perovskite of calcium titanate doped with rare earth.** N.P2.37  
Ana Regina de Queiroz Silva<sup>1</sup>, Ana Angélica Mathias Macêdo<sup>2</sup>, Cléber Cândido Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão
- 17:00 Eletrochemical Route for the Synthesis of CdS and ZnS Quantum Dots** N.P2.38  
Jéssica Monteiro Dias<sup>1</sup>, Denilson de Vasconcelos Freitas<sup>1</sup>, Sergio Gonçalves Batista Passos<sup>1</sup>, Marcelo Navarro<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Enhancing luminescence in CdTe-AMP QDs by Aminoacids co-stabilizing agents** N.P2.39  
Rayany Kelly Vieira dos Santos<sup>1</sup>, Jéssica Monteiro Dias<sup>1</sup>, Denilson de Vasconcelos Freitas<sup>1</sup>, Diego de Paula Santos<sup>1</sup>, Marcelo Navarro<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 One-pot Electrosynthesis of CdTe Quantum Dots Capped by Mercaptopropionic Acid in Cavity Cell** N.P2.40  
Denilson de Vasconcelos Freitas<sup>1</sup>, Jéssica Monteiro Dias<sup>1</sup>, Sergio Gonçalves Batista Passos<sup>1</sup>, Marcelo Navarro<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Energy transfer peptide-lanthanides by antenna effect for use in biosensors** N.P2.41  
Lais Roncalho Lima<sup>1</sup>, João Marcos Gonçalves<sup>1</sup>, Paulo Ricardo da Silva Sanches<sup>1</sup>, Marli Leite de Moraes<sup>2</sup>, Eduardo Maffud Cilli<sup>1</sup>, Sidney José Lima Ribeiro<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP, <sup>2</sup>Universidade Federal de São Paulo
- 17:00 High luminescent Carbon dots via pyrolysis of a low cost precursor** N.P2.42  
Roberto Vaz<sup>1</sup>, Ana Beatriz Ferreira Vitoretí<sup>2</sup>, kayo Oliveira Vieira<sup>1</sup>, Jefferson Luis Ferrari<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei, <sup>2</sup>Universidade Federal de São João Del Rei
- 17:00 Optical and Magnetic Nanocomposites Containing Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> Grafted with Eu<sup>3+</sup> and Tb<sup>3+</sup> Complexes** N.P2.43  
Latif Ullah Khan<sup>1</sup>, Diego Muraca<sup>2</sup>, Hermi Felinto Brito<sup>1</sup>, Kleber Roberto Pirota<sup>2</sup>, Maria Cláudia França da Cunha Felinto<sup>3</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Instituto de Perquisas Energéticas e Nucleares
- 17:00 Synthesis of florescent carbon nanoparticles derived from mineral coal** N.P2.44  
Lais Galvão Caetano<sup>1</sup>, Maurício Cavicchioli<sup>1</sup>, Molíria Vieira dos Santos<sup>1</sup>, Sidney J.L. Ribeiro<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP Araraquara
- 17:00 Structural characterization and fluoride quantification of fluorophosphate glasses using Solid-State NMR** N.P2.45  
Jonas Koppe<sup>1</sup>, Tobias Uesbeck<sup>1</sup>, cynthia regina ferrari<sup>2</sup>, Raphael Moreira<sup>3</sup>, Hellmut Eckert<sup>1,2</sup>; <sup>1</sup>Westfälische Wilhelms-Universität Münster, <sup>2</sup>Instituto de Física de São Carlos - USP, <sup>3</sup>Freie Universität Berlin
- 17:00 Growth of Metallic Silver Nanostructures on Ag<sub>3</sub>PO<sub>4</sub> and Their Optical Properties** N.P2.46  
Gleice Botelho<sup>1</sup>, Júlio César Sczancoski<sup>2</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Universidade Estadual Paulista
- 17:00 Investigation of photophysical properties of a new Pt(II) complex in solution and incorporated in silica host matrices** N.P2.47  
Leandro Piaggi Ravaro<sup>1</sup>, Andrea Simone Stucchi de Camargo<sup>2</sup>, Thiago Branquinho de Queiroz<sup>3</sup>, Cristian A. Strassert<sup>4</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Santa Catarina, <sup>2</sup>Instituto de Física de São Carlos - USP, <sup>3</sup>Theoretical Physics IV, University of Bayreuth, Bayreuth, Germany, <sup>4</sup>Center for Nanotechnology (CeNTech) and Physikalisches Institut Westfälische Wilhelms



- 17:00 Luminescent sensor of Ca<sup>2+</sup> type [Eu(2- thenoyltrifluoroacetone)<sub>3</sub>(dibenzo-24-crown-8)] in aqueous media** **N.P2.48**  
Uíne Lima Oliveira<sup>1,2</sup>, Jorge Fernando Silva de Menezes<sup>1,2</sup>, Vanessa Argolo Oliveira<sup>1,2</sup>, Rodrigo Galvão dos Santos<sup>1,2</sup>; <sup>1</sup>Universidade Federal do Recôncavo da Bahia, <sup>2</sup>Instituto Nacional de Ciência e Tecnologia de Energia e Ambiente
- 17:00 Förster or Dexter? Energy-Transfer Mechanisms between fluorescent nanoparticles** **N.P2.49**  
 Roberta Silva Pugina<sup>1</sup>, José Mauricio Almeida Caiuti<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto-USP
- 17:00 Microwave assisted synthesis of carbon dots from tropical fruits** **N.P2.50**  
Daliana Muller<sup>1</sup>, Marcela Guiotoku<sup>2</sup>, Dachamir Hotza<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Empresa Brasileira de Pesquisa Agropecuária
- 17:00 Highly Luminescent Metal Organic Framework Eu(TMA)(H<sub>2</sub>O)<sub>4</sub> Materials Prepared by Laser Ablation Technique in Liquid** **N.P2.51**  
Ohanna Maria Menezes Madeiro da Costa<sup>1</sup>, Eduardo Henrique Lago Falcão<sup>1</sup>, walter mendes de azevedo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Residual glass and crystalline phases in a barium disilicate glass-ceramic** **N.P2.52**  
ALUISIO ALVES CABRAL JUNIOR, Marcel Castro Cantanhede Araújo, José Manuel Rivas Mercury, Rômulo Simões Angélica
- 17:00 Photoluminescence properties of Yb<sup>3+</sup> - Nd<sup>3+</sup> doped GeO<sub>2</sub> - PbO under excitation at 805 nm** **N.P2.53**  
Felipe Elan Silva<sup>1</sup>, Cid B. de Araújo<sup>1</sup>, Edilson Lucena Falcão-Filho<sup>1</sup>, Luciana Reyes Pires Kassab<sup>2</sup>, Maurício Eiji Camilo<sup>2</sup>, José Augusto Garcia<sup>2</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Faculdade de Tecnologia de São Paulo
- 17:00 Structural and optical properties optimization of Ba<sub>2</sub>SiO<sub>4</sub>:Eu<sup>3+</sup>(5%) red nanophosphor obtained via sol-gel route for white LED application** **N.P2.54**  
Airton Germano Bispo Junior<sup>1</sup>, Diego Ariça Ceccato<sup>1</sup>, Sergio Antonio Marques Lima<sup>1</sup>, Ana Maria Pires<sup>1</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente
- 17:00 Structural and Photoacoustic investigation of SrGa<sub>2</sub>O<sub>4</sub> samples co-doped with Nd<sup>3+</sup> and Cr<sup>3+</sup> ions** **N.P2.55**  
Ludiane Silva Lima<sup>1</sup>, Ada López<sup>1</sup>, Norberto Cella<sup>1</sup>, Raul José da Silva Camara Mauricio da Fonseca<sup>1</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Effect of temperature photoluminescence properties of ZrO<sub>2</sub>** **N.P2.56**  
 Laura Ximena Lovisa<sup>1</sup>, Yara Feliciano Gomes<sup>1</sup>, Raimison Bezerra de Assis<sup>1</sup>, Mauricio Roberto Bomio Delmonte<sup>1</sup>, Carlos Alberto Paskocimas<sup>1</sup>, Fabiana Villela da Motta<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Synthesis and characterization of a hybrid phosphor: silica nanoparticles functionalized with an iridium(III) complex through a Schiff base** **N.P2.57**  
Alessandra Mara Garbosa Mutti<sup>1,2</sup>, João Antonio Oliveira Santos<sup>2</sup>, Ana Maria Pires<sup>3,1</sup>, Sergio Antonio Marques Lima<sup>1,2</sup>; <sup>1</sup>IBILCE Universidade Estadual Paulista, <sup>2</sup>Universidade Estadual Paulista - Campus de Presidente Prudente, <sup>3</sup>FCT-UNESP Campus de Presidente Prudente
- 17:00 Determining the Crystal Nucleation Rates by Optical Microscopy (OM) and Differential Scanning Calorimetry (DSC) in a BaO·2SiO<sub>2</sub> glass** **N.P2.58**  
Alberth Matheus Costa, ALUISIO ALVES CABRAL JUNIOR, Vladimir M Fokin
- 17:00 Rare Earth compounds as potential phosphors for LED systems** **N.P2.59**  
Alexandre Almeida Matias<sup>1</sup>, Paulo César Sousa Filho<sup>2</sup>, Osvaldo Antonio Serra<sup>2</sup>; <sup>1</sup>Departamento de Química, Universidade de São Paulo, Ribeirão Preto, <sup>2</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto-USP
- 17:00 CdTe-MPA QD as luminescent marker for Aedes aegypti larvae** **N.P2.60**  
Daniela M. A. Ferraz Navarro<sup>1</sup>, Camila Soledade Lira<sup>1</sup>, Patricia Cristina Bezerra-Silva<sup>1</sup>, Denilson de Vasconcelos Freitas<sup>1</sup>, Jéssica Monteiro Dias<sup>1</sup>, Marcelo Navarro<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Band gap determination in borate glasses** **N.P2.61**  
Mauricio Rodriguez Chialanza<sup>1</sup>, Andrés Cárdenas<sup>1</sup>, Laura Fornaro<sup>1</sup>; <sup>1</sup>Universidad de la República

## Thursday, October 1st

### Poster presentations

#### Session N.P3 (09:45 - 11:45)

- 09:45 Photocatalytic degradation of Rhodamine B using Ag<sub>3</sub>PO<sub>4</sub> microcrystals synthesized by the microwave-assisted hydrothermal method** N.P3.62  
Wyllamane da Silva Pereira<sup>1</sup>, Gleice Botelho<sup>1</sup>, Juan Andrés<sup>2</sup>, Lourdes Gracia<sup>2</sup>, Leandro Silva Matos<sup>1</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Institute of Advanced Materials (INAM), Universitat Jaume I, 12071 Castelló, <sup>3</sup>Universidade Estadual Paulista - Câmpus de Araraquara
- 09:45 Red persistent luminescence of R<sub>2</sub>O<sub>2</sub>S:Eu<sup>3+</sup>, Mg<sup>2+</sup>, Ti<sup>IV</sup> materials (R<sup>3+</sup>: La, Gd and Y) prepared by microwave-assisted synthesis** N.P3.63  
 Ian Pompermayer Machado<sup>1</sup>, José Miranda Carvalho<sup>1</sup>, Ivan Guide Nunes Silva<sup>2</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup>, Hermi Felinto Brito<sup>1</sup>; <sup>1</sup>Instituto de Química-Universidade de São Paulo, <sup>2</sup>Instituto de Química da Universidade de São Paulo
- 09:45 Synthesis and characterization of calcium titanate and copper (CCTO) doped donor/acceptor of electrons** N.P3.64  
 Pedro Emílio Amador Salomão<sup>1</sup>, Máximo Siu Li<sup>2</sup>, Francisco Moura Filho<sup>1</sup>, Carla Júnia Santos<sup>3,1</sup>; <sup>1</sup>Laboratório Interdisciplinar de Materiais Avançados, <sup>2</sup>Instituto de Física de São Carlos (IFSC), <sup>3</sup>Universidade Federal de Itajubá
- 09:45 Mechanisms involved in self-activated luminescence of hydroxyapatite nanoparticles** N.P3.65  
Thales Rafael Machado<sup>1,2</sup>, Eloisa Cordoncillo<sup>2</sup>, Héctor Beltrán Mir<sup>2</sup>, Máximo Siu Li<sup>3</sup>, Elson Longo<sup>4</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universitat Jaume I, <sup>3</sup>Instituto de Física de São Carlos - USP, <sup>4</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:45 Fluorescence dynamics of Er<sup>3+</sup> and Er<sup>3+</sup>: Yb<sup>3+</sup> doped Y<sub>2</sub>SiO<sub>5</sub> nanocrystalline powders prepared by combustion synthesis.** N.P3.66  
Jorge Adriano Alves Coelho<sup>1</sup>, André Romão Terto<sup>1</sup>, Jaderson Araujo Barros Barbosa<sup>1</sup>, Paulo Henrique Oliveira Júnior<sup>2,3</sup>, Jorge Mauricio Silva Santos<sup>4</sup>, Francisco Silva Matias<sup>2,1</sup>, Nikifor Rakov Gomez<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>2</sup>Universidade do Estado da Bahia, <sup>3</sup>IF Sertão Pernambucano/Campus Petrolina, <sup>4</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 09:45 Upconversion Analysis in Gd<sub>2</sub>SiO<sub>5</sub> Powders doped with Er<sup>3+</sup> and Yb<sup>3+</sup>** N.P3.67  
 André Romão Terto<sup>1</sup>, Jorge Adriano Alves Coelho<sup>1</sup>, Jaderson Araujo Barros Barbosa<sup>1</sup>, Paulo Henrique Oliveira Júnior<sup>2,3</sup>, Jorge Mauricio Silva Santos<sup>4</sup>, Francisco Silva Matias<sup>2,1</sup>, Nikifor Rakov Gomez<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>2</sup>Universidade do Estado da Bahia, <sup>3</sup>IF Sertão Pernambucano/Campus Petrolina, <sup>4</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 09:45 Study of properties in spectroscopic LaOF of nanomaterials doped and co-doped with Eu<sup>3+</sup> and Eu<sup>3+</sup> - Yb<sup>3+</sup>** N.P3.68  
 Jaderson Araujo Barros Barbosa<sup>1</sup>, André Romão Terto<sup>1</sup>, Jorge Adriano Alves Coelho<sup>1</sup>, Jorge Mauricio Silva Santos<sup>2</sup>, Paulo Henrique Oliveira Júnior<sup>3,4</sup>, Francisco da Silva Matias<sup>1,4</sup>, Nikifor Rakov Gomez<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>3</sup>IF Sertão Pernambucano/Campus Petrolina, <sup>4</sup>Universidade Estadual da Bahia
- 09:45 Dependence of upconversion emission intensity on Yb<sup>3+</sup> concentration in Y<sub>2</sub>(MoO<sub>4</sub>)<sub>3</sub>:Yb<sup>3+</sup>, Er<sup>3+</sup>** N.P3.69  
Liana Key Okada Nakamura<sup>1</sup>, Lucas Carvalho Veloso Rodrigues<sup>2</sup>, Hermi Felinto Brito<sup>2</sup>, Maria Cláudia França da Cunha Felinto<sup>1</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares, <sup>2</sup>Universidade de São Paulo
- 09:45 MEH-PPV-based material for 3D gel dosimetry** N.P3.70  
João Leno Antônio de Sousa<sup>1</sup>, Mariane Satomi Weber Murase<sup>1</sup>, Giovana Ribeiro Ferreira<sup>2</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal dos Vales do Jequitinhonha E Mucuri
- 09:45 Study of Eu(III) distribution in poorly- and well-crystallized domains of hydroxyapatite particles using site-selective excitation** N.P3.71  
Thales Rafael Machado<sup>1,2</sup>, Elson Longo<sup>3</sup>, Héctor Beltrán Mir<sup>4</sup>, Rolindes Balda<sup>5</sup>, Joaquin Fernandez<sup>5</sup>, Eloisa Cordoncillo<sup>4</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universitat Jaume I, <sup>3</sup>Universidade Estadual Paulista - Câmpus de Araraquara, <sup>4</sup>Universitat Jaume I, <sup>5</sup>Universidad del País Vasco

- 09:45 Low-temperature down-conversion luminescence behavior of nanosized phosphors with potential application in optical devices** **N.P3.72**  
Nagyla Alves de Oliveira<sup>1</sup>, Elizabeth Aparecida Alves<sup>1</sup>, Gabriel Mamoru Marques Shinohara<sup>2</sup>, Ana Maria Pires<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente, <sup>2</sup>Instituto de Química - UNESP - Campus de Araraquara
- 09:45 Nanostructured hybrid films of red luminescent nanophosphor by layer-by-layer technique** **N.P3.73**  
Gabriel Mamoru Marques Shinohara<sup>1</sup>, Nagyla Alves de Oliveira<sup>2</sup>, Ana Maria Pires<sup>2</sup>; <sup>1</sup>Instituto de Química - UNESP - Campus de Araraquara, <sup>2</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente
- 09:45 Angle dependent light emission from chiral nematic structures.** **N.P3.74**  
Molíria Vieira dos Santos<sup>1</sup>, Édison Pecoraro<sup>1</sup>, Rute A.S. Ferreira<sup>2</sup>, Luis Dias Carlos<sup>2</sup>, Sidney José Lima Ribeiro<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP Araraquara, <sup>2</sup>Universidade de Aveiro
- 09:45 Persistent luminescence of Rare Earth doped materials prepared by sol-gel method** **N.P3.75**  
Otávio Pereira Bezzan<sup>1</sup>, Cássio Cardoso Santos Pedroso<sup>1</sup>, José Miranda Carvalho<sup>1</sup>, Maria Cláudia França da Cunha Felinto<sup>2</sup>, Hermi Felinto Brito<sup>1</sup>, Jorma Hölsä<sup>3,1</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup>; <sup>1</sup>Instituto de Química-Universidade de São Paulo, <sup>2</sup>Instituto de Perquisas Energéticas e Nucleares, <sup>3</sup>University of Turku / Turun yliopisto
- 09:45 Photoluminescence study of Eu<sub>2</sub>O<sub>3</sub> doped Hydroxyapatite co-doped with Yb<sub>2</sub>O<sub>3</sub>** **N.P3.76**  
Jailton Romão Viana<sup>1</sup>, Cléber Cândido Silva<sup>1</sup>, Ana Angélica Mathias Macêdo<sup>2,1</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão
- 09:45 Dy<sup>3+</sup> co-doping effects on persistent luminescent Sr<sub>2</sub>MgSi<sub>2</sub>O<sub>7</sub>:Eu<sup>2+</sup> materials** **N.P3.77**  
 Leonnam Gotardo Merizio<sup>1</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup>, Hermi Felinto Brito<sup>1</sup>; <sup>1</sup>Instituto de Química-Universidade de São Paulo
- 09:45 Preparation of luminescent Y<sub>2-x</sub>Eu<sub>x</sub>(MoO<sub>4</sub>)<sub>3</sub> amino-functionalized silica nanoparticles for biological applications** **N.P3.78**  
 Clarissa Lombardi Dias<sup>1</sup>, Liana Key Okada Nakamura<sup>2</sup>, Lucas Carvalho Rodrigues<sup>3</sup>, Ercules Teotonio<sup>4</sup>, Oscar LOUREIRO Malta<sup>5</sup>, Hermi Felinto Brito<sup>3</sup>, Maria Cláudia França da Cunha Felinto<sup>2</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares, <sup>2</sup>Instituto de Perquisas Energéticas e Nucleares, <sup>3</sup>Instituto de Química - USP -SP, <sup>4</sup>Universidade Federal da Paraíba, <sup>5</sup>Universidade Federal de Pernambuco
- 09:45 Preparation and characterization of fluorescent nanocomposites of aniline/dodecanethiol and gold/dodecanethiol** **N.P3.79**  
Filipe Dione Souza Gorza<sup>1</sup>, Graciela da Costa Pedro<sup>1</sup>, Alicia Elizabeth Chávez Guajardo<sup>1</sup>, Juan Carlos Medina Llamas<sup>1</sup>, César Augusto Souza de Andrade<sup>1</sup>, Celso Pinto de Melo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 09:45 Calcium phosphates doped with lanthanide ions: Synthesis and characterization** **N.P3.80**  
 Ercules Epaminondas de Sousa Teotonio<sup>1</sup>, José Hundemberg Pereira Barbosa<sup>1</sup>, Wagner Mendonça Faustino<sup>1</sup>, Hermi Felinto Brito<sup>2</sup>, Maria Cláudia França da Cunha Felinto<sup>3</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Instituto de Química - USP - SP, <sup>3</sup>Instituto de Perquisas Energéticas e Nucleares
- 09:45 Carbon Quantum Dots: a emergent platform for protein sensing** **N.P3.81**  
Alvernes Carneiro Cruz<sup>1</sup>, Rafael Melo Freire<sup>1</sup>, Odair Pastor Ferreira<sup>1</sup>, Pierre Basílio Almeida Fechine<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 09:45 Lanthanide coordination compounds containing 2-thenoyltrifluoroacetone and triphenylarsine oxide: Synthesis, characterization and energy transfer mechanism** **N.P3.82**  
Paulo Roberto da Silva Santos<sup>1</sup>, Ercules Epaminondas de Sousa Teotonio<sup>1</sup>, Hermi Felinto Brito<sup>2</sup>, Wagner Mendonça Faustino<sup>1</sup>, Maria Cláudia França da Cunha Felinto<sup>3</sup>, Dariston Kleber Sousa Pereira<sup>4</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Instituto de Química - USP -SP, <sup>3</sup>Instituto de Perquisas Energéticas e Nucleares, <sup>4</sup>UNIVERSIDADE FEDERAL DA PARAIBA
- 09:45 Synthesis of Y<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup> and silica Core-Shell systems for application as reporters in immunoassay.** **N.P3.83**  
André Lucas Costa<sup>1</sup>, Gabriel Mamoru Marques Shinohara<sup>1</sup>, Sergio Antonio Marques Lima<sup>1</sup>, Ana Maria Pires<sup>1</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente
- 09:45 Molten Ligand Synthesis Method And Luminescence Study Of Re<sup>3+</sup> Complexes With Glutarate** **N.P3.84**  
Israel Pereira Assunção<sup>1</sup>, Hermi Felinto Brito<sup>1</sup>, Maria Claudia França da Cunha Felinto<sup>2</sup>, Oscar Manoel Loureiro Malta<sup>3</sup>; <sup>1</sup>Instituto de Química - USP -SP, <sup>2</sup>Instituto de Perquisas Energéticas e Nucleares, <sup>3</sup>Universidade Federal de Pernambuco
- 09:45 Structural and Optical characterization of doped YAG laser sintered ceramics** **N.P3.85**  
Jerre Cristiano Alves dos Santos<sup>1</sup>, Eliane Pinheiro da Silva<sup>1</sup>, David Vieira Sampaio<sup>1</sup>, Luiz Jacobsohn<sup>2</sup>, Ronaldo Santos da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe, <sup>2</sup>Clensom University

- 09:45 Laser sintering technique for luminescent ceramic materials** **N.P3.86**  
Ronaldo Santos da Silva<sup>1</sup>, David Vieira Sampaio<sup>1</sup>, Jerre Cristiano Alves dos Santos<sup>1</sup>, Natalilian Roberta Silva Souza<sup>1</sup>, Ylla Grasielle dos Santos Alves<sup>1</sup>, Deyvid Carmo Silva<sup>1</sup>, Eliane Pinheiro da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe
- 09:45 Trivalent lanthanide compounds with triphenylphosphine and triphenylarsene oxide ligands: Synthesis and characterization.** **N.P3.87**  
Yolanda Cavalcante de Miranda<sup>1</sup>, Ercules Epaminondas de Sousa Teotonio<sup>1</sup>, Wagner Mendonça Faustino<sup>1</sup>, Hermi Felinto Brito<sup>2</sup>, Maria Cláudia França da Cunha Felinto<sup>3</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Instituto de Pesquisas Energéticas e Nucleares
- 09:45 New Al<sup>3+</sup> and Ga<sup>3+</sup> compounds with 2-acilindan-1,3-dionates ligands: synthesis and photophysical properties** **N.P3.88**  
Israel Ferreira da Costa<sup>1</sup>, João Batista Moura de Resende Filho<sup>1</sup>, Juliana Alves Vale<sup>1</sup>, Hermi Felinto Brito<sup>2</sup>, Wagner Mendonça Faustino<sup>1</sup>, Paulo Roberto da Silva Santos<sup>1</sup>, Ercules Epaminondas de Sousa Teotonio<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Instituto de Química - USP -SP
- 09:45 Red Persistent Luminescence of Lu<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup>,Ca<sup>2+</sup> Prepared by Rapid Microwave Assisted Method** **N.P3.89**  
 Cássio Cardoso Santos Pedrosa<sup>1</sup>, José Miranda Carvalho<sup>1</sup>, Lucas Carvalho Veloso Rodrigues<sup>1</sup>, Jorma Hölsä<sup>2,1,3</sup>, Hermi Felinto Brito<sup>1</sup>; <sup>1</sup>Instituto de Química-Universidade de São Paulo, <sup>2</sup>University of Turku / Turun yliopisto, <sup>3</sup>Turku University Centre for Materials and Surfaces
- 09:45 Characterization of phosphors based on BaCaMgAlO<sub>17</sub> and BaSrMgAlO<sub>17</sub> doped with oxide europium** **N.P3.90**  
Helen Sant' Ana Ribeiro<sup>1</sup>, Juraci Aparecido Sampaio<sup>1</sup>; <sup>1</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro
- 09:45 Optical Characterization of P3OT Polymeric Films** **N.P3.91**  
Sankler Soares de Sá<sup>1</sup>, Eralci Moreira Therézio<sup>1</sup>, Alexandre Marletta<sup>2</sup>; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>Universidade Federal de Uberlândia
- 09:45 Emission properties Al<sup>3+</sup>-Er<sup>3+</sup> co-doped ZrO<sub>2</sub> powder: Effect of Al<sup>3+</sup> and Er<sup>3+</sup> concentration on structural and microstructural properties** **N.P3.92**  
José Luis Clabel<sup>1</sup>, Victor Anthony Garcia Rivera<sup>1</sup>, Máximo Siu Li<sup>1</sup>, Euclides Marega Junior<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP
- 09:45 Red Emitting Leucoemeraldine. One-pot synthesized simultaneous fluorescent and magnetic nanocomposite** **N.P3.93**  
Isaac Aarón Frías<sup>1</sup>, Celso Pinto de Melo<sup>1</sup>, César Augusto Souza de Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 09:45 Hyperspectral multifunctionality: NIR I-NIR II spectrally broad emission from a triple RE<sup>3+</sup>-doped NaGdF<sub>4</sub> nanoprobe for in vitro (980nm-VIS) imaging/thermal sensing** **N.P3.94**  
 Wagner Ferreira da Silva<sup>1</sup>, Antonio Benayas, Blanca del Rosal<sup>2</sup>, Francisco Sanz Rodriguez<sup>2</sup>, Fiorenzo Vetrone<sup>3</sup>; <sup>1</sup>Universidade Federal de Alagoas, <sup>2</sup>Universidad Autónoma de Madrid, <sup>3</sup>Institut National de la Recherche Scientifique
- 09:45 Energy transfer process matrix-ion in Yb<sup>3+</sup> doped tellurite glasses** **N.P3.95**  
 Ana Kely R Souza<sup>1</sup>, Ana Paula Langaro<sup>1</sup>, Junior Reis Silva<sup>1</sup>, Sandro Marcio Lima<sup>1</sup>, Luis Humberto da Cunha Andrade<sup>1</sup>, Fabio Alencar Santos<sup>2</sup>, Marcio da Silva Figueiredo<sup>2</sup>; <sup>1</sup>Universidade Estadual de Mato Grosso do Sul, <sup>2</sup>Fundação Universidade Federal da Grande Dourados
- 09:45 Synthesis, characterization and luminescent properties of new coordination compounds of rare earths and triazine ligand** **N.P3.96**  
Eclair Venturini Filho<sup>1</sup>, Rodolfo Goetze Fiorot<sup>1</sup>, Sandro José Greco<sup>1</sup>, Priscilla Paiva Luz<sup>1</sup>; <sup>1</sup>Universidade Federal do Espírito Santo





## Monday, September 28th

### Poster presentations

#### Session O.P1 (17:00 - 19:00)

- 17:00 Microfluidic electronic tongue to detect gliadin in foodstuff** **O.P1.1**  
Cristiane Margarete Daikuzono<sup>1</sup>, Flávio Makoto Shimizu<sup>1</sup>, Antonio Riul Jr.<sup>2</sup>, Alexandra Manzoli<sup>3</sup>, Maria Helena Piazzetta<sup>4</sup>, Angelo Luiz Gobbi<sup>4</sup>, Daniel Souza Corrêa<sup>3</sup>, Osvaldo Novais Oliveira Jr.<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos/Universidade de São Paulo, <sup>2</sup>Instituto de Física Gleb Wataghin, <sup>3</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>4</sup>Centro Nacional de Pesquisa em Energia e Materiais
- 17:00 Contact contribution to the space-charge limited current in thin P3HT films** **O.P1.2**  
Vilany Santana Pereira<sup>1</sup>, Julia Cabral Diniz Braz<sup>1</sup>, Miguel Carvalho Pachá<sup>1</sup>, Pedro Henrique Sbampato França Raro<sup>1</sup>, Stefan Blawid<sup>1</sup>; <sup>1</sup>Universidade de Brasília
- 17:00 Influence of polyaniline galvanostatic electrodeposition parameters on potentiometric and optical reflectance chemical sensors sensitivity** **O.P1.3**  
 Hugo José Dias Mello<sup>1</sup>, Marcelo Mulato<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Langmuir-Blodgett films of polyfluorene–thiophene copolymer and urease** **O.P1.4**  
Camila Gouveia Barbosa<sup>1</sup>, Luciano Caseli<sup>1</sup>, Laura Oliveira Péres<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Raman high-pressure studies of phase transition in dimethylammonium [(CH<sub>3</sub>)<sub>2</sub>NH<sub>2</sub>][Co(HCOO)<sub>3</sub>]** **O.P1.5**  
Nathalia Marinho Costa<sup>1</sup>, Katiane Pereira da Silva<sup>1</sup>, Miroslaw Maczka<sup>2</sup>, Jerzy Hanuza<sup>2</sup>, Waldeci Paraguassu<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Polish Academy of Sciences
- 17:00 Development of hybrid nanostructured platforms for chemical sensor applications** **O.P1.6**  
Rafaela Silveira Andre<sup>1,2</sup>, Adriana Pavinatto<sup>2</sup>, Luiza Amim Mercante<sup>2</sup>, Elaine Cristina Paris<sup>2</sup>, Luiz Henrique Capparelli Mattoso<sup>2</sup>, Daniel Souza Corrêa<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária
- 17:00 Morphological and photophysical studies of carbazole and PVK thin films: effects of the preparation technique.** **O.P1.7**  
Diéicon Sousa Cordeiro<sup>1</sup>, Tatiana Duque Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás
- 17:00 High Temperature Raman study of L-alanine, L-threonine and taurine crystals related to hydrogen bonding** **O.P1.8**  
andré luís de oliveira cavaignac<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Fabrication and characterization of finger sensors for Aspergillus Niger fungi colony grow detection** **O.P1.9**  
Emily Caroline Coelho dos Santos<sup>1</sup>, Dante Luis Chinaglia<sup>1</sup>, Danyellen Dheyniffer Monteiro Galindo<sup>1</sup>, Juliane Cristina Miranda<sup>1</sup>, Olivia Carr<sup>2</sup>, Josiani Cristina Stefanelo<sup>2</sup>, Washington da Silva Sousa<sup>2</sup>, Giovanni Gozzi<sup>1</sup>, Derlene Attili de Angelis<sup>3</sup>, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Rio Claro, <sup>2</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP, <sup>3</sup>Universidade Estadual de Campinas
- 17:00 Polyaniline (PAni) applied for aspergillus niger fungus d.c. sensor** **O.P1.10**  
Danyellen Dheyniffer Monteiro Galindo<sup>1</sup>, Dante Luis Chinaglia<sup>1</sup>, Emily Caroline Coelho dos Santos<sup>1</sup>, Juliane Cristina Miranda<sup>1</sup>, Olivia Carr<sup>2</sup>, Josiani Cristina Stefanelo<sup>3</sup>, Washington da Silva Sousa<sup>2</sup>, Giovanni Gozzi<sup>1</sup>, Derlene Attili de Angelis<sup>4</sup>, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Rio Claro, <sup>2</sup>Instituto de Física de São Carlos - USP, <sup>3</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP, <sup>4</sup>Universidade Estadual de Campinas
- 17:00 Interference Pattern Analysis For Thin Film Thickness Determination From Spectroscopic Ellipsometry (SE) Data** **O.P1.11**  
JOAQUIM BRASIL FILHO<sup>1</sup>, ÁNGEL ALBERTO HIDALGO<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP, <sup>2</sup>Universidade Federal do Piauí
- 17:00 Study of electrical conductivity in polythiophene derivatives thin films** **O.P1.12**  
Aislan Douglas Machado<sup>1</sup>, Maria Luisa Braunger<sup>1</sup>, Edilene Assunção da Silva<sup>1</sup>, Clarissa de Almeida Olivati<sup>1</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente
- 17:00 Immunosensor based on P53 antibody-polypyrrole applied for early diagnosis of cancer** **O.P1.13**  
Valquiria Da Cruz Rodrigues Barioto<sup>1</sup>, Juliana Coatrini Soares<sup>1</sup>, Andrey Coatrini Soares<sup>1</sup>, Nadja Karolina Leonel Wiziack<sup>2,3</sup>, Matias Eliseo Melendez<sup>3</sup>, Cristovam scapulatempo neto<sup>3</sup>, Fábio de Lima Leite<sup>2</sup>, André Lopes Carvalho<sup>3</sup>, Osvaldo Novais Oliveira Jr.<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Hospital de Câncer de Barretos

- 17:00 Development of Soluble Material with Application as Transparent Electrode and in Light-Emitting Composites for Light-Emitting Devices** **O.P1.14**  
Renan Colucci<sup>1</sup>, Fábio Simões de Vicente<sup>1</sup>, Dante Luis Chinaglia<sup>1</sup>, Giovanni Gozzi<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 Immunosensors based on natural polymers for early diagnosis of pancreatic cancer** **O.P1.15**  
Andrey Coatrini Soares<sup>1</sup>, Juliana Coatrini Soares<sup>1</sup>, Flávio Makoto Shimizu<sup>1</sup>, Matias Eliseo Melendez<sup>2</sup>, André Lopes Carvalho<sup>2</sup>, Osvaldo Novais Oliveira Jr<sup>1</sup>; <sup>1</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP, <sup>2</sup>Hospital de Câncer de Barretos
- 17:00 Optical and morphological characterization of galvanostatic electrodeposited polyaniline/polypyrrole thin films** **O.P1.16**  
Hugo José Dias Mello<sup>1</sup>, Marcelo Mulato<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Organic field-effect transistors based on P3HT/tips-pentacene composites** **O.P1.17**  
Maiza da Silva Ozório<sup>1</sup>, Gabriel Leonardo Nogueira<sup>1</sup>, Natália Virag Domenici<sup>1</sup>, Glenda Gonçalves Souza<sup>1</sup>, Rogério Miranda Morais<sup>1</sup>, Rafael Furlan de Oliveira<sup>2</sup>, Neri Alves<sup>1</sup>; <sup>1</sup>FCT - Faculdade de Ciências e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP, <sup>2</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP
- 17:00 Study of MIS devices based on Al<sub>2</sub>O<sub>3</sub> and P3HT towards to vertical field-effect transistor** **O.P1.18**  
Gabriel Leonardo Nogueira<sup>1</sup>, Maiza da Silva Ozório<sup>1</sup>, Natália Virag Domenici<sup>1</sup>, Marcelo Marques da Silva<sup>1</sup>, Neri Alves<sup>1</sup>; <sup>1</sup>FCT - Faculdade de Ciências e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP
- 17:00 Improving the performance of an OECT based on PEDOT:PSS via inkjet printing parameters** **O.P1.19**  
Aline Santos<sup>1</sup>, Rogério Miranda Morais<sup>2</sup>, Maykel Santos Klem<sup>2</sup>, Glenda Gonçalves Souza<sup>1</sup>, Neri Alves<sup>2</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente, <sup>2</sup>FCT - Faculdade de Ciências e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP
- 17:00 Controlling Degradation of MEH-PPV** **O.P1.20**  
RAWLINSON MEDEIROS IBIAPINA<sup>1</sup>, ÁNGEL ALBERTO HIDALGO, João Mariz Guimarães Neto, Maria Alexandra Sousa Rios, ADRIANO SANTANA SOARES; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão
- 17:00 Study of PEDOT:PSS printing on paper by inkjet printer** **O.P1.21**  
Rogério Miranda Morais<sup>1</sup>, Aline Santos, Maykel Santos Klem<sup>1</sup>, Glenda Gonçalves Souza<sup>2</sup>, Maiza da Silva Ozório<sup>1</sup>, Neri Alves<sup>1</sup>; <sup>1</sup>FCT - Faculdade de Ciências e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP, <sup>2</sup>FCT-UNESP Campus de Presidente Prudente
- 17:00 Charge transport in PEDOT: PSS/PVA Blends Modeled with Variable Range Hopping** **O.P1.22**  
Olivia Carr<sup>1</sup>, Giovanni Gozzi<sup>2</sup>, Osvaldo Novais Oliveira Jr<sup>3</sup>, Dante Luis Chinaglia<sup>2</sup>; <sup>1</sup>Escola de Engenharia de São Carlos, Departamento de Engenharia de Materiais, USP, <sup>2</sup>Universidade Estadual Paulista - Campus Rio Claro, <sup>3</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 Investigation of spectroscopic and luminescent properties of Cu(I)-Salicylidenes for organic electronic devices.** **O.P1.23**  
RODRIGO ARAUJO MENDES<sup>1</sup>, Anderson Martinez Santana<sup>1</sup>, José Carlos Germino<sup>2</sup>, Romildo Jerônimo Ramos<sup>1</sup>, Teresa Dib Zambon Atvars<sup>2</sup>, Laiara Bigato Furio<sup>1</sup>, Gabriel Luiz Cruz de Souza<sup>1</sup>, Cristina Aparecida Barboza<sup>2</sup>; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>Universidade Estadual de Campinas
- 17:00 Detection of the p53 Biomarker for Early Diagnosis of Cancer** **O.P1.24**  
Juliana Coatrini Soares<sup>1</sup>, Paulo Augusto Raymundo Pereira<sup>2</sup>, Andrey Coatrini Soares<sup>1</sup>, Valquiria Da Cruz Rodrigues Barioto<sup>1</sup>, Flávio Makoto Shimizu<sup>1</sup>, Nadja Karolina Leonel Wiziack<sup>3,4</sup>, Cristovam scapulatempo neto<sup>4</sup>, Matias Eliseo Melendez<sup>4</sup>, Fábio de Lima Leite<sup>3</sup>, André Lopes Carvalho<sup>4</sup>, Sergio Antonio Spinola Machado<sup>2</sup>, Osvaldo Novais Oliveira Jr<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP, <sup>2</sup>Instituto de Química de São Carlos - USP, <sup>3</sup>Universidade Federal de São Carlos - Campus Sorocaba, <sup>4</sup>Hospital de Câncer de Barretos
- 17:00 Fluorescent characterization of Poly (p-phenylene-vinylene) derivatives** **O.P1.25**  
Marco Túlio Marques Santana<sup>1</sup>, Tatiana Duque Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás
- 17:00 Spectroscopic Ellipsometry characterization of thin films of Titanium Nitride – TiN** **O.P1.26**  
HUNOS PAIXÃO MADUREIRA<sup>1</sup>, ÁNGEL ALBERTO HIDALGO<sup>1</sup>, Rômulo Ribeiro Magalhães de Sousa<sup>1</sup>, Clodomiro Alves Jr.; <sup>1</sup>Universidade Federal do Piauí



- 17:00 Planar Schottky diode for Aspergillus Niger fungi colony grow detection** **O.P1.27**  
Dante Luis Chinaglia<sup>1</sup>, Emily Caroline Coelho dos Santos<sup>1</sup>, Danyellen Dheyniffer Monteiro Galindo<sup>1</sup>, Juliane Cristina Miranda<sup>1</sup>, Olivia Carr<sup>2</sup>, Josiani Cristina Stefanelo<sup>3</sup>, Washington da Silva Sousa<sup>3</sup>, Giovanni Gozzi<sup>1</sup>, Derlene Attili de Angelis<sup>4</sup>, Roberto Mendonça Faria<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Rio Claro, <sup>2</sup>Universidade de São Paulo, São Carlos, <sup>3</sup>Instituto de Física de São Carlos - USP, <sup>4</sup>Universidade Estadual de Campinas, Centro Pluridisciplinar de Pesquisas Químicas, Biológicas e Agrícolas, Paulínia
- 17:00 Detection of phenolic compounds based on tyrosinase-gold nanorods electrochemical biosensor** **O.P1.28**  
Lais Ribovski<sup>1</sup>, Bruno Campos Janegitz<sup>2</sup>, Valéria Spolon Marangoni<sup>1</sup>, Fabrício A. dos Santos<sup>1</sup>, Valtencir Zucolotto<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Development of a mimetic platform for acetylcholinesterase via a simple modification of polyacrylamide: Amperometric detection of organophosphorus pesticides** **O.P1.29**  
 Livia Flório Sgobbi<sup>1</sup>, Bruno Vinícius Manzoli Rodrigues<sup>2,1</sup>, Cláudia do Amaral Razzino<sup>1</sup>, Sergio Antonio Spinola Machado<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP, <sup>2</sup>Universidade do Vale do Paraíba
- 17:00 Thermal analysis and structural of l-arginine salts** **O.P1.30**  
Adriano Bezerra Pereira<sup>1</sup>, Andreia Cardoso Pereira<sup>1</sup>, Paulo Roberto da Silva Ribeiro<sup>1</sup>, Adenilson Oliveira dos Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 PMMA/P3HT Nanofibers: Electrical and Optical characterization** **O.P1.31**  
Rafaela Sanfelice Sanfelice<sup>1</sup>, Luiza Amim Mercante<sup>1</sup>, Luiz Henrique Capparelli Mattoso<sup>1</sup>, Daniel Souza Corrêa<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 17:00 P3HT:PCBM based metal-insulator-semiconductor capacitors under visible light stimulation** **O.P1.32**  
Bruno Rostirolla<sup>1</sup>, David Martin Taylor<sup>1</sup>; <sup>1</sup>Bangor University
- 17:00 Optical and Electrical Characterization of thin films with Potential Applications in Organic Electronics** **O.P1.33**  
MARIA DE LOURDES FERREIRA MENESES DOS SANTOS<sup>1</sup>, ÁNGEL ALBERTO HIDALGO<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí
- 17:00 Peat as an alternative for the development of organic humidity and ammonia sensors** **O.P1.34**  
Rafael Souza da Costa<sup>1</sup>, Patrick Pascoal de Brito Silva, Raísa Fernanda Ribeiro de Vasconcelos, Artemis Marti Ceschin; <sup>1</sup>Universidade de Brasília
- 17:00 Development of a genosensor for sickle-cell disease diagnosis** **O.P1.35**  
Camila Barbosa Bramorski<sup>1</sup>, Lais Canniatti Brazaca<sup>1</sup>, Bruno Campos Janegitz<sup>2</sup>, Valtencir Zucolotto<sup>1</sup>; <sup>1</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Reactivity indexes and evaluation of dimeric structures of melanin by electronic structure calculations.** **O.P1.36**  
Augusto Batagin Neto<sup>1</sup>, Erika Soares Bronze-Uhle<sup>2</sup>, Carlos F. O. Graeff<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Itapeva, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Bauru
- 17:00 3D Printed Polymer Capacitors** **O.P1.37**  
Lucas Godinho Carreira<sup>1</sup>, Ricardo Cunha Michel<sup>1</sup>; <sup>1</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ, Rio de Janeiro- RJ/Brazil
- 17:00 Light sensors based on organic phototransistors with absorption-enhancing nanoparticles.** **O.P1.38**  
 Anders Runge Walther<sup>1</sup>, Jes Linnet<sup>1</sup>, Ole Albrektsen<sup>1</sup>, Luciana Tavares<sup>1</sup>, René Lynge Eriksen<sup>1</sup>, Per Baunegaard With Jensen<sup>1</sup>, Søren Hassing<sup>1</sup>, Arne Lützen<sup>2</sup>, Andreas Osadnik<sup>2</sup>, Zacarias Eduardo Fabrim<sup>1</sup>, Jakob Kjelstrup-Hansen<sup>1</sup>; <sup>1</sup>University of Southern Denmark / Syddansk Universitet, <sup>2</sup>Rheinische Friedrich Wilhelms Universität Bonn
- 17:00 Study of electrical and morphological properties of Field Effect Transistors assembled with polyaniline and carbon nanotubes composites.** **O.P1.39**  
Luiz Carlos Mariano<sup>1</sup>, VICTOR HUGO RODRIGUES DE SOUZA<sup>1</sup>, Fabio Santos Lisboa<sup>1</sup>, Edemir Luiz Kowalski<sup>1</sup>, Vitoldo Swinka Filho<sup>1</sup>, Marlus Koehler<sup>1</sup>, Aldo J.G. Zarbin<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session O.OR1 (09:45 - 10:45) - Room 02

- 09:45 Electrostatic design of organic semiconductors and interfaces** **O.OR1.1\***  
Egbert Zojer<sup>1</sup>, David A. Egger<sup>2,1</sup>, Veronika Obersteiner<sup>1</sup>, Gernot J. Kraberger<sup>1</sup>, Bernhard Kretz<sup>1</sup>, Andreas Jeindl<sup>1</sup>, Johannes Götzl<sup>1</sup>, Tarek Abu-Hussein<sup>3</sup>, Swen Schuster<sup>4</sup>, Andreas Terfort<sup>3</sup>, Michael Zharikov<sup>4</sup>; <sup>1</sup>Graz University of Technology, <sup>2</sup>Weizmann Institute of Science, <sup>3</sup>Johann Wolfgang Goethe Universität Frankfurt am Main, <sup>4</sup>Ruprecht Karls Universität Heidelberg
- 10:15 Correlation between morphological disorder and electronic structure of conjugated polymer films.** **O.OR1.2**  
Marília J. Caldas<sup>1</sup>, Rodrigo Ramos da Silva<sup>1</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo
- 10:30 Charge carrier mobility investigation in organic semiconductors submitted to ion bombardment by dual-beam microscopy** **O.OR1.3**  
Cristol de Paiva Gouvêa<sup>1</sup>, Harold Jose Camargo Avila<sup>2</sup>, Braulio Soares Archanjo<sup>1</sup>, Carlos Alberto Achete<sup>1</sup>, Marco Cremona<sup>2</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Pontificia Universidade Católica do Rio de Janeiro

#### Session O.OR2 (11:15 - 12:30) - Room 02

- 11:15 Microfluidic Routes to the Controlled Synthesis of Electronic Materials** **O.OR2.4\***  
John C de Mello<sup>1</sup>; <sup>1</sup>Imperial College London
- 11:45 Adiponectin Detection Using Nanostructured Biosensors: An Important Platform for the Predictive Diagnosis of Diabetes Mellitus Type 2** **O.OR2.5**  
Lais Canniatti Brazaca<sup>1</sup>, Bruno Campos Janegitz<sup>2</sup>, Juliana Cancino Bernardi<sup>1</sup>, Valtencir Zucolotto<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade Federal de Santa Catarina
- 12:00 Stimuli-responsive Materials and Biomimetic Microfluidics** **O.OR2.6**  
Dermot Diamond<sup>1</sup>, Larisa Elena Florea<sup>1</sup>, wayne Francis<sup>1</sup>, Alexandru Tudor<sup>1</sup>, Aishling Dunne<sup>1</sup>; <sup>1</sup>Dublin City University
- 12:15 Charge-transfer optical absorption mechanism of DNA:Ag-nanocluster complex** **O.OR2.7**  
Simone Silva Alexandre<sup>1</sup>, Raphael Longuinhas, Hélio Chacham, Aline Duarte Lúcio; <sup>1</sup>Universidade Federal de Minas Gerais

#### Session O.OR3 (14:00 - 15:15) - Room 02

- 14:00 Dynamics of energy level alignment at ITO/organic interfaces studied by CELIV** **O.OR3.8\***  
 Douglas José Coutinho<sup>1</sup>, Gregorio Couto Faria<sup>1</sup>, Roberto Mendonça Faria<sup>1</sup>, Heinz von Seggern<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos/Universidade de São Paulo, <sup>2</sup>Technische Universität Darmstadt
- 14:30 Characterization of Optical Properties of Thin Films of Polyaniline (PAni) by Spectroscopic Ellipsometry (SE)** **O.OR3.9**  
JOAQUIM BRASIL FILHO<sup>1</sup>, ÁNGEL ALBERTO HIDALGO<sup>2</sup>; <sup>1</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP, <sup>2</sup>Universidade Federal do Piauí
- 14:45 Influence of intramolecular spin-orbit coupling on organic magnetoresistance effect** **O.OR3.10**  
Rafael dos Santos Carvalho<sup>1</sup>, Harold Camargo Ávila<sup>1</sup>, Tiago Becerra Paolini<sup>2</sup>, Deyse Gomes da Costa<sup>3</sup>, Rodrigo B Capaz<sup>4</sup>, Hermi Felinto Brito<sup>5</sup>, Marco Cremona<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro, <sup>2</sup>Instituto de Química - USP - SP, <sup>3</sup>Fundação Universidade Federal de Viçosa, <sup>4</sup>Universidade Federal do Rio de Janeiro, <sup>5</sup>Instituto de Química-Universidade de São Paulo
- 15:00 Thin Films of reduced Graphene Oxide used as Conducting Electrodes for Organic Electronics Applications** **O.OR3.11**  
Alessandro Henrique de Lima<sup>1</sup>, Indhira Oliveira Maciel<sup>1</sup>, Benjamin Fragneaud<sup>1</sup>, Cristiano Legnani<sup>1</sup>, Welber Gianini Quirino<sup>1</sup>; <sup>1</sup>Universidade Federal de Juiz de Fora

## Poster presentations

### Session O.P2 (17:00 - 19:00)

- 17:00 Rapid prototyping and traditional manufacturing techniques for the fabrication of autonomous sensor systems** O.P2.40  
Eoghan McNamara<sup>1</sup>, Margaret McCaul<sup>1</sup>, Dermot Diamond<sup>1</sup>; <sup>1</sup>Dublin City University
- 17:00 Preparation of poly (2-hydroxyethyl methacrylate) modified electrode** O.P2.41  
Maria Cecilia Oliveira<sup>1</sup>, Maria Elena Leyva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Synthesis and Application of a Donor-Acceptor Copolymer Containing Selenium in PLEDs** O.P2.42  
Cynthia Sayuri Tamura<sup>1</sup>, Cassiana Batista da Rocha<sup>1</sup>, Washington S. Sousa<sup>2</sup>, Roberto Mendonça Faria<sup>2</sup>, Paula C. Rodrigues<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná, <sup>2</sup>Instituto de Física de São Carlos/USP
- 17:00 Critical exponent of the electrical conductivity in P3HT:PCBM blend near the percolation threshold** O.P2.43  
Haroldo Naoyuki Nagashima<sup>1</sup>, Lilian Soares Cardoso<sup>2</sup>, Roberto Mendonça Faria<sup>3</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP, <sup>2</sup>Instituto de Física de São Carlos - USP, <sup>3</sup>Instituto de Física de São Carlos/USP
- 17:00 Low cost spinner using fans for assembly of polymeric thin films used in P-OLED devices** O.P2.44  
Emerson Roberto Santos<sup>1</sup>, Christine Miwa Takahashi<sup>2</sup>, Satoru Yoshida<sup>1</sup>, Daniel José da Silva<sup>1</sup>, Herick Garcia Takimoto<sup>1</sup>, Elvo Calixto Burini Junior<sup>3</sup>, Roberto Koji Onmori<sup>1</sup>, Wang Shu Hui<sup>1</sup>; <sup>1</sup>Escola Politécnica de Universidade de São Paulo, <sup>2</sup>Faculdade de Tecnologia de São Paulo, <sup>3</sup>Instituto de Energia e Ambiente da USP
- 17:00 Symmetry break in poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylene-vinylene] amorphous film.** O.P2.45  
Silésia de Fátima Curcino da Silva<sup>1</sup>, Alexandre Marletta<sup>1</sup>, Mauricio Foschini<sup>1</sup>, Raigna Augusta da Silva Zadra Armond<sup>1</sup>, José Roberto Tozoni<sup>1</sup>, Osvaldo Novais Oliveira Jr<sup>2</sup>; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 A novel method to select the sensing units for e-tongues and e-noses** O.P2.46  
José Alberto Giacometti<sup>1</sup>, Alberny Alves Ferreira<sup>2</sup>, Flávio Makoto Shimizu<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Universidade Estadual de Mato Grosso do Sul
- 17:00 Morphological and photoluminescence study of P3HT:PTCDA with different mass ratio for application in organic solar cells** O.P2.47  
 Gustavo Henrique Wegher<sup>1</sup>, Emilson Ribeiro Viana Junior<sup>1</sup>, Paula C. Rodrigues<sup>1</sup>, Poliana Macedo dos Santos<sup>1</sup>, Bruno Ribeiro Borges<sup>1</sup>, Jeferson Ferreira de Deus<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Exciton-polaron quenching in organic thin-film transistors studied by fluorescence lifetime imaging microscopy.** O.P2.48  
Per Baunegaard With Jensen<sup>1</sup>, Jakob Kjelstrup-Hansen<sup>1</sup>, Till Leissner<sup>1</sup>, Jonathan R. Brewer<sup>1</sup>, Arne Lützen<sup>2</sup>, Andreas Osadnik<sup>2</sup>; <sup>1</sup>University of Southern Denmark / Syddansk Universitet, <sup>2</sup>Rheinische Friedrich Wilhelms Universität Bonn
- 17:00 Structural, morphological characterization and optoelectronic properties of layer-by-layer films based on water soluble phthalocyanines and carbon nanotubes** O.P2.49  
Jaqueline Soares<sup>1</sup>, Jeilce Maria Abreu dos Santos<sup>1</sup>, Sergio Fernando Curcio<sup>1</sup>, Elisângela Silva Pinto<sup>2</sup>, Bruna Postacchini<sup>1</sup>, Thiago Cazati<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais
- 17:00 Theoretical Study of the Space-Charge Limited Effective Mobility in a Bi-layer Device** O.P2.50  
Deize Corradi Grodniski<sup>1</sup>, Marlus Koehler<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná
- 17:00 Fabrication and characterization of CuPc molecular junctions: investigation of the contact configuration** O.P2.51  
Leandro Mercês<sup>1,2</sup>, Carlos Cesar Bof Bufon<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia, <sup>2</sup>Instituto de Física Gleb Wataghin
- 17:00 Optoelectronic properties of layer-by-layer films based on water-soluble chlorophyll derivative for photovoltaic applications** O.P2.52  
Thiago Cazati<sup>1</sup>, Nathália Akemi Yoshioka<sup>1</sup>, Bruna Postacchini<sup>1</sup>, MARTA ELISA ROSSO DOTTO<sup>2</sup>, MARCO Cremona<sup>3</sup>, Rogerio Valaski<sup>4</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal de Santa Catarina, <sup>3</sup>Pontificia Universidade Católica do Rio, <sup>4</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 17:00 Influence of temperature on emission-absorption properties of polyfluorene elastomers blend** O.P2.53  
 Giovana Artuzo Parolin<sup>1</sup>, Roselena Faez<sup>2</sup>, Laura Oliveira Péres<sup>3</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Universidade Federal de São Carlos - Campus Araras, <sup>3</sup>Universidade Federal de São Carlos

- 17:00 Efficient Solution-Processed Phosphorescent Organic Light-Emitting Diodes** **O.P2.54**  
Alessandra Pereira<sup>1</sup>, Rogerio Valaski<sup>1</sup>, Marco Cremona<sup>2</sup>, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 17:00 Semitransparent aluminum oxide thin films prepared by anodization technique** **O.P2.55**  
Natália Virag Domenici<sup>1</sup>, Marcelo Marques da Silva<sup>1</sup>, Glenda Gonçalves Souza<sup>1</sup>, Gabriel Leonardo Nogueira<sup>1</sup>, Maiza da Silva Ozório<sup>1</sup>, José Alberto Giacometti<sup>2</sup>, Neri Alves<sup>1</sup>; <sup>1</sup>FCT - Faculdade de Ciências e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP, <sup>2</sup>Instituto de Física de São Carlos - USP
- 17:00 Production of modified conjugated polymers, in solution, by photoprocessing** **O.P2.56**  
Newton Martins Barbosa Neto<sup>1</sup>, Marcia Dutra Ramos Silva<sup>2</sup>, Renato Neiva Sampaio<sup>3</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Universidade Federal de Uberlândia, <sup>3</sup>University of North Carolina Chapel Hill
- 17:00 Theoretical fittings and electrical characterizations of spin-coating and Langmuir-Schaefer films of polyalkylthiophene** **O.P2.57**  
Lucas Vinicius de Lima Citolino<sup>1</sup>, Vinicius Jessé Rodrigues de Oliveira<sup>1</sup>, Maria Luisa Braunger<sup>1</sup>, Clarissa de Almeida Olivati<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente
- 17:00 3-D printing of microfluidic platforms using biocompatible photo-polymerized electroactive polymers** **O.P2.58**  
 Thalita Antoniassi Canassa<sup>1</sup>, Arnaldo José Macari<sup>1</sup>, Lucas Fugikawa Santos<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista
- 17:00 Synthesis and evaluation of a PVDF-PT3MA-Zn<sub>2</sub>SiO<sub>4</sub>:Mn hybrid polymeric composite for optical device applications** **O.P2.59**  
Rossano Lang<sup>1</sup>, Alex Linardi Gomes<sup>2</sup>, Elaine Armelin<sup>3</sup>, João Sinézio de Carvalho Campos<sup>2</sup>, Carlos Alemán<sup>3</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Universitat Politècnica de Catalunya
- 17:00 Investigation of C form stearic acid crystal structure at high temperature** **O.P2.60**  
Manasses Trindade Freitas<sup>1</sup>, Francisco Ferreira de Sousa<sup>2</sup>, Waldeci Paraguassu<sup>1</sup>, Paulo Trindade Araújo<sup>3</sup>, Newton Martins Barbosa Neto<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Universidade Federal do Sul e Sudeste do Pará, <sup>3</sup>University of Alabama
- 17:00 Understanding light emission and reflection in spherical submicron mirrors arrays by confocal microscopy** **O.P2.61**  
Edna Regina Spada<sup>1</sup>, Gustavo Targino Valente<sup>1</sup>, Marcelo de Assunção Pereira-da-Silva<sup>1</sup>, Maria Luisa Sartorelli<sup>2</sup>, Roberto Mendonça Faria<sup>3</sup>, Francisco Eduardo Gontijo Guimarães<sup>4</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Universidade Federal de Santa Catarina, <sup>3</sup>Instituto de Física de São Carlos/USP, <sup>4</sup>Instituto de Física de São Carlos - USP
- 17:00 Effect of the environment of the thermal annealing on the electrical properties of transparent metal-oxide thin-film transistors** **O.P2.62**  
Tiago Carneiro Gomes<sup>1</sup>, Lucas Fugikawa Santos<sup>2</sup>, Neri Alves<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista
- 17:00 Electrical characterization of copper phthalocyanine-based water-gated transistors** **O.P2.63**  
Rafael Furlan de Oliveira<sup>1</sup>, Carlos Cesar Bof Bufon<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia
- 17:00 Hydrothermal Growth of ZnO Nanostructures on PVA** **O.P2.64**  
Eduardo F. Barbosa<sup>1</sup>, Jaqueline Alves Coelho<sup>1</sup>, João B. Floriano<sup>1</sup>, Paula C. Rodrigues<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Investigating commercially available MOSFETs to be used in separative extended gate field-effect transistor (bio) sensors** **O.P2.65**  
 Nirton C. S. Vieira<sup>1</sup>, Idelma A. A. Terra<sup>1</sup>, Juliana F. dos Santos, Valtencir Zucolotto; <sup>1</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Capacitance measurements at each adsorbed monolayer in LbL films** **O.P2.66**  
Rafael Cintra Hensel Ferreira<sup>1</sup>, Kevin Liu Rodrigues<sup>1</sup>, Vitor Toshiyuki Abrão Oiko<sup>1</sup>, Antonio Riul Jr.<sup>1</sup>, Varlei Rodrigues<sup>1</sup>; <sup>1</sup>Instituto de Física Gleb Wataghin
- 17:00 Influence the solution process to prepare thin film transistors based on transparent conductive oxide.** **O.P2.67**  
Cleber Alexandre Amorim<sup>1</sup>, Dante Luis Chinaglia<sup>1</sup>, Giovani Gozzi<sup>1</sup>, Lucas Fugikawa Santos<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Rio Claro, <sup>2</sup>Universidade Estadual Paulista
- 17:00 Bilayer Organic Solar Cell with self-assembled thin films based on Nickel Tetrasulfonated Phthalocyanines** **O.P2.68**  
Thiago Cazati<sup>1</sup>, Tomás Nogueira Ribeiro<sup>1</sup>, Sergio Fernando Curcio<sup>1</sup>, Bruna Postacchini<sup>1</sup>, Marcos Vinicius Costa e Silva<sup>2</sup>, MARCO Cremona<sup>2</sup>, Rogerio Valaski<sup>3</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Pontifícia Universidade Católica do Rio, <sup>3</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia

- 17:00 Large scale fabrication of all-integrated electrolyte-gated graphene field-effect transistors** **O.P2.69**  
Nirton C. S. Vieira<sup>1,2</sup>, Jérôme Borme<sup>2</sup>, George M. Junior<sup>3</sup>, Fátima Cerqueira<sup>3</sup>, Paulo P. Freitas<sup>2</sup>, Valtencir Zucolotto<sup>1</sup>, Nuno Peres<sup>3</sup>, Pedro Alpuim<sup>3,2</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>International Iberian Nanotechnology Laboratory, <sup>3</sup>Universidade do Minho
- 17:00 Synthesis and characterization of new photoisomerizable liquid crystals with non-conventional shape** **O.P2.70**  
Thamires Santos Moreira<sup>1</sup>, Welisson Pontes Silva<sup>1</sup>, Rodrigo Cristiano<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Study of electrochromic properties of polythiophenes containing alkyl and alkoxy substituents** **O.P2.71**  
Luiza De Lazari Ferreira<sup>1</sup>, Marcos Roberto de Abreu Alves<sup>2</sup>, Hállen Daniel Rezende Calado<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Universidade Federal de Itajubá

## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session O.OR4 (09:45 - 10:45) - Room 02

- 09:45 Developing Porphyrin-based Electroactive Nanomaterials for Energy Applications** **O.OR4.12\***  
David L Officer<sup>1</sup>; <sup>1</sup>University of Wollongong
- 10:15 Understanding the External Quantum Efficiency of Organic Homo-Tandem Solar Cells Utilizing a 3-Terminal Device Architecture** **O.OR4.13**  
Daniel Bahro<sup>1</sup>, Manuel Koppitz<sup>1</sup>, Adrian Mertens<sup>1</sup>, Konstantin Glaser<sup>1</sup>, Jan Mescher<sup>1</sup>, Alexander Colsmann<sup>1</sup>; <sup>1</sup>Karlsruhe Institute of Technology
- 10:30 PolyPCBM: Polyfullerenes for organic photovoltaic cells** **O.OR4.14**  
Roger C. Hiorns, Hasina H. Ramanitra, Hugo Santos Silva, Simon Dowland, Graham Morse, Didier Bégué, Heiko Peisert, Thomas Chassé, Jean-Luc Gardette, Sandrine Thérias, Agnès Rivaton, Christine Dagon-Lartigau

#### Session O.OR5 (11:15 - 12:30) - Room 02

- 11:15 Towards 100% efficient OLEDs using thermally activated delayed fluorescence.** **O.OR5.15\***  
Andrew Paul Monkman
- 11:45 Excited state properties of meso-tetrakis (4-sulfonatophenyl) porphyrin (TPPS4) J aggregate** **O.OR5.16**  
Newton Martins Barbosa Neto<sup>1</sup>, Gustavo Gimenez Parra<sup>2</sup>, Daniel Souza Corrêa<sup>3</sup>, Leonardo De Boni<sup>4</sup>, Cleber R. Mendonça<sup>4</sup>, Sergio C Zilio<sup>4</sup>, Iouri Borissevitch<sup>2</sup>, Pablo José Gonçalves<sup>5</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto-USP, <sup>3</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>4</sup>Instituto de Física de São Carlos - USP, <sup>5</sup>Universidade Federal de Goiás
- 12:00 Efficient Exciton Diffusion and Resonance-Energy Transfer in Multi-Layered Organic Epitaxial Nanofibers** **O.OR5.17**  
Luciana Tavares<sup>1</sup>, Michele Cadelano<sup>2</sup>, Francesco Quochi<sup>2</sup>, Clemens Simbrunner<sup>3</sup>, Günther Schwabegger<sup>4</sup>, Michele Saba<sup>2</sup>, Andrea Mura<sup>2</sup>, Giovanni Bongiovanni<sup>2</sup>, Demétrio Antônio da Silva Filho<sup>5</sup>, Wiliam Ferreira da Cunha<sup>5</sup>, Horst-Günter Rubahn<sup>1</sup>, Jakob Kjelstrup-Hansen<sup>1</sup>; <sup>1</sup>University of Southern Denmark / Syddansk Universitet, <sup>2</sup>Università degli Studi di Cagliari, <sup>3</sup>Universität Bremen, <sup>4</sup>Johannes Kepler University Linz, <sup>5</sup>Universidade de Brasília
- 12:15 Förster Resonant Energy Transfer (FRET) in PVK:[Zn(II) Coordination Compounds] Polymeric Composites: Tuning Electroluminescence Properties** **O.OR5.18**  
José Carlos Germino<sup>1</sup>, Raquel Aparecida Domingues<sup>2</sup>, Fernando Junior Quites<sup>3</sup>, Jilian Nei de Freitas<sup>4</sup>, Teresa Dib Zambon Atvars<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal de São Paulo, <sup>3</sup>Universidade Federal de Mato Grosso, <sup>4</sup>Centro de Tecnologia da Informação Renato Archer

#### Session O.OR6 (14:00 - 15:15) - Room 02

- 14:00 Supramolecular Chemistry for Interface Functionalisation : From Surface-templated Assembly of Molecular Frameworks to Epitaxially-grown Designer Solids** **O.OR6.19\***  
Christof Woell<sup>1</sup>; <sup>1</sup>Karlsruhe Institute of Technology
- 14:30 Charge transport mechanisms across ultra-thin molecular heterojunctions** **O.OR6.20**  
Carlos Cesar Bof Bufon<sup>1</sup>, Davi Henrique Starnini de Camargo<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia
- 14:45 Solution Processed Field-Effect Transistors based on Ultrathin Layers** **O.OR6.21**  
Wojciech Pisula<sup>1</sup>, Mengmeng Li<sup>1</sup>, Suhao Wang<sup>1</sup>, Klaus Müllen<sup>1</sup>; <sup>1</sup>Max Planck Institute for Polymer Research
- 15:00 Multi-Responsive Poly(Ionic Liquid) Hydrogels** **O.OR6.22**  
Alexandru Tudor<sup>1</sup>, Larisa Elena Florea<sup>1</sup>, Joseph Hennessy<sup>1</sup>, Fernando Benito-Lopez<sup>2</sup>, Dermot Diamond<sup>1</sup>; <sup>1</sup>Dublin City University, <sup>2</sup>University of the Basque Country UPV/EHU

## Poster presentations

### Session O.P3 (17:00 - 19:00)

- 17:00 Determination of protease activity using a potentiometric biosensor based on conducting polymers** **O.P3.72**  
Juliana F. dos Santos<sup>1</sup>, Idelma A. A. Terra<sup>2</sup>, Edson Giuliani Ramos Fernandes<sup>2,3</sup>, Francisco Eduardo Gontijo Guimarães<sup>2</sup>, Nirton C. S. Vieira<sup>2</sup>; <sup>1</sup>Escola de Engenharia de São Carlos, Departamento de Engenharia de Materiais, USP, <sup>2</sup>Instituto de Física de São Carlos (IFSC), <sup>3</sup>Universidade Federal de São Paulo - Instituto de Ciência e Tecnologia
- 17:00 Different interactions between substrate surfaces and conjugate polymers probed by single molecule spectroscopy** **O.P3.73**  
Leandro Augusto Zago<sup>1</sup>, Francisco Eduardo Gontijo Guimarães<sup>1</sup>, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Instituto de Física de São Carlos/USP
- 17:00 Molecular packing and photophysical processes in self-assembled photosensitizer films** **O.P3.74**  
Gustavo Targino Valente<sup>1</sup>, Marciana Pierina Uliana<sup>1</sup>, Kleber Thiago de Oliveira<sup>2</sup>, Francisco Eduardo Gontijo Guimarães<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Impedance spectroscopy analysis of mis capacitor based on P3HT/tips-pentacene composites** **O.P3.75**  
 Maíza da Silva Ozório<sup>1</sup>, Gabriel Leonardo Nogueira<sup>1</sup>, Tiago Carneiro Gomes<sup>1</sup>, Neri Alves<sup>1</sup>; <sup>1</sup>FCT - Faculdade de Ciência e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP
- 17:00 Using an e-tongue based on impedance spectroscopy to detect E. Coli** **O.P3.76**  
Flávio Makoto Shimizu<sup>1,2</sup>, Stanley Endrigo Bilatto Rodrigues<sup>3,1</sup>, Daniel Souza Corrêa<sup>1</sup>, Odilio B. G. Assis<sup>1</sup>, Luiz Henrique Capparelli Mattoso<sup>1</sup>, Osvaldo Novais Oliveira Jr<sup>2</sup>; <sup>1</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>2</sup>Instituto de Física de São Carlos/USP, <sup>3</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Al<sub>2</sub>O<sub>3</sub> anodic thin films for application in organic electronics** **O.P3.77**  
Marcelo Marques da Silva<sup>1</sup>, Natália Virag Domenici<sup>1</sup>, Tiago Carneiro Gomes<sup>1</sup>, Gabriel Leonardo Nogueira<sup>1</sup>, José Alberto Giacometti<sup>2</sup>, Neri Alves<sup>1</sup>; <sup>1</sup>FCT - Faculdade de Ciências e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP, <sup>2</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Nanoporous polyaniline thin films** **O.P3.78**  
Adriana Madalena de Araújo Faria<sup>1</sup>, Elisângela Silva Pinto<sup>2</sup>, Gislayne Elisana Gonçalves<sup>2</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais
- 17:00 Novel pH-colorimetric indicator sensor based on responsive chitosan-anthocyanin-glycerin for determination of meat freshness** **O.P3.79**  
ANDERSON SANTOS PASCHOA<sup>1</sup>, Marcella Rocha Franco<sup>1</sup>, Giovana Ribeiro Ferreira<sup>2</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal dos Vales do Jequitinhonha E Mucuri
- 17:00 Evaluation of p53 biosensor for use in early non-invasive detection of cancer** **O.P3.80**  
Nadja Karolina Leonel Wiziack<sup>1,2,3</sup>, Cristovam scapulatempo neto<sup>3</sup>, Matias Eliseo Melendez<sup>3</sup>, Jadis Junior De Santis<sup>3</sup>, Andrey Coatrini Soares<sup>4</sup>, Juliana Coatrini Soares<sup>5</sup>, Daniel Souza Corrêa<sup>6</sup>, Luiz Henrique Capparelli Mattoso<sup>6</sup>, André Lopes Carvalho<sup>3</sup>, Osvaldo Novais Oliveira Jr<sup>5</sup>, Fabio de Lima Leite<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos/Universidade de São Paulo, <sup>2</sup>Universidade Federal de São Carlos - Campus Sorocaba, <sup>3</sup>Hospital de Câncer de Barretos, <sup>4</sup>Instituto de Física de São Carlos (IFSC), <sup>5</sup>Instituto de Física de São Carlos - USP, <sup>6</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 17:00 Effect of plasticizer on photodegradation of PVC:DINCH:MEH-PPV blends: application of 3D dosimetry** **O.P3.81**  
Ariane Maria Arlindo de Souza<sup>1</sup>, Giovana Ribeiro Ferreira<sup>2</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal dos Vales do Jequitinhonha E Mucuri
- 17:00 Study of emission characteristics and photophysics of donors (PFN-DOF and PFO) in blends with P3HT for white emission** **O.P3.82**  
Wesley Renzi<sup>1</sup>, Neusmar Junior Artico Cordeiro<sup>1</sup>, Aline Renata Novais Rodrigues<sup>1</sup>, Edson Laureto<sup>1</sup>, Ivan Dias<sup>1</sup>, José Leonil Duarte<sup>1</sup>; <sup>1</sup>Universidade Estadual de Londrina
- 17:00 Characterization of chitosan/gelatin membranes containing silver nanoparticles for possible use in tissue regeneration.** **O.P3.83**  
 Lorena Oliveira de Sousa<sup>1</sup>, Osvaldo Novais Oliveira Jr<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP
- 17:00 Optical and electrical characterization of ultrathin films of MEH-PPV: potential material for radiation sensors.** **O.P3.84**  
Alana Fernandes Golin<sup>1</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto

- 17:00 New multilayered radiochromic/photoluminescent organic DY220:MEH-PPV dosimeter for monitoring food irradiation process** **O.P3.85**  
Franceline Aparecida Lopes<sup>1</sup>, Marcella Rocha Franco<sup>1</sup>, Giovana Ribeiro Ferreira<sup>2</sup>, Thiago Schimitberger<sup>3</sup>, Luiz Oliveira de Faria<sup>3,4</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal dos Vales do Jequitinhonha E Mucuri, <sup>3</sup>Universidade Federal de Minas Gerais, <sup>4</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Electrical characterization of a PBDTT-FTTE:PC<sub>71</sub>BM-based organic solar cell** **O.P3.86**  
Francineide Lopes de Araújo<sup>1</sup>, Douglas José Coutinho<sup>1</sup>, Roberto Mendonça Faria<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos/USP
- 17:00 Preparation of polymer-modified electrodes based on the electropolymerization of aniline and blue aniline** **O.P3.87**  
Luisa Boutin<sup>1</sup>, Maria Elena Leyva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Silica photonic crystals prepared by the roll-to-roll technique** **O.P3.88**  
Giovana Américo Rosso<sup>1</sup>, Catherine Ryan<sup>2</sup>, Leonardo Dias Cagnani<sup>1</sup>, Sona Kovacova<sup>3</sup>, Maria Bardosova<sup>2</sup>, Roberto Mendonça Faria<sup>4</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Tyndall Institute, <sup>3</sup>Slovak University of Technology, <sup>4</sup>Instituto de Física de São Carlos/USP
- 17:00 Solvent varying effects on active layer of slot-die coated blue Light Emitting Electrochemical Cells (LEC)** **O.P3.89**  
Leonardo Dias Cagnani<sup>1</sup>, Giovana Américo Rosso<sup>1</sup>, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Instituto de Física de São Carlos/USP
- 17:00 Modeling Transient Drain Current Response in Biofunctionalized Organic Electrochemical Transistors** **O.P3.90**  
Gregorio Couto Faria<sup>1,2</sup>, Duc Trong Duong<sup>1</sup>, Christina Dahlstrom<sup>3</sup>, Jonathan Rivnay<sup>4</sup>, George Malliaras<sup>4</sup>, Roisin Owens<sup>4</sup>, Alberto Salleo<sup>1</sup>; <sup>1</sup>Stanford University, <sup>2</sup>Instituto de Física de São Carlos (IFSC), <sup>3</sup>Mid Sweden University, <sup>4</sup>École Nationale Supérieure des Mines de Saint Étienne
- 17:00 Polymer multilayer paper-based device for colorimetric indicator of UV radiation** **O.P3.91**  
Kennedy Carlos Silva Corrêa<sup>1</sup>, Giovana Ribeiro Ferreira<sup>2</sup>, Mariana de Melo Silva<sup>1</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal dos Vales do Jequitinhonha E Mucuri
- 17:00 Interface effect on electronic transitions of PFeBT** **O.P3.92**  
Alisson de Jesus Santana<sup>1</sup>, ÁNGEL ALBERTO HIDALGO<sup>2</sup>, PAULA CRISTINA RODRIGUES<sup>3</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Federal do Piauí, <sup>3</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Study of charge transport monolayer devices of Poly (3-hexylthiophene)** **O.P3.93**  
Mariana Richelle Pereira da Cunha<sup>1</sup>, Alexandre de Castro Maciel<sup>1</sup>, HELDER NUNES DA CUNHA<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí
- 17:00 Intelligent pH-colorimetric organic thin film for determination of chicken freshness** **O.P3.94**  
Marcella Rocha Franco<sup>1</sup>, Rodrigo Fernando Bianchi<sup>1</sup>, Luciana Rodrigues da Cunha<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Development of a microfluidic paper-based analytical devices (µPADs) for determination of xanthurenic acid** **O.P3.95**  
Cristian Bernado da Silva<sup>1</sup>, WALKER DE LIMA CORDEIRO<sup>1</sup>, JAILSON DOS SANTOS SILVA<sup>1</sup>, José Anderson Farias da Silva Bomfim<sup>1</sup>, Sarah Kelly Melo Cavalcante<sup>1</sup>, Mayrane Carla Nascimento<sup>1</sup>, Joab Serra Rodrigues da Silva<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, Johnatan Duarte de Freitas<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, Wilney de Jesus Rodrigues Santos<sup>1</sup>, Phabyanno Rodrigues Lima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 17:00 Optical activity raman study applied to biological systems** **O.P3.96**  
Marcella Cogo Muniz<sup>1</sup>, Gustavo Gonçalves Dalkiranis<sup>1</sup>, Diego Mendes dos Santos<sup>1</sup>, Alexandre Marletta<sup>1</sup>, Raigna Augusta da Silva Zadra Armond<sup>1</sup>, Sydney Magno da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia
- 17:00 The correlation between the electronic structure and optical properties of quinoline derivatives** **O.P3.97**  
 Samuel de Faria Vieira<sup>1</sup>, Giovanni Carvalho dos Santos<sup>2</sup>, Luiz Carlos Da Silva Filho<sup>3</sup>, Augusto Batagin Neto<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Itapeva, <sup>2</sup>UNESP - Univ Estadual Paulista, POSMAT - Programa de Pós-Graduação em Ciência e Tecnologia de Materiais, Bauru, SP, Brazil, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Bauru
- 17:00 Photo-stability studies in Fluorene-Based Oligomers and polymers: oxidized products and kinetics parameters determination** **O.P3.98**  
Giovana Ribeiro Ferreira<sup>1</sup>, Eduardo Ribeiro de Azevedo<sup>2</sup>, Rodrigo Fernando Bianchi<sup>3</sup>; <sup>1</sup>Universidade Federal dos Vales do Jequitinhonha E Mucuri, <sup>2</sup>Instituto de Física de São Carlos (IFSC), <sup>3</sup>Universidade Federal de Ouro Preto



- 17:00 Investigation of the mobility of new thiophene and selenophene co-polymers used in organic field effect transistors** **O.P3.99**  
Harold Jose Camargo Avila<sup>1</sup>, Mariana Silva Recco<sup>2</sup>, Fernando Henrique Cristovan<sup>2</sup>, Marco Cremona<sup>3</sup>; <sup>1</sup>Departamento de Física (PUC-Rio), <sup>2</sup>Institute of Science and Technology, <sup>3</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 17:00 Synthesis, Characterization and OLED Applications of Ruthenium Complexes** **O.P3.100**  
Cristian Momoli Salla<sup>1</sup>, Hugo C. Braga<sup>1</sup>, Hugo Gallardo<sup>1</sup>, Bernardo de Souza<sup>1</sup>, Ivan H. Bechtold<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Investigation on Xanthene Derivatives as Hole-transporting Material and Blue Emitter for organic light-emitting devices** **O.P3.101**  
Jefferson da Silva Martins<sup>1</sup>, Aluisio de Andrade Bartolomeu<sup>2</sup>, Cristiano Legnani<sup>1</sup>, Luiz Carlos Da Silva Filho<sup>2</sup>, Welber Gianini Quirino<sup>1</sup>; <sup>1</sup>NANO - Grupo de Nanociências e Nanotecnologia, Departamento de Física, Universidade Federal de Juiz de Fora, <sup>2</sup>LaOSP - Laboratório de Síntese Orgânica e Processos, Departamento de Química, Universidade Estadual Paulista - UNESP
- 17:00 Study of dielectric layers for the development of Organic Field Effect Transistors based on new conjugated polymers** **O.P3.102**  
Pablo Cesar Serrano Arambulo<sup>1</sup>, Harold Jose Camargo Avila<sup>1</sup>, Mariana Silva Recco<sup>2</sup>, Fernando Henrique Cristovan<sup>2</sup>, Marco Cremona<sup>1</sup>; <sup>1</sup>Departamento de Física (PUC-Rio), <sup>2</sup>Institute of Science and Technology
- 17:00 Development of Organic Light Converter Devices (OLCDs) based on Near-infrared sensitive molecules** **O.P3.103**  
Mônica Cristina Melquiades<sup>1</sup>, Cristiano Legnani<sup>1</sup>, Welber Gianini Quirino<sup>1</sup>, Rian Esteves Aderne<sup>2</sup>, Marco Cremona<sup>2</sup>, Leandra Franscicato Campo<sup>3</sup>, Fabiano Severo Rodembusch<sup>3</sup>; <sup>1</sup>Grupo de Nanociências e Nanotecnologia, Departamento de Física, Universidade Federal de Juiz de Fora, <sup>2</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>3</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Organic Diodes with High Rectification based on Liquid Crystalline Phthalocyanines** **O.P3.104**  
Juliana Eccher<sup>1</sup>, Petru Apostol<sup>2</sup>, Harald Bock<sup>2</sup>, Ivan H. Bechtold<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Centre de Recherche Paul-Pascal, University of Bordeaux



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session P.OR1 (09:45 - 10:45) - Room 01

- 09:45 Characterization and modeling of nonlinear refraction and absorption** P.OR1.1\*  
David J Hagan<sup>1</sup>, Eric W Van Stryland<sup>1</sup>; <sup>1</sup>University of Central Florida
- 10:15 Femtosecond opto-magnetism: from fundamentals to nanoscale dynamics** P.OR1.2\*  
Alexey Kimel<sup>1</sup>; <sup>1</sup>Radboud University / Radboud Universiteit Nijmegen

#### Session P.OR2 (11:15 - 12:30) - Room 01

- 11:15 Two-photon absorption with polarization control** P.OR2.3\*  
Cleber R. Mendonça<sup>1</sup>, Leonardo De Boni<sup>1</sup>, Marcelo Gonçalves Vivas<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Universidade Federal de Alfenas
- 11:45 Non-linear refractive index and third order absorption coefficient in PMMA:DR1 films** P.OR2.4  
Jorge Garcia-Macedo, Gerardo Salas, Jose Gabriel Mercado<sup>1</sup>; <sup>1</sup>Instituto de Física Universidad Nacional Autonoma de Mexico
- 12:00 Investigation of the Nonlinear Absorption Spectrum of All-Trans Retinoic Acid by Using the Steady and Transient Two-Photon Absorption Spectroscopy** P.OR2.5  
Marcelo Gonçalves Vivas<sup>1</sup>, Jonathas Paula Siqueira<sup>2</sup>, Daniel Luiz Silva<sup>3</sup>, Leonardo De Boni<sup>2</sup>, Cleber Renato Mendonça<sup>2</sup>; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Instituto de Física de São Carlos - USP, <sup>3</sup>Universidade Federal de São Carlos
- 12:15 Optical properties of glass-ceramics containing CdFe<sub>2</sub>O<sub>4</sub>@SiO<sub>2</sub> magnetic nanoparticles** P.OR2.6  
Juliane Resges Orives<sup>1</sup>, Wesley Renato Viali<sup>2,1</sup>, Juliana M. Almeida<sup>3</sup>, Cleber R. Mendonça<sup>3</sup>, Felipe Barioni<sup>4</sup>, Rodrigo Costa Marques<sup>4</sup>, Marcelo Nalin<sup>1</sup>; <sup>1</sup>LaViE, Chemistry Institute, São Paulo State University, Araraquara., <sup>2</sup>Federal University of São Carlos, <sup>3</sup>Physics Institute, University of São Paulo, São Carlos., <sup>4</sup>Chemistry Institute, São Paulo State University, Araraquara.

#### Session P.OR3 (14:00 - 15:15) - Room 01

- 14:00 Magnetic and Electric Fields Control of Nuclear Spin Coherence of Rare Earth Ions in Solids** P.OR3.7\*  
Philippe Goldner<sup>1</sup>, Andrea Arcangeli, Alban Ferrier, Roger M Macfarlane; <sup>1</sup>École Nationale Supérieure de Chimie de Paris
- 14:30 Optical tweezers for single nanoparticle manipulation and spectroscopy** P.OR3.8\*  
 Paloma Rodriguez, Patricia Haro, adolfo Speghini, Marco Bettinelli, Jose Antonio Garcia-Sole, Daniel Jaque
- 15:00 Scanning Near-Field Optical Microscopy Probes with Tuned Localized Surface Plasmon Resonance** P.OR3.9  
Thiago de Lourenço e Vasconcelos, Bráulio Soares Archanjo, Benjamin Fragneaud, Bruno Santos de Oliveira, Douglas S. Ribeiro, Cassiano Rabelo, Wagner Nunes Rodrigues, Ado Jorio, Carlos Alberto Achete, Luiz Gustavo Cancado

### Poster presentations

#### Session P.P1 (17:00 - 19:00)

- 17:00 Research and Optimization of Upconversion Emission in Er<sup>3+</sup>/Yb<sup>3+</sup> Co-Doped LaF<sub>3</sub> Nanoparticles by Heat Treatment** P.P1.1  
Tasso de Oliveira Sales<sup>1</sup>; <sup>1</sup>Universidade Federal de Alagoas
- 17:00 An optical and spectroscopic study of Calcium Borotellurite glass system** P.P1.2  
Edson Carvalho Paz<sup>1,2</sup>, Glauco Hebert Almeida de Melo<sup>3</sup>, Julieth Daiane Marques Dias<sup>1</sup>, Bernardo Rurik Aparecido Gomes, Franciana Pedrochi, Marcio José Barboza, Alysson Steimacher; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Instituto Federal do Maranhão, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão

- 17:00 Investigation of Yb<sup>3+</sup> doped Calcium Boro-tellurite glasses Structural Properties** **P.P1.3**  
Antônia Millena de Oliveira Lima<sup>1</sup>, Jheimison Ferreira Gomes<sup>1</sup>, Maria Nayane de Queiroz<sup>1</sup>, Diogo Ramon do Nascimento Brito<sup>1</sup>, Franciana Pedrochi<sup>1</sup>, Alysson Steimacher<sup>1</sup>, Marcio José Barboza<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão
- 17:00 Laser micromachining of biocompatible polymer for medical devices manufacturing** **P.P1.4**  
Regina Estevam Alves<sup>1</sup>, Andrey Coatrini Soares<sup>1</sup>, Paulo Henrique Dias Ferreira<sup>2</sup>, Osvaldo Novais Oliveira Jr<sup>1</sup>, Carla R. Fontana<sup>3</sup>, Cleber R. Mendonça<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos/Universidade de São Paulo, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Universidade Estadual Paulista
- 17:00 Upconversion and C-telecom band emission in Er<sup>3+</sup>-doped CaYAIO<sub>4</sub>: structural and photoluminescent properties** **P.P1.5**  
Rafael Vieira Perrella<sup>1</sup>, Édison Pecoraro<sup>2</sup>, Marco Antonio Schiavon<sup>1</sup>, Sidney J.L. Ribeiro<sup>2</sup>, Jefferson Luis Ferrari<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>Instituto de Química - UNESP
- 17:00 Broadband emission in C-telecom region for Er<sup>3+</sup>/Yb<sup>3+</sup>-doped Al<sub>2</sub>O<sub>3</sub> prepared by different synthesis** **P.P1.6**  
Daiane Helena Silva Reis<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>, Édison Pecoraro<sup>2</sup>, Sidney J.L. Ribeiro<sup>2</sup>, Jefferson Luis Ferrari<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Band gaps in octonacci photonic quasicrystals** **P.P1.7**  
MANOEL S. VASCONCELOS<sup>1</sup>, Edi Rozenbergh Brandão<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Optical fiber production and characterization of highly nonlinear Pb<sub>2</sub>P<sub>2</sub>O<sub>7</sub>-Nb<sub>2</sub>O<sub>5</sub> glasses** **P.P1.8**  
Danilo Manzani<sup>1</sup>, Juliana M. Almeida<sup>2</sup>, Murilo Montesso<sup>3</sup>, MARCELO NALIN<sup>1</sup>, Leonardo De Boni<sup>2</sup>, Cleber R. Mendonça<sup>2</sup>, Sidney J.L. Ribeiro<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP, <sup>2</sup>Instituto de Física de São Carlos (IFSC), <sup>3</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Preparation of high purity low optical loss chalcogenide glasses for infrared fiber optics systems and photonic devices** **P.P1.9**  
Igor V. Skripachev<sup>1</sup>, M. Churbanov<sup>2</sup>, G. Snopatin<sup>1</sup>, V. Plotnichenko<sup>3</sup>; <sup>1</sup>G.G. Devyatykh Institute of Chemistry of High-Purity Substances, Russian Academy of Sciences, Nizhniy Novgorod, Russia, <sup>2</sup>Institute of Chemistry of High Purity Substances, <sup>3</sup>Fiber Optics Research Center of the Russian Academy of Sciences, Moscow

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session P.OR4 (09:45 - 10:45) - Room 01

##### 09:45 Sol-Gel-Derived Photonic Structures

P.OR4.10\*

Anna Luiza Lukowiak<sup>1</sup>, Cristina Armellini<sup>2</sup>, Andrea Chiappini<sup>2</sup>, Alessandro Chiasera<sup>2</sup>, Sreeramulu Valligatla<sup>3,4,2</sup>, Iustyna Vasilchenko<sup>4,2</sup>, Rogéria Rocha Gonçalves<sup>5</sup>, Wieslaw Strek<sup>1</sup>, Maurizio Ferrari<sup>2</sup>; <sup>1</sup>Polish Academy of Sciences, <sup>2</sup>Istituto di Fotonica e Nanotecnologie CNR, <sup>3</sup>University of Hyderabad, <sup>4</sup>Università degli Studi di Trento, <sup>5</sup>Universidade de São Paulo

##### 10:15 Red photonic glasses and confined structures

P.OR4.11

Alessandro Chiasera<sup>1</sup>, Anna Luiza Lukowiak<sup>2</sup>, Francesco Scotognella<sup>3,4</sup>, Davor Ristic<sup>5</sup>, Sreeramulu Valligatla<sup>1,6,7</sup>, Andre Chiappini<sup>1</sup>, Alessandro Vaccari<sup>8</sup>, Dominik Dorosz<sup>9</sup>, Stefano Taccheo<sup>10</sup>, Rogéria Rocha Gonçalves<sup>11</sup>, Giancarlo C. Righini<sup>12,13</sup>, Roberta Ramponi<sup>3</sup>, MAURIZIO FERRARI<sup>1,12</sup>; <sup>1</sup>Istituto di fotonica e nanotecnologie del Consiglio Nazionale delle Ricerche, <sup>2</sup>Polish Academy of Sciences, <sup>3</sup>Politecnico di Milano, Dipartimento di Fisica and IFN-CNR, <sup>4</sup>Center for Nano Science and Technology@PoliMi, Istituto Italiano di Tecnologia, <sup>5</sup>Ruder Boskovic Institute and Center of Excellence for Advanced Materials and Sensing Devices, <sup>6</sup>Dipartimento di Fisica, Università di Trento, <sup>7</sup>School of Physics, University of Hyderabad, <sup>8</sup>FBK - CMM, ARES Unit, <sup>9</sup>Bialystok University of Technology, Department of Power Engineering, Photonics and Lighting Technology, <sup>10</sup>College of Engineering, Swansea University, <sup>11</sup>Departamento de Química, Universidade de São Paulo, Ribeirão Preto, <sup>12</sup>Centro di Studi e Ricerche Enrico Fermi, <sup>13</sup>IFAC - CNR, MiPLab

##### 10:30 Wavelength conversion based on rare earth doped glass ceramic layers for photovoltaic applications.

P.OR4.12

Adel Bouajaj<sup>1</sup>, Saloua Belmokhtar<sup>1</sup>, Francesco Enrichi<sup>2</sup>, Brigitte Boulard<sup>3</sup>, Fabio Belluomo<sup>4</sup>, Cristina Armellini<sup>5</sup>, Simone Normani<sup>5</sup>, Maurizio Ferrari<sup>5</sup>; <sup>1</sup>École Nationale des Sciences Appliquées de Tanger, <sup>2</sup>Laboratorio Nanofab, <sup>3</sup>Institut des Molécules et Matériaux du Mans, UMR 6283, Equipe Fluorures, Université du Maine, <sup>4</sup>Meridionale Impianti SpA, <sup>5</sup>IFN - CNR CSMFO Lab.

#### Session P.OR5 (11:15 - 12:30) - Room 01

##### 11:15 Rare-earth doped multicomponent optical fibers

P.OR5.13\*

Dominik Dorosz<sup>1</sup>, Marcin Kochanowicz<sup>1</sup>, Jacek Zmojda<sup>1</sup>, Piotr Miluski<sup>1</sup>, Giancarlo C. Righini<sup>2,3</sup>, Maurizio Ferrari<sup>4</sup>; <sup>1</sup>Bialystok University of Technology, Department of Power Engineering, Photonics and Lighting Technology, <sup>2</sup>Centro di Studi e Ricerche Enrico Fermi, <sup>3</sup>IFAC - CNR, MiPLab, <sup>4</sup>IFN - CNR CSMFO Lab.

##### 11:45 Modern photonic materials based on highly emissive molecular species incorporated in mesoporous silicates

P.OR5.14\*

Andrea Simone Stucchi de Camargo<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP

##### 12:15 MD simulation of the interactions between ligands and cnt for in situ lanthanide complexation over cnt for LCNDs

P.OR5.15

Elaine Cavalcanti Rodrigues Vaz<sup>1</sup>, Daniela Nadvorny<sup>1</sup>, Petrus d'Amorim Santa-Cruz<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco

#### Session P.OR6 (14:00 - 15:15) - Room 01

##### 14:00 Recent Advances in Fluorescent Nanothermometry in the First and Second Biological Windows

P.OR6.16\*

Antonio Benayas<sup>1</sup>; <sup>1</sup>Institut National de la Recherche Scientifique

##### 14:30 Multifunctional biosensors: from lab to fab

P.OR6.17

Heidi Ottevaere, Diane De Coster, Jürgen Van Erps, Michael Vervaeke, Hugo Thienpont

##### 14:45 Optical thermometry based on visible upconversion luminescence of Er<sup>3+</sup> and Er<sup>3+</sup>/Yb<sup>3+</sup> co-doped tellurite glasses and optical fibers

P.OR6.18

Danilo Manzani<sup>1</sup>, Karina Nigoghossian<sup>1</sup>, Sidney J.L. Ribeiro<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP

##### 15:00 Visual Gamma Radiation Dosimeter Based on the Up-conversion Luminescence Dependence of Structural Changes Induced in Glassy Materials

P.OR6.19

Lays de Araújo<sup>1</sup>, Raquel Aline d Amorim<sup>2</sup>, Petrus d'Amorim Santa-Cruz<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Fundação Universidade Federal do Vale do São Francisco

## Poster presentations

### Session P.P2 (17:00 - 19:00)

- 17:00 Synthesis of antimony-based glass system containing erbium ions and silver nanoparticles** **P.P2.10**  
Wesley Renato Viali<sup>1,2</sup>, Ricardo Santos Baltieri<sup>2</sup>, Juliane Resges Orives<sup>2</sup>, Marcelo Nalin<sup>1,2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Instituto de Química - UNESP Araraquara
- 17:00 Photoluminescence properties of Er<sup>3+</sup> doped phosphate tungstate glass containing silver nanoparticles** **P.P2.11**  
Silvia Helena Santagneli<sup>1</sup>, MARCELO NALIN<sup>1</sup>, José Maurício Almeida Caiut<sup>2</sup>, Lino Misoguti<sup>3</sup>, Sidney José Lima Ribeiro<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP Araraquara, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 Pb(Zr,Ti)O<sub>3</sub> nanoparticles dissolution in borate glass** **P.P2.12**  
Victor Ciro Solano Reynoso<sup>1</sup>, Walter Katsumi Sakamoto<sup>1</sup>; <sup>1</sup>UNESP, Câmpus de Ilha Solteira
- 17:00 Preparation of Yb-doped LiLa(WO<sub>4</sub>)<sub>2</sub> single crystal fibers** **P.P2.13**  
Rafael Lima Denaldi<sup>1</sup>, Sonia Licia Baldochi<sup>1</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares
- 17:00 NIR emission at 1000 nm from Pr<sup>3+</sup>/Yb<sup>3+</sup> co-doped SiO<sub>2</sub>-Nb<sub>2</sub>O<sub>5</sub> nanocomposites for solar cell application** **P.P2.14**  
Rogéria Rocha Gonçalves<sup>1</sup>, Wesley Cardoso Muscelli<sup>1</sup>, Felipe Thomaz Aquino<sup>1</sup>, Maurizio Ferrari<sup>2</sup>, Sidney José Lima Ribeiro<sup>3</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - Universidade de São Paulo, <sup>2</sup>Instituto di fotonica e nanotecnologie del Consiglio Nazionale delle Ricerche, <sup>3</sup>Instituto de Química - UNESP
- 17:00 UVC emitting phosphor based on Rare-earth materials** **P.P2.15**  
José Maurício Almeida Caiut<sup>1</sup>, Bruno Caillier<sup>2</sup>, Philippe Guillot<sup>2</sup>, Robert Mauricot<sup>3</sup>, Jeannette Dexpert-Ghys<sup>3</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto-USP, <sup>2</sup>Centre Universitaire - J. F. Champollion, <sup>3</sup>Centre d'Elaboration de Matériaux et d'Etudes Structurales
- 17:00 Broadband NIR Luminescence and upconversion color tunability from Er<sup>3+</sup>/Yb<sup>3+</sup> co-doped SiO<sub>2</sub>-Nb<sub>2</sub>O<sub>5</sub> nanocomposites synthesized by an alternative sol-gel route** **P.P2.16**  
Fábio José Caixeta<sup>1,2</sup>, Felipe Thomaz Aquino<sup>1</sup>, Rafael Ramiro Pereira<sup>1</sup>, Rogéria Rocha Gonçalves<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - Universidade de São Paulo, <sup>2</sup>Departamento de Química, Universidade de São Paulo, Ribeirão Preto
- 17:00 Donor-acceptor energy transfer from 1,8-naphthalimides immobilized on the walls of mesoporous organosilicas to 3,4,9,10-perylenediimides within the pore interiors** **P.P2.17**  
Bruna Castanheira<sup>1</sup>, Fabiane de Jesus Trindade<sup>2</sup>, Sergio Brochsztain<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Universidade de São Paulo

## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session P.OR7 (09:45 - 10:45) - Room 01

- 09:45 Linear and Nonlinear Optical Processes in Metal-dielectric Nanocomposites** P.OR7.20\*  
Cid Bartolomeu de Araújo<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 10:15 Plasmonic Catalysis with Ag and Au Based Nanomaterials** P.OR7.21\*  
Pedro Henrique Cury Camargo<sup>1</sup>; <sup>1</sup>Universidade de São Paulo

#### Session P.OR8 (11:15 - 12:30) - Room 01

- 11:15 Tailoring multifunctional smart nanomaterials for photothermal therapies** P.OR8.22\*  
Carlos Jacinto<sup>1</sup>; <sup>1</sup>Universidade Federal de Alagoas
- 11:45 Innovative fabrication approaches of nanostructured photonic systems** P.OR8.23\*  
Fabien Sorin<sup>1</sup>; <sup>1</sup>Institute of Materials, Ecole Polytechnique Fédérale de Lausanne Laboratory of Photonic Materials and Fibre Devices
- 12:15 NIR Luminescence From Nd<sup>3+</sup>-Doped YBO<sub>3</sub> Nanostructured Powders** P.OR8.24  
Lauro June Queiroz Maia<sup>1</sup>, André L. Moura<sup>2,3</sup>, Vladimir Jerez<sup>3,4</sup>, Cid B. de Araújo<sup>3</sup>; <sup>1</sup>Universidade Federal de Goiás, <sup>2</sup>Universidade Federal de Alagoas, <sup>3</sup>Universidade Federal de Pernambuco, <sup>4</sup>Universidad de Santander

#### Session P.OR9 (14:00 - 15:15) - Room 01

- 14:00 Optical properties of heavy metal oxide glasses containing Er<sup>3+</sup> and Ag nanoparticles** P.OR9.25  
Marcelo Nalin<sup>1</sup>, Mariana Carolina de Castro Silva<sup>1</sup>, Rogéria Rocha Gonçalves<sup>2</sup>; <sup>1</sup>Instituto de Química - UNESP Araraquara, <sup>2</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto-USP
- 14:15 A Novel Hybrid Macro and Micro Characterization Platform for Luminescent Nanomaterials** P.OR9.26  
 Igor Carvalho<sup>1</sup>, Francis Ndi<sup>1</sup>, Eric Teboul<sup>1</sup>; <sup>1</sup>HORIBA SCIENTIFIC
- 14:30 A Novel Hybrid Macro and Micro Characterization Platform for Luminescent Nanomaterials** P.OR9.27  
Francis Ndi<sup>1</sup>, Igor Carvalho<sup>1</sup>, Eric Teboul<sup>1</sup>; <sup>1</sup>HORIBA Scientific
- 14:45 From the rgb cromaticity control in glassy materials to printable devices: the 20 years trajectory of the landphoton and the spectralux final version in the international year of light** P.OR9.28  
Petrus d'Amorim Santa-Cruz<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 15:00 Luminescent polymer composites for inkjet DoD printing technology** P.OR9.29  
Lizeth Carolina Mojica Sánchez<sup>1</sup>, Felipe Leon Nascimento de Sousa<sup>2</sup>, Savia Gavazza Pessoa<sup>1</sup>, Lourdinha Florencio<sup>1</sup>, Eduardo Henrique Lago Falcão<sup>1</sup>, Petrus d'Amorim Santa-Cruz<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Federal Rural de Pernambuco

### Poster presentations

#### Session P.P3 (17:00 - 19:00)

- 17:00 Morphological, Structural and Spectroscopic Properties of Upconversion Er<sup>3+</sup>/Yb<sup>3+</sup> co-doped Y<sub>2</sub>O<sub>3</sub>@SiO<sub>2</sub> Nanoparticles** P.P3.18  
Rafael Ramiro Pereira<sup>1</sup>, Luiz Fernando dos Santos<sup>1</sup>, Silvana Ruella de Oliveira<sup>1</sup>, Rogéria Rocha Gonçalves<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto-USP
- 17:00 Color stability of different denture teeth materials against staining agent** P.P3.19  
Jessica Oliveira Lima Vianna<sup>1</sup>, Lucas Leme Oliveira<sup>1</sup>, Cristina Costa de Almeida<sup>1</sup>, Giovanna Pesce<sup>1</sup>, Fernanda Nunes Souza<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense

- 17:00 Synthesis and characterization of borate glasses of the system  $B_2O_3 - CaO - LiO_2$**  **P.P3.20**  
 Nicele Brito Pimentel<sup>1</sup>, Daniela Terumi Romero Ogima<sup>1</sup>, Antonio Carlos Hernandez<sup>2</sup>, Jean Claude M'Peko<sup>2</sup>, Seila Rojas Souza<sup>1</sup>, José Ezequiel De Souza<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal da Grande Dourados, <sup>2</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Structural, and Spectroscopic Properties of Upconversion  $Er^{3+}/Yb^{3+}$  co-doped  $Y_3TaO_7$**  **P.P3.21**  
Fernanda H Borges<sup>1</sup>, Rafael Ramiro Pereira<sup>1</sup>, Silvana Ruella de Oliveira<sup>1</sup>, Rogéria Rocha Gonçalves<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - Universidade de São Paulo
- 17:00 Structural, morphological and spectroscopic properties of luminescent  $Eu^{3+}$  doped  $RE_2O_3$  (RE=La or Y) nanoparticles** **P.P3.22**  
 Luiz Fernando dos Santos<sup>1</sup>, Rafael Ramiro Pereira<sup>1</sup>, Silvana Ruella de Oliveira<sup>1</sup>, Rogéria Rocha Gonçalves<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto-USP
- 17:00 Upconversion  $SiO_2@Nb_2O_5:Er^{3+}/Yb^{3+}$  Nanoparticles: Morphological, Structural and Spectroscopic Properties** **P.P3.23**  
Mateus Grecco Manfré<sup>1</sup>, Rafael Ramiro Pereira<sup>1</sup>, Silvana Ruella de Oliveira<sup>1</sup>, Rogéria Rocha Gonçalves<sup>1</sup>; <sup>1</sup>Departamento de Química, Universidade de São Paulo, Ribeirão Preto
- 17:00 Study of the optical properties of  $PbO-GeO_2$  glasses and glass-ceramics doped with europium and copper.** **P.P3.24**  
Leonardo Vieira Albino<sup>1</sup>, Marcelo Nalin<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química, Araraquara, SP
- 17:00 Blue and NIR emission from nanostructured  $Tm^{3+}/Yb^{3+}$  co-doped  $SiO_2-Ta_2O_5$  for photonic applications** **P.P3.25**  
Felipe Thomaz Aquino<sup>1</sup>, Wesley Cardoso Muscelli<sup>1</sup>, Karmel Oliveira Lima<sup>2</sup>, Rogéria Rocha Gonçalves<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - Universidade de São Paulo, <sup>2</sup>École Nationale Supérieure de Chimie de Paris
- 17:00 Morphological Stability of PCBM Crystallisation in PCDTBT:PCBM Bulk Hetrojunctions** **P.P3.26**  
Sebastian Pont







## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session Q.OR1 (09:45 - 10:45) - Room 03

**09:45 Organic Solar Cells: From Light Harvesting to Visible Light Communication** Q.OR1.1\*  
 Ifor D.W. Samuel<sup>1</sup>, Alex j. Ward<sup>1</sup>, Arvydas Ruseckas<sup>1</sup>, Shuyu Zhang<sup>1</sup>, Dobroslav Tsonev<sup>2</sup>, Stefan Videv<sup>2</sup>, Sanjay S. Ghosh<sup>1</sup>, Graham A Turnbull<sup>1</sup>, Harald Haas<sup>2</sup>; <sup>1</sup>University of St Andrews, <sup>2</sup>University of Edinburgh

**10:15 The power of materials science tools for gaining insights in organic-based energy harvesting devices** Q.OR1.2\*  
 Natalie Stingelin

#### Session Q.OR2 (11:15 - 12:30) - Room 03

**11:15 Understand Voc Loss in Organic Bulk Heterojunction Solar Cells** Q.OR2.3\*  
 Thuc-Quyen Nguyen

**11:45 Solar electricity generated and stored with electronic polymers Olle Inganäs Biomolecular and organic electronics** Q.OR2.4\*  
 Olle Inganäs<sup>1</sup>; <sup>1</sup>Linköping University / Linköpings universitet

**12:15 Flexible Photovoltaic Devices based on Printed Polymer: Fullerene Nanoparticles Processed from Aqueous Solutions** Q.OR2.5  
 Natasha Ariane Diniz Yamamoto<sup>1</sup>, Margaret Payne<sup>2</sup>, Marlus Koehler<sup>1</sup>, Antonio Facchetti<sup>3</sup>, Lucimara Stolz Roman<sup>1</sup>, Ana Claudia Arias<sup>2</sup>; <sup>1</sup>Federal University of Paraná, <sup>2</sup>University of California, Berkeley, <sup>3</sup>Polyera Corporation

#### Session Q.OR3 (14:00 - 15:15) - Room 03

**14:00 Full-printed organic and perovskite solar cells: Semiconductor oxides and graphene interfaces for enhanced device efficiency and lifetime.** Q.OR3.6\*  
 Monica Lira-Cantu<sup>1</sup>; <sup>1</sup>Catalan Institute of Nanoscience and Nanotechnology

**14:30 Microwave absorption of free carriers in doped conjugated polymer films** Q.OR3.7\*  
 Garry Garry Rumbles<sup>1,2</sup>; <sup>1</sup>University of Colorado Boulder, <sup>2</sup>National Renewable Energy Laboratory

**15:00 Progress and challenges of R&D OPV, from lab-to-fab** Q.OR3.8  
 Diego Bagnis<sup>1</sup>, David James<sup>1</sup>, Grzegorz A Potoczny<sup>1</sup>, Jeferson Freitas<sup>1</sup>, Tatiana Augusto<sup>1</sup>, Erika Gyrovary<sup>1</sup>; <sup>1</sup>Centro de Inovações CSEM Brasil

### Poster presentations

#### Session Q.P1 (17:00 - 19:00)

**17:00 Random Laser properties in Rhodamine-B-doped organic/Silica hybrid materials prepared by sol-gel process** Q.P1.1  
 Diego da Silva Manoel<sup>1</sup>, Dario Antonio Donatti<sup>1</sup>, Fábio Simões de Vicente<sup>1</sup>, Adriano J. G. Otuka<sup>2</sup>, Cleber R. Mendonça<sup>2</sup>, Paulo Henrique Dias Ferreira<sup>3</sup>, Luis M. G. Abegão<sup>4</sup>, Márcio A. R. Alencar<sup>4</sup>, José Joatan Rodrigues Jr.<sup>4</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA "JúLIO DE MESQUITA FILHO", <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Universidade Federal de São Carlos, <sup>4</sup>Universidade Federal de Sergipe

**17:00 Controlled Synthesis of BiVO<sub>4</sub> Photocatalysts: Evidence of the Role of Heterojunctions on their Photocatalytic Activity driven by Visible-Light** Q.P1.2  
 Osmando Ferreira Lopes<sup>1</sup>, Kele Tatiane Gomes Carvalho<sup>2</sup>, Waldir Avansi Junior<sup>1</sup>, Cauê Ribeiro Oliveira<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária

**17:00 Grain size influence on photovoltaic current in BaTiO<sub>3</sub> ferroelectric ceramics** Q.P1.3  
 Eduardo Cavalcante da Silva<sup>1</sup>, Eduardo Antonelli<sup>1</sup>, Eduardo Saito<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo

**17:00 Fabrication and characterization of Ag nanoparticles using Laser ablation in liquids** Q.P1.4  
 Nelson Fabian Villegas<sup>1</sup>, Francisco das Chagas Marques<sup>1</sup>, Victor Emarkov<sup>1</sup>, Carlos Lenz Cesar<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

- 17:00 Design and Characterization of Dye-Sensitized Solar Cells Containing Nanostructured Semiconductor Thick Films** **Q.P1.5**  
Daniel da Motta Sampaio<sup>1</sup>, Álvaro Luis Martins de Almeida Nogueira<sup>1</sup>, Elumalai Thirumal<sup>1</sup>, Ana Lucia Ferreira De Barros<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica Celso Suckow da Fonseca
- 17:00 Metals characterization and separation in photovoltaic crystalline silicon modules** **Q.P1.6**  
Pablo Ribeiro Dias<sup>1</sup>, Mariana Gonçalves Benevit<sup>1</sup>, Hugo Marcelo Veit<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Organic photovoltaic devices based on porphyrin derivate as active layer.** **Q.P1.7**  
Liziane Barbara Bugalski<sup>1</sup>, Luana Cristina Wouk<sup>1</sup>, Cleber marchiori<sup>1</sup>, Camilla Karla Brites Queiroz Martins Oliveira<sup>1</sup>, Fredrik Von Kieseritzky<sup>2</sup>, Natasha A. D. Yamamoto<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Arubedo
- 17:00 A modified liquid-liquid environmental-friendly synthesis of CoS nano-crystals for dye solar cells counter electrodes with iodine-free electrolytes** **Q.P1.8**  
Mirko Congiu<sup>1</sup>, Maria Letizia De Marco<sup>2</sup>, Danilo Dini<sup>2</sup>, Franco Decker<sup>2</sup>, Carlos F. O. Graeff<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" / Bauru, <sup>2</sup>Università degli Studi di Roma La Sapienza, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" / Bauru
- 17:00 Lead-free perovskite-based photovoltaic device presented as the low-cost alternative for solid-state solar cells** **Q.P1.9**  
Lucas Fernandes Aguiar<sup>1</sup>, Tatiana Duque Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás
- 17:00 Modifying electronic properties of ICBA through chemical modifications for solar cell applications** **Q.P1.10**  
Eliézer Fernando Oliveira<sup>1</sup>, Lucas Castorino Silva<sup>1</sup>, Francisco Carlos Lavarda<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 Polymer solar cells obtained with two different types of nanocellulose substrates** **Q.P1.11**  
Saionara Vilhegas Costa<sup>1</sup>, Ana Flávia Nogueira<sup>1</sup>, Silvia Janietz<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Fraunhofer Institut für Angewandte Polymerforschung
- 17:00 Gel electrolyte based on a generation 3 PAMAM modified-talc for dye solar cell: the effect of polyiodide intercalation** **Q.P1.12**  
Marcos Antonio Santana Andrade Junior<sup>1</sup>, Paulo Ernesto Marchezi<sup>1</sup>, Ana Flávia Nogueira<sup>1</sup>, Heloise de Oliveira Pastore<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Effect of Thermal Calcinations on Photoelectrochemical Properties of Tantalum Nitride Nanotubes** **Q.P1.13**  
 Sherdil Khan<sup>1</sup>, Rafael da Costa Brito<sup>1</sup>, Marcos Jose Leite Santos<sup>1</sup>, Sérgio Ribeiro Teixeira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Mixing polymer, molecule and fullerene derivatives to improve solar cell performance** **Q.P1.14**  
Luana Cristina Wouk<sup>1</sup>, Cleber marchiori<sup>1</sup>, Natasha D.A. Yamamoto<sup>1</sup>, Fredrik Von Kieseritzky<sup>2</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Federal University of Paraná, <sup>2</sup>Royal Institute of Technology / Kungliga Tekniska Högskolan
- 17:00 ZnO nanorods grown onto SnO<sub>2</sub> nanoparticles: Preparation and their photocatalytic performance** **Q.P1.15**  
 Luís Fernando da Silva<sup>1</sup>, Osmando Ferreira Lopes<sup>2,3</sup>, Ariadne Cristina Catto<sup>4</sup>, Waldir Avansi Junior<sup>5</sup>, Maria Inês Basso Bernardi<sup>4</sup>, Cauê Ribeiro Oliveira<sup>3</sup>, Elson Longo<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>4</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP, <sup>5</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Improving CdS Solar Cell Performance with Agar Based Polymer Gel Electrolyte** **Q.P1.16**  
Ellen Raphael<sup>1</sup>, Danilo H. Jara<sup>2</sup>, Marco Antonio Schiavon<sup>1</sup>, Prashant V. Kamat<sup>2</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>University of Notre Dame
- 17:00 Niobium-based oxynitride nanosheets prepared by exfoliation of Ruddlesden-Popper phase precursor.** **Q.P1.17**  
Ary da Silva Maia<sup>1,2</sup>, François Chéviré<sup>2</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Stéphanie Députier<sup>2</sup>, Valerie Demange<sup>2</sup>, Valérie Bouquet<sup>2</sup>, Maryline Guilloux-Viry<sup>2</sup>, Ronan Lebullenger<sup>2</sup>, Franck Tessier<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Université de Rennes 1
- 17:00 Influence of charge carrier mobility, lifetime and dissociation probability on the performance of organic solar cells** **Q.P1.18**  
Douglas José Coutinho<sup>1</sup>, Gregório Couto Faria<sup>1</sup>, Debora Terezia Balogh<sup>1</sup>, Roberto Mendonça Faria<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos/Universidade de São Paulo
- 17:00 Perovskite/c-Si hybrid tandem solar modules in 2-terminal and 4-terminal configurations** **Q.P1.19**  
 Sjoerd Veenstra<sup>1</sup>, Sjoerd Veenstra<sup>1</sup>; <sup>1</sup>ECN Solar Energy / Solliance
- 17:00 Organic photovoltaic solar cells fabricated directly onto steel substrates** **Q.P1.20**  
Ziqian Ding<sup>1</sup>, Jeff Kettle<sup>1</sup>; <sup>1</sup>Bangor University

- 17:00 Electrodeposition study of a thin film CdTe on to platinum** **Q.P1.21**  
Jose Hugo de Aguiar Sousa, Francisco Wendel Cipriano de Oliveira<sup>1</sup>, Francisco Marccone Lima<sup>2</sup>, Paulo Hebert França Júnior<sup>2</sup>, Álvaro Neuton de Araújo Silva<sup>2</sup>, Rafael Aragão Magalhães<sup>3</sup>, Francisco Nivaldo Aguiar Freire<sup>2</sup>, Emerson Mariano da Silva<sup>1</sup>; <sup>1</sup>Universidade Estadual do Ceará, <sup>2</sup>Universidade Federal do Ceará, <sup>3</sup>Universidade de Fortaleza
- 17:00 Optical and morphological characterization of thin films of P3HT/N2200 for use as active layer in an organic solar cell** **Q.P1.22**  
Patrick Pascoal de Brito Silva<sup>1</sup>, Rafael Souza da Costa<sup>1</sup>, Artemis Marti Ceschin, Niz Simenremis Pereira; <sup>1</sup>Universidade de Brasília
- 17:00 Hybrid conjugated polymer/semiconductor nanowires based on heterostructured AlGaAs/GaAs for applications in solar cells** **Q.P1.23**  
Raphael Antonio Caface<sup>1</sup>, Yuri Pussep<sup>1</sup>, Francisco Eduardo Gontijo Guimarães<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP
- 17:00 Fluorine-doped tin oxide films by spray pyrolysis using ceramic heater** **Q.P1.24**  
Francisco Marccone Lima, Paulo Hebert França Júnior, Álvaro Neuton de Araújo Silva, Jose Hugo de Aguiar Sousa, Edwalder Silva Teixeira, Felipe Mota Martins, Igor Frota de Vasconcelos, Francisco Nivaldo Aguiar Freire, Ana Fabíola Leite Almeida
- 17:00 Synthesis of BiVO<sub>4</sub> via oxidant peroxo-method: Insights into the photocatalytic performance and degradation mechanism of pollutants** **Q.P1.25**  
Osmando Ferreira Lopes<sup>1</sup>, Kele Tatiane Gomes Carvalho<sup>2</sup>, Gabriel Kossaka Macedo<sup>3</sup>, Vagner Romito de Mendonça<sup>4</sup>, Waldir Avansi Junior<sup>5</sup>, Cauê Ribeiro Oliveira<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>3</sup>São Carlos Institute of Chemistry, USP, <sup>4</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, <sup>5</sup>Universidade Federal de São Carlos
- 17:00 The effect of a hydrogen atmosphere in the sintering process and properties of the Ce<sub>0.7</sub>Gd<sub>0.3</sub>O<sub>3-δ</sub>** **Q.P1.26**  
Victor Buratto Tinti<sup>1</sup>, Daniel Zanetti de Florio<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 New Polythieno[3,4-b]-thiophene-co-benzodithiophene (PTB7) Derivatives for solar Cell Applications** **Q.P1.27**  
 Juan Carlos Roldao<sup>1</sup>, Eliézer Fernando Oliveira<sup>1</sup>, Francisco Carlos Lavarda<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 Preparation of CdTe/CdSe core-shell nanostructures for solar cells application** **Q.P1.28**  
Ana Beatriz Ferreira Vitoreti<sup>1</sup>, Jefferson Luis Ferrari<sup>2</sup>, Marco Antonio Schiavon<sup>2</sup>; <sup>1</sup>Universidade Federal de São João del Rei, <sup>2</sup>Universidade Federal de São João del-Rei

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session Q.OR4 (09:45 - 10:45) - Room 03

- 09:45 Plasmonic Nanostructured Organic Photovoltaics: Breaking the Efficiency Barrier** Q.OR4.9\*  
Zakya H Kafafi<sup>1</sup>; <sup>1</sup>Lehigh University
- 10:15 Carrier multiplication engineering in nanomaterials: Toward high-efficiency solar energy conversion** Q.OR4.10\*  
Jeffrey M Pietryga<sup>1</sup>, Victor I Klimov<sup>1</sup>; <sup>1</sup>Los Alamos National Laboratory

#### Session Q.OR5 (11:15 - 12:30) - Room 03

- 11:15 Colloidal CZTS and Ultra-Thin Perovskite Solar Cells** Q.OR5.11\*  
Jacek Jasieniak<sup>1</sup>; <sup>1</sup>Monash University
- 11:45 Addressing Energy Problems with (Potentially) Non-Toxic Quantum Dot Solutions** Q.OR5.12\*  
Hunter McDaniel<sup>1</sup>; <sup>1</sup>UbiQD
- 12:15 In situ synthesis of PbS nanocrystals in polymer thin films and nanofibers: morphological control through molecular precursor design** Q.OR5.13  
Edward Alexander Lewis<sup>1</sup>, Sarah Jane Haigh<sup>1</sup>, Paul McNaughten<sup>1</sup>, Paul O'Brien<sup>1</sup>; <sup>1</sup>Manchester University

#### Session Q.OR6 (14:00 - 15:15) - Room 03

- 14:00 Controlling the growth of hybrid halide perovskites through templating agents towards easy-processable photovoltaic devices** Q.OR6.14\*
- Silvia Colella<sup>1,2</sup>; <sup>1</sup>Università del Salento (ex-Lecce), <sup>2</sup>CNR-Nanotec
- 14:30 Niobium oxide as blocking layers in perovskite solar cells** Q.OR6.15  
Silvia Leticia Fernandes<sup>1</sup>, Anna Christina Véron<sup>2</sup>, Geiger Thomas<sup>2</sup>, Frank Alain Nüesch<sup>2</sup>, Nilton Francelosi Azevedo Neto<sup>3</sup>, Carlos F. O. Graeff<sup>4</sup>, Elson Longo<sup>1</sup>, Maria Aparecida Zaghete<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP, <sup>2</sup>Swiss Federal Institute for Materials Science and Technology, <sup>3</sup>Universidade Estadual Paulista, <sup>4</sup>Faculdade de Ciências, UNESP-Bauru
- 14:45 The role of domain roughness on charge mobility in bulk heterojunction solar cells** Q.OR6.16  
José Arruda Freire<sup>1</sup>, Cristiano Francisco Woellner<sup>2</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Estadual de Campinas
- 15:00 Eco-friendly fabrication of organic solar cells** Q.OR6.17  
Stefan Gärtner<sup>1</sup>, Christian Sprau<sup>1</sup>, Stefan Reich<sup>1</sup>, Felix Nickel<sup>1</sup>, Sivaramakrishnan Sankaran<sup>1</sup>, Alexander Colsmann<sup>1</sup>; <sup>1</sup>Karlsruhe Institute of Technology

### Poster presentations

#### Session Q.P2 (17:00 - 19:00)

- 17:00 Structural and optical properties of TiO<sub>2</sub> thin films deposited by atomic layer deposition** Q.P2.29  
José Maria Clemente da Silva Filho<sup>1</sup>, Rafael Borges Merlo<sup>1</sup>, Natália de Faria Coutinho<sup>1</sup>, Francisco das Chagas Marques<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 DFT+U study of the interface between hematite and liquid water** Q.P2.30  
Fabio Negreiros Ribeiro<sup>1</sup>, Gustavo Dalpian<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Perovskite/TiO<sub>2</sub> aerogel structured solar cells with high incident photon-to-current efficiency** Q.P2.31  
Geneviève Kreibich Pinheiro<sup>1</sup>, Rafael Bento Serpa<sup>1</sup>, Françoise Toledo Reis<sup>1</sup>, Maria Luisa Sartorelli<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

- 17:00 Influence of radio frequency power on physical properties of InGaAs/GaAs layers obtained by magnetron co-sputtering** **Q.P2.32**  
 Roberto Bernal Correa<sup>1</sup>, Arturo Morales Acevedo<sup>2</sup>, Maximo Lopez Lopez<sup>2</sup>, Alvaro Pulzara Mora<sup>3</sup>, Salvador Gallardo Hernández<sup>2</sup>, Camilo Pulzara Mora<sup>3</sup>; <sup>1</sup>Universidad del Sinú, Colombia, <sup>2</sup>CINVESTAV, México, <sup>3</sup>Universidad Nacional de Colombia, Colombia
- 17:00 Co-Sputtering and characterization of CuInSe<sub>2</sub> Thin Films for Solar Cells** **Q.P2.33**  
 Jorge Montes Monsalve<sup>1</sup>, Arturo Morales Acevedo<sup>2</sup>, Roberto Bernal Correa<sup>1</sup>, Alvaro Pulzara Mora<sup>1</sup>; <sup>1</sup>Universidad Nacional de Colombia, <sup>2</sup>CINVESTAV
- 17:00 Plasma enhanced atomic layer deposition of titanium dioxide thin films using halide and alkoxide precursors** **Q.P2.34**  
 Rodrigo Sávio Pessoa<sup>1</sup>, William Chiappim<sup>2</sup>, Giorgio Ernesto Testoni<sup>2</sup>, Jhonatan Steffens Brandão<sup>1</sup>, Anelise C.O.C. Doria<sup>1</sup>, Nierlly Karinni de Almeida Maribondo Galvão<sup>3</sup>, Lucia vieira Santos Santos<sup>1</sup>, Homero S Maciel<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Instituto Tecnológico de Aeronautica, <sup>3</sup>Instituto Tecnológico de Aeronáutica
- 17:00 Polymer-reduced graphene oxide gel electrolyte dye sensitized solar cells** **Q.P2.35**  
 Ana Flávia Nogueira<sup>1</sup>, Paulo Ernesto Marchezi<sup>1</sup>, Gabriela Gava Sonai<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Synthesis and DFT Calculations on Electronic Properties of ZnO-Sb thin film** **Q.P2.36**  
 Victor Ciro Solano Reynoso<sup>1</sup>, João Marques Cordeiro<sup>1</sup>, Tatiana Conceição Barretto<sup>1</sup>; <sup>1</sup>UNESP, Câmpus de Ilha Solteira
- 17:00 SnO<sub>2</sub> thin films for use in dye-sensitized solar cells** **Q.P2.37**  
 Eder Carlos Ferreira de Souza<sup>1</sup>, Sandra Regina Masetto Antunes<sup>1</sup>, André Vítor Chaves de Andrade<sup>1</sup>, Augusto Celso Antunes<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa
- 17:00 Composition Control of Copper Antimony Sulfide nanoparticles** **Q.P2.38**  
 Fábio Baum<sup>1</sup>, André Luis Silveira Fraga<sup>1</sup>, Marcos Jose Leite Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Electric behavior analysis of bulk heterojunction P3HT:PCBM solar cells** **Q.P2.39**  
 Daniel Roger Bezerra Amorim<sup>1</sup>, Roberto Mendonça Faria<sup>2</sup>, Douglas José Coutinho<sup>3</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP, <sup>2</sup>Instituto de Física de São Carlos/USP, <sup>3</sup>Instituto de Física de São Carlos
- 17:00 Building Heterojunctions with Si-bridging Copolymer and Fullerenes to understand the efficiency improvement in Organic Solar Cells** **Q.P2.40**  
 Cleber Fabiano Marchiori<sup>1</sup>, Natasha D.A. Yamamoto<sup>1</sup>, Carolina Ferreira de Matos<sup>1</sup>, Camilla K.B.Q.M Oliveira<sup>1</sup>, Marlus Koehler<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Federal University of Paraná
- 17:00 Solar cell prototypes combining TiO<sub>2</sub> and electrodeposited CuInS<sub>2</sub>** **Q.P2.41**  
 Yésica Di Iorio<sup>1</sup>, Marcela Vazquez<sup>2</sup>; <sup>1</sup>National Institute of Material Science, <sup>2</sup>INSTITUTO DE INVESTIGACIONES EN CIENCIA Y TECNOLOGÍA DE MATERIALES
- 17:00 Fabrication of borate glass-ceramics co-doped with erbium and ytterbium in search of up and down spectral converters** **Q.P2.42**  
 Romina Zaruhi Keuchkerian<sup>1</sup>, Mauricio Rodriguez<sup>1</sup>, Andrés Cárdenas<sup>1</sup>, Ivana Aguiar<sup>1</sup>, Isabel Galain<sup>1</sup>, Laura Fornaro<sup>1</sup>; <sup>1</sup>Universidad de la República
- 17:00 ZnO nanowires sensitized with water-soluble CdTe for solar cells applications** **Q.P2.43**  
 André Felipe Vale da Fonseca<sup>1</sup>, Daniela Pereira Santos<sup>1</sup>, Ellen Raphael<sup>2,3</sup>, Jefferson Luis Ferrari<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei, <sup>2</sup>Universidade Federal de São João Del Rei, <sup>3</sup>Departamento de Ciências Naturais
- 17:00 Effects of post-fabrication treatments on the surface potential and morphology of hybrid polymer-nanoparticle films** **Q.P2.44**  
 Ana Flávia Nogueira<sup>1</sup>, Jilian Nei de Freitas<sup>2</sup>, João Paulo Carvalho Alves<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Centro de Tecnologia da Informação Renato Archer
- 17:00 Structural e Electrical Characterization of Ce<sub>0,9</sub>Me<sub>0,1</sub>O<sub>3</sub> compounds for solar-driven fuel production** **Q.P2.45**  
 Daniel Zanetti de Florio<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Dye sensitized solar cells: Composition of TiO<sub>2</sub> paste and influence of TiO<sub>2</sub> blocking layers in cells efficiency** **Q.P2.46**  
 Natália de Faria Coutinho<sup>1</sup>, Gabriela Gava Sonai<sup>1</sup>, Francisco das Chagas Marques<sup>1</sup>, Ana Flávia Nogueira<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Synthesis of Antireflection Coatings Based on Silica-Titania Nanocomposites using the sol-gel process** **Q.P2.47**  
 Ineida Maria de Oliveira e Silveira<sup>1</sup>, Débora Guimarães da Silva<sup>1</sup>, Vilma Conceição Costa, Rogério Antônio Xavier Nunes<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais

- 17:00 Shape Control of Nanosheets and Nanoflowers of MoS<sub>2</sub>** **Q.P2.48**  
André Luis Silveira Fraga<sup>1</sup>, Emerson Cristófer Kohlrausch<sup>1</sup>, Marcos Jose Leite Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Characterization of Ce<sub>0,99</sub>Gd<sub>0,01</sub>O<sub>3-δ</sub> sintered in a reducing atmosphere** **Q.P2.49**  
Danylo Sousa Oliveira<sup>1</sup>, Daniel Zanetti de Florio<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Optimizing the TCO (ZnO:Al) thickness for Glass/TCO/CdS/CIGS/Mo solar cells** **Q.P2.50**  
Roberto Bernal Correa<sup>1</sup>, Arturo Morales Acevedo<sup>2</sup>, Jorge Montes Monsalve<sup>3</sup>, Alvaro Pulzara Mora<sup>3</sup>; <sup>1</sup>Universidad del Sinú, <sup>2</sup>CINVESTAV, <sup>3</sup>Universidad Nacional de Colombia
- 17:00 Preparation of silica antireflective coating by the sol-gel process for solar power plants** **Q.P2.51**  
Débora Guimarães da Silva<sup>1</sup>, Vilma Conceição Costa<sup>1</sup>, Rogério Antônio Xavier Nunes<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais
- 17:00 Study of performance TiO<sub>2</sub> films as electron acceptor in hybrid photovoltaic cells** **Q.P2.52**  
Éder Alves Pereira<sup>1</sup>, Maykon André Montanhera<sup>2,3</sup>, Fernando Rogério de Paula<sup>3</sup>, Edna Regina Spada<sup>4</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Instituto de Ciência e Tecnologia, Universidade " Júlio de Mesquita Filho", <sup>3</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP, <sup>4</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Impedance Spectroscopy of CeO<sub>2</sub> sintered under air or hydrogen atmosphere** **Q.P2.53**  
Raul Lima Guimarães<sup>1</sup>, Daniel Zanetti de Florio<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC



## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session Q.OR7 (09:45 - 10:45) - Room 03

**09:45 Development of high performance hematite photoanode: lessons learned from the colloidal nanocrystal deposition (CND) process** Q.OR7.18\*

Edson Roberto Leite, Ricardo Henrique Gonçalves<sup>1</sup>; <sup>1</sup>Federal University of São Carlos

**10:15 Metal oxides nanoparticles and thin-films for solar energy conversion** Q.OR7.19\*

Antonio Otavio Toledo Patrocínio<sup>1</sup>, Leonardo Ferreira Paula<sup>1</sup>, Marcela Dias França<sup>1</sup>, Jenny Schneider<sup>2</sup>, Antônio Eduardo Hora Machado<sup>1</sup>, Detlef Bahnemann<sup>2</sup>; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Universität Hannover

#### Session Q.OR8 (11:15 - 12:30) - Room 03

**11:15 Atomic-scale Design of Photoelectrodes for Solar Fuel Production: Insights from First-principles Theory** Q.OR8.20\*

C. Moyses Araujo<sup>1</sup>; <sup>1</sup>Uppsala University / Uppsala Universitet

**11:45 A study of bind agents effect between TiO<sub>2</sub> nanotubes and gold nanoparticles in the hydrogen production improvement** Q.OR8.21

Rhauane Almeida Galvão<sup>1,2</sup>, GERMANA M M SILVA<sup>2</sup>, Flávia de Andrade Lima Tavares<sup>1,2</sup>, Gian Carlos Silva Duarte<sup>2</sup>, Giovanna Machado<sup>2</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste,

**12:00 Study of charge transfer process in water splitting on TiO<sub>2</sub> photoanode prepared by pulsed electron deposition** Q.OR8.22

Adriano cesar rabelo<sup>1</sup>, Mário R. S. Soares<sup>1</sup>, Edson Roberto Leite<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos

**12:15 Origin of high hole concentrations in Mg-doped GaN films** Q.OR8.23

Alec M. Fischer<sup>1</sup>, Shuo Wang<sup>1</sup>, Fernando A. Ponce<sup>1</sup>, Brendan P. Gunning<sup>2</sup>, Chloe Fabien<sup>2</sup>, William Alan Doolittle<sup>2</sup>; <sup>1</sup>Arizona State University, <sup>2</sup>Georgia Institute of Technology

#### Session Q.OR9 (14:00 - 15:15) - Room 03

**14:00 Hydrogenation properties of TiFe doped with Zirconium** Q.OR9.24\*

Jacques Huot<sup>1</sup>, Catherine Gosselin<sup>1</sup>; <sup>1</sup>Université du Quebec Trois-Rivieres

**14:30 Hydrogen storage in magnesium: processing and morphological aspects** Q.OR9.25

Sydney Ferreira Santos<sup>1</sup>, Alexandre Augusto Cesario Asselli<sup>2</sup>, Jacques Huot<sup>2</sup>; <sup>1</sup>Universidade Federal do ABC, <sup>2</sup>Université du Quebec Trois-Rivieres

**14:45 New Mg-rich phases in RE-TM-Mg (RE = Rare-Earth, T = Transition metal) systems for hydrogen storage and much more...** Q.OR9.26\*

Jean-Louis BOBET, Etienne GAUDIN

### Poster presentations

#### Session Q.P3 (17:00 - 19:00)

**17:00 Development of TiO<sub>2</sub> Nanotubes Impregnated with Platinum Nanoparticles for Hydrogen Photogeneration** Q.P3.54

Renata Costa Souza<sup>1</sup>, Alessandra Batista de Mattos<sup>1</sup>, Giovanna Machado<sup>1</sup>; <sup>1</sup>Centro de Tecnologias Estratégicas do Nordeste,

**17:00 Photocatalytic properties of new layer-by-layer TiO<sub>2</sub>/WO<sub>3</sub> thin films** Q.P3.55

Leonardo Ferreira Paula<sup>1</sup>, Antonio Otavio Toledo Patrocínio<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia

**17:00 Synthesis of Co Catalysts in water splitting process using TiO<sub>2</sub> nanotubes for hydrogen production** Q.P3.56

GERMANA M M SILVA<sup>1</sup>, Flavia Tavares<sup>1</sup>, Rhauane Almeida Galvão<sup>2,1</sup>, Gian Carlos Silva Duarte<sup>1</sup>, Giovanna Machado<sup>1</sup>; <sup>1</sup>Centro de Tecnologias Estratégicas do Nordeste,, <sup>2</sup>Universidade Federal de Pernambuco

- 17:00 Pt/Ti collectors size and distribution density dependency on the photocurrent in a Si-based metal-insulator-semiconductor photoelectrode for H<sub>2</sub> evolution** **Q.P3.57**  
Leandro Ize Gutierrez<sup>1</sup>, Pedro Migowski<sup>1</sup>, Raquel Silva Thomaz<sup>1</sup>, Adriano F. Feil<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio Grande do Sul
- 17:00 TiO<sub>2</sub> nanoparticles incorporated into natural diatomite for solar cells application** **Q.P3.58**  
Elisban Juani Sacari Sacari<sup>1</sup>, Saravanan Rajendran<sup>1</sup>, Francisco Gracia<sup>1</sup>, Edgar Mosquera<sup>1</sup>; <sup>1</sup>Universidad de Chile
- 17:00 TiO<sub>2</sub>/SiO<sub>2</sub> and SiO<sub>2</sub>/TiO<sub>2</sub> core/shell structures for application in photoelectrochemical devices** **Q.P3.59**  
Rafael da Costa Brito<sup>1</sup>, Marcos Jose Leite Santos<sup>1</sup>, Jacqueline Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 The influence of Pechini and hidrothermal methodologies for Nb<sub>2</sub>O<sub>5</sub> particles obtention aiming application in TiO<sub>2</sub> / Nb<sub>2</sub>O<sub>5</sub> dye sensitized solar cell** **Q.P3.60**  
Aline Viomar<sup>1</sup>, Guilherme Arielo Rodrigues Maia<sup>1</sup>, Fernando Reinoldo Scremin<sup>2</sup>, Augusto Celso Antunes<sup>3</sup>, Paulo Rogério Pinto Rodrigues<sup>1</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste, <sup>2</sup>Universidade Tecnológica Federal do Paraná, <sup>3</sup>Universidade Estadual de Ponta Grossa
- 17:00 Influence of different morphologies ZnO particles for application in solar cell** **Q.P3.61**  
Guilherme Arielo Rodrigues Maia<sup>1</sup>, Letícia Fernanda Gonçalves Larsson<sup>1</sup>, Aline Viomar<sup>1</sup>, Fernando Reinoldo Scremin<sup>1</sup>, Augusto Celso Antunes<sup>2</sup>, Paulo Rogério Pinto Rodrigues<sup>1</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste, <sup>2</sup>Universidade Estadual de Ponta Grossa
- 17:00 Photovoltaic effects in nickel-barium doped KNbO<sub>3</sub>** **Q.P3.62**  
Ronaldo Crosio Gennari<sup>1</sup>, José Antônio Eiras<sup>2</sup>, Manuel Henrique Lente<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Comparison between two types of ZnO working electrodes for DSSCs** **Q.P3.63**  
Anderson Lima<sup>1,2</sup>, Igor Frota de Vasconcelos<sup>1</sup>, Monica Lira-Cantu<sup>2</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Catalan Institute of Nanoscience and Nanotechnology
- 17:00 Ce<sub>0,9</sub>Gd<sub>0,2</sub>O<sub>3-δ</sub> ceramics sintered on air and H<sub>2</sub> gas flow** **Q.P3.64**  
Hermano Augusto Bonicio<sup>1</sup>, Daniel Zanetti de Florio<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Study of the CdSe QD impregnation influence in hydrogen production of microwave synthesized TiO<sub>2</sub> nanotubes.** **Q.P3.65**  
Flávia de Andrade Lima Tavares<sup>1,2</sup>, Giovanna Machado<sup>2</sup>, GERMANA M M SILVA<sup>2</sup>, Daniel Eduardo Weibel<sup>3</sup>, Francine Ramos Scheffer<sup>3</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste,, <sup>3</sup>Universidade Federal do Rio Grande do Sul
- 17:00 The Urbach Focus and optical properties of a-SiC:H<sub>x</sub>** **Q.P3.66**  
Jorge Andres Guerra<sup>1,2</sup>, Liz Margarita Montañez Huamán<sup>1,3</sup>, José Angulo<sup>1</sup>, Albrecht Winnacker<sup>2</sup>, Roland Weingärtner<sup>1,2</sup>; <sup>1</sup>Pontificia Universidad Católica del Perú, <sup>2</sup>Friedrich Alexander Universität Erlangen Nürnberg, <sup>3</sup>Technische Universität Ilmenau
- 17:00 Development of an automatic solar radiation spectral data acquisition system** **Q.P3.67**  
Guilherme Marques Neves<sup>1</sup>, Waldeir Amaral Vilela<sup>1</sup>, Enio Bueno Pereira<sup>1</sup>, Luiz Angelo Berni<sup>1</sup>; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Silver Nanowire as Transparent and Flexible Top, Bottom and Intermediate Electrodes in Efficient Photovoltaic Devices** **Q.P3.68**  
Florian Pschenitzka<sup>1</sup>, Rahul Gupta<sup>1</sup>, Karl Pichler<sup>1</sup>; <sup>1</sup>Cambrios Technologies Corporation
- 17:00 Preparation of ZnO@TiO<sub>2</sub> core-shell nanorods arrays and their application on dye-sensitive solar cells** **Q.P3.69**  
Beatriz Vessalli<sup>1</sup>, Talita Mazon<sup>1</sup>; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer
- 17:00 Morphological study of PFO-DBT and fullerene derivative bulk heterojunction solar cells** **Q.P3.70**  
Nicholas Ercolano Monteiro<sup>1</sup>, Camilla K.B.Q.M Oliveira<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Universidade Federal de Paraná
- 17:00 Free lead ferroelectric ceramic systems: strontium potassium niobate modified with B<sub>2</sub>O<sub>3</sub> and CuO:B<sub>2</sub>O<sub>3</sub> rasion as potential candidate for renewable energy technology** **Q.P3.71**  
Lais Pacheco Caminata<sup>1</sup>, Delia do Carmo Vieira<sup>1</sup>, Alessandra Stevanato<sup>1</sup>, Sidney Alves Lourenço<sup>1</sup>, Antonio C. C. Migliano<sup>2</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná, <sup>2</sup>Instituto de Estudos Avançados
- 17:00 Dye-sensitized PET solar cells composed by ZnO with different synthetic and natural dyes** **Q.P3.72**  
Icoana Lais Leitão Mascarenhas Martins<sup>1</sup>, Renata Cardoso Roncoleta<sup>1</sup>, Pedro Henrique de Oliveira Nogueira<sup>1</sup>, Glécia Virgolino da Silva Luz<sup>1</sup>, Pilar Hidalgo Falla<sup>1</sup>, Caio Cesar Arneiro<sup>1</sup>, Fabio Telles Simões<sup>1</sup>; <sup>1</sup>Universidade de Brasília

- 17:00 Perovskite solar cells with an electron transport material based on TiO<sub>2</sub> nanotubes** **Q.P3.73**  
Jhon Alexander Peñafiel<sup>1</sup>, Rodrigo Szostak<sup>2</sup>, Ana Flávia Nogueira<sup>2</sup>, Celia de Fraga Malfatti<sup>1</sup>, Antonio Marcos Helgueira de Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Universidade Estadual de Campinas
- 17:00 Investigation of pinholes in TiO<sub>2</sub> films prepared by cathodic electrosynthesis using cyclic voltammetry** **Q.P3.74**  
Rafael Bento Serpa<sup>1</sup>, Nicolle Ruppenthal<sup>1</sup>, Françoise Toledo Reis<sup>1</sup>, Maria Luisa Sartorelli<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 First Principles Study of Nickel complex with 1,3-dithiole-2-thione-4,5-dithiolate ligands as Model Photosensitizers** **Q.P3.75**  
Lilian Weitzel Coelho Paes<sup>1</sup>, Javier Amaya Suárez<sup>2</sup>, Javier Fdez. Sanz<sup>2</sup>, Antonio M Márquez<sup>2</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Universidad de Sevilla
- 17:00 Niobium pentoxide as an electron transporting material in planar perovskite solar cells** **Q.P3.76**  
Jhon Alexander Peñafiel<sup>1</sup>, Rodrigo Szostak<sup>2</sup>, Ana Flávia Nogueira<sup>2</sup>, Celia de Fraga Malfatti<sup>1</sup>, Antonio Marcos Helgueira de Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Universidade Estadual de Campinas
- 17:00 Titanium dioxide hollow spheres for hybrid solar cells** **Q.P3.77**  
Flávio Santos Freitas<sup>1</sup>, Iêda Maria Rodrigues Teixeira<sup>1</sup>, Marcia Queiroz Andrade<sup>1</sup>; <sup>1</sup>Instituto Federal do Sul de Minas Gerais
- 17:00 Degradation Evaluation of Photovoltaic Modules and Systems Installed in Minas Gerais - Brasil** **Q.P3.78**  
Antonia Sonia Alves Cardoso Diniz, Denio Alves Cassini, Marcelo Machado Viana, Cristiana Brasil Maia, Lawrence Lee Kazmerski, Thiago Almeida Silverio, Francisco Hering, Suellen C. S. Costa, Thiago Almeida Silverio



## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session R.OR1 (08:30 - 10:50) - Room 11

- 08:30 Welcome** R.OR1.1  
Fernando A. Castro<sup>1</sup>; <sup>1</sup>National Physical Laboratory
- 08:40 Clasification of degradation mechanisms in printed PV - from photodegradation to microstructure ageing to interface failure** R.OR1.2\*  
Christoph Brabec<sup>1</sup>; <sup>1</sup>University of Erlangen-Nuremberg
- 09:05 Impact of morphology evolution on contact selectivity of organic photovoltaics** R.OR1.3\*  
Antonio Guerrero<sup>1</sup>; <sup>1</sup>Institute of Advanced Materials (INAM), Universitat Jaume I, 12071 Castelló
- 09:30 Intrinsic photostability of polymer-based OPV: dependence on polymer structure and the presence of additives** R.OR1.4\*  
 Bertrand Tremolet de Villers<sup>1</sup>, Zbyslaw Owczarczyk<sup>1</sup>, Wade Braunecker<sup>1</sup>, Dana Olson<sup>1</sup>, Nikos Kopidakis<sup>1</sup>; <sup>1</sup>National Renewable Energy Laboratory
- 09:55 Full-solution processed organic solar cells applying semiconductor oxides as interlayers: stability issues at interfaces** R.OR1.5\*  
Monica Lira-Cantu<sup>1</sup>; <sup>1</sup>Catalan Institute of Nanoscience and Nanotechnology
- 10:20 Accelerated stability tests of large-scale fast manufactured vacuum- and ITO-free devices with different electrodes** R.OR1.6  
Gisele Alves dos Reis Benatto<sup>1</sup>, Michael Corazza<sup>1</sup>, Bérenger Roth<sup>1</sup>, Suren Gevorgyan<sup>1</sup>, Frederik C. Krebs<sup>1</sup>; <sup>1</sup>Technical University of Denmark / Danmarks Tekniske Universitet
- 10:35 Slowing down thermal degradation of high-efficiency polymer-fullerene solar cells using ZnO interfacial layers** R.OR1.7  
 Sadok Ben Dkhil<sup>1</sup>, Martin Pfannmöller<sup>2</sup>, Yahia Didane<sup>1</sup>, Nori Yoshimoto<sup>3</sup>, Olivier Margeat<sup>1</sup>, Sara Bals<sup>2</sup>, Jörg Ackermann<sup>1</sup>, Christine Videlot-Ackermann<sup>1</sup>; <sup>1</sup>Aix-Marseille University, Centre Interdisciplinaire de Nanosciences de Marseille CINA-M, UMR CNRS 7325, <sup>2</sup>Electron Microscopy for Materials Research (EMAT), University of Antwerp, Groenenborgerlaan 171, 2020 Antwerp, <sup>3</sup>Department of Materials Science and Engineering, Iwate University, Ueda Morioka 020-8551, Japan

#### Session R.OR2 (11:20 - 12:50) - Room 11

- 11:20 Generic, accurate annual yield calculation for PV modules based on fingerprint method** R.OR2.8\*  
 Nico Dekker<sup>1</sup>, Mark Jansen<sup>1</sup>, Wilma Eerenstein<sup>1</sup>, Jan Kroon<sup>1</sup>, Sjoerd Veenstra<sup>1,2</sup>; <sup>1</sup>Energy Research Centre of the Netherlands, <sup>2</sup>Solliance
- 11:45 Economic and environmental assessment of OPV technology: impact of module lifetime** R.OR2.9\*  
Philip Sandwell<sup>1</sup>, Ajay Gambhir<sup>1</sup>, Christopher Emmott<sup>1</sup>, Lukas Lukoschek<sup>2</sup>, Ned Ekins-Daukes<sup>1</sup>, Jenny Nelson<sup>1</sup>; <sup>1</sup>Imperial College London, <sup>2</sup>MeshPower Ltd
- 12:10 Lifetime of Organic Photovoltaics: Status and Predictions** R.OR2.10\*  
Suren Gevorgyan<sup>1</sup>; <sup>1</sup>Technical University of Denmark / Danmarks Tekniske Universitet
- 12:35 Data evolution and statistical methods in the analysis of the stability of dye solar cells** R.OR2.11  
Armi Tiihonen<sup>1</sup>, Kati Miettunen<sup>1</sup>, Janne Halme<sup>1</sup>, Peter Lund<sup>1</sup>; <sup>1</sup>Aalto University / Aalto-yliopisto

#### Session R.OR3 (14:10 - 16:30) - Room 11

- 14:10 Highly Efficient, Stable, and Printable Polymer Solar Cell Modules** R.OR3.12\*  
Kwanghee Lee<sup>1</sup>; <sup>1</sup>Gwangju Institute of Science & Technology
- 14:35 Solution processing of the electrodes for Organic and Hybrid solar cells** R.OR3.13\*  
Yulia Galagan<sup>1</sup>; <sup>1</sup>Holst Centre

- 15:00 Identifying the Natures of Optical Transitions in Donor-Acceptor Copolymers and Their Impact on Photostability.** **R.OR3.14\***  
 Ji-Seon Kim<sup>1</sup>; <sup>1</sup>Imperial College
- 15:25 Photodegradation of PCBM and its impact on polymer-based solar cells** **R.OR3.15\***  
 Ellen Moons, Leif Ericsson, Rickard Hansson, Camilla Lindqvist, Iulia Brumboiu, Barbara Brena
- 15:50 Electronic Structure, Molecular Orientation, Charge Transfer Dynamics and Solar Cells Performance in Donor/Acceptor Copolymers and Fullerene** **R.OR3.16\***  
 Maria Luiza Miranda Rocco<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 16:15 \*\*\* CANCELLED \*\*\* Toward Better Morphological Stability of Organic BHJ Solar Cells** **R.OR3.17**  
 Zhe Li<sup>1</sup>; <sup>1</sup>Swansea University

## Poster presentations

### Session R.P1 (17:00 - 19:00)

- 17:00 Stability Study of Spray- and Slot-die-coated Polymer Solar Cells and Modules** **R.P1.1**  
 Yu-Ching Huang<sup>1</sup>, Hou-Chin Cha<sup>1</sup>, De-Han Lu<sup>1</sup>, Cheng-Wei Chou<sup>1</sup>, Chia-Te Yen<sup>1</sup>, Chih-Min Chuang<sup>1</sup>, Charn-Ying Chen<sup>1</sup>, Cheng-Si Tsao<sup>1</sup>; <sup>1</sup>Institute of Nuclear Energy Research
- 17:00 Application of Fe-doped SnO<sub>2</sub> nanoparticles in organic solar cells with enhanced stability** **R.P1.2**  
 Maurício Sousa Pereira<sup>1</sup>, Francisco Anderson de Sousa Lima<sup>1,2</sup>, Thiago Soares Ribeiro<sup>1</sup>, Eduardo Bedê Barros<sup>1</sup>, Rodrigo Queiros Almeida<sup>1</sup>, Igor Frota de Vasconcelos<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Universitat Autònoma de Barcelona
- 17:00 Advanced characterisation of stability of organic photovoltaics under well controlled atmospheres** **R.P1.3**  
 James C. Blakesley<sup>1</sup>, George F. A. Dibb<sup>1</sup>, Fernando A. Castro<sup>1</sup>; <sup>1</sup>National Physical Laboratory
- 17:00 Photooxidation studies on materials in the active layer of organic photovoltaic cells** **R.P1.4**  
 Shogo Yamane<sup>1</sup>, Junji Mizukado<sup>1</sup>, Liang Chen<sup>1</sup>, Tadafumi Uchimaru<sup>1</sup>, Yasumasa Suzuki<sup>1</sup>, Hiroyuki Suda<sup>1</sup>; <sup>1</sup>National Institute of Advanced Industrial Science and Technology
- 17:00 Role of interfacial buffer layers and fullerenes in high-temperature ultra-stable high-efficiency polymer-fullerene solar cells** **R.P1.5**  
 Sadok Ben Dkhil<sup>1</sup>, Martin Pfanmüller<sup>2</sup>, Maria Ilenia Saba<sup>3</sup>, Yahia Didane<sup>1</sup>, Christine Videlot-Ackermann<sup>1</sup>, Olivier Margeat<sup>1</sup>, Antonio Guerrero<sup>4</sup>, Juan Bisquert<sup>4</sup>, Germà Garcia-Belmonte<sup>4</sup>, Sara Bals<sup>2</sup>, Alessandro Mattoni, Jörg Ackermann<sup>1</sup>; <sup>1</sup>Aix-Marseille University, Centre Interdisciplinaire de Nanosciences de Marseille CINaM, UMR CNRS 7325, <sup>2</sup>Electron Microscopy for Materials Research (EMAT), University of Antwerp, Groenenborgerlaan 171, 2020 Antwerp, <sup>3</sup>Istituto per l'Officina dei Materiali (CNR-IOM), UOS Cagliari SLACS, Cittadella Universitaria, I-09042 Monserrato (Ca), Italy., <sup>4</sup>Photovoltaics and Optoelectronic Devices Group, Departament de Física, Universitat Jaume I, 12071 Castelló, Spain
- 17:00 Dye Sensitized Solar Cells (DSSC) employing vegetal Amazon pigments** **R.P1.6**  
 Andrey Marcos Pinho da Silva<sup>1</sup>, Raimundo Ribeiro Passos<sup>1</sup>, Walter Ricardo Brito<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas

## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session R.OR4 (08:30 - 10:50) - Room 11

- 08:30 Development and durability testing of organic photovoltaic modules** **R.OR4.18\***  
Takeshi Gotanda<sup>1</sup>, Haruhi Oooka<sup>1</sup>, Hideyuki Nakao<sup>1</sup>, Atsuko Iida<sup>1</sup>, Hyangmi Jung<sup>1</sup>, Shigehiko mori<sup>1</sup>, Akihiro Matsui<sup>1</sup>, Yoshihiko Nakano<sup>1</sup>, Mitsunaga Saito<sup>1</sup>, Kenji Todor<sup>1</sup>, Masahiro Hosoya<sup>1</sup>; <sup>1</sup>Toshiba
- 08:55 Efficiency and Lifetime of Small-Molecules OPV from Lab to Fab** **R.OR4.19\***  
Toni Mueller, Christian Uhrich, Martin Hermenau, Martin Pfeiffer
- 09:20 Stability of large-area, roll-to-roll printed OPV** **R.OR4.20\***  
David James<sup>1</sup>, Grzegorz A Potoczny<sup>1</sup>, Jeferson Freitas<sup>1</sup>, Tatiana Augusto<sup>1</sup>, Sergio Lopera<sup>1</sup>, Vinicius R Zanchin<sup>1</sup>, Erika Gyorvary<sup>1</sup>, Diego Bagnis<sup>1</sup>; <sup>1</sup>Centro de Inovações CSEM Brasil
- 09:45 High efficiency polymer semiconductors for organic photovoltaics with improved stability** **R.OR4.21\***  
Nico Seidler<sup>1</sup>, Stephane Berny<sup>1</sup>, Priti Tiwana<sup>1</sup>, Graham Morse<sup>1</sup>, Michal Krompiec<sup>1</sup>, Agnieszka Pron<sup>1</sup>, Lana Nanson<sup>1</sup>, Owen Lozman<sup>1</sup>; <sup>1</sup>Merck Chemicals Ltd.
- 10:10 Insights from Advanced Characterization and Modeling of Organic and Perovskite Solar Cells** **R.OR4.22\***  
Beat Ruhstaller<sup>1,2</sup>, Martin Neukom<sup>1</sup>, Simon Züfle<sup>1,2</sup>, Stéphane Altazin<sup>1</sup>, Ursula Maria Mayer<sup>1,2</sup>; <sup>1</sup>Fluxim Inc., <sup>2</sup>Zurich Univ. of Applied Sciences
- 10:35 The impact of different organic solar cell architectures on the stability of encapsulation-less devices. An inside to intrinsic stability of polymers.** **R.OR4.23**  
Michail J. Beliatis<sup>1</sup>, Frederik C. Krebs<sup>1</sup>, Suren Gevorgyan<sup>1</sup>; <sup>1</sup>Technical University of Denmark / Danmarks Tekniske Universitet

#### Session R.OR5 (11:20 - 12:40) - Room 11

- 11:20 HOIP Solar Cells: Where are we, What do we need to do, What are alternatives?** **R.OR5.24\***  
David Samuel Ginley
- 11:45 Advances in Perovskite-Si photovoltaics** **R.OR5.25\***  
Edward Crossland<sup>1</sup>; <sup>1</sup>Oxford Photovoltaics
- 12:10 The effect of continuous manufacturing processes on the stability of perovskite solar cells** **R.OR5.26\***  
Trystan Watson, Francesca DeRossi, Tim Wilderspin, Alice Williams, Joel Troughton, Matthew Carnie, Cecile Charbonneau, Giovanni Cotella, Jenny Baker
- 12:35 Presentation of round table topics.** **R.OR5.27**  
Fernando A. Castro<sup>1</sup>; <sup>1</sup>National Physical Laboratory

#### Session R.OR6 (14:00 - 16:30) - Room 11

- 14:00 Stability issues pertaining large area dye-sensitized and perovskite photovoltaic devices** **R.OR6.28\***  
Thomas M. Brown<sup>1</sup>, Simone Mastroianni<sup>1</sup>, Francesca De Rossi<sup>1</sup>, Francesco Di Giacomo<sup>1</sup>, Girolamo Mincuzzi<sup>1</sup>, Giulia Lucarelli<sup>1</sup>, Andrea Reale<sup>1</sup>, Aldo Di Carlo<sup>1</sup>, John Fahlteich<sup>2</sup>, Azhar Fakharuddin<sup>3</sup>, Irfan Ahmed<sup>3</sup>, Rajan Jose<sup>3</sup>; <sup>1</sup>Università degli Studi di Roma Tor Vergata, <sup>2</sup>Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP, <sup>3</sup>Universiti Malaysia Pahang
- 14:25 Operando X-ray Diffraction of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Solar Cells** **R.OR6.29\***  
Michael Toney<sup>1</sup>, Kevin Stone<sup>1</sup>, Chris Tassone<sup>1</sup>, Laura Schelhas<sup>1</sup>, Karsten Bruening<sup>1</sup>, Vanessa L Pool<sup>1</sup>, Joey Luther<sup>2</sup>, Joe berry<sup>2</sup>, Kai Zhu<sup>2</sup>, Erin sanehira<sup>2</sup>; <sup>1</sup>SLAC National Accelerator Laboratory, <sup>2</sup>National Renewable Energy Laboratory
- 14:50 Device stability improvement of organic/perovskite solar cells by using metal oxide:conjugated polymer nanocomposite as electrode buffer layer** **R.OR6.30\***  
Chang-Qi Ma<sup>1</sup>; <sup>1</sup>Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences

- 15:15 Effect of Ambient Humidity on Structure and Performance of Large-Area Perovskite Solar Cells Produced Using the Mixed Halide Method** **R.OR6.31**  
Harry Cronin<sup>1,2</sup>, Imalka Jayawardena<sup>1</sup>, Zlatka Stoeva<sup>2</sup>, Maxim Shkunov<sup>1</sup>, S. Ravi P. Silva<sup>1</sup>; <sup>1</sup>University of Surrey, <sup>2</sup>DZP Technologies Ltd.
- 15:30 Parallel round tables.** **R.OR6.32**  
Fernando A. Castro<sup>1</sup>; <sup>1</sup>National Physical Laboratory

## Poster presentations

### Session R.P2 (17:00 - 19:00)

- 17:00 In-situ mechanical/electrical testing of transparent electrodes and operating flexible photovoltaics** **R.P2.7**  
Fernando A. Castro<sup>1</sup>, George F. A. Dibb<sup>1</sup>, Tony Maxwell<sup>1</sup>, Daniel Milano<sup>1</sup>; <sup>1</sup>National Physical Laboratory
- 17:00 Density functional theory study of the dipole across the a polymer:fullerene complex and fullerene anchored structure** **R.P2.8**  
Cleber Fabiano Marchiori<sup>1</sup>, Marlus Koehler<sup>1</sup>; <sup>1</sup>Federal University of Paraná
- 17:00 Morphological characterization of donor-acceptor heterojunction based on PSiF-DBT copolymer and C<sub>60</sub>** **R.P2.9**  
Cleber Fabiano Marchiori<sup>1</sup>, Natasha D.A. Yamamoto<sup>1</sup>, Carolina Ferreira de Matos<sup>1</sup>, Jiri Kujala<sup>2</sup>, Filip Tuomisto<sup>2</sup>, Aldo J.G. Zarbin<sup>1</sup>, Marlus Koehler<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Federal University of Paraná, <sup>2</sup>Aalto University / Aalto-yliopisto
- 17:00 Polyfullerenes for organic photovoltaic cells** **R.P2.10**  
 Hasina H. Ramanitra, Simon Dowland, Hugo Santos Silva, Aurelien Tournebize, Graham Morse, Didier Bégué, Luc Gardette, Heiko Peisert, Agnès Rivaton, Thomas Chassé, Andreas Distler, Roger C. Hiorns
- 17:00 Morphological Stability of organic bulk heterojunction devices: from donor-acceptor nanoparticles to fullerene anchored structures** **R.P2.11**  
Natasha Ariane Diniz Yamamoto<sup>1</sup>, Cleber Fabiano Marchiori<sup>1</sup>, Maria Luiza Miranda Rocco<sup>2</sup>, Marlus Koehler<sup>1</sup>, Lucimara Stolz Roman<sup>1</sup>; <sup>1</sup>Federal University of Paraná, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 17:00 Lifetime studies of OPV cells using the eutectic alloy Field's metal as cathode and PTB7:PC<sub>71</sub>BM as active layer** **R.P2.12**  
Mirna Denisse Barreiro<sup>1</sup>, Gabriel Ramos<sup>1</sup>, José Luis Maldonado<sup>1</sup>, Enrique Perez<sup>1</sup>; <sup>1</sup>Centro de Investigaciones en Óptica A. C.



## Thursday, October 1st

### Oral presentations

\* Invited Lecture

#### Session R.OR7 (08:30 - 10:45) - Room 11

- 08:30 Large Scale Manufacturing and Process of Printed OPVs Optimized by In-Line Optical Monitoring** **R.OR7.33\***  
Stergios Logothetidis<sup>1</sup>; <sup>1</sup>Aristotle University of Thessaloniki
- 08:55 Performance and stability in semi-transparent low band gap polymer cells** **R.OR7.34\***  
Jordi Martorell
- 09:20 Mechanical and environmental stability of OPV modules fabricated via R2R process** **R.OR7.35**  
Grzegorz A Potoczny<sup>1</sup>, David James<sup>1</sup>, Jeferson Freitas<sup>1</sup>, Sergio Lopera<sup>1</sup>, Tatiana Augusto<sup>1</sup>, Vinicius R Zanchin<sup>1</sup>, Ton Offermans<sup>2</sup>, Marek Chrapa<sup>2</sup>, Erika Gyoryvary<sup>2</sup>, Diego Bagnis<sup>1</sup>; <sup>1</sup>Centro de Inovações CSEM Brasil, <sup>2</sup>Centre Suisse d'Electronique et de Microtechnique
- 09:35 Operational Electrochemical Stability of New Thiophene-Thiazole Copolymers** **R.OR7.36**  
 Jessica Wade<sup>1</sup>, Daniel Beatrup<sup>1</sup>, Michael Hurhangee<sup>1</sup>, Hugo Bronstein<sup>1</sup>, Iain McCulloch<sup>1</sup>, James Durrant<sup>1</sup>, Sebastian Wood<sup>1</sup>, Ji-Seon Kim<sup>2</sup>; <sup>1</sup>Imperial College London, <sup>2</sup>Imperial College
- 09:50 Testing Delamination in OPV Devices: A Study of Materials influence on Mechanical Properties** **R.OR7.37**  
Christine Dagron-Lartigau<sup>1</sup>, Alberto Gregori<sup>1</sup>, Stefan Schumann<sup>2</sup>, Aurelien Tournebize<sup>3</sup>, Andreas Elschner<sup>2</sup>, Heiko Peisert<sup>3</sup>, Thomas Chassé<sup>3</sup>, Roger C. Hiorns<sup>1</sup>, Ahmed Allal<sup>1</sup>; <sup>1</sup>IPREM CNRS-UMR 5254, Pau university, <sup>2</sup>Heraeus Precious Metals GmbH, <sup>3</sup>Eberhard Karls Universität Tübingen
- 10:05 Degradation and mechanical properties of interfaces in organic photovoltaics** **R.OR7.38**  
Michael Corazza<sup>1</sup>, Nicholas Rolston<sup>2</sup>, Reinhold Horst Dauskardt<sup>2</sup>, Suren Gevorgyan<sup>1</sup>, Frederik C. Krebs<sup>1</sup>; <sup>1</sup>Technical University of Denmark / Danmarks Tekniske Universitet, <sup>2</sup>Stanford University
- 10:20 Effects of temperature and oxygen on P3HT:PCBM solar cells** **R.OR7.39\***  
Roberto Mendonça Faria<sup>1</sup>, Douglas J Coutinho<sup>1</sup>, Daniel Roger Amorim<sup>1</sup>, Gregório Couto Faria<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos/USP

#### Session R.OR8 (11:15 - 12:30) - Room 11

- 11:15 The effect of adding DMSO in the two-step method applied to perovskite solar cells** **R.OR8.40**  
 Rodrigo Szostak<sup>1</sup>, Ana Flávia Nogueira<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 11:30 Long-Term Stabilization of Organic Solar Cells by ternary blends with additives** **R.OR8.41**  
Vida Engmann<sup>1</sup>, Sebastian Engmann<sup>2</sup>, Nikos Tzierkezos<sup>3</sup>, Harald Hoppe<sup>3</sup>, Morten Madsen<sup>1</sup>, Horst-Günter Rubahn<sup>1</sup>, Uwe Ritter<sup>3</sup>, Gerhard Gobsch<sup>3</sup>; <sup>1</sup>University of Southern Denmark / Syddansk Universitet, <sup>2</sup>National Institute of Standards and Technology, <sup>3</sup>Technische Universität Ilmenau
- 11:45 Chemical changes in PCPDTBT:PCBM solar cells using XPS and TOF-SIMS and use of inverted device structure for improving lifetime performance** **R.OR8.42**  
Jeff Kettle<sup>1</sup>, Huw Waters<sup>1</sup>, Ziqian Ding<sup>1</sup>, Masaki Horie<sup>2</sup>, Graham Smith<sup>3</sup>; <sup>1</sup>Bangor University, <sup>2</sup>National Tsing Hua University Taiwan, <sup>3</sup>University of Chester
- 12:00 Summary from Round Table discussions.** **R.OR8.43**  
Fernando A. Castro<sup>1</sup>; <sup>1</sup>National Physical Laboratory
- 12:15 Closing remarks and announcement of ISOS-9** **R.OR8.44**  
Fernando A. Castro<sup>1</sup>; <sup>1</sup>National Physical Laboratory



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session S.OR1 (09:45 - 10:45) - Room L2

- 09:45 Critical materials for energy and sustainable development** S.OR1.1\*  
Alan J Hurd<sup>1</sup>; <sup>1</sup>Los Alamos National Laboratory
- 10:15 Characterization of Hard Disks Drives for Comparison and Evaluation of Perspectives in Recycling of Electronics in Brazil** S.OR1.2  
Selene Javimczik<sup>1</sup>; Hugo Marcelo Veit<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 10:30 ZnO/clay nanohybrids for biodiesel production using heterogeneous catalysis** S.OR1.3  
 Ana Flávia Felix Farias<sup>1</sup>, Ana Rita Ferreira Alves Teixeira<sup>1</sup>, Jakeline Daniela Soares da Silva Nascimento<sup>2</sup>, ADRIANA ALMEIDA CUTRIM<sup>3</sup>, Maria Gardennia Fonseca<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Liliana de Fatima Bezerra Lira de Pontes<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Bentonisa do Nordeste S.A, <sup>3</sup>Universidade Federal de Campina Grande

#### Session S.OR2 (11:15 - 12:30) - Room L2

- 11:15 Colloidal Heterostructures of Nb<sub>2</sub>O<sub>5</sub>/SnO<sub>2</sub> for Heterogeneous Photocatalysis** S.OR2.4  
Fernando Barbosa de Freitas Silva<sup>1</sup>, Osmando Ferreira Lopes<sup>1</sup>, Cauê Ribeiro Oliveira<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 11:30 Different viewpoints on sustainability: evaluating a super-efficient solar home in terms of energy or materials or economics** S.OR2.5\*  
John Robert Abelson<sup>1</sup>; <sup>1</sup>University of Illinois Urbana Champaign
- 12:00 \*\*\* CANCELLED \*\*\* Materials Research in Support of Nuclear Electricity Generation for a Sustainable Energy Alternative** S.OR2.6\*  
Grace Burke<sup>1</sup>, Michael A Burke<sup>2</sup>; <sup>1</sup>University of Manchester, <sup>2</sup>Westinghouse Electric Corporation

#### Session S.OR3 (14:00 - 15:15) - Room L2

- 14:00 Obtainment and characterization of a new polymer formulation based on sodium alginate and fish scales suitable for extended release of herbicides.** S.OR3.7  
Daniel Muniz Oliveira<sup>1</sup>, Eunice Fragoso da Silva Vieira<sup>1</sup>, Antonio Reinaldo Cestari<sup>1</sup>, Gracy Karla da Rocha Cortes<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe
- 14:15 Synthesis of nanostructured materials for the treatment of textileindustry water residues** S.OR3.8  
Ana Cláudia Araújo<sup>1</sup>, Anderson Felipe Viana da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal Rural de Pernambuco
- 14:30 Nanorods of Akaganeite(β-FeOOH): Synthesis, Characterization and study of Arsenic adsorption** S.OR3.9  
 Rosana Rocha Cunha, Gabriela Cordeiro Silva, Nathália Rodrigues Oliveira<sup>1</sup>, Angela Mello Ferreira<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais
- 14:45 Development of polymeric sustainable materials using nanotechnology** S.OR3.10\*  
Luiz Henrique Capparelli Mattoso<sup>1</sup>, Caio Gomide Otoni<sup>1</sup>, Marcos Vinicius Lorevice<sup>1</sup>, Francys Kley Vieira Moreira<sup>1</sup>, José Manoel Marconcini<sup>1</sup>, Cauê Ribeiro Oliveira<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação

### Poster presentations

#### Session S.P1 (17:00 - 19:00)

- 17:00 ZnCo ELECTRODEPOSITION WITH CERIUM CONVERSION TREATMENT** S.P1.1  
Larissa Souza Espírito Santo<sup>1</sup>, Marcella Ferraz Guedes<sup>1</sup>, Vinicius Pereira<sup>1</sup>, Célia Regina Tomachuk<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo

- 17:00 Controlled release of N-source fertilizers by natural oil-based Poly(Urethane) coatings: on the kinetic aspects of urea release** S.P1.2  
Ricardo Bortoletto-Santos<sup>1,2</sup>, Cauê Ribeiro Oliveira<sup>3</sup>, Wagner Luiz Polito<sup>2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>São Carlos Institute of Chemistry, <sup>3</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 17:00 Improving the mechanical properties of corn starch-based biocomposites with curauá fiber reinforcing agent** S.P1.3  
Denise Maria Lenz<sup>1</sup>, Douglas Milan Tedesco<sup>1</sup>; <sup>1</sup>Universidade Luterana do Brasil
- 17:00 Influence of sodium sources on the obtaining of sodium-β"-alumina electrolytes** S.P1.4  
Daisy Catharina Rodrigues<sup>1</sup>, Dulcina Pinatti Ferreira de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Eco-cement - development of a chemical binder for use in construction.** S.P1.5  
Lidja Rosa Silva Santos<sup>1</sup>, Carlos Alberto Paskocimas<sup>2</sup>, Sancha Adélia de Lima Vale<sup>3</sup>, Marcio Luiz Varela Nogueira de Moraes<sup>3</sup>; <sup>1</sup>State University of Paraíba, <sup>2</sup>Federal University of Rio Grande do Norte, <sup>3</sup>Federal Institute of Education, Science and Technology of Rio Grande do Norte
- 17:00 Comparison of efficiency between cocoa bark extract and benzotriazol as corrosion inhibitor of carbon steel in acid medium** S.P1.6  
Lhaira Souza Barreto<sup>1</sup>, Djoille Denner Damm<sup>1</sup>, Miriam Sanae Tokumoto<sup>1</sup>, Isabel Correia Guedes<sup>2</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade de São Paulo
- 17:00 Vibrational study of Copaiba oleoresin by FTIR spectroscopy** S.P1.7  
Luciena dos Santos Ferreira<sup>1</sup>, Manoel Roberval Pimentel Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Oeste do Pará
- 17:00 Characterization of tailings iron ore beneficiation in ultrafine tracks before and after heat treatment.** S.P1.8  
Leandra Carla Aparecida Cordeiro<sup>1</sup>, Fernando Gabriel da Silva Araújo, Jefferson Januário Mendes<sup>2</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais
- 17:00 Preparation and physical/thermal characterization of modified corn starch film** S.P1.9  
Mayra Cristina Silva Pereira<sup>1</sup>, Karina Silva Chaves<sup>1</sup>, Ricardo Stefani<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso
- 17:00 Super hydrophobic surface for sustainable development from nanocomposite of zinc oxide / polystyrene.** S.P1.10  
Carla Regina Ferreira<sup>1</sup>, Claudinei Rezende Calado<sup>1</sup>, Amanda De Assis Alves Loures<sup>1</sup>, Fernanda Cândido França<sup>1</sup>, Eliane Ayres<sup>2</sup>, Rodrigo Lambert Oréface<sup>3</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais, <sup>2</sup>Universidade do Estado de Minas Gerais, <sup>3</sup>Universidade Federal de Minas Gerais
- 17:00 Synthesis, evaluation and characterization of Cu-BTC and Fe-BTC for hydrogen storage and carbon dioxide capture** S.P1.11  
Neil Torres-Figueroa<sup>1</sup>, Jade Alejandrina Galicia-Apolinar<sup>2</sup>, Miguel Angel Oliver-Tolentino<sup>1</sup>, Edilso Reguera<sup>1</sup>, Adela Lemus-Santana<sup>1</sup>, Luis Felipe Desdín-García<sup>3</sup>; <sup>1</sup>Instituto Politécnico Nacional, <sup>2</sup>Universidad del Papaloapan, <sup>3</sup>Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear
- 17:00 Effect of diffusion of Cs<sup>+</sup> on the insertion/desertion of Na<sup>+</sup> inside of Copper Hexacyanoferrate like materials.** S.P1.12  
Miguel Angel Oliver-Tolentino<sup>1</sup>, Juvencio Vazquez-Samperio<sup>1</sup>, Ariel Guzmán-Vargas<sup>1</sup>, Edilso Reguera<sup>1</sup>; <sup>1</sup>Instituto Politécnico Nacional
- 17:00 Study and structural characterization of ecological bricks from the materials recyclable aiming for a sustainable housing** S.P1.13  
Maria Eunice Carvalho Tosello<sup>1</sup>, Rebeca Delatore Simões<sup>1</sup>; <sup>1</sup>Universidade do Oeste Paulista
- 17:00 Composites of Rubber wastes of the retreading industry with different polyester matrix** S.P1.14  
FABIO SANTOS DE SOUSA<sup>1</sup>, Edwillson Gonçalves de Oliveira Filho<sup>1</sup>, Iara Ferreira Santos<sup>1</sup>, Tamires Isabela Botelho<sup>1</sup>, Jair Francisco Souza Magalhães<sup>1</sup>, Diego Nery Rodrigues<sup>1</sup>, Valbenilton Pereira de Souza<sup>1</sup>, Roberto Tetsuo Fujiyama<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Influence of Coconut Fiber Length in Matrix Polyester Composites** S.P1.15  
Tamires Isabela Botelho<sup>1</sup>, Jair Francisco Souza Magalhães<sup>1</sup>, Iara Ferreira Santos<sup>1</sup>, FABIO SANTOS DE SOUSA<sup>1</sup>, Edwillson Gonçalves de Oliveira Filho<sup>1</sup>, Diego Nery Rodrigues<sup>1</sup>, Valbenilton Pereira de Souza<sup>1</sup>, Roberto Tetsuo Fujiyama<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Ornamental rocks residue and jute fiber in different polyester matrix: isophthalic and terephthalic** S.P1.16  
Diego Nery Rodrigues<sup>1</sup>, Iara Ferreira Santos<sup>1</sup>, FABIO SANTOS DE SOUSA<sup>1</sup>, Jair Francisco Souza Magalhães<sup>1</sup>, Edwillson Gonçalves de Oliveira Filho<sup>1</sup>, Valbenilton Pereira de Souza<sup>1</sup>, Tamires Isabela Botelho<sup>1</sup>, Roberto Tetsuo Fujiyama<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará

- 17:00 Studies of the effect of basalt powder incorporation in structural ceramic formulations** **S.P1.17**  
Fiana Gomes da costa<sup>1</sup>, Mario Andreato Macedo Castro<sup>1</sup>, Danilo Marciano da Silva Santos<sup>1</sup>, Elias Fagury Neto<sup>1</sup>, Adriano Alves Rabelo<sup>1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará
- 17:00 The role of hexafluorozirconate in the formation of chromate conversion coatings on electrogalvanized steel** **S.P1.18**  
 Luiza de Almeida Sonnenhohl<sup>1</sup>, Amrita Kaur Khalsa Colognesi Lopes<sup>1</sup>, Célia Regina Tomachuk<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 Spinel mixed oxide as heterogeneous catalytic materials in biodiesel production from waste oils and fats.** **S.P1.19**  
Neyda de la Caridad Om Tapanes<sup>1</sup>, Donato Alexandre Gomes Aranda<sup>2</sup>, Maria Iaponeide Fernandes<sup>1</sup>, Yordanka Reytez Cruz<sup>2</sup>, Rodolfo Salazar Perez<sup>2</sup>, Nathalia Cerqueira da Silva<sup>1</sup>; <sup>1</sup>Universidade Estadual da Zona Oeste,<sup>2</sup>Universidade Federal do Rio de Janeiro
- 17:00 Sustainable Material for Removal of Dyes from Aqueous Systems** **S.P1.20**  
Paloma Bispo Coelho<sup>1</sup>, Edson da Silva Reis<sup>2,3</sup>, Walter Raysth Martínez<sup>2</sup>, Débora Carvalho Dos Anjos<sup>1</sup>; <sup>1</sup>IF Sertão Pernambucano/Campus Petrolina, <sup>2</sup>Universidade Federal de Pernambuco, <sup>3</sup>IF Sertão Pernambucano/ Campus Ouricuri
- 17:00 Composite polyester with mineral product waste load: ornamental rocks and copper** **S.P1.21**  
Iara Ferreira Santos<sup>1</sup>, Valbenilton Pereira de Souza<sup>1</sup>, Diego Nery Rodrigues<sup>1</sup>, FABIO SANTOS DE SOUSA<sup>1</sup>, Jair Francisco Souza Magalhães<sup>1</sup>, Edwillson Gonçalves de Oliveira Filho<sup>1</sup>, Tamires Isabela Botelho<sup>1</sup>, Roberto Tetsuo Fujiyama<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Characteristics of pectin and pva film incorporated with vegetal extract for application in intelligent food packaging** **S.P1.22**  
 Karina Silva Chaves<sup>1</sup>, Rogerio Barbosa da Silva<sup>1</sup>, Mayra Cristina Silva Pereira<sup>1</sup>, Keyle Torres Guedes<sup>1</sup>, Bianca Dias Alves<sup>1</sup>, Ricardo Stefani<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso
- 17:00 Experiment using aisi dwi steel from soft drink cans as electrode in water electrolysis** **S.P1.23**  
Robson Guimarães Sanabio<sup>1</sup>, Rachel Barros Sanabio<sup>2</sup>, Valter Bezerra Dantas Dantas<sup>3</sup>, Isaac Pericles Maia Medeiros<sup>3</sup>, Thiago Chellappa<sup>3</sup>; <sup>1</sup>Universidade Estadual do Ceará, <sup>2</sup>Universidade Federal do Ceará, <sup>3</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Study of the degradability of polyamide 6/green polyethylene blends** **S.P1.24**  
Geruza Rafaela de Oliveira<sup>1</sup>, Layse Mendes Diniz<sup>1</sup>, Amanda Melissa Damião Leite<sup>1</sup>; <sup>1</sup>Universidade Federal de Campina Grande
- 17:00 Independent binding properties of ground cooled arcelor mittal temirtau converter slag** **S.P1.25**  
Vsevolod Myrmine<sup>1</sup>, Kirill Alekseev<sup>1</sup>, Yelaman Aibuldinov<sup>2</sup>, Nuraly Bekturganov<sup>2</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná, <sup>2</sup>PARASAT
- 17:00 Nanocomposites of recycled polycarbonate/nano-zinc oxide (rPC/nZnO): Effect of nanofiller and gamma-radiation on the properties and barrier against ultraviolet light** **S.P1.26**  
Ana Luiza Fonseca Carvalho, Luis Claudio Mendes, Sibeles Cestari, Mauro C Souza
- 17:00 Evaluation thermal of formulations engobes ceramic with added tailings marble.** **S.P1.27**  
Elione Moura Carlos<sup>1</sup>, Raimison Bezerra de Assis<sup>2</sup>, TATIANE POTIGUARA OLIVEIRA<sup>1</sup>, Renata Ferreira Sousa<sup>1</sup>, jose ubiragi lima mendes<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>INSTITUTO FEDERAL DA BAHIA
- 17:00 Assessment of the Concrete Dimensional Stability when using Civil Construction Waste as coarse aggregates** **S.P1.28**  
Wivyan Castro Lage<sup>1</sup>, Carlos Augusto de Souza Oliveira<sup>1</sup>, Sérgio Pacifico Soncim<sup>1</sup>, Cláudio Ermani Martins Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Composite of kaolin waste with sisal fiber: evaluation of mechanical properties thermal and morphological** **S.P1.29**  
Deibson Silva da Costa<sup>1</sup>, Wassim Raja El Banna<sup>1</sup>, Denilson da Silva Costa<sup>2</sup>, Raimunda Figueiredo da Silva Maia<sup>1</sup>, Carolina Almeida de Lima<sup>1</sup>, Hugo Costa Moreira<sup>1</sup>, EVERALDO AFONSO FERNANDES<sup>1</sup>, José Antonio da Silva Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Universidade Federal do Sul e Sudeste do Pará
- 17:00 Pretreatment for water hyacinth biomass from ethanol 2G production** **S.P1.30**  
 Giovana Roberta Francisco Bronzato<sup>1</sup>, Sabrina Martina Ziegler<sup>2</sup>, Rita de Cássia da Silva<sup>1</sup>, Ivana Cesarino<sup>1</sup>, Alcides Lopes Leao<sup>1</sup>; <sup>1</sup>Faculdade Ciências Agrômicas-UNESP, <sup>2</sup>UNIVERSITÄT HOHENHEIM
- 17:00 Waste of red mud and fiber jute in polymeric composite** **S.P1.31**  
Deibson Silva da Costa<sup>1</sup>, Wassim Raja El Banna<sup>1</sup>, Raimunda Figueiredo da Silva Maia<sup>1</sup>, Hugo Costa Moreira<sup>1</sup>, Vinicius Rodrigues Pimentel<sup>1</sup>, Denilson da Silva Costa<sup>2</sup>, Mauro Quaresma Lobato<sup>1</sup>, José Antonio da Silva Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Universidade Federal do Sul e Sudeste do Pará

- 17:00 Molecular Interactions of adsorbed Malonic Acid on Zinc Surfaces** **S.P1.32**  
 José Mário Ferreira Júnior<sup>1</sup>, Célia Regina Tomachuk<sup>2</sup>, Isolda Costa<sup>1</sup>, Jesualdo Luiz Rossi<sup>1</sup>, Mark Alan Baker<sup>3</sup>; <sup>1</sup>Instituto de Perquisas Energéticas e Nucleares, <sup>2</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>3</sup>University of Surrey
- 17:00 Leaching of oxidized copper ore from the Sossego mine (Canaã of Carajás)** **S.P1.33**  
 LORENA MONIQUE MELO<sup>1</sup>, YANN VIDAL PEREZ<sup>1</sup>, GÉSSICA PADILHA DE SOUZA<sup>1</sup>, EDILEIDE ALVES DOS SANTOS<sup>1</sup>, Wilker Costa de Oliveira<sup>1</sup>, RAULIM DE OLIVEIRA GALVÃO<sup>1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará
- 17:00 Analysis of thermal degradation by FT-IR of polyurethane derived from castor oil used as insulation** **S.P1.34**  
Giuliana Ribeiro Protzek<sup>1</sup>, Bruna Santos de Macedo<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Development and appraisalment of physical mechanical and durability properties of ecological bricks** **S.P1.35**  
Bianca Groner Queiroz<sup>1</sup>, Sérgio Pacífico Soncim<sup>1</sup>, Carlos Augusto de Souza Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Performance assessment of plaster waste for wall coatings** **S.P1.36**  
 Thiago Delgado de Souza<sup>1</sup>, Bianca Groner Queiroz<sup>1</sup>, Carlos Augusto de Souza Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Analysis of physical and mechanical performance of particleboard produced with leaves and twigs from the Araucaria** **S.P1.37**  
Lourenço Proença Ruivo<sup>1</sup>, Cristiane Inácio Campos<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Itapeva
- 17:00 Development of polystyrene blends based on industrial waste styrene-butadiene rubber (SBR)** **S.P1.38**  
Mirna Nunes Araújo<sup>1</sup>, Ana Maria Furtado de Sousa<sup>2</sup>, Elen Beatriz Pacheco<sup>1</sup>, Leila Yuan Visconte<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Thermal characterization of native starch and modified obtained from the residue of the agro-industrial processing of mango (Mangifera indica L.) Var.Ubá** **S.P1.39**  
Maria Helena Rocha Leão<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Particleboard Manufactured with Additions of Bracatinga in Different Percentages in the Internal Layer** **S.P1.40**  
Cristiane Inácio Campos<sup>1</sup>, Igor Belone<sup>1</sup>, Gustavo Ventorim<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Itapeva
- 17:00 Zn<sub>2</sub>(Sn,Ti)O<sub>4</sub> solid solution obtained by the modified-Pechini method applied in photodiscoloration of an azo dye** **S.P1.41**  
Jacqueline Morais da Costa<sup>1</sup>, Laís Chantele<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Ary da Silva Maia<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Márcia Rejane Santos da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Comparison of mechanical behavior of natural wood and fibers and polyurethane derived from castor oil composite** **S.P1.42**  
ariane mara bronkow<sup>1</sup>, Elaine Cristina Azevedo<sup>1</sup>, Eduardo Mauro Nascimento<sup>1</sup>, Salvador Claro Neto<sup>2</sup>, juliano Kosloski<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná, <sup>2</sup>São Carlos Institute of Chemistry
- 17:00 Characterization of interfacial adhesion between a polyester polymer terephthalic unsaturated and palm of stalk fibers derived from palm oil extraction process.** **S.P1.43**  
Edwillson Gonçalves de Oliveira Filho<sup>1</sup>, Jean Silva Rodrigues<sup>1</sup>; <sup>1</sup>Instituto Federal do Pará - Campus Belém

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session S.OR4 (09:45 - 10:45) - Room L2

- 09:45 Novel Semiconductors for Sustainable Solar Energy Technologies** **S.OR4.11\***  
Fernando A. Ponce<sup>1</sup>; <sup>1</sup>Arizona State University
- 10:15 Investigation of dynamic processes and nucleation effects in fast ion conducting NASICON glass ceramics using Solid-State NMR** **S.OR4.12**  
Carsten Doerenkamp<sup>1</sup>, Jana Christina Reisig<sup>1</sup>, Cornelia Anna Maria Schröder, Mirko Ruttner<sup>1</sup>, Ana Candida Martins Rodrigues<sup>2</sup>, Hellmut Eckert<sup>1,3</sup>; <sup>1</sup>Westfälische Wilhelms-Universität Münster, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Instituto de Física de São Carlos - USP
- 10:30 Role of active species on photodegradation of Remazol Golden Yellow textile dye employing SrSnO<sub>3</sub> and commercial TiO<sub>2</sub> (P25 Degussa) as photocatalysts** **S.OR4.13**  
Ana Rita Ferreira Alves Teixeira<sup>1</sup>, Alex de Meireles Neris<sup>1</sup>, Elson Longo<sup>2</sup>, José Rodrigues de Carvalho Filho<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Socrates Golzio dos Santos<sup>1</sup>, Valderi Duarte Leite<sup>3</sup>, Elaine Gurjão de Oliveira<sup>3</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Instituto de Química - UNESP Araraquara, <sup>3</sup>Universidade Estadual da Paraíba

#### Session S.OR5 (11:15 - 12:30) - Room L2

- 11:15 Nanoscale Chemical Analysis and Molecular Models of Soil Carbon found in Ancient Amazonian Anthrosols, a Key for Energy, Carbon Sequestration and Soil Fertility.** **S.OR5.14\***  
Braulio Soares Archanjo<sup>1</sup>, Joyce Rodrigues Araujo<sup>1</sup>, Alexander Silva<sup>1</sup>, Lídia Agata Sena, Erlon Henrique Martins Ferreira, Rodrigo B Capaz<sup>2</sup>, Daniel Lorscheitter Baptista<sup>3</sup>, Newton Falcão<sup>4</sup>, Jenaina Soares Ribeiro<sup>5</sup>, Luiz Gustavo Cancado<sup>5</sup>, Ado Jorio<sup>5</sup>, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Universidade Federal do Rio de Janeiro, <sup>3</sup>Universidade Federal do Rio Grande do Sul, <sup>4</sup>Instituto Nacional de Pesquisas da Amazônia, <sup>5</sup>Universidade Federal de Minas Gerais
- 11:45 Preparation of Activated Carbon from Black Wattle (Acacia Mearnsii) waste as material for cleaning polluted waters.** **S.OR5.15**  
Juliana Schultz<sup>1</sup>, Antonio Salvio Mangrich<sup>1,2</sup>, Laiéli dos Santos Munaretto<sup>1</sup>, Sidnei Antonio Pianaro<sup>3</sup>, Amanda Araujo França<sup>1</sup>, Estela Mari da Cunha Cardoso<sup>1</sup>, Tassyá Thaiza da Silva Matos<sup>1</sup>; <sup>1</sup>Universidade Federal de Paraná, <sup>2</sup>Instituto Nacional de Ciência e Tecnologia de Energia e Ambiente, <sup>3</sup>Universidade Estadual de Ponta Grossa
- 12:00 Artificial enzymes derived from a natural biopolymer and industrial waste** **S.OR5.16**  
Elisa S Orth<sup>1</sup>, José Guilherme Lopes Ferreira<sup>1</sup>, Valmir B Silva<sup>1</sup>, Camila Goulin<sup>1</sup>, Bruno Campos da Silva<sup>1</sup>, Aline Grein<sup>1</sup>, Fernanda Fogagnoli Simas Tosin<sup>1</sup>, Marco A. S. Oliveira<sup>1</sup>, Izabel Riegel Vidotti<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná
- 12:15 Bionanocomposites based on polysaccharides and layered double hydroxides** **S.OR5.17**  
Francys Kley Vieira Moreira<sup>1</sup>, Luiz Henrique Capparelli Mattoso<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação Agropecuária - São Carlos

#### Session S.OR6 (14:00 - 15:15) - Room L2

- 14:00 Reinforcing fibers from residues of agribusiness** **S.OR6.18\***  
José Roberto d'Almeida<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 14:45 Microtomography study of bamboo impregnated with silver nanoparticles** **S.OR6.19**  
Sidnei Paciornik<sup>1</sup>, Haimon Diniz Lopes Alves<sup>2</sup>, Marcos Henrique de Pinho Mauricio<sup>2</sup>, Omar Pandoli<sup>2</sup>, Khosrow Ghavami<sup>2</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro, <sup>2</sup>Pontifícia Universidade Católica do Rio de Janeiro
- 15:00 Comparative performance in fresh and hardened conventional mortars and containing CDW** **S.OR6.20**  
Gabriela Barbosa Bruno<sup>1</sup>, Evilane Cassia Farias<sup>1</sup>, Marcos Alyssandro Soares Anjos<sup>1</sup>, Aldemaykon Reis Melo<sup>1</sup>, Ayrton Wagner Barbosa Silva<sup>1</sup>, Igor Mauricio Paulino<sup>1</sup>, Luiza Gabriela Santos Medeiros<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte

## Poster presentations

### Session S.P2 (17:00 - 19:00)

- 17:00 Composites of branched PPy/TiO<sub>2</sub> applied in the photocatalytic degradation of rhodamine 6G** S.P2.44  
Patrícia Silva Oliveira<sup>1</sup>, Helinando Pequeno de Oliveira<sup>1</sup>; Fundação Universidade Federal do Vale do São Francisco
- 17:00 Effects of different solvents (ethanol methanol and isopropanol) on mechanical properties and water vapour permeability of zein-based films** S.P2.45  
Luana Gomes Cordeiro de Araújo<sup>1</sup>, Juliano Elvis Oliveira<sup>1</sup>, Eliton Souto Medeiros<sup>1</sup>, Bruno Alessandro Silva Guedes de Lima<sup>1</sup>, Meyson Cassio Nascimento<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Zein films incorporated with eugenol: i. mechanical properties by nanoindentation** S.P2.46  
Luana Gomes Cordeiro de Araújo<sup>1</sup>, Juliano Elvis Oliveira<sup>1</sup>, Eliton Souto Medeiros<sup>1</sup>, Bruno Alessandro Silva Guedes de Lima<sup>1</sup>, Meyson Cassio Nascimento<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 PRODUCTION OF SOIL-CEMENT BLOCKS SUSTAINABLE WITH PHASE CHANGE MATERIALS (PCMs)** S.P2.47  
Robson Guimarães Sanabio<sup>1</sup>, Valter Bezerra Dantas Dantas<sup>2</sup>, Uílame Umbelino Gomes<sup>2</sup>, Rachel Barros Sanabio<sup>3</sup>, Isaac Pericles Maia Medeiros<sup>2</sup>, Edmilson Pedreira dos Reis<sup>2</sup>; <sup>1</sup>Universidade Estadual do Ceará,<sup>2</sup>Universidade Federal do Rio Grande do Norte, <sup>3</sup>Universidade Federal do Ceará
- 17:00 Development of polyurethane composite and wood or electrical conduit residues** S.P2.48  
Rachel Faverzani Magnago<sup>1</sup>, Nicolli Dayane Müller<sup>1</sup>, LUCIANO DA SILVA<sup>2</sup>, Heloisa Regina Turatti Silva<sup>1</sup>, Paola Egert Ortiz<sup>1</sup>; <sup>1</sup>Universidade do Sul de Santa Catarina, <sup>2</sup>Universidade do Extremo Sul Catarinense
- 17:00 Gadolinium-doped ceria nanorods: investigation for hydrogen production for ethanol steam reform by different amount of dopant.** S.P2.49  
Murillo Henrique de Matos Rodrigues<sup>1</sup>, Rosana de Fátima Gonçalves<sup>2</sup>, Maria Rita de Cássia Santos<sup>1</sup>, Elson Longo<sup>3</sup>, Humberto Vieira Fajardo<sup>4</sup>, Mario Godinho Junior<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás, <sup>2</sup>Universidade Federal de São Paulo, <sup>3</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>4</sup>Universidade Federal de Ouro Preto
- 17:00 Characterization of composites made from polypropylene and furniture industry sawdust** S.P2.50  
José Cláudio Caraschi<sup>1</sup>, Felipe Augusto Santiago Hansted<sup>1</sup>, Alcides Lopes Leao<sup>2</sup>, Cristiane Inácio Campos<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>Universidade Estadual Paulista - FCA/Câmpus de Botucatu, <sup>3</sup>Universidade Estadual Paulista - Campus de Itapeva
- 17:00 Study of reaction time influence on polyaniline structure** S.P2.51  
 Maria Alice Carvalho Mazzeu<sup>1,2</sup>, Lohana Komorek Faria<sup>3,4</sup>, Emerson Sarmiento Gonçalves<sup>1,4</sup>; <sup>1</sup>Instituto Tecnológico de Aeronáutica, <sup>2</sup>Instituto de Fomento e Coordenação Industrial, <sup>3</sup>Universidade do Vale do Paraíba, <sup>4</sup>Instituto de Aeronáutica e Espaço
- 17:00 Influence of iron removal in the precursor material for the synthesis of mesoporous adsorbent used in aqueous phosphorus adsorption processes** S.P2.52  
Marcus Venicio da Silva Fernandes<sup>1</sup>, Gleiciany Alexandre Gomes<sup>1</sup>, Giseli Allende de Souza<sup>1</sup>, Lindomar Roberto Damasceno da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Evaluation of temperature influence on phosphorus sequestering ability in aqueous medium of a mesoporous adsorbent** S.P2.53  
Marcus Venicio da Silva Fernandes<sup>1</sup>, Gleiciany Alexandre Gomes<sup>1</sup>, Giseli Allende de Souza<sup>1</sup>, Lindomar Roberto Damasceno da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Spray-Dried nanocellulose powder extracted from wood flour for application in biocomposites** S.P2.54  
Fernanda Izabelle Ditzel<sup>1</sup>, Eduardo Prestes<sup>1</sup>, Ivo Mottin Demiate<sup>1</sup>, Benjamim de Melo Carvalho<sup>1</sup>, Luis Antonio Pinheiro<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa
- 17:00 Structural characterization of natural rubber with sugar cane bagasse ashes and low density polyethylene blends** S.P2.55  
Giovanni Barrera Torres<sup>1,2</sup>, Elton Aparecido Prado Reis<sup>2</sup>, rafael Jesus gonçalves Rubira<sup>2</sup>, Carlos José Leopoldo Constantino<sup>2</sup>, Silvio Rainho Teixeira<sup>2</sup>, Aldo Eloizo Job<sup>2</sup>; <sup>1</sup>Instituto Tecnológico Metropolitano, <sup>2</sup>FACT-UNESP Campus de Presidente Prudente
- 17:00 Effect of raw materials on the quality of zeolite NaA obtained by hydrothermal synthesis** S.P2.56  
 Marilena Valadares Folgueras<sup>1</sup>, Janaina Sehnem<sup>1</sup>, Rafaela de Souza<sup>1</sup>, MASAHIRO TOMIYAMA; <sup>1</sup>Fundação Universidade do Estado de Santa Catarina



- 17:00 Bamboo particles in wood residue boards: perspectives** **S.P2.57**  
Camilla Dall'Igna<sup>1</sup>, Ugo Belini<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 The use of composites using coir fibers in the footwear industry** **S.P2.58**  
 Célia Regina da Costa<sup>1</sup>, Zélia Maria Da Costa Ludwig<sup>2</sup>, Victor Rocha da Silva<sup>2</sup>, Barbara Del Curto<sup>1</sup>; <sup>1</sup>Politecnico di Milano, <sup>2</sup>Universidade Federal de Juiz de Fora
- 17:00 EIS Characterization of Steel Coatings with Addition of Coal Fly Ash** **S.P2.59**  
Mateus Cereza Brandão<sup>1</sup>, Sabrina Neves da Silva<sup>1</sup>, Luciana Machado Rodrigues<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Pampa
- 17:00 Mechanical performance of composites based on water treatment plant sludge marble polishing slurry and lime production waste** **S.P2.60**  
Fernanda Meireles Hackbart<sup>1</sup>, Vsevolod Mymrine<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Synthesis of YSZ powders by an economic route using egg white as complexing medium** **S.P2.61**  
Raphael Euclides Prestes Salem<sup>1,2</sup>, Emerson Miguel da Silva Júnior<sup>3</sup>, Adriana Scoton Chinelatto<sup>3</sup>, Adilson Luiz Chinelatto<sup>3</sup>, Elíria Maria de Jesus Agnolon Pallone<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade Tecnológica Federal do Paraná, <sup>3</sup>Universidade Estadual de Ponta Grossa
- 17:00 Development of an alternative route for recycling AA2050 aluminum alloy by powder metallurgy** **S.P2.62**  
Vanessa Guido Bicudo<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 High pressure microfluidization reduces hydroxypropyl methylcellulose (HPMC) molecular weight but improves mechanical properties of microcrystalline cellulose (MCC)-reinforced HPMC films** **S.P2.63**  
Caio Gomide Otoni<sup>1,2</sup>, Marcos Vinicius Lorevice<sup>1,2</sup>, Marcia Regina de Moura<sup>3</sup>, Daniel Souza Corrêa<sup>2</sup>, Luiz Henrique Capparelli Mattoso<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária, <sup>3</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 Evaluation of resistance to corrosion of different materials used in sewage treatment plants: case study applied to treatment units** **S.P2.64**  
 Marcela Maçaneiro<sup>1</sup>, José Carlos Alves Galvão<sup>1</sup>, Rozane de Fátima Turchiello Gomez<sup>1</sup>, Maria Paula Nascimento Marques da Silva<sup>1</sup>, Michel Zampieri Fidelis<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Study of influence of the alkaline treatment on the superficial modification in the green coconut fiber to the polyester composite** **S.P2.65**  
 Celso Carlino Maria Fornari Junior<sup>1</sup>, Gabriel Abelha Carrijo Gonçalves<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz
- 17:00 Comparison of treatment methods for carbon steel surface in the formation of VT MOS silane film** **S.P2.66**  
Josevi Filho da Silva Freitas<sup>1</sup>, Frederico Pereira Lobo<sup>1</sup>, Thallis Leal Almeida<sup>1</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz
- 17:00 Comparison of corrosion inhibition efficiency of açai bark powder and garlic bark powder for carbon steel in acid medium** **S.P2.67**  
Iago Menezes Souza<sup>1</sup>, Thassia Félix Almeida<sup>1</sup>, Lhaira Souza Barreto<sup>1</sup>, Miriam Sanae Tokumoto<sup>1</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz
- 17:00 Structural characterization and thermal analysis of lignin from sugarcane straw** **S.P2.68**  
Bruno Chaboli Gambarato<sup>1,2</sup>, Gustavo Assis Miranda<sup>1</sup>, Filipe Emerik Marques<sup>2</sup>, Adilson Roberto Gonçalves<sup>2,3</sup>, Daniella Regina Mulinari<sup>4,1</sup>; <sup>1</sup>Centro Universitário de Volta Redonda, <sup>2</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>3</sup>Brazilian Bioethanol Science and Technology National Laboratory, <sup>4</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Proton Nuclear Magnetic Resonance of dioxane lignin from sugarcane straw** **S.P2.69**  
Bruno Chaboli Gambarato<sup>1,2</sup>, Filipe Emerik Marques<sup>2</sup>, Emerson Ferreira Silva<sup>3,1</sup>, Fernanda Rodrigues Silva<sup>1</sup>, Adilson Roberto Gonçalves<sup>2,4</sup>; <sup>1</sup>Centro Universitário de Volta Redonda, <sup>2</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>3</sup>Universidade Federal Fluminense, <sup>4</sup>Brazilian Bioethanol Science and Technology National Laboratory
- 17:00 Photoelectrochemical characterization of ITO/TiO<sub>2</sub> electrodes obtained by cathodic electrodeposition from aqueous solution** **S.P2.70**  
Fernando Rogério de Paula<sup>1</sup>, Luis Fernando Marchesi<sup>2</sup>, Renato Garcia Freitas<sup>3</sup>, Edna Regina Spada<sup>4</sup>, Marcio Sousa Góes<sup>5</sup>, Jarem Garcia<sup>6</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Universidade Tecnológica Federal do Paraná, <sup>3</sup>Universidade Federal de Mato Grosso, <sup>4</sup>Instituto de Física de São Carlos (IFSC), <sup>5</sup>Universidade Federal da Integração Latino, <sup>6</sup>Universidade Estadual de Ponta Grossa
- 17:00 Preparation, evaluation of the heating value, and mechanical properties of compressed solid fuel from biomass of rice husk and glycerol** **S.P2.71**  
Rachel Faverzani Magnago<sup>1</sup>, Susana Claudete Costa<sup>1</sup>; <sup>1</sup>Universidade do Sul de Santa Catarina

- 17:00 Corrosion resistance of electrogalvanized steel with a new passivation treatment based on cerium** S.P2.72  
Gustavo Aristides Santana Martinez<sup>1</sup>, Marcella Ferraz Guedes<sup>1</sup>, Larissa Souza Espirito Santo<sup>1</sup>, Vinícius Pereira<sup>1</sup>, Célia Regina Tomachuk<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 Evaluation of effect process variables in pulp bleaching cellulosic with hydrogen peroxide mechanical properties of pulp.** S.P2.73  
Gustavo Ventrone<sup>1</sup>, Camila Juliane Marcondes<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Câmpus de Itapeva
- 17:00 A new energy alternative: elephant grass briquette production with addition of petroleum asphalt residue** S.P2.74  
Dárcia Sâmia Santos Moura de Macêdo<sup>1</sup>, Raisa Andriele Vasconcelos Lopes<sup>1</sup>, Nathalie Luana Oliveira<sup>1</sup>, Maria Dayane Soares Santos<sup>1</sup>, José Alves Lima Neto<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte
- 17:00 Comparative study of renewable energy sources: a theoretical perspective of elephant grass briquette** S.P2.75  
Raisa Andriele Vasconcelos Lopes<sup>1</sup>, Nathalie Luana Oliveira<sup>1</sup>, Maria Dayane Soares Santos<sup>1</sup>, Dárcia Sâmia Santos Moura de Macêdo<sup>1</sup>, José Alves Lima Neto<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte
- 17:00 Study of the capillarity coefficient and the retention of water in mortars composed by foundry residue** S.P2.76  
Marília Raphalski<sup>1</sup>, Helena Ravache Samy Pereira<sup>1</sup>, Luiz Veriano Oliveira Dalla Valentina<sup>2</sup>; <sup>1</sup>Centro Universitário-Católica de Santa Catarina, <sup>2</sup>Fundação Universidade do Estado de Santa Catarina
- 17:00 mechanical and thermal characterization of bricks made from blast furnace slag** S.P2.77  
andré luis de oliveira cavaignac<sup>1,2</sup>, Edgard Andrade Rocha<sup>2</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Centro Universitário do Maranhão
- 17:00 Rare earth doped titania fibers and it application on photocatalysis** S.P2.78  
Matheus Serra de Holanda<sup>1</sup>, Marcelo de Oliveira Rodrigues<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade de Brasília
- 17:00 Study of time and cure temperature as parameters for formation of silane film (vinyltrimethoxysilane) in carbon steel** S.P2.79  
Frederico Pereira Lobo<sup>1</sup>, Josevi Filho da Silva Freitas<sup>1</sup>, Thallis Leal Almeida<sup>1</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz
- 17:00 Evaluation of process obtaining of corrosion inhibitor extracted of garlic bark for the study of efficiency in the corrosion resistance to carbon steel in acid medium** S.P2.80  
Thassia Félix Almeida<sup>1</sup>, Lhaira Souza Barreto<sup>1</sup>, Isabel Correa Guedes<sup>2</sup>, Franco Dani Rico Amado<sup>1</sup>, Vera Rosa Capelossi<sup>1</sup>; <sup>1</sup>Universidade Estadual de Santa Cruz, <sup>2</sup>Universidade de São Paulo
- 17:00 Resistance to abrasive and adhesive wear of chrome oxide coatings** S.P2.81  
William José Valnier<sup>1</sup>, Angela Beatriz Coelho Arnt<sup>1</sup>, Marcio Roberto da Rocha<sup>1</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense
- 17:00 Capsaicin oleoresin as a natural preservative of Pinus sp. wood against the action of fungi.** S.P2.82  
Analine Crespo Ziglio<sup>1</sup>, Débora Gonçalves<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Thermal and spectroscopic characterization of blends pva/pvp with crosslinked edc** S.P2.83  
Valdir Aniceto Pereira Junior<sup>1</sup>, Mayra Stéphanie Pascoal Damas<sup>1</sup>, Mara G N Quadri<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Photocatalytic property of ZnO doped SnO<sub>2</sub> powder** S.P2.84  
Natalia Jacomaci, Glauco Meireles Mascarenhas Morandi Lustosa<sup>1</sup>, Leinig Antonio Perazolli, Rafael Aparecido Ciola Amoresi, Elson Longo, Maria Aparecida Zaghet; <sup>1</sup>Instituto de Química - UNESP
- 17:00 Synthesis of the stable and metastable phases of Ag<sub>2</sub>WO<sub>4</sub> and their physical-chemical characterization.** S.P2.85  
Román Alvarez Roca<sup>1</sup>, Pablo Santana Lemos<sup>1</sup>, Juan Andrés<sup>2</sup>, Elson Longo<sup>3</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidad Jaume I, <sup>3</sup>Instituto de Química - UNESP
- 17:00 Evaluation of the ozonation process in an ionic liquid** S.P2.86  
Fernanda Ferraz Camilo<sup>1</sup>, Fernanda Bispo dos Reis Di Iorio<sup>1</sup>, Choyu Otani<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo, Diadema, SP, Brazil, <sup>2</sup>Instituto Tecnológico de Aeronáutica
- 17:00 Unsaturated polyester resin composites containing marble and granite filler** S.P2.87  
Iara Ferreira Santos<sup>1</sup>, Carmen Gilda Barroso Tavares Dias<sup>1</sup>, José Antonio da Silva Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará

- 17:00 Geopolymer formulation for containment of hazardous material** **S.P2.88**  
Pedro Henrique da Rosa Braun<sup>1</sup>, Naiara Machado Casagrande<sup>1</sup>, Tatiana Gisset Pineda-Vásquez<sup>1</sup>, Luciano Senff<sup>1</sup>, Dachamir Hotza<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA
- 17:00 Synthesis and characterization of PANi(ADBS)/ZnO hybrid materials by sonication and its application in photodegradation** **S.P2.89**  
Thiago Soares Silva Ribeiro<sup>1</sup>, Gabriel Victor Simões Dutra<sup>1</sup>, Olacir Alves Araújo<sup>1</sup>; <sup>1</sup>Universidade Estadual de Goiás
- 17:00 Direct chlorination: Alternative for mineral processing and waste reductions.** **S.P2.90**  
Ludy Margarita Cáceres Montero<sup>1</sup>, Ivan Guillermo Solórzano-Naranjo<sup>1</sup>, Eduardo Albuquerque Brocchi<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro
- 17:00 Electrochemistry quartz crystal microbalance technique for evaluation of electrodeposition of Ni from cathodes of spent Ni-MH batteries.** **S.P2.91**  
Pedro Vitor Dixini<sup>1</sup>, Vinicius Guilherme Celante<sup>1</sup>, Marcos Benedito Jose de Freitas<sup>2</sup>; <sup>1</sup>Federal institute of education, science and technology of Espirito Santo, <sup>2</sup>UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO
- 17:00 Obtaining air filters from recycled polymer for variable refrigerant flow (VRF) air conditioning equipment** **S.P2.92**  
José Roberto Pereira Alves<sup>1</sup>, Nilson Casimiro Pereira<sup>1</sup>; <sup>1</sup>Presbyterian University Mackenzie
- 17:00 Automatic Quantitative Characterization of Mineral Phases in Red Ceramics with Addition of Iron Ore Processing Tailings** **S.P2.93**  
Fabiane Leocádia da Silva<sup>1</sup>, Fernando Gabriel Silva ARÁUJO<sup>1</sup>, Fernando Leopoldo von Krüger, Ney Pinheiro Sampaio<sup>1</sup>, Marcela Rodrigues da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Brazilian Minerals Database Optimization for Integrated Mineral Analyzer, coupled with SEM-EDS Automated System.** **S.P2.94**  
 Ney Pinheiro Sampaio<sup>1</sup>, Fabiane Leocádia da Silva<sup>1</sup>, Marcela Rodrigues da Silva<sup>1</sup>, Fernando Gabriel da Silva Araújo<sup>1</sup>, Gilson Frade Moreira<sup>1</sup>, Fernando Leopoldo von Krüger<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Comparative analysis of the manufacturing process of polyester composites reinforced by short fibers of Munguba (Pseudobombax Munguba) and of Licuri (Syagrus Coronata) fibers.** **S.P2.95**  
Eleodoro Rodriguez Hermenegildo<sup>1</sup>, Raimundo Valdan Lopes<sup>1</sup>, Marcus Roberto Afonso<sup>1</sup>, Jandecy Cabral Leite<sup>2</sup>, Antônio Henrique Conceição<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas, <sup>2</sup>INSTITUTO DE TECNOLOGIA GALILEO DA AMAZÔNIA
- 17:00 Matrix polyester composite strengthened by munguba fiber (pseudobombax munguba) amazon.** **S.P2.96**  
Eleodoro Rodriguez Hermenegildo<sup>1</sup>, Raimundo Valdan Lopes<sup>1</sup>, Marcus Roberto Afonso<sup>1</sup>, Jandecy Cabral Leite<sup>2</sup>, Antônio Henrique Conceição<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas, <sup>2</sup>INSTITUTO DE TECNOLOGIA GALILEO DA AMAZÔNIA
- 17:00 Biocomposite from polyester reinforced with licuri leaves fiber (syagrus coronata)** **S.P2.97**  
Raimundo Valdan Lopes<sup>1</sup>, ELEODORO RODRIGUEZ HERMENEGILDO<sup>1</sup>, Manfrine Silva Santos<sup>2</sup>, Marcus Roberto Afonso<sup>1</sup>, Jandecy Cabral Leite<sup>2</sup>; <sup>1</sup>Universidade Federal do Amazonas, <sup>2</sup>INSTITUTO DE TECNOLOGIA GALILEO DA AMAZÔNIA
- 17:00 Comparative analysis of polyester composites reinforced with short munguba (pseudobombaxmunguba) and jító (guarea guidonia) fibers** **S.P2.98**  
Raimundo Valdan Lopes<sup>1</sup>, ELEODORO RODRIGUEZ HERMENEGILDO<sup>1</sup>, Marcus Roberto Afonso<sup>1</sup>, Jandecy Cabral Leite, RENAN NORMANDO MAIA<sup>2</sup>; <sup>1</sup>Universidade Federal do Amazonas, <sup>2</sup>INSTITUTO DE TECNOLOGIA GALILEO DA AMAZÔNIA
- 17:00 Development of tiny aggregates to construction industry made of recycled plastic and ore waste** **S.P2.99**  
Ana Cristina Vieira Zuccheratte<sup>1</sup>, Fernando Soares Lameiras<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Preparation of biodegradable films from babassu starches obtained via aqueous and alkaline extraction** **S.P2.100**  
Larissa Tessaro<sup>1</sup>, Bianca Maniglia<sup>1</sup>, Delia Blácido<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Li-Ion Battery Anode as Adsorbent Material to Wastewater Treatment.** **S.P2.101**  
Marcia Rodrigues de Moraes Chaves<sup>1</sup>, Talita Munhoz Rodrigues<sup>1</sup>, Beatriz Antoniassi<sup>1</sup>; <sup>1</sup>Universidade do Sagrado Coração
- 17:00 Materials durability in wastewater treatment plants: case filter biological aerobic percolator** **S.P2.102**  
 Michel Zampieri Fidelis<sup>1</sup>, Maria Paula Nascimento Marques da Silva<sup>1</sup>, José Carlos Alves Galvão<sup>1</sup>, Rozane de Fátima Turchiello Gomez<sup>1</sup>, Marcela Maçaneiro<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Development of Machines to Machining Waste of Wood Applied in the Power Generation.** **S.P2.103**  
Daniel Villas Bôas<sup>1</sup>, José Cláudio Caraschi<sup>1</sup>, Samuel Peretti Matarazzo<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Câmpus de Itapeva

- 17:00 Mechanical behavior of concrete with the partial replacement of fine aggregate by ceramic furnace ash through the diametrical compression test using Digital Image Correlation** S.P2.104  
Jerfson Moura Lima<sup>1</sup>, Francisco Rosendo Sobrinho<sup>1</sup>, Rodrigo Nogueira de Codes<sup>1</sup>; <sup>1</sup>Universidade Federal Rural do Semi-Árido
- 17:00 Electrofused aluminum oxide grains recycling** S.P2.105  
Alexandre Dutra Gollanda<sup>1</sup>, Sandro Galisteu Luiz<sup>1</sup>, Katia Cristiane Gandolpho Candioto<sup>1</sup>, Carlos Yujiro Shigue<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 Physico-chemical analysis and production of “Synthetic Wood” processed from the Andiroba residue (Carapa guianensis)** S.P2.106  
Marcos Antonio Feitosa Souza, Jorge Emílio Henrique Gomes, Marcos Danilo Costa Almeida, João Antonio Pessoa Silva, Leandro Luiz Silva, Felipe Fernando da Costa Tavares<sup>1</sup>; <sup>1</sup>Universidade do Estado do Amapá

## Wednesday, September 30th

### Poster presentations

#### Session S.P3 (17:00 - 19:00)

- 17:00 The Addition of Sludge of Water Treatment Mini- Station in Red Ceramic** S.P3.107  
Hilbenária Mercedes Santos<sup>1</sup>, Diana da Silva Luna<sup>1</sup>, Carolina Marinho Santana<sup>1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará
- 17:00 Investigation of the Electrochemical Performance of Na<sub>0.45</sub>Ni<sub>0.22</sub>Mn<sub>0.66</sub>Co<sub>0.11</sub>O<sub>2</sub> in PVdF and CMC based Electrodes for Sodium Ion Batteries** S.P3.108  
Elizaveta Kessler<sup>1</sup>, Daniel Buchholz<sup>2</sup>, Stefano Passerini<sup>2,1</sup>; <sup>1</sup>Westfälische Wilhelms-Universität Münster, <sup>2</sup>Karlsruhe Institute of Technology
- 17:00 Analysis of Alternative Materials for Collection and Storage of Greenhouse Gases** S.P3.109  
Rafael Colombo Abruzzi<sup>1</sup>, Barbara Meier da Costa<sup>1</sup>, Beatriz Bonetti<sup>1</sup>, Marçal José Rodrigues Pires<sup>1</sup>, Rosangela Silva<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio Grande do Sul
- 17:00 Proton conducting hybrid membrane -based SPEEK containing tin oxide for use in Fuel Cell** S.P3.110  
Florêncio Gomes de Ramos Filho<sup>1</sup>, Liz Contino Vianna de Aguiar<sup>2</sup>, Carla Akimi Kawaguti<sup>2</sup>, Ailton de Souza Gomes<sup>2</sup>; <sup>1</sup>Universidade Estadual da Zona Oeste, <sup>2</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ, Rio de Janeiro- RJ/Brazil
- 17:00 Structural and Thermal Characterization of Some Glass-Ceramics used as Sealants for SOFCs** S.P3.111  
LAÍS DANTAS SILVA<sup>1</sup>, María Jesús Pascual<sup>2</sup>, Alicia Durán<sup>2</sup>, Alisson Mendes Rodrigues<sup>3</sup>, ALUISIO ALVES CABRAL JUNIOR<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Consejo Superior de Investigaciones Científicas, <sup>3</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Biocorrosion of metals in the sewage treatment plant** S.P3.112  
José Carlos Alves Galvão<sup>1</sup>, Marcela Maçaneiro<sup>1</sup>, Rozane de Fátima Turchiello Gomez<sup>1</sup>, Michel Zampieri Fidelis<sup>1</sup>, Maria Paula Nascimento Marques da Silva<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 17:00 Performance of an eco-efficient fiber-reinforced concrete considering the double punching assay.** S.P3.113  
Daniel de Andrade Souza<sup>1</sup>, Aline da Silva Ramos Barboza<sup>1</sup>, Ronney Rodrigues Agra<sup>1</sup>, Arthur Henrique Vieira de Melo<sup>1</sup>; <sup>1</sup>Universidade Federal de Alagoas
- 17:00 Use of wood from Hevea brasiliensis for the production of particleboard with urea formaldehyde resin and polyurethane** S.P3.114  
 Sarah David Muzel<sup>1</sup>, Larissa Ribas de Lima Soares<sup>1</sup>, Maristela Gava<sup>2</sup>, José Nivaldo Garcia<sup>3</sup>, Bruno Santos Ferreira<sup>1</sup>, Carlino Carvalho de Almeida<sup>4</sup>; <sup>1</sup> Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Guaratinguetá, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Itapeva, <sup>3</sup>Escola Superior de Agricultura "Luiz de Queiroz"-USP, <sup>4</sup>UNIVERSIDADE ESTADUAL PAULISTA
- 17:00 Study On Parallel Shear Stress Of Cement-wood Composites Using Pinus sp. And Eucalyptus sp. in natura And Treated With CCA** S.P3.115  
 Rodrigo Daneil da Silva Oliveira<sup>1</sup>, Sarah David Muzel<sup>2</sup>, Maristela Gava<sup>1</sup>, Victor Almeida Araujo<sup>1</sup>, Juliana Cortez Barbosa<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Itapeva, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Guaratinguetá
- 17:00 Silica aerogels for simulated nuclear waste immobilization** S.P3.116  
 Graciano Bay de Souza<sup>1</sup>, Luciana Valgas de Souza<sup>2</sup>, Dachamir Hotza<sup>2</sup>, Carlos Renato Rambo<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Chemical Solution for Recycling of Long Life Packaging** S.P3.117  
Marco Antonio Voinarovicz<sup>1</sup>, Fábio Santana dos Santos<sup>1</sup>, Rodolfo Thiago Ferreira<sup>1</sup>, Rodolfo Bonoto Estevam<sup>1</sup>, Vicente Nadal Neto<sup>2</sup>, Claudia Marcia Rosa<sup>2</sup>, Jarem Garcia<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa, <sup>2</sup>Zero Resíduos S.A.
- 17:00 Thin films of YSZ dip-coated on LSM substrate for SOFC application** S.P3.118  
Jacqueline Costa Marrero<sup>1</sup>, Mariana M.V.M. Souza<sup>1</sup>, Célia de Fraga Malfatti<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade Federal do Rio Grande do Sul

- 17:00 Characterization and use of solid wastes from São Tomé stones artifacts production as raw material for silica-soda-lime glass** S.P3.119  
 Telma Eugênio<sup>1</sup>, Raissa Santos Figueiredo<sup>2</sup>, Wanderson Marinho de Abreu<sup>3</sup>, Antônio Valadão Cardoso<sup>4</sup>; <sup>1</sup>PETROBRAS, <sup>2</sup>Centro Federal de Educação Tecnológica de Minas Gerais, <sup>3</sup>Prefeitura de Belo Horizonte, <sup>4</sup>SENAI/FIEMG
- 17:00 Influence of the anatase/rutile phase mixture in the photocatalytic efficiency of TiO<sub>2</sub>** S.P3.120  
Alex de Meireles Neris<sup>1</sup>, Lais Chantele<sup>1</sup>, Joao Jarllys Nobrega de Souza<sup>1</sup>, Ary da Silva Maia<sup>1</sup>, Elson Longo<sup>2</sup>, Antônio Gouveia de Souza<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Use of fly ash to produce the geopolymetric cement by alkaline activation** S.P3.121  
Adriano Galvão de Souza Azevedo<sup>1</sup>, Kurt Strecker<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 17:00 Use of red ceramic powder and metakaolin as raw material in geopolymerization process** S.P3.122  
Adriano Galvão de Souza Azevedo<sup>1</sup>, Carolina Torga Lombardi<sup>1</sup>, Kurt Strecker<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 17:00 Solid waste as an alternative for application in ceramic industry** S.P3.123  
 Gildemberg Pereira de Barros Silva<sup>1</sup>, Francisco Roberto dias de Freitas<sup>1</sup>, Silvana Garcia Viana<sup>2</sup>, SEVERINO JACKSON GUEDES<sup>3</sup>, Rosa Medeiros Marinho<sup>1</sup>; <sup>1</sup>Universidade Regional do Cariri, <sup>2</sup>INSTITUTO FEDERAL DA BAHIA, <sup>3</sup>Universidade Federal da Paraíba
- 17:00 Use of polyethylene enhanced with waste toner to development of polymeric composite** S.P3.124  
MIRELLA NAGIB DE OLIVEIRA BOERY<sup>1</sup>, Luiz Henrique Caldas<sup>2</sup>, Nadia Mamede José<sup>2</sup>, Marcos Akira d'Ávila<sup>3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia da Bahia, <sup>2</sup>Universidade Federal da Bahia, <sup>3</sup>Universidade Estadual de Campinas, Centro Pluridisciplinar de Pesquisas Químicas, Biológicas e Agrícolas, Paulínia
- 17:00 Study of the technological properties of structural ceramics with clay partial replacement by bentonite waste** S.P3.125  
Paulo Cesar Reis Filho<sup>1</sup>, Naira Cavalcante Almeida<sup>1</sup>, Elias Fagury Neto<sup>1</sup>, Adriano Alves Rabelo<sup>1</sup>, Edna Fernandes Feitosa<sup>1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará
- 17:00 Synthesis and characterization of V<sub>2</sub>O<sub>5</sub> doped with ZnO for application as cathode for lithium batteries** S.P3.126  
Edjan Alves da Silva<sup>1</sup>, Douglas Langie da Silva<sup>1</sup>, César Antonio Oropesa Avellaneda<sup>1</sup>, Wladimir Hernandez Flores<sup>2</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Fundação Universidade Federal do Pampa
- 17:00 Concrete reinforced with fiber and springs commercial** S.P3.127 **S**  
Iedo Alves de Souza<sup>1</sup>, Fábio Henrique Sales<sup>1</sup>, Elson Longo<sup>2</sup>, Wellington Ribamar Sousa<sup>1</sup>, Luís Presley Serejo dos Santos<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 High catalytic performance of Pd/Pt supported magnetic nanoparticles under ultra-mild conditions** S.P3.128  
 Aparecida Fernanda de Souza Zanato<sup>1</sup>, Daniele Aparecida de Lima<sup>1</sup>, Marcos José Jacinto<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso
- 17:00 Synthesis and characterization of nickel oxide for Dye-Sensitized Solar Cells** S.P3.129  
Maria Isabel Spitz Argolo Lavandier<sup>1</sup>, Leonardo Santos Silva<sup>1</sup>, Isabel de F. Simões<sup>1</sup>, José Márcio Siqueira Júnior<sup>2</sup>, Marta Eloisa Medeiros<sup>1</sup>, Francisco Manoel dos Santos Garrido<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade Federal Fluminense
- 17:00 Identification Of Environmental And Social Risk Factors From Exposure To Asbestos In The Community: Physico Chemical And Mineralogical characterization of fiber Cement Materials in Colombia** S.P3.130  
Martin Eduardo Espitia<sup>1</sup>, Andres Muñoz<sup>1</sup>, Jaime Moncada<sup>1</sup>, Adriana Blandon<sup>1</sup>, Fredy Niño<sup>1</sup>; <sup>1</sup>Corporación Universitaria Minuto de Dios
- 17:00 Synthesis and characterization of yttrium-doped barium zirconate with different sintering aids** S.P3.131  
Leonardo Pacheco Wendler<sup>1</sup>, Dulcina Pinatti Ferreira de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos
- 17:00 Thermal properties of polymeric fabric scraps** S.P3.132  
Gerson Alberto Valencia Albitres<sup>1</sup>, Luis Claudio Mendes<sup>1</sup>, Sibeles Cestari<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro
- 17:00 SPEEK-titanium membranes for fuel cell applications** S.P3.133  
Jacqueline Costa Marrero<sup>1</sup>, Ailton de Souza Gomes<sup>1</sup>, Wang Shu Hui<sup>2</sup>, Jose Carlos Dutra Filho<sup>1</sup>, Viviana Silva de Oliveira<sup>3</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Escola Técnica Rezende-Rammel
- 17:00 Adoption of the clean development mechanism for carbon credit trading in the Cariri/CE** S.P3.134  
Amanda Silva Xavier<sup>1</sup>, SEVERINO JACKSON GUEDES<sup>2</sup>, Silvana Garcia Viana<sup>3</sup>, Iêda Maria Garcia Santos<sup>2</sup>, Rosa Medeiros Marinho<sup>1</sup>; <sup>1</sup>Universidade Regional do Cariri, <sup>2</sup>Universidade Federal da Paraíba, <sup>3</sup>INSTITUTO FEDERAL DA BAHIA

- 17:00 Development of polymeric membranes of SPEEK containing zirconia foam for application in fuel cells** S.P3.135  
João Paulo da Silva Queiroz Menezes<sup>1,2</sup>, Karim DAHMOUCHE<sup>1</sup>, Florêncio Gomes de Ramos Filho<sup>3</sup>, Celso Valentim Santilli<sup>4</sup>, Marinalva Aparecida Alves Rosa<sup>4</sup>, Ailton de Souza Gomes<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Institute of Macromolecules, IMA/UFRJ, <sup>3</sup>Universidade Estadual da Zona Oeste, <sup>4</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Potassium niobate obtained by different synthesis methods applied to discoloration of yellow gold remazol dye** S.P3.136  
Juliana Kelly Dionízio de Souza<sup>1</sup>, Arnayra Sonayra Brito Silva<sup>1</sup>, Laís Chantelle De Lima<sup>1</sup>, Elson Longo<sup>2</sup>, Antônio Gouveia de Souza<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Ary da Silva Maia<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 NaNbO<sub>3</sub> applied in the photodiscoloration of golden yellow remazol** S.P3.137  
Juliana Kelly Dionízio de Souza<sup>1</sup>, Arnayra Sonayra Brito Silva<sup>1</sup>, Laís Chantelle De Lima<sup>1</sup>, Elson Longo<sup>2</sup>, Antônio Gouveia de Souza<sup>1</sup>, Ary da Silva Maia<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Composites of recycled HDPE and sugarcane bagasse: compressive resistance** S.P3.138  
Sibele Cestari<sup>1</sup>, Luis Claudio Mendes<sup>1</sup>, Volker Altstadt<sup>2</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro, <sup>2</sup>Universität Bayreuth
- 17:00 Study of the Stabilization of Nickel in Willemite Structure, Zn<sub>2</sub>SiO<sub>4</sub>, from Incorporation of the SiO<sub>2</sub> from of the ash from rice husk. Application how Ceramic Pigment.** S.P3.139  
Sônia Richartz Prim<sup>1</sup>, Tiago Cechinel Borges<sup>1</sup>, Sonia Richartz Prim<sup>1</sup>, Marilena Valadares Folgueras<sup>2</sup>, Jaisson Potrich Reis<sup>1</sup>; <sup>1</sup>Centro Universitário - Católica de Santa Catarina, <sup>2</sup>Fundação Universidade do Estado de Santa Catarina
- 17:00 Effect of nanosilica Aerosil® and superplasticizer addition on the mechanical and flowability properties of cement mortars** S.P3.140  
 Andrezza de Sousa Andrada<sup>1</sup>, Henara Gomez Rodrigues<sup>1</sup>, Daniel Andrada Maria<sup>1</sup>, Carlos Augusto de Souza Oliveira<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Recovery of rare earths from end of life fluorescent lamps** S.P3.141  
Douglas Luis da Silva<sup>1</sup>, Osvaldo Antonio Serra<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - Universidade de São Paulo
- 17:00 Concrete interlocking blocks colored with waste addition of red ceramic** S.P3.142  
Paloma Xavier Alcantara<sup>1</sup>, Ana Cecilia Vieira Nóbrega<sup>1</sup>, Kalil Silva Veiga<sup>1</sup>, Vanderlan Vieira Santos<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Thermal isolation and characterization of buriti leaf fibers (Mauritia flexuosa L.)** S.P3.143  
 FRANCISCO WENNER DE SOUSA DA SILVA<sup>1</sup>, Luiz Fernando Meneses Carvalho<sup>1</sup>, IVAN FERREIRA DO NASCIMENTO<sup>1</sup>, MARCOS RODRIGUES RESENDE<sup>1</sup>, Max Wagno Mascarenhas dos Santos<sup>1</sup>, Guilherme Sousa Mota<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 17:00 Forest residues characterization of Pinus sp. and Eucalyptus sp. for use as renewable fuel** S.P3.144  
Simone Simões Amaral<sup>1</sup>, Cleverson Pinheiro<sup>2</sup>, João Andrade de Carvalho Jr.<sup>1</sup>, Maria Angélica Martins Costa<sup>3</sup>, José Carlos dos Santos<sup>4</sup>, Ely Vieira Cortez<sup>4</sup>, José Carlos Andrade<sup>4</sup>; <sup>1</sup>Faculdade de Engenharia de Guaratinguetá, UNESP, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo - Campus de Jacaré, <sup>3</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>4</sup>Instituto Nacional de Pesquisas Espaciais de Cachoeira Paulista
- 17:00 Chemical Treatment of the Mesocarp Fibre of the Babassu Coconut** S.P3.145  
 IVAN FERREIRA DO NASCIMENTO<sup>1</sup>, Luiz Fernando Meneses Carvalho<sup>1</sup>, MARCOS RODRIGUES RESENDE<sup>1</sup>, FRANCISCO WENNER DE SOUSA DA SILVA<sup>1</sup>, Max Wagno Mascarenhas dos Santos<sup>1</sup>, Guilherme Sousa Mota<sup>1</sup>, Rayssilane Cardoso de Sousa<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 17:00 Composites of Polypropylene and Bleached Cellulose Wood Pulp** S.P3.146  
Luiz Carlos Cambuim Machado<sup>1</sup>, Eliane Trovatti<sup>2,1</sup>, Antonio Jose Felix Carvalho<sup>1</sup>; <sup>1</sup>Universidade de São Paulo, Escola de Engenharia de São Carlos, <sup>2</sup>Instituto de Química de São Carlos
- 17:00 Chemical processing and characterization of cement bags, Recycled Fibers in the development of Biocomposite** S.P3.147  
 MARCOS RODRIGUES RESENDE<sup>1</sup>, Luiz Fernando Meneses Carvalho<sup>1</sup>, FRANCISCO WENNER DE SOUSA DA SILVA<sup>1</sup>, IVAN FERREIRA DO NASCIMENTO<sup>1</sup>, Max Wagno Mascarenhas dos Santos<sup>1</sup>, Guilherme Sousa Mota<sup>1</sup>, Rayssilane Cardoso de Sousa<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 17:00 Microcrystalline cellulose obtaining from the sugarcane bagasse fiber** S.P3.148  
 Thais Moraes Arantes<sup>1</sup>, Joyce Lopes de Araujo<sup>1</sup>, Tatiane Moraes Arantes<sup>1</sup>, Fernando Henrique Cristovan<sup>2</sup>, Luciano Moraes Lião<sup>3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia Goiano, <sup>2</sup>Universidade Federal de São Paulo, <sup>3</sup>Universidade Federal de Goiás - Instituto de Química

- 17:00 Rheological study of paper industry residue-based geopolymers paste** S.P3.149  
André Luis Pozzebon<sup>1</sup>, Andreia De Rosi<sup>1</sup>, Tatiana Gisset Pineda-Vásquez<sup>1</sup>, Luciano Senff<sup>1</sup>, Dachamir Hotza<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Study of the adsorption rhodamine b dye in fiber fraction of sugarcane bagasse** S.P3.150  
Flávia Fernanda Machado Monteiro<sup>1</sup>, Gabriel Marques Rosa<sup>1</sup>, Thais Moraes Arantes<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia Goiano
- 17:00 Study of the effects on turning in reforested wood using carbide tools uncoated and coated with titanium diboride.** S.P3.151  
Valter Roberto Brito Celestino<sup>1</sup>, Marcus Antonio Perreira Bueno<sup>1</sup>, Ivaldo De Domenico Valarelli<sup>1</sup>, Manoel Cleber de Sampaio Alves<sup>2</sup>; <sup>1</sup>Faculdade de Engenharia - UNESP Bauru, <sup>2</sup>FACULDADE DE ENGENHARIA DE GUARATINGUETÁ
- 17:00 Analysis of composite cementitious viscosity additives with different sizes of vegetable fiber** S.P3.152  
Juliana Neumann Seixas<sup>1</sup>, Alexandra Augusta Reichert<sup>1</sup>, Oscar Giordani Paniz<sup>1</sup>, Margarete Regina Freitas GONÇALVES<sup>1</sup>, Neftalí Lenin Villarreal Carreño<sup>1</sup>, Rubens Maribondo do Nascimento<sup>2</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Effect of edible coatings containing Pomegranate (*Punica granatum* L.) peel extracts in the weight lost and color of Guavas (*Psidium guajava* L.)** S.P3.153  
Silvia Maria Martelli<sup>1</sup>, Raísa Crepaldi de Faria<sup>1</sup>, Amanda Dambros Pereira<sup>1</sup>, Farayde Matta Fakhouri<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal da Grande Dourados



## Thursday, October 1st

### Poster presentations

#### Session S.P4 (09:45 - 11:45)

- 09:45 Study adding vermiculite as insulating construction materials** S.P4.154  
Rivaldo Lins Rocha Filho<sup>1</sup>, Ricardo Francisco Alves<sup>2</sup>, Daniel Araujo de Macedo<sup>3</sup>, Ricardo Peixoto Suassuna Dutra<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade federal da Paraíba, <sup>3</sup>UNIVERSIDADE FEDERAL DA PARAIBA
- 09:45 Analysis of mechanical properties of Balsa wood coated with chitosan.** S.P4.155  
 PABLO HERINQUE RIBEIRO BEZERRA<sup>1</sup>, JOSYANE DOS SANTOS BRAGA BASTOS<sup>1</sup>, EDMILSON ARAÚJO OLIVEIRA JÚNIOR<sup>1</sup>, Ayrton de Sá Brandim<sup>1</sup>, Marina de Oliveira Cardoso Macêdo<sup>1</sup>, HAROLDO REIS ALVES DE MACÊDO<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 09:45 Study solid solution of nickel, replacing cobalt ion in willemite structure, incorporating of the SiO<sub>2</sub> from of the ash from rice husk.** S.P4.156  
Sônia Richartz Prim<sup>1</sup>, Tamara Fragas<sup>1</sup>, Sonia Richartz Prim<sup>1</sup>, Marilena Valadares Folgueras<sup>2</sup>, Jaisson Potrich Reis<sup>1</sup>; <sup>1</sup>Centro Universitário - Católica de Santa Catarina, <sup>2</sup>Fundação Universidade do Estado de Santa Catarina
- 09:45 Recycling of coal ash: application in the production of concrete blocks** S.P4.157  
Bruno Marques Viegas<sup>1</sup>, Edilson Marques Magalhães<sup>1</sup>, Giulia Karoline Barros Bloch<sup>1</sup>, Iara Ferreira Santos<sup>1</sup>, José Antonio da Silva Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 09:45 Analysis of influence of processes thermochemical chemical and biological in obtaining fiber lignocellulosic** S.P4.158  
Leonardo Maciel da Rosa<sup>1</sup>, Oscar Giordani Paniz<sup>1</sup>, Juliana Neumann Seixas<sup>1</sup>, José Rodrigues Beltran<sup>1</sup>, Margarete Regina Freitas GONÇALVES<sup>1</sup>, Caio César Nogueira MELO<sup>1</sup>, Dielen MARIN<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 09:45 Influence the temperature of calcination of phosphogypsum in supersulphated cements (SSC)** S.P4.159  
BRUNA GRACIOLI<sup>1</sup>, Maxwell Vinícius Favero Varela<sup>1</sup>, CAROLINE ANGULSKI DA LUZ<sup>1</sup>, LILIAM CRISTINA ANGELO<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 09:45 The effect of processing route on electrical properties of 8%mol yttria-stabilized zirconia electrolyte** S.P4.160  
Celso Antonio Goulart<sup>1</sup>, Dulcina Pinatti Ferreira de Souza<sup>1</sup>; <sup>1</sup>Federal University of São Carlos
- 09:45 Vitreous porous membranes fabricated from recycled glass modified with magnesium carbonate** S.P4.161  
Laís Pacheco Caminata<sup>1</sup>, Renata Fernanda Loddi<sup>1</sup>, Delia do Carmo Vieira<sup>1</sup>, Alessandra Stevanato<sup>1</sup>, Antonio C. C. Migliano<sup>2</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná, <sup>2</sup>Instituto de Estudos Avançados
- 09:45 Microstructural and electrical properties of ceria-based electrolytes with Zn and Co as sintering aid** S.P4.162  
Lúcia Adriana Villas Boas<sup>1</sup>, Pedro Augusto de Paula Nascente<sup>1</sup>, Richard Landers<sup>2</sup>, Dulcina Pinatti Ferreira de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Estadual de Campinas
- 09:45 Dynamics-Mechanics characterization of application silane (TESPT) in natural rubber with cane bagasse ash** S.P4.163  
 Giovanni Barrera Torres<sup>1,2</sup>, Guilherme Dognani<sup>3</sup>, Deuber Lincon da Silva Agostini<sup>4</sup>, Silvio Rainho Teixeira<sup>2</sup>, Aldo Eloizo Job<sup>2</sup>; <sup>1</sup>Instituto Tecnológico Metropolitano, <sup>2</sup>Universidade Estadual Paulista - Campus de Presidente Prudente, <sup>3</sup>FCT-UNESP Campus de Presidente Prudente, <sup>4</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente
- 09:45 Slag reuse of the welding flux in the making of concrete uses multiple** S.P4.164  
Dienne Clara Souza Silva<sup>1</sup>, Gilberto Luiz Soares Oliveira<sup>1</sup>, Cláudia Nazaré dos Santos<sup>2</sup>, Cinthia Brito Fonseca<sup>1</sup>; <sup>1</sup>Centro Universitário do Leste de Minas Gerais, <sup>2</sup>Secretaria Municipal de Educação do Rio de Janeiro
- 09:45 Blast furnace slag from charcoal in order to obtain alkali activated cements** S.P4.165  
Eloise Aparecida Langaro<sup>1</sup>, CAROLINE ANGULSKI DA LUZ<sup>1</sup>, Adalberto Matoski<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná
- 09:45 BaSn<sub>1-x</sub>Fe<sub>x</sub>O<sub>3</sub> (x = 0; 0,05 e 0,1) obtained by the modified-Pechini method for photodegradation of textile dyes** S.P4.166  
Kleber Figueiredo Moura<sup>1</sup>, Laís Chantelle De Lima<sup>1</sup>, Elson Longo<sup>2</sup>, Antônio Gouveia de Souza<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Unesp-Araraquara

- 09:45 Comparative study of recycled aggregates for use in mortars and concrete with non-structural purposes** S.P4.167  
Gabriela Barbosa Bruno<sup>1</sup>, Evilane Cassia Farias<sup>1</sup>, Marcos Alyssandro Soares Anjos<sup>1</sup>, Aldemaykon Reis Melo<sup>1</sup>, Ayrton Wagner Barbosa Silva<sup>1</sup>, Igor Mauricio Paulino<sup>1</sup>, Luiza Gabriela Santos Medeiros<sup>1</sup>, Natália Valesca Silva Cavalcanti<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte
- 09:45 Evaluation of degradation of PP containing organic prooxidant agent by photo and thermal aging** S.P4.168  
Rafaela Guimarães da Rocha<sup>1</sup>, Derval dos Santos Rosa<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 09:45 Use of welding flux slag as fine aggregate in mortar multiple use .** S.P4.169  
Dienne Clara Souza Silva<sup>1</sup>, Tairon Moreira Costa<sup>1</sup>, Paulo Henrique Oliveira Maia<sup>1</sup>, Emerson Oliveira Papa<sup>1</sup>, Laisa Chaves Teixeira<sup>1</sup>, Cláudia Nazaré dos Santos<sup>2</sup>, Cinthia Brito Fonseca<sup>1</sup>; <sup>1</sup>Centro Universitário do Leste de Minas Gerais, <sup>2</sup>Secretaria Municipal de Educação do Rio de Janeiro
- 09:45 Determination the arrangement of steel fibers in an eco-efficient reinforced concrete using indutance assays.** S.P4.170  
Arthur Henrique Vieira de Melo<sup>1</sup>, Maria Greice da Silva Brito<sup>1</sup>, Daniel de Andrade Souza<sup>1</sup>, Aline da Silva Ramos Barboza<sup>1</sup>; <sup>1</sup>Universidade Federal de Alagoas
- 09:45 Influence of vegetable biomass in flammability of composites obtained by plastic bags recycling** S.P4.171  
Meriene Gandara<sup>1</sup>, Alessandro Costa Pinto<sup>1</sup>, Angelo Capri Neto<sup>1</sup>, Maria da Rosa Capri<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 09:45 Study of influence of water absorption on mechanical properties of miriti wood (*Mauritia flexuosa* L.f.) with potential use in aero and ship structural modeling** S.P4.172  
Luiz Fernando Santos<sup>1</sup>, Vagner Matos<sup>1</sup>, Lucas Antônio de Souza Formiga<sup>1</sup>, Bruno Nazário Coelho<sup>1</sup>, Adilson Rodrigues Costa<sup>1</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 09:45 Characterization by X Ray Diffraction and Rietveld Method of High-Energy Ball Milling Eggshell** S.P4.173  
Mitsuo Lopes Takeno<sup>1</sup>, Wanison André Gil Pessoa Júnior<sup>2</sup>, Lizandro Manzato<sup>2</sup>; <sup>1</sup>Universidade Federal do Amazonas, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Amazonas
- 09:45 H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub> supported on Nb<sub>2</sub>O<sub>5</sub> for transesterification of Macauba Oil** S.P4.174  
LIVIA MELO CARNEIRO<sup>1</sup>, MILENA TIE AKASAKA<sup>1</sup>, JOÃO PAULO ALVES SILVA<sup>1</sup>, JUAN DANIEL RIVALDI<sup>1</sup>, HEIZIR FERREIRA DE CASTRO<sup>1</sup>; <sup>1</sup>Escola de engenharia de Lorena/Universidade de São Paulo
- 09:45 Thermal synthesis and characterization of LiCoO<sub>2</sub> recycled from spent Lithium-ion batteries** S.P4.175  
VITOR CEZAR BROETTO PEGORETTI<sup>1</sup>, Marcos Benedito Jose de Freitas<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO
- 09:45 Chemical characteristics of the amazon low density miriti palm (*Mauritia flexuosa* L.f.)** S.P4.176  
Luiz Fernando Santos<sup>1</sup>, Lucas Antônio de Souza Formiga<sup>1</sup>, Bruno Nazário Coelho<sup>1</sup>, THIAGO AUGUSTO DE SOUSA MOREIRA<sup>2</sup>, Kátia Monteiro Novack<sup>1</sup>, Rodrigo Fernando Bianchi<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Universidade Federal do Oeste do Pará
- 09:45 Support materials for biological filters used to remove H<sub>2</sub>S in anaerobic effluents** S.P4.177  
André Felipe de Melo Sales Santos<sup>1</sup>, Ana Cláudia Araújo<sup>1</sup>, Priscila de Souza Monteiro<sup>2</sup>, Maurício Motta Sobrinho<sup>3</sup>; <sup>1</sup>Universidade Federal Rural de Pernambuco, <sup>2</sup>Cetrel Bioenergia Ltda., <sup>3</sup>Universidade Federal de Pernambuco
- 09:45 Influence of screw rotation on the mechanical and thermal properties of PHB composites containing Microfibillated cellulose (MFC)** S.P4.178  
Rafael Silva Araújo<sup>1,2</sup>, Priscila Ferreira de Oliveira<sup>2</sup>, Maria de Fátima Vieira Marques<sup>2</sup>, Claudinei Rezende Calado<sup>1</sup>, Augusto Cesar da Silva Bezerra<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais, <sup>2</sup>Institute of Macromolecules, IMA/UFRJ
- 09:45 sPES membranes comprising protic ionic liquid for anhydrous PEMFC application** S.P4.179  
João Arthur Lunau Batalha<sup>1</sup>, Ailton de Souza Gomes<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 09:45 Structural and chemical stability of zirconium-doped BSCF membranes for oxygen separation** S.P4.180  
FRANCESCA TATIANA ALBINO<sup>1</sup>, Priscila Lemes Rachadel<sup>1</sup>, RAFAEL VIDAL ELEUTÉRIO<sup>1</sup>, Dachamir Hotza<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA
- 09:45 CeO<sub>2</sub>-Nb<sub>2</sub>O<sub>5</sub> mixed oxide by Mechanical Alloying: Synthesis and Characterization** S.P4.181  
Aline Sousa Da Silva<sup>1</sup>, Mitsuo Lopes Takeno<sup>2</sup>, Sérgio Michielon de Souza<sup>2</sup>, Lizandro Manzato<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, <sup>2</sup>Universidade Federal do Amazonas
- 09:45 The evaluation of silica fume addition on the fracture toughness and mechanical strength of concrete for road rigid pavements.** S.P4.182  
Joamir Henrique da Silva<sup>1</sup>, Wanderson Santana da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte

- 09:45 Study of replacement of cement by lime in manufacturing holed soil cement bricks** S.P4.183  
JOSE DIOGO BARBOSA DE ALMEIDA<sup>1</sup>, EMANUEL FILIPE SANTOS AMARAL<sup>1</sup>, ELIÉDSON RAFAEL DE CARVALHO<sup>1</sup>, Sheyla Karolina Justino Marques<sup>1</sup>; <sup>1</sup>INSTITUTO FEDERAL DE ALAGOAS
- 09:45 Development and application of a measuring system for electrical characterization of second generation superconducting tapes for improve energy efficiency in power cable.** S.P4.184  
Marcelo Azevedo Neves<sup>1</sup>, Luiz Maltar Castello Branco<sup>1</sup>, Artur Jorge da Silva Lopes<sup>1</sup>, Edson de Pinho da Silva<sup>1</sup>, Marco Antonio Pereira do Rosário<sup>2</sup>, Fabio Ofredi Maia<sup>1</sup>, Abraão Queiroz<sup>1</sup>, Carlos Alexandre Meireles do Nascimento<sup>3</sup>; <sup>1</sup>Universidade Federal Rural do Rio de Janeiro, <sup>2</sup>NeoKinética, <sup>3</sup>Companhia Energética de Minas Gerais
- 09:45 Mechanical behavior of concrete prepared with the addition of seeds and açaí fibers.** S.P4.185  
Thiago de Almada Lopes<sup>1</sup>, Fabricio Augusto Sousa da Silva<sup>1</sup>, THIAGO AUGUSTO DE SOUSA MOREIRA<sup>1</sup>, Paulo Henrique Lobo Neves<sup>2</sup>; <sup>1</sup>Universidade Federal do Oeste do Pará, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 09:45 Characterization of LD converter slag and evaluation of its utilization in the cement industry and as chilling agent in the LD converter** S.P4.186  
Ticiane Vieira de Paula Souza<sup>1</sup>, Diego Félix Dias<sup>1</sup>, Thiago Soares Ribeiro<sup>1</sup>, Igor Frota de Vasconcelos<sup>1</sup>, Nestor Cezar Heck<sup>2</sup>, Jeferson Leandro Klug<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Universidade Federal do Rio Grande do Sul
- 09:45 Adsorption Studies of Blue Toluidine and Safranin at a Cellulosic Biomaterial Using Finite Batch Technique** S.P4.187  
Patrícia Silva Oliveira<sup>1</sup>, Robson Pinheiro da Silva Junior<sup>1</sup>, Arlan de Assis Gonsalves<sup>1</sup>, Cleonia Roberta Melo Araujo<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco
- 09:45 Hydroxyapatite-hydroxalcite material doped with carbon nanotubes: Use in the transesterification of soybean oil.** S.P4.188  
Tiago Sergio Aleixo Barros<sup>1</sup>, Henrique Brasil<sup>2</sup>, Elizabeth Soares Rodrigues<sup>1</sup>, Marcos Allan Leite Reis<sup>1</sup>, José Augusto Corrêa<sup>1</sup>, Luis Adriano Santos Nascimento<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Universidade Estadual de Campinas
- 09:45 Influence of different reagents in the alkaline stage of starch extraction from agroindustrial waste of tomy Atkins mango** S.P4.189  
Ana Vitória de Oliveira<sup>1</sup>, Débora Meire Veras Braga<sup>1</sup>, Morsyleide de Freitas Rosa<sup>2</sup>, Men de Sá Moreira de Souza Filho<sup>2</sup>, Henriette Monteiro Cordeiro de Azeredo<sup>2</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Embrapa Agroindústria Tropical
- 09:45 Incorporation of virgin polymers in ABS and HIPS waste from electrical and electronic equipment to recover mechanical properties.** S.P4.190  
Denise Hirayama<sup>1</sup>, Clodoaldo Saron<sup>1</sup>; <sup>1</sup>Escola de engenharia de Lorena/Universidade de São Paulo
- 09:45 Aqueous tape casting of BSCF membranes for oxygen separation** S.P4.191  
 RAFAEL VIDAL ELEUTÉRIO<sup>1</sup>, Priscila Lemes Rachadel<sup>1</sup>, FRANCESCA TATIANA ALBINO<sup>1</sup>, Dachamir Hotza<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 09:45 Adsorption of chromium (VI) by Material hydroxyapatite-hydroxalcite doped carbon nanotubes** S.P4.192  
Clarissa Cruz Pereira<sup>1</sup>, Elizabeth Maria Soares Rodrigues<sup>1</sup>, Ossalin de Almeida<sup>1</sup>, José Augusto Corrêa<sup>1</sup>, Marcos Allan Leite Reis<sup>1</sup>, Patricia Magalhães Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 09:45 The use of reject copper sulfide in the structural ceramics manufacturing** S.P4.193  
 Kaline Dantas Silva<sup>1</sup>, Wirland Matheus de Melo Costa<sup>1</sup>, Ana Paula Sales Leal<sup>1</sup>, Adriano Alves Rabelo<sup>1</sup>, Elias Fagury Neto<sup>1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará
- 09:45 Oxidation of Oxalic Acid Initiated by Hydroxyl Radicals on Mineral Aerosols Surface. A Mechanistic, Kinetic and Spectroscopic Study** S.P4.194  
Cristina Iuga<sup>1</sup>, Claro Ignacio Sainz Díaz<sup>2</sup>, Sergio Alejandro Martínez-Delgado<sup>3</sup>, Marcos May-Lozano<sup>3</sup>; <sup>1</sup>Universidad Autónoma Metropolitana Xochimilco, <sup>2</sup>Universidad de Granada, <sup>3</sup>Universidad Autónoma Metropolitana Azcapotzalco
- 09:45 Applicability of Curauá fibers (Ananas erectifolius), Jarina (Phytelephas macrocarpa Ruiz & Pav. ) and Burití (Mauritia flexuosa) particles in Orthosis for hip joint protection** S.P4.195  
 Ayrles Silva Mendonça<sup>1</sup>, Luiz Gonzaga Martins<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas
- 09:45 Preparation and characterization of cellulosic and lignocellulosic fibers from banana peels stalks (Musa Sapientum)** S.P4.196  
Oscar Giordani Paniz<sup>1</sup>, JOSÉ EUCLIDES RODRIGUES BELTRAN<sup>1</sup>, Margarete Regina Freitas GONÇALVES<sup>1</sup>, Caio César Nogueira MELO<sup>1</sup>, Vinicius Gonçalves Deon<sup>1</sup>, Neftalí Lenin Villarreal Carreño<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 09:45 The effectiveness of plant extracts as corrosion inhibitors of mild steel** S.P4.197  
 José Rodrigues Beltran<sup>1</sup>, Poliana Pollizello Lopes<sup>2</sup>, Margarete Regina Freitas GONÇALVES<sup>1</sup>, Antonio Shigueaki Takimi<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Universidade Federal de Santa Maria

- 09:45 Edible films of over-ripe papaya puree and chitosan nanoparticles** **S.P4.198**  
Tais Teo de Barros<sup>1</sup>, Milena Martelli Tosi<sup>2</sup>, Rubens Bernardes-Filho<sup>1</sup>, Odilio B. G. Assis<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>2</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - Universidade de São Paulo
- 09:45 Three-dimensional cellulose structures from banana peel stalks and their use as templates for porous ceramics** **S.P4.199**  
Oscar Giordani Paniz<sup>1</sup>, JOSÉ EUCLIDES RODRIGUES BELTRAN<sup>1</sup>, Margarete Regina Freitas GONÇALVES<sup>1</sup>, Caio César Nogueira MELO<sup>1</sup>, Juliana Neumann Seixas<sup>1</sup>, Leonardo Maciel da Rosa<sup>1</sup>, Bruno Silveira Noremberg<sup>1</sup>, Ricardo Marques e Silva<sup>1</sup>, Vinicius Gonçalves Deon<sup>1</sup>, Guilherme Kurz Maron<sup>1</sup>, Neftalí Lenin Villarreal Carreño<sup>1</sup>, Igor José Cherubin<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 09:45 Chemical and microstructural characterization of non-traditional materials as precursors for the geopolymer synthesis** **S.P4.200**  
Ithyara Machado Medeiros<sup>1</sup>, Kelly Cristiane Gomes<sup>1</sup>, José Felix da Silva Neto<sup>1</sup>, Sandro Marden Torres<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 09:45 Influence of the thermal treatment in the development of iron sulphate from mill scale iron waste** **S.P4.201**  
Luana Milak Furmanski<sup>1</sup>, Karoline Maragno Benedet<sup>1</sup>, Angela Beatriz Coelho Arnt<sup>1</sup>, Marcio Roberto da Rocha<sup>1</sup>, Michael Peterson<sup>1</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense
- 09:45 Nanocomposite hydrogels based on polyacrylamide-methylcellulose and Mg-Al layered double hydroxides for agricultural application** **S.P4.202**  
Flavio Augusto Cavadas Andrade<sup>1,2</sup>, Cauê Ribeiro Oliveira<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação Agropecuária - São Carlos, <sup>2</sup>Federal University of São Carlos
- 09:45 Microsilica performance evaluation as a new abrasive agent in porcelain polishing** **S.P4.203**  
Rafaela Nepomuceno e Vidigal<sup>1</sup>, Claudinei Rezende Calado<sup>1</sup>, Ivete Peixoto Pinheiro<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais
- 09:45 Rheological study of bentonite clays using magnesium oxide sodium hydroxide and sodium carbonate as dispersing agents** **S.P4.204**  
Bruna Michele Arruda de Brito<sup>1</sup>, Juliana Melo Cartaxo<sup>1</sup>, Josué da Silva Buriti<sup>1</sup>, Neyber Fádio Cavalcanti Nascimento<sup>1</sup>, Gelmires Araújo Neves<sup>1</sup>, Heber Carlos Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal de Campina Grande
- 09:45 Development of geopolymers reinforced with natural fiber from amazonia** **S.P4.205**  
Kaline Dantas Silva<sup>1</sup>, Julliene Cristiny de Oliveira Portela<sup>1</sup>, Márcio Paulo de Araújo Mafra<sup>1</sup>, Adriano Alves Rabelo<sup>1</sup>, Renata Lilian Ribeiro Portugal Fagury<sup>1</sup>, Elias Fagury Neto<sup>1</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará
- 09:45 Wear resistance of red mud coating in aluminum alloy** **S.P4.206**  
Livia Sottovia<sup>1</sup>, Maria Lucia Pereira Antunes<sup>1</sup>, Bruno Oliveira Garcia<sup>2</sup>, Felipe Saura<sup>1</sup>, Elidiane Cipriano Rangel<sup>1</sup>, Nilson Cristiano Cruz<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Sorocaba, <sup>2</sup>Universidade Estadual Paulista - Campus Rio Claro
- 09:45 Composite vulcanized obtained by mixture of natural rubber with leather industrial residue in different phr** **S.P4.207**  
Renivaldo José dos Santos, Leila Maria Silva, Clara Yoshiko Hori, Deuber Lincon da Silva Agostini, Flávio Camargo Cabrera, Guilherme Dognani<sup>1</sup>, Aldo Eloizo Job, Eduardo Roque Budemberg; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente
- 09:45 Effect of plasticizers content in bovine gelatin by torque rheometry** **S.P4.208**  
Yana Luck Nunes<sup>1</sup>, Hálisson Lucas Ribeiro<sup>2</sup>, Lucas Gomes da Silva Catunda<sup>2</sup>, Victor Cunha Castro<sup>2</sup>, Men de Sá Moreira de Souza Filho<sup>3</sup>, Maria Carolina Burgos Costa<sup>1</sup>, Morsyleide de Freitas Rosa<sup>3</sup>, Henriette Monteiro Cordeiro de Azeredo<sup>3</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Universidade Federal do Ceará, <sup>3</sup>Embrapa Agroindústria Tropical
- 09:45 Ethylene adsorption on chitosan/zeolite composite films** **S.P4.209**  
Suliane Dantas do Nascimento Sousa<sup>1</sup>, Thalles Senna Diógenes<sup>1</sup>, Débora Aline Soares Maia<sup>1</sup>, Rodrigo Silveira Vieira<sup>1</sup>, Moisés BASTOS NETO<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 09:45 Analysis of power consumed during the sanding of the species Pinus elliottii and Corymbia citriodora at different moisture contents** **S.P4.210**  
Larissa Ribas de Lima Soares<sup>1</sup>, Carlino Carvalho de Almeida<sup>2</sup>, Manoel Cleber de Sampaio Alves<sup>2</sup>, Sarah David Muzel<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>UNIVERSIDADE ESTADUAL PAULISTA
- 09:45 Thermal and morphological properties of whey and gelatin films** **S.P4.211**  
Camila Souza Andrade, Tairine Pimentel, Farayde Matta Fakhouri<sup>1,2</sup>, Lucia Helena Innocentini Mei<sup>2</sup>, Gustavo Graciano Fonseca<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal da Grande Dourados, <sup>2</sup>Universidade Estadual de Campinas

- 09:45 Thermal and microstructural analysis of tailings plaster and tile to obtain filters** S.P4.212  
Renata Ferreira Sousa<sup>1</sup>, Elione Moura Carlos<sup>1</sup>, Jose Renato Lima Câmara<sup>1</sup>, jose ubiragi lima mendes<sup>1</sup>, Rousana Ferreira Sousa<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 09:45 Evaluation of physical and chemistry characterization of panelboards MDF (Medium Density Fiberboard)** S.P4.213  
Milena Rosa Lopes Lozano<sup>1</sup>, Rita de Cássia da Silva, Alcides Lopes Leão; <sup>1</sup>Faculdade Ciências Agrômicas-UNESP
- 09:45 Porous body production of cement composite for use in humidity measurement cell used in agricultural irrigation.** S.P4.214  
 Cesar Alves da Silva Filho<sup>1</sup>, Wellington A. de Freitas<sup>1</sup>, Bárbara Oliveira Gontijo<sup>1</sup>, Kaíque Osorio Alves Neto Silva<sup>1</sup>, Ananda Lúcia Duarte Lima Botelho<sup>1</sup>, Roseli Marins Balestra<sup>1</sup>; <sup>1</sup>Universidade Federal de São João del-Rei
- 09:45 Study of the mechanical properties of structural ceramics added of crushed rock waste** S.P4.215  
Edmilson Pedreira dos Reis<sup>1</sup>, Uílame Umbelino Gomes<sup>2</sup>, Valter Bezerra Dantas Dantas<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia da Bahia, <sup>2</sup>Federal University of Rio Grande do Norte
- 09:45 Modification of bentonite for azo-dye adsorption** S.P4.216  
Pollyana de Aragão Trigueiro<sup>1</sup>, Elson Longo<sup>2</sup>, Antônio Gouveia de Souza<sup>1</sup>, Maria Gardennia Fonseca<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade federal da Paraíba, <sup>2</sup>Universidade Federal de São Carlos
- 09:45 Pure ZnO and ZnO:Al<sup>3+</sup> obtained by the modified Pechini method applied to ethanol transesterification of cottonseed oil** S.P4.217  
Maria de Fátima Pereira<sup>1</sup>, Ana Flávia Felix Farias<sup>1</sup>, Jakeline Daniela Soares da Silva Nascimento<sup>2</sup>, Adriana Almeida Cutrim<sup>3</sup>, Antônio Gouveia de Souza<sup>1</sup>, Líliliana Lira Pontes<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Bentonisa do Nordeste S.A., <sup>3</sup>Universidade Federal de Campina Grande
- 09:45 ZrO<sub>2</sub>-SnO<sub>2</sub> porous ceramic for soil moisture sensor application** S.P4.218  
Rodrigo de Matos Oliveira<sup>1</sup>, Maria do Carmo de Andrade Nono<sup>1</sup>, Franciele Carlesso<sup>1</sup>, Bruna Fernanda Aparecida da Silva Lima<sup>2</sup>; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais, <sup>2</sup>Universidade Federal de São Paulo, São José dos Campos
- 09:45 Production of activated carbon from nutshell as an alternative material for adsorption of methylene blue** S.P4.219  
Luana Milak Furmanski<sup>1</sup>, Patricia Darolt de Costa<sup>1</sup>, Lucas Domingui<sup>2</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de Santa Catarina
- 09:45 Synthese of zeólita (hydroxy-sodalite) from fly ash and hydrothermal treatment** S.P4.220  
Tamiris Cristina de Lima Maues<sup>1</sup>, Carlos Augusto Ferreira da Rocha Junior<sup>1</sup>, Emerson Cardoso Rodrigues<sup>1</sup>, José Antonio da Silva Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 09:45 Application possibilities of polymer composite made from recycled industrial waste polyurethane thermoset** S.P4.221  
Victor José dos Santos Baldan<sup>1</sup>, Javier Mazariegos Pablos<sup>1</sup>, Eduvaldo Paulo Sichieri<sup>1</sup>; <sup>1</sup>Instituto de Arquitetura e Urbanismo, Universidade de São Paulo
- 09:45 Application possibilities of polymer composite made from recycled PET bottles** S.P4.222  
Victor José dos Santos Baldan<sup>1</sup>, André Pina de Mesquita<sup>2</sup>, Javier Mazariegos Pablos<sup>1</sup>, Eduvaldo Paulo Sichieri<sup>1</sup>; <sup>1</sup>Instituto de Arquitetura e Urbanismo, Universidade de São Paulo, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 09:45 Analysis of the construction solid waste management in the city of monteiro-pb** S.P4.223  
 katucha kamilla PEREIRA<sup>1</sup>, Anna Carla Neves Silva<sup>2</sup>, Renan Caldeira de Andrade<sup>2</sup>, Edson Rangel de Souza<sup>2</sup>, Walter Ladislau Barros Ribeiro<sup>2</sup>; <sup>1</sup>Universidade federal da Paraíba, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia da Paraíba
- 09:45 Effect of pozzolanic mineral additions in the manufacturing of unburned bricks organicsustainable** S.P4.224  
Felipe da Silva Barros<sup>1</sup>, Miguel Angel Ramírez Gil<sup>1</sup>, Guilherme Rogeri Moreira Santos<sup>1</sup>, Luis Felipe Dantas Lameze<sup>1</sup>, Thiago de Souza Dias<sup>2</sup>, Luiz Flávio Castro Silva<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Julio de Mesquita Filho" - Campus de Guaratinguetá, <sup>2</sup>Colégio Técnico Industrial de Guaratinguetá
- 09:45 Use of rice rusk ash and spent catalyst as a source of raw material for the production and characterization of soda-lime silicate glasses destined for packaging** S.P4.225  
Mariana Silva Araujo<sup>1</sup>, Luis Antonio Genova<sup>2</sup>, Ulisses Soares do Prado<sup>3</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares, <sup>2</sup>Instituto de Pesquisas Energéticas e Nucleares, <sup>3</sup>Lining Repr. Consult.
- 09:45 Influence of acid treatments to avoid hornification of commercial microfibrillated cellulose (MFC)** S.P4.226  
Rafael Silva Araújo<sup>1,2</sup>, Frederico dias<sup>3</sup>, Augusto Cesar da Silva Bezerra<sup>1</sup>, Claudinei Rezende Calado<sup>1</sup>, Maria de Fátima Vieira Marques<sup>3</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais, <sup>2</sup>Institute of Macromolecules, IMA/UFRJ, <sup>3</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ

- 09:45 Extraction and Characterization of Humic Acid from different carbon bearing materials: waste coal, coke and green petroleum coke** S.P4.227  
Tiphane Andrade Figueira<sup>1</sup>, Eduardo Albuquerque Brocchi<sup>1</sup>; <sup>1</sup>Pontificia Universidade Catolica do Rio
- 09:45 Use of microalloyed and carbon steels for handling acidic compounds in the biodiesel industry.** S.P4.228  
Ana Isabel de Carvalho Santana<sup>1</sup>, Neyda de la Caridad Om Tapanes<sup>1</sup>, Euglacyo Luiz de Moura<sup>1</sup>, Donato Alexandre Gomes Aranda<sup>2</sup>; <sup>1</sup>Centro Universitário Estadual da Zona Oeste, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 09:45 Preparation of biodegradable films from starches babassu obtained via aqueous and alkaline extraction** S.P4.229  
Larissa Tessaro<sup>1</sup>, Bianca Maniglia<sup>1</sup>, Delia Blácido<sup>1</sup>; <sup>1</sup>Departamento de Química, Universidade de São Paulo, Ribeirão Preto
- 09:45 Eco-cement - development of a chemical binder for use in construction.** S.P4.230  
Lidja Rosa Silva Santos<sup>1</sup>, Carlos Alberto Paskocimas<sup>2</sup>, Marcio Luiz Varela Nogueira de Moraes<sup>3</sup>, Sancha Adélia de Lima Vale<sup>3</sup>; <sup>1</sup>State University of Paraíba, <sup>2</sup>Federal University of Rio Grande do Norte, <sup>3</sup>Federal Institute of Education, Science and Technology of Rio Grande do Norte
- 09:45 Evaluation of use of wastes of porcelain polishing, limestone and tire rubber in Lightweight Concrete.** S.P4.231  
Zodínio Laurisa Monteiro Sampaio<sup>1</sup>, Antônio Eduardo Martinelli<sup>1</sup>, Paulo Alysson Souza<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte
- 09:45 Study of cardanol polymerization by cationic initiation** S.P4.232  
Tatiana S. Loureiro<sup>1</sup>, Rocio M. M. Dip<sup>1</sup>, Luciana S. Spinelli<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro
- 09:45 Study of fixed carbon content of cellulose biomass residue of industrial papermaking** S.P4.233  
sandro oliveira santos<sup>1</sup>, Marcos Oliveira Gentil<sup>1</sup>, Elaine Pavini Cintra<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 09:45 Mono aluminum phosphate from anodizing aluminum waste** S.P4.234  
Monize Aparecida Martins<sup>1</sup>, Eduardo Hobold Kammer<sup>1</sup>, Emerson Colonetti<sup>1</sup>, Agenor De Noni Jr<sup>1</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense







## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session T.OR1 (09:45 - 10:45) - Room 08

- 09:45 Nanotoxicology of silver nanoparticles: A critical analysis** T.OR1.1\*  
Nelson Durán<sup>1</sup>, <sup>1</sup>Institute of Chemistry, NanoBioss Laboratory (IQW-UNICAMP), National Laboratory of Nanotechnology (LNNano-CNPEM), Campinas SP, Brazil
- 10:15 From cellular nanoparticle internalization to cytotoxic responses: Searching for biocompatible nanomaterials for drug delivery** T.OR1.2  
Paulo Emílio Corrêa Leite<sup>1</sup>, Camila Macedo da Luz<sup>1</sup>, Matthew Samuel Powys Boyles<sup>2</sup>, Henrique Rudolf Tutumi<sup>1</sup>, Nathalia Baltazar Martins<sup>1</sup>, Mariana Rodrigues Pereira<sup>3</sup>, Albert Duschl<sup>2</sup>, Jose Mauro Granjeiro<sup>3,1</sup>, <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Universität Salzburg, <sup>3</sup>Universidade Federal Fluminense
- 10:30 Cytotoxicity of nitric oxide releasing polymeric nanoparticles against tumor cells** T.OR1.3  
Milena T. Pelegriño<sup>1</sup>, Paloma S. Cunha<sup>1</sup>, Carolina M. Watashi<sup>2</sup>, L. C. Silva<sup>2</sup>, Joyce C. Mello<sup>2</sup>, Paula Silvia Haddad<sup>1</sup>, Tiago Rodrigues<sup>2</sup>, Amedea Barozzi Seabra<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Universidade Federal do ABC

#### Session T.OR2 (11:15 - 12:30) - Room 08

- 11:15 Ensuring Reproducibility in nanotoxicology** T.OR2.4\*  
Ary Corrêa Junior<sup>1</sup>; <sup>1</sup>Microbiology Department, Biological Science Institute Federal University of Minas Gerais, Brazil
- 11:45 SiO<sub>2</sub> nanostructures applied in nanofiltration membranes: characterization and toxicology evaluation** T.OR2.5  
Karine Goulart de Oliveira<sup>1</sup>, Rodrigo Costa Puerari<sup>1</sup>, Cristiane Funghetto Fuzinato<sup>1</sup>, Silvia Pedroso Melegari<sup>1</sup>, Denice Schulz Vicentini<sup>1</sup>, William Gerson Matias<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA
- 12:00 Cytotoxicity of nitric oxide releasing superparamagnetic iron oxide nanoparticles: A promising chemotherapeutic agent** T.OR2.6  
Amedea Barozzi Seabra<sup>1</sup>, Paula Silvia Haddad<sup>1</sup>, Tatiane Pasquôto<sup>2</sup>, Renata de Lima<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Universidade de Sorocaba
- 12:15 Nanotechnologies and the management of risk generated during the product life cycle: the use of the framework and decision tree for the legalise** T.OR2.7  
Wilson Engelmänn<sup>1</sup>, Raquel von Hohendorff<sup>1</sup>, Patrícia Santos Martins<sup>1</sup>; <sup>1</sup>Universidade do Vale do Rio dos Sinos

#### Session T.OR3 (14:00 - 15:15) - Room 08

- 14:00 Nanotoxicology Network (MCTI/CNPq process number 552131/2011-3)** T.OR3.8\*  
José Maria Monserrat<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande / FURG Instituto de Ciências Biológicas (ICB), Rio Grande do Sul
- 14:30 Toxicological evaluation of ZnO-based nanomaterials applied to rendering mortars** T.OR3.9  
Bianca Vicente Oscar<sup>1</sup>, Denice Schulz Vicentini<sup>1</sup>, Cristiane Funghetto Fuzinato<sup>1</sup>, Silvia Pedroso Melegari<sup>1</sup>, William Gerson Matias<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 14:45 Applicability of oecd guidance document n° 129 to evaluate nanoparticle acute toxicity** T.OR3.10  
Italo Cruz Pacheco<sup>1</sup>, Muriel Mesquita<sup>1</sup>, Josemar Maiworm Silva<sup>1</sup>, Jose Mauro Granjeiro<sup>1</sup>, Paulo Emílio Corrêa Leite<sup>1</sup>, Luciene Bottentuit Balottin<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 15:00 HSEnano a web-platform to help on risk assessment of nanocarbon materials** T.OR3.11  
Guilherme Frederico Bernardo Lenz e Silva<sup>1</sup>, Robert Hurt<sup>2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Brown University

## Poster presentations

### Session T.P1 (17:00 - 19:00)

- 17:00 Nanomaterials and nanofabricants** **T.P1.1**  
Dr. Kakha NADIRADZE<sup>1</sup>; <sup>1</sup>BioNanoTechnology Center
- 17:00 Acute exposure of adult zebrafish (Danio rerio) to chitosan-coated magnetic nanoparticles** **T.P1.2**  
Jaqueline Pérola Souza<sup>1</sup>, Camilo Arturo Suarez Ballesteros<sup>1</sup>, Jéssica Fernanda Baretta<sup>2</sup>, Valtencir Zucolotto<sup>1</sup>; <sup>1</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Hyperthermia Therapy Applied to Tumor Cells Using Reduced Graphene Oxide /L-Glutamine nanocomposites as Light/Heat Conversion Agent** **T.P1.3**  
Fabricao Aparecido dos Santos<sup>1</sup>, Catarina Brunhara Batista<sup>1</sup>, Ieda Maria Martinez Paino<sup>1</sup>, Francine Perri Venturini<sup>1</sup>, Valtencir Zucolotto<sup>1</sup>; <sup>1</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 The toxicity of graphene oxide nanoparticles against adult zebrafish (Danio rerio)** **T.P1.4**  
Jéssica Fernanda Baretta<sup>1</sup>, Jaqueline Pérola Souza<sup>2</sup>, Fabrício A. dos Santos<sup>2</sup>, Valtencir Zucolotto<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>INSTITUTO DE FÍSICA DE SÃO CARLOS, USP
- 17:00 Functionalization of iron oxide magnetic nanoparticles with hydrophobic drugs and construction of an AC magnetic field generator for controlled release** **T.P1.5**  
jimmy llontop incio<sup>1</sup>, João Manoel Barbosa Pereira<sup>2</sup>, Antonio Carlos Bruno<sup>2</sup>, Sonia Renaux Wanderley Louro<sup>2</sup>; <sup>1</sup>Pontificia Universidade Catolica do Rio de Janeiro, <sup>2</sup>Pontificia Universidade Católica do Rio de Janeiro
- 17:00 Identification by Raman Scattering Spectroscopy of chemical changes in human sperm exposed in vitro to metolachlor** **T.P1.6**  
 Guilherme Rodrigues Figueiredo<sup>1</sup>, Tamiris Garbiatti de Oliveira<sup>1</sup>, Pedro Henrique Benites Aoki<sup>2</sup>, Carlos José Leopoldo Constantino<sup>2</sup>, Ana Paula Alves Favareto<sup>1</sup>, Patricia Alexandra Antunes<sup>1</sup>; <sup>1</sup>Universidade do Oeste Paulista, <sup>2</sup>FCT-UNESP Campus de Presidente Prudente
- 17:00 Evaluation by Raman Scattering Spectroscopy of human sperm exposure to in vitro pesticide 2,4-D** **T.P1.7**  
Tamiris Garbiatti de Oliveira<sup>1</sup>, Leonardo Negri Furini<sup>2</sup>, Carlos José Leopoldo Constantino<sup>2</sup>, Ana Paula Alves Favareto<sup>1</sup>, Patricia Alexandra Antunes<sup>1</sup>; <sup>1</sup>Universidade do Oeste Paulista, <sup>2</sup>FCT-UNESP Campus de Presidente Prudente

## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session T.OR4 (09:45 - 10:45) - Room 08

- 09:45 An Introduction to Postdoctoral Opportunities in Renewable Energy Research in the US: Consortium for Innovation in Nanotechnology, Energy and Materials (CINEMA)** T.OR4.12\*  
Lawrence Lee Kazmerski
- 10:00 Energy Research Based on Novel Material Science and Nanotechnology at MIT, Stanford University, University of Colorado Boulder, Colorado State University, Colorado School of Mines, and the National Renewable Energy Laboratory** T.OR4.13\*  
Bradley Olsen<sup>1</sup>, Garry Garry Rumbles<sup>2</sup>; <sup>1</sup>Massachusetts Institute of Technology, <sup>2</sup>National Renewable Energy Laboratory
- 10:30 Consortium for Innovation on Nanotechnology, Energy and Materials - 1** T.OR4.14\*  
To be announced<sup>1</sup>; <sup>1</sup>xxx

#### Session T.OR5 (11:15 - 12:30) - Room 08

- 11:15 NANoREG - Brazilian Meeting** T.OR5.15\*  
Valtencir Zucolotto<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos

### Poster presentations

#### Session T.P2 (17:00 - 19:00)

- 17:00 Lichens as biomonitors of cnt aerosols: a possibility?** T.P2.8  
 CAMILA DE OLIVEIRA VIANA<sup>1</sup>, Adelina Pinheiro Santos<sup>2</sup>, Luiz Orlando Ladeira<sup>1</sup>, Ary Corrêa Junior<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear
- 17:00 Nanotoxicological effect of the coprecipitated Hydroxyapatite for aquatic microorganism** T.P2.9  
Flávia Fontes Pereira<sup>1</sup>, Elaine Cristina Paris<sup>2</sup>, Marcos David Ferreira<sup>2</sup>, Daniel Souza Corrêa<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 17:00 Development of Graphene Oxide hybrids for treatment of Bladder Cancer** T.P2.10  
Joel Gonçalves Souza<sup>1</sup>, Miriam dos Santos Muniz<sup>1</sup>, Marcela Andrea Durán Haun Senatore<sup>1</sup>, Nelson Durán<sup>1</sup>, Wagner José Fávaro<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 In vivo nanotoxicology of graphene oxide** T.P2.11  
Marcela Andrea Durán Haun Senatore<sup>1</sup>, Nelson Durán<sup>1</sup>, Wagner José Fávaro<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Histopathological and toxicological effects of doxorubicin and cisplatin loaded in reduced graphene oxide for bladder cancer treatment** T.P2.12  
Marcela Andrea Durán Haun Senatore<sup>1</sup>, Renata Vilela<sup>1</sup>, Patrick Vianna Garcia<sup>1</sup>, Joel Gonçalves Souza<sup>1</sup>, Helder José Ceragioli<sup>1</sup>, Nelson Durán<sup>1</sup>, Wagner José Fávaro<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

## Thursday, October 1st

### Poster presentations

#### Session T.P3 (09:45 - 11:45)

- 09:45 A theoretical study of the binding of antitumor rhenium clusters to DNA purine bases** T.P3.13  
Rodrigo Ramirez-Tagle<sup>1</sup>, Leonor Alvarado-Soto<sup>1</sup>; <sup>1</sup>Universidad Bernardo O'Higgins
- 09:45 Amazonian actinomycetes: antibacterial and antifungal activities of biogenic silver nanoparticles** T.P3.14  
Nelly M Vinhote-Marinho<sup>1</sup>, Taciana de Amorin Sulva<sup>1</sup>, Thiago Marinho Pereira<sup>1</sup>, Tamiris Rio Branco da Fonseca<sup>1</sup>, Raimundo Felipe da Cruz filho<sup>1</sup>, Ana Carolina Mazarin de Moraes<sup>2</sup>, Patricia Fernanda Andrade<sup>2</sup>, Maria Francisca Simas Teixeira<sup>1</sup>, Nelson Durán<sup>2</sup>; <sup>1</sup>Universidade Federal do Amazonas, <sup>2</sup>Universidade Estadual de Campinas
- 09:45 Dispersion of rutile nanoparticles in biological milieu for cosmetics applications** T.P3.15  
Priscila Laviola Sanches<sup>1</sup>, Wanderson Souza<sup>1</sup>, Juliana Moscoso, Helena Margarida Vaz Cruz<sup>2</sup>, Sara Gemini Piperni<sup>1</sup>, André Linhares Rossi<sup>3</sup>, Luís Augusto Rocha<sup>4</sup>, Jose Mauro Granjeiro<sup>1</sup>, Ana Rosa Ribeiro<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Center MicroElectroMechanical Systems, Universidade do Minho, Campus de Azurém, Guimarães, <sup>3</sup>Centro Brasileiro de Pesquisas Físicas, <sup>4</sup>Faculde de Ciencias- UNESP Bauru
- 09:45 Hemolytic effect of silica nanoparticles: evaluating the influence of protein corona formation** T.P3.16  
Diego Stéfani Tedoro Martinez<sup>1</sup>, Amauri Jardim Paula<sup>2</sup>, Leandro Carneiro Fonseca<sup>3</sup>, Luis Visani Luna<sup>3</sup>, Camila Pedroso Silveira<sup>3</sup>, Nelson Durán<sup>3</sup>, Oswaldo Luiz Alves<sup>3</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP, <sup>2</sup>Universidade Federal do Ceará, <sup>3</sup>Universidade Estadual de Campinas
- 09:45 Nanoparticles in vitro phototoxicity evaluation in mouse fibroblast cell line Balb/c 3T3 clone 31** T.P3.17  
Josemar Maiworm Silva<sup>1,2</sup>, Italo Cruz Pacheco<sup>2</sup>, Muriel Mesquita<sup>2</sup>, Jose Mauro Granjeiro<sup>2</sup>, Luciene Bottentuit Balottin<sup>2</sup>; <sup>1</sup>Universidade Católica de Petrópolis, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 09:45 Biosynthesis and cytotoxicity of gold nanoparticles using cupriavidus metallidurans CH34 cells** T.P3.18  
Francisco Montero<sup>1</sup>, Michael Seeger<sup>1</sup>, Nelson Durán<sup>2</sup>; <sup>1</sup>Universidad Técnica Federico Santa María, <sup>2</sup>Universidade Estadual de Campinas
- 09:45 Effects of carbofuran and oxidised multiwalled carbon nanotubes on the freshwater fish Nile tilapia** T.P3.19 **T**  
Edison Barbieri<sup>1</sup>, Diego Stéfani Tedoro Martinez<sup>2</sup>, Oswaldo Luiz Alves<sup>3</sup>, Janaina Campos Garcia<sup>1</sup>; <sup>1</sup>Instituto de Pesca, <sup>2</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP, <sup>3</sup>Universidade Estadual de Campinas
- 09:45 Comparison of graphene-silver nanocomposite toxicity to macrophages from tumoral and peritoneal line and influence of nanomaterial aggregation** T.P3.20  
Luis Visani Luna<sup>1</sup>, Ana Carolina Mazarin de Moraes<sup>1</sup>, Selma Giorgio<sup>1</sup>, Oswaldo Luiz Alves<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 09:45 Evaluating the graphene oxide dispersions for Fish Embryo Toxicity (FET) test** T.P3.21  
Zaira Clemente<sup>1,2</sup>, Diego Stéfani Teodoro Martinez<sup>1</sup>, Vera Lúcia Scherholz Salgado Castro<sup>3</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), Campinas-SP, <sup>2</sup>Laboratório de Ecotoxicologia e Biossegurança - EMBRAPA Meio Ambiente, Jaguariúna - SP, <sup>3</sup>Laboratório de Ecotoxicologia e Biossegurança - EMBRAPA MEIO AMBIENTE - Jaguariúna, SP.
- 09:45 Surface Modification of Silica Based Mesoporous Nanoparticles , its biological applications and new trends** T.P3.22  
Leandro Carneiro Fonseca<sup>1</sup>, Amauri Jardim de Paula<sup>1</sup>, Diego Stéfani Tedoro Martinez<sup>1</sup>, Oswaldo Luiz Alves<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 09:45 Silver-graphene oxide nanocomposites as biocidal agents against methicillin-resistant Staphylococcus aureus** T.P3.23  
Ana Carolina Mazarin de Moraes<sup>1</sup>, Andréia Fonseca de Faria<sup>1</sup>, Bruna Araujo Lima<sup>1</sup>, Marcelo Brocchi<sup>1</sup>, Oswaldo Luiz Alves<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 09:45 Cancer cell-membrane coated gold nanorods for multimodal diagnostic and cancer therapy** T.P3.24  
Valeria Spolon Marangoni<sup>1</sup>, Juliana Cancino Bernardi<sup>1</sup>, Valtencir Zucolotto<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC),





## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session V.OR1 (09:45 - 10:45) - Room 07

**09:45 New approaches in high-resolution 3D imaging of biointerfaces** V.OR1.1\*  
Kathryn Grandfield<sup>1</sup>; <sup>1</sup>McMaster University

**10:15 High Modulus Thermoresponsive Elastin-Like Polypeptide Gels as New Injectable Biomaterials for Cartilage Tissue Engineering** V.OR1.2  
Bradley Olsen<sup>1</sup>, Matthew Glassman<sup>1</sup>, Reginald Avery<sup>1</sup>, Sybele Saska<sup>1</sup>, Ali Khademhosseini<sup>2</sup>; <sup>1</sup>Massachusetts Institute of Technology, <sup>2</sup>Harvard University

**10:30 Development of 3D aggregate models for cytocompatibility evaluation of biomaterials** V.OR1.3  
Ana Carolina Batista<sup>1</sup>, Daniela Costa Silva<sup>1</sup>, Luciana Restle, Róber Freitas Bachinski, Adriana Brandão Ribeiro Linhares, Gutemberg Gomes Alves; <sup>1</sup>Universidade Federal Fluminense

#### Session V.OR2 (11:15 - 12:30) - Room 07

**11:15 From Atoms and Bonds to Colours: What Can We \** V.OR2.4\*  
Gianluigi Botton<sup>1</sup>; <sup>1</sup>McMaster University

**11:45 New insights at the titanium nano biointerface: repercussions in human health effects** V.OR2.5  
Ana Rosa Ribeiro<sup>1</sup>, Sara Gemini Piperni<sup>1</sup>, Luisa Teixeira<sup>1</sup>, Wanderson Souza<sup>1</sup>, Renata Travassos<sup>1</sup>, Renata Carvalho<sup>1</sup>, Helena Margarida Vaz Cruz<sup>2</sup>, Alexandre Malta Rossi<sup>2</sup>, Marcos Farina<sup>4</sup>, Jacques Werckmann<sup>1</sup>, Luís Augusto Rocha<sup>5</sup>, Jose Mauro Granjeiro<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Center MicroElectroMechanical Systems, Universidade do Minho, Campus de Azurém, Guimarães, <sup>3</sup>Centro Brasileiro de Pesquisas Físicas, <sup>4</sup>Universidade Federal do Rio de Janeiro, <sup>5</sup>Faculde de Ciencias- UNESP Bauru

**12:00 Physico- chemical and biological characterization of bio-composites zinc substituted carbonated hydroxyapatite** V.OR2.6  
Jéssica Dornelas da Silva<sup>1,2</sup>, Gisele Dornelas da Silva<sup>1,2</sup>, Marcelo Neves Tanaka<sup>2</sup>, Gutemberg Gomes Alves<sup>1</sup>, Elena Mavropoulos<sup>2</sup>, Alexandre Malta Rossi<sup>2</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas

**12:15 Analytical Transmission Electron Microscopy for the study of biomaterials and biominerals** V.OR2.7\*  
Jacques Werckmann

#### Session V.OR3 (14:00 - 15:15) - Room 07

**14:00 Large-scale analysis of microRNA expression in newly formed bone in contact with poly(vinylidene-trifluoroethylene)/barium titanate composite** V.OR3.8  
Helena Bacha Lopes<sup>1</sup>, Emanuela Prado Ferraz<sup>1</sup>, Mohammad Quamarul Hassan<sup>2</sup>, Adalberto Luiz Rosa<sup>1</sup>, Marcio Mateus Beloti<sup>1</sup>; <sup>1</sup>Cell Culture Laboratory, School of Dentistry of Ribeirão Preto, <sup>2</sup>University of Alabama Birmingham

**14:15 Platelet-rich plasma modulates mesenchymal stromal cells chondrogenesis in collagen-hyaluronic acid scaffolds according to concentration** V.OR3.9  
Ronaldo José Farias Corrêa do Amaral<sup>1,2</sup>, Amos Matsiko<sup>3,4,5</sup>, Marcel Renan Paulino Tomazette<sup>6</sup>, Wanessa K R Rocha<sup>7</sup>, Eric Cordeiro-Spinetti<sup>6</sup>, Tanya J Levingstone<sup>3,4,5</sup>, Marcos Farina<sup>1</sup>, Fergal J O'Brien<sup>3,4,5</sup>, Marcia Cury El-Cheikh<sup>1</sup>, Alex Balduino<sup>6,2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Excellion Serviços Biomédicos, Amil/UnitedHealth Group, <sup>3</sup>Royal College of Surgeons of Ireland, <sup>4</sup>Trinity College University of Dublin, <sup>5</sup>Advanced Materials and Bioengineering Research Centre, <sup>6</sup>Universidade Veiga de Almeida, <sup>7</sup>Instituto Estadual de Hematologia Arthur de Siqueira Cavalcanti

**14:30 Understanding the mechanism of cell response to eugenol through membrane models at the air-water interface** V.OR3.10  
 Giulia Elisa Guimarães Gonçalves<sup>1</sup>, Fernanda S de Souza<sup>1</sup>, João Henrique Ghilardi Lago<sup>1</sup>, Luciano Caseli<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo

- 14:45 Materials to control biological cells function: a focus on microtopography influence** **V.OR3.11\***  
Karine Anselme<sup>1</sup>; <sup>1</sup>Institut de Science des Matériaux de Mulhouse (IS2M) - CNRS UMR7361, University of Haute-Alsace

## Poster presentations

### Session V.P1 (17:00 - 19:00)

- 17:00 Interaction of bacitracin in models for cell membranes at the air-water interface** **V.P1.1**  
Jefferson Carnevalle Rodrigues<sup>1</sup>, Luciano Caseli<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Effect of treatment time on hydroxyapatite formation by plasma electrolytic oxidation of grade 4 titanium.** **V.P1.2**  
César A Antonio<sup>1</sup>, Elidiane Cipriano Rangel<sup>1</sup>, Adriana Oliveira Delgado<sup>2</sup>, Manfredo Harri Tabacniks<sup>3</sup>, Nilson Cristino Cruz<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Sorocaba, <sup>2</sup>Universidade Federal de São Carlos - Campus Sorocaba, <sup>3</sup>Universidade de São Paulo
- 17:00 Effects of curcumin concentration in properties of chitosan:curcumin nanoparticles** **V.P1.3**  
Eduardo Pedro Milan<sup>1</sup>, Virginia da Conceição Amaro Martins<sup>2</sup>, Ana Maria de Guzzi Plepis<sup>2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>São Carlos Institute of Chemistry
- 17:00 Microstructural Comparison of National and Imported Stainless Steel Hip Prostheses** **V.P1.4**  
 Patrícia Ortega Cubillos<sup>1</sup>, Carlos Rodrigo Melo Roesler<sup>1</sup>, Claudio Teodoro dos Santos<sup>2</sup>, Ieda Maria Vieira Caminha<sup>2</sup>, Maurício de Jesus Monteiro<sup>2</sup>, Cassio Barbosa<sup>2</sup>, Ibrahim Cerqueira Abud<sup>2</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Instituto Nacional de Tecnologia
- 17:00 Thermal and morphological evaluation of collagen sponges prepared in different acids** **V.P1.5**  
Claudio Fernandes Garcia<sup>1</sup>, Virginia da Conceição Amaro Martins<sup>1</sup>, Ana Maria de Guzzi Plepis<sup>1</sup>; <sup>1</sup>São Carlos Institute of Chemistry, USP
- 17:00 In vitro toxicity assay of magnetic nanoparticles for biomedical applications** **V.P1.6**  
 Debora Mora de Moura André<sup>1</sup>, Marcos Vinicius Sampaio Bonfim<sup>1</sup>, Segundo Nilo Mestanza Munoz<sup>1</sup>, Tiago Rodrigues<sup>1</sup>, Anderson Orzari Ribeiro<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Nanocomposite films based on chitosan and carbon nanotubes** **V.P1.7**  
Marilia Horn<sup>1</sup>, Murilo Vigilato<sup>2</sup>, Virginia da Conceição Amaro Martins<sup>2</sup>, Ana Maria de Guzzi Plepis<sup>2</sup>; <sup>1</sup>Programa de Pós-graduação Interunidades em Bioengenharia - EESC/FMRP/IQSC - USP, <sup>2</sup>Instituto de Química de São Carlos - USP
- 17:00 Interaction of starch capped zinc selenide nanoparticles with serum albumins - a fluorescence spectroscopic comparative study** **V.P1.8**  
SELVARAJ NAVEENRAJ<sup>1</sup>, Ramalinga Viswanathan Mangalaraja<sup>1</sup>, Thangaraj Pandiyarajan<sup>1</sup>, Sambandam Anandan<sup>2</sup>; <sup>1</sup>University of Concepcion, <sup>2</sup>National Institute of Technology Tiruchirappalli
- 17:00 Cytosporone b impregnated into mesoporous silica nanoparticles** **V.P1.9**  
Débora Rojas de Figueiredo<sup>1</sup>, Marco Antônio Utrera Martines<sup>1</sup>, Adilson Beatriz<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso do Sul
- 17:00 Polyurethane and polyurethane-hydroxyapatite synthesized from Euterpe oleracea Mart. for tissue engineering applications: Biocompatibility assays** **V.P1.10**  
Maria Elizabeth Maués dos Santos<sup>1</sup>, Dayane dos Reis Costa Dias<sup>1</sup>, Laís Pellizzer Gabriel<sup>2</sup>, Ana Paula Drummond Rodrigues<sup>3</sup>, Carmen Gilda Barroso Tavares Dias<sup>1</sup>, Gilmara Nazareth Tavares Bastos<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Instituto Evandro Chagas
- 17:00 Intercalation Norfloxacin with layered double hydroxides of MgAl: X-ray diffractometry and erythrocyte hemolysis** **V.P1.11**  
 Christiane França Martins Santos<sup>1</sup>, Maria Elizabeth Maués dos Santos<sup>1</sup>, Dayane dos Reis Costa Dias<sup>1</sup>, Anderson Bentes de Lima<sup>1</sup>, Cláudio M.R. Remédios<sup>1</sup>, Marcos Anicete Santos<sup>1</sup>, Cláudio Nahum Alves<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Interaction of thymol with Langmuir monolayers studied with surface chemistry and Molecular Simulation** **V.P1.12**  
João Victor Narducci Ferreira<sup>1</sup>, Tabata M. Capello<sup>1</sup>, João Henrique Ghilardi Lago<sup>1</sup>, Leonardo José Amaral Siqueira<sup>1</sup>, Luciano Caseli<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo



- 17:00 Bioglass incorporation on dental zirconia surface: preliminary results** **V.P1.13**  
Suelen Aline de Lima Barros<sup>1</sup>, Gelson Luís Adabo<sup>1</sup>, Fernanda Gonçalves Basso<sup>1</sup>, Carlos Alberto de Souza Costa<sup>1</sup>, Oscar Peitl<sup>2</sup>, Edgar Dutra Zanotto<sup>3</sup>, Diana Gabriela Soares<sup>1</sup>; <sup>1</sup>Faculdade de Odontologia de Araraquara/UNESP, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Universidade Federal de São Carlos
- 17:00 Chitosan/collagen biomembrane with calcium-aluminate enhances pulp cells dentinogenic activity** **V.P1.14**  
Maria Luísa de Alencar e Silva Leite<sup>1</sup>, Diana Gabriela Soares<sup>1</sup>, Hebert Luiz Rosseto<sup>2</sup>, Fernanda Gonçalves Basso<sup>1</sup>, Josimeri Hebling<sup>1</sup>, Carlos Alberto de Souza Costa<sup>1</sup>; <sup>1</sup>Faculdade de Odontologia de Araraquara/UNESP, <sup>2</sup>Faculdade de Medicina de Ribeirão Preto - USP
- 17:00 The effect of adsorbed and functionalized RGD on the adhesion of MC3T3 to HA surface** **V.P1.15**  
Melissa Leitão Costa<sup>1,2</sup>, Elena Mavropoulos<sup>2</sup>, Marcia Soares Sader<sup>3</sup>, Marcelo Neves Tanaka<sup>2</sup>, Alexandre Malta Rossi<sup>2</sup>, Jose Mauro Granjeiro<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Universidade Federal do Rio de Janeiro
- 17:00 Implementation of new Raman spectroscopy technique using ellipsometry to study chiral molecules** **V.P1.16**  
Fernando Costa Basilio<sup>1</sup>, Alexandre Marletta<sup>1</sup>, Raigna Augusta da Silva Zadra Armond<sup>1</sup>, Osvaldo Novais Oliveira Jr<sup>2</sup>; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Instituto de Física de São Carlos - USP
- 17:00 Obtaining and characterization of the hexanic extract of the seed of *Annona muricata* L.** **V.P1.17**  
 Vicente Galber Freitas Viana<sup>1</sup>, Rayssilane Cardoso de Sousa<sup>1</sup>, Deuzuita dos Santos Oliveira<sup>2,3</sup>, ROBERTO ARRUDA LIMA SOARES<sup>1</sup>, Silvana Maria Vêras Neves<sup>2</sup>, Charllyton Luis Sena da Costa<sup>4</sup>, Jucelino Lopes da Silva<sup>2</sup>, Vicente Galber Freitas Viana Junior<sup>5</sup>, MARCOS RODRIGUES RESENDE<sup>1</sup>, IVAN Ferreira do Nascimento<sup>1</sup>, Antonio Luiz Martins Maia Filho<sup>6</sup>, Luis Fernando Meneses<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>2</sup>Faculdade Integral Diferencial, <sup>3</sup>Universidade Estadual do Maranhão, <sup>4</sup>Faculdade Santo Agostinho, <sup>5</sup>Universidade Federal do Piauí, <sup>6</sup>Universidade Estadual do Piauí

## Tuesday, September 29th

### Poster presentations

#### Session V.P2 (17:00 - 19:00)

- 17:00 Natural Rubber Membranes: Different Extraction Methods for Testing of Cytotoxicity in Vitro** V.P2.18  
 Caroline Silva Danna<sup>1</sup>, Dalita G. S. M. Cavalcante<sup>1</sup>, Andressa Silva Gomes<sup>1</sup>, Leandra Ernst Kerche-Silva<sup>1</sup>, Aldo Eloizo Job<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente
- 17:00 Effect of the pH on BSA Adsorption on Chemically Modified Silicon Nitride by Force Spectroscopy Measurements** V.P2.19  
Marcia Soares Sader<sup>1</sup>, Claudio Victor Santos Junior<sup>1</sup>, Renata Simao<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Free-radical scavenging properties and cell viability evaluation of latex C-serum from Hevea brasiliensis RRIM600** V.P2.20  
Leandra Ernst Kerche-Silva<sup>1,2</sup>, Dalita G. S. M. Cavalcante<sup>2</sup>, Caroline Silva Danna<sup>2</sup>, Andressa Silva Gomes<sup>2</sup>, Aldo Eloizo Job<sup>2</sup>; <sup>1</sup>Universidade do Oeste Paulista, <sup>2</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente
- 17:00 Antibacterial effect of biominerIALIZED diamond-like carbon containing titanium dioxide nanoparticles** V.P2.21  
Felipe Souza Lopes<sup>1</sup>, Jonatas Rafael Oliveira<sup>2</sup>, Luciane Dias Oliveira<sup>2</sup>, Juliana Milani<sup>1</sup>, Natália Marassi Martinelli<sup>1</sup>, Vladimir Jesus Trava-Airoldi<sup>3</sup>, Anderson Oliveira Lobo<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Universidade Estadual Paulista, <sup>3</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Modeling with Equivalent Electrical Circuits in Materials Coated with Diamond-like Carbon** V.P2.22  
Vinie Abreu Christino<sup>1</sup>, Vladimir Jesus Trava-Airoldi<sup>1</sup>, Anderson Oliveira Lobo<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Standardized in vitro evaluation of cytocompatibility of nanostructured carbonated hydroxyapatite** V.P2.23  
Marcelo Neves Tanaka<sup>1</sup>, Suzana Azevedo dos Anjos<sup>1</sup>, Elena Mavropoulos<sup>1</sup>, Moema Hausen<sup>1</sup>, Gutemberg Gomes Alves<sup>2</sup>, Jose Mauro Granjeiro<sup>3</sup>, Alexandre Malta Rossi<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Universidade Federal Fluminense, <sup>3</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 17:00 Inclusion complex of erlotinib with hydroxypropyl-β-cyclodextrin: characterization and in vitro and in vivo evaluation** V.P2.24  
Sávio Morato Gontijo<sup>1</sup>, Pedro Pires Goulart Guimarães<sup>1</sup>, Celso Tarso Viana<sup>1</sup>, Ângelo Marcio Leite Denadai<sup>2</sup>, Alinne Damasia Martins Gomes<sup>1</sup>, Paula Peixoto Campos<sup>1</sup>, Silvia Passos Andrade<sup>1</sup>, Rubén Dario Sinisterra<sup>1</sup>, Maria Esperanza Cortés<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Universidade Federal de Juiz de Fora
- 17:00 Cell response of Insulin Coated on Hydroxyapatite Surface** V.P2.25  
Elena Mavropoulos<sup>1</sup>, Marcelo Neves Tanaka<sup>1</sup>, Andrea Machado Costa<sup>2</sup>, Melissa Leitão Costa<sup>1</sup>, Jose Mauro Granjeiro<sup>3</sup>, Alexandre Malta Rossi<sup>1</sup>, Marcia Soares Sader<sup>4</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Instituto Militar de Engenharia, <sup>3</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>4</sup>Universidade Federal do Rio de Janeiro
- 17:00 Effect of Native and Denatured Bovine Serum Albumin onto Hydroxyapatite and Zinc-Hydroxyapatite Surfaces** V.P2.26  
Elena Mavropoulos<sup>1</sup>, Marcelo Neves Tanaka<sup>1</sup>, Andrea Machado Costa<sup>2</sup>, Marcelo Henrique Prado da Silva<sup>2</sup>, Alexandre Malta Rossi<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Instituto Militar de Engenharia
- 17:00 In vitro evaluation of different hydroxyapatite composites in contact with osteoblast cells** V.P2.27  
Marcelo Neves Tanaka<sup>1</sup>, Elena Mavropoulos<sup>1</sup>, Gisele Dornelas da Silva<sup>2</sup>, Jéssica Dornelas da Silva<sup>2</sup>, Silvia Albuquerque<sup>1</sup>, Alexandre Malta Rossi<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Universidade Federal Fluminense
- 17:00 The Effect of Zinc Release by Zinc-carbonate hydroxyapatite on MC3T3 Cells** V.P2.28  
Gisele Dornelas da Silva<sup>1,2</sup>, Elena Mavropoulos<sup>2</sup>, Marcelo Neves Tanaka<sup>2</sup>, Jéssica Dornelas da Silva<sup>1,2</sup>, Gutemberg Gomes Alves<sup>1</sup>, Alexandre Malta Rossi<sup>2</sup>; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas
- 17:00 XRD and DSC analysis of reconstituted cuticular waxes of cashew tree leaves cuticle (Anacardium occidentale L.) from Amazon in Northern Brazil** V.P2.29  
 Glenda Quaresma Ramos<sup>1</sup>, Francimario dos Passos Silva<sup>1</sup>, Marcelo Eduardo Huguenin Maia da Costa<sup>2</sup>, Henrique Duarte da Fonseca Filho<sup>1</sup>; <sup>1</sup>Universidade Federal do Amapá, <sup>2</sup>Departamento de Física (PUC-Rio)
- 17:00 Tumorigenic cell membrane characterization through nanostructured thin films: influence of the lipid composition upon biochemical signaling** V.P2.30  
Andrei Sakai<sup>1</sup>, Ana Paula de Sousa Mesquita<sup>1</sup>, Carla Cristina Lopes<sup>1</sup>, Luciano Caseli<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo

- 17:00 Comparison of structural composition between cashew tree leaves surface from Rio de Janeiro and Amazon in Northern Brazil** **V.P2.31**  
Glenda Quaresma Ramos<sup>1</sup>, Marcelo Huguenin Maia da Costa<sup>2</sup>, Henrique Duarte da Fonseca Filho<sup>1</sup>; <sup>1</sup>Universidade Federal do Amapá, <sup>2</sup>Departamento de Física (PUC-Rio)
- 17:00 Electrodeposition of hydroxyapatite/carbon nanotube composites** **V.P2.32**  
Natália Marassi Martinelli<sup>1</sup>, Juliana Milani<sup>1</sup>, Maira Maftoum Costa<sup>1</sup>, Anderson Oliveira Lobo<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Electrochemical and biological characterization of hydroxyapatite-coated TiO<sub>2</sub>-DLC films** **V.P2.33**  
Juliana Milani<sup>1</sup>, Natália Marassi Martinelli<sup>1</sup>, Maria Julia Galera Ribeiro<sup>1</sup>, Ritchelli Ricci<sup>1</sup>, Vladimir Jesus Trava-Airoldi<sup>2</sup>, Anderson Oliveira Lobo<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 Microscopy-based Study of Topology Sensing by Osteosarcoma Cells** **V.P2.34**  
Pablo Rougerie<sup>1</sup>, Laurent Pieuchot<sup>2</sup>, William Querido<sup>1</sup>, Tatiana Bourgade<sup>2</sup>, Maxence Bigerelle<sup>3</sup>, Marcos Farina<sup>1</sup>, Karine Anselme<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Institut de Science des Matériaux de Mulhouse (IS2M) - CNRS UMR7361, University of Haute-Alsace, <sup>3</sup>Université de Valenciennes et du Hainaut Cambresis



## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session W.OR1 (09:45 - 10:45) - Room B

- 09:45 Development of low-cost  $\beta$ -type titanium alloys for biomedical applications** W.OR1.1\*  
Mitsuo Niinomi<sup>1</sup>, Pedro Fernandes Santos<sup>1</sup>, Ken Cho<sup>2</sup>, Masaaki Nakai<sup>1</sup>, Huihong Liu<sup>1</sup>, Takayuki Narushima<sup>1</sup>; <sup>1</sup>Tohoku University, <sup>2</sup>Osaka University
- 10:15 Production of titanium foams by Metal Injection Molding in combination with novel plasma treatment** W.OR1.2  
Natália de Freitas Daudt<sup>1</sup>, Martin Bram<sup>2</sup>, Alexander M. Laptev<sup>2,3</sup>, Ana Paula Cysne Barbosa<sup>4</sup>, Clodomiro Alves Jr.<sup>5</sup>; <sup>1</sup>Universidade Federal de Santa Maria, <sup>2</sup>Forschungszentrum Juelich GmbH, <sup>3</sup>Donbass State Engineering Academy, <sup>4</sup>Universidade Federal do Rio Grande do Norte, <sup>5</sup>Universidade Federal Rural do Semi Árido
- 10:30 Mechanical properties of selective laser melted Co-Cr-Mo alloys for biomedical applications** W.OR1.3  
Naoyuki Nomura<sup>1</sup>, Su yalatu<sup>2</sup>, Takayuki Nakamoto<sup>3</sup>, Takahiro Kimura<sup>3</sup>, Hisashi Doi<sup>4</sup>, Yusuke Tsutsumi<sup>4</sup>, Takao Hanawa<sup>4</sup>; <sup>1</sup>Tohoku University, <sup>2</sup>Osaka University, <sup>3</sup>Technology Research Institute of Osaka Prefecture, <sup>4</sup>Tokyo Medical and Dental University

#### Session W.OR2 (11:15 - 12:30) - Room B

- 11:15 Overcoming the Barriers in Bio-tribocorrosion Research with New and Nanotechnology for Biomedical Implants: An overview** W.OR2.4\*  
Mathew Mathew<sup>1,2</sup>, Cortino Sukotjo, Valentim Barao, Shalini Prasad<sup>3</sup>, Tolou Shokuhfar<sup>2</sup>, Auciello Orlando Hector<sup>3</sup>, Didem Ozevin<sup>2</sup>; <sup>1</sup>Rush University, <sup>2</sup>University of Illinois at Chicago, <sup>3</sup>Universidade do Texas- Dallas
- 11:45 Influence of voltage and annealing treatment in the tribocorrosion properties of pure titanium treated by plasma electrolytic oxidation for biomedical applications** W.OR2.5  
Carlos Augusto Laurindo<sup>1</sup>, Ricardo Diego Torres<sup>1</sup>, Leticia Cristina Bembem<sup>1</sup>, Paulo Soares<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Paraná
- 12:00 Tribocorrosion behaviour of Ti-TiB-TiN<sub>x</sub> in-situ hybrid composite** W.OR2.6  
 Joana I Silva<sup>1</sup>, Alexandra C Alves<sup>1</sup>, Ana Maria Pinto<sup>1</sup>, Fatih Toptan<sup>1</sup>; <sup>1</sup>Center of MicroElectroMechanical Systems, Departamento de Engenharia Mecânica, Universidade do Minho, Guimarães
- 12:15 Bioactive coatings produced by plasma Electrolytic Oxidation** W.OR2.7  
Nilson Cristino Cruz, César A Antonio<sup>1</sup>, Elidiane Cipriano Rangel, Bruna Antunes Mas<sup>2</sup>, Eliana Ap Rezende Duek, Manfredo Harri Tabacniks; <sup>1</sup>Universidade Estadual Paulista - Campus Sorocaba, <sup>2</sup>Pontificia Universidade Católica

#### Session W.OR3 (14:00 - 15:15) - Room B

- 14:00 Biactives Polymers :A tool to elaborate \** W.OR3.8\*  
Véronique Migonney
- 14:30 Use of the NRL as scaffold to the osteoblast MC3T3-E1 for bone regeneration** W.OR3.9  
Felipe Azevedo Borges<sup>1</sup>, Natan Roberto de Barros<sup>1</sup>, Matheus Carlos Romeiro Miranda<sup>1</sup>, Bruna Cambraia Garms<sup>1</sup>, Mônica Yonashiro Marcelino<sup>2</sup>, Karina Alves de Toledo<sup>3</sup>, Rondinelli Donizetti Herculano<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Faculdade de Ciências Farmacêuticas - UNESP Araraquara, <sup>3</sup>Faculdade de Ciências e Letras - UNESP Assis
- 14:45 Properties of Microcrystalline Chitosan-Calcium Phosphate Complex Composite** W.OR3.10  
Luciano Pighinelli<sup>1</sup>; <sup>1</sup>Universidade Luterana do Brasil
- 15:00 Inhibiting of bacterial adhesion on titanium alloys surface after functionalization with polydopamine/silver** W.OR3.11  
Ana Paula Rosifini Alves Claro<sup>1</sup>, André Luiz Reis Rangel<sup>1</sup>, Reginaldo Toshihiro Konatu<sup>1</sup>, Mauricio Rangel Seixas<sup>1</sup>, Diego Mantovani<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Julio de Mesquita Filho" - Campus Guaratinguetá, <sup>2</sup>Université Laval

## Poster presentations

### Session W.P1 (17:00 - 19:00)

- 17:00 Preparation of hydroxyapatite nanoparticles containing Vincristine aiming the treatment of bone metastases** **W.P1.1**  
Nivaldo Assis Silva<sup>1</sup>, Daniel Cristian Ferreira Soares<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Production of poly (butylene adipate-co-terephthalate)/nanohydroxyapatite composites for bone tissue regeneration** **W.P1.2**  
 Aline dos Santos Silva<sup>1</sup>, Bruno Vinícius Manzolli Rodrigues<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>, Anderson Oliveira Lobo<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Anodization of titanium promotes higher tribocorrosion resistance and improved biological performance** **W.P1.3**  
Fernando Gabriel Oliveira<sup>1,2</sup>, Luís Augusto Rocha<sup>3,1,2</sup>; <sup>1</sup>Center of MicroElectroMechanical Systems, Departamento de Engenharia Mecânica, Universidade do Minho, Guimarães, <sup>2</sup>Brazilian Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine; UNESP-Bauru, SP, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Bauru
- 17:00 Electrochemical corrosion behavior of nanohydroxyapatite-coated titanium alloy.** **W.P1.4**  
Lucas Augusto Manfro<sup>1</sup>, Anderson Oliveira Lobo<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Elastic behavior of Ti-15Mo-xZr alloys due to thermal treatments in controlled atmospheres** **W.P1.5**  
Fábio Bossoi Vicente<sup>1</sup>, Carlos Roberto Grandini<sup>2</sup>, Marília Afonso Rabelo Buzalaf<sup>3</sup>; <sup>1</sup>Universidade Paulista, <sup>2</sup>Brazilian Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine; UNESP-Bauru, SP, <sup>3</sup>Universidade de São Paulo
- 17:00 Preliminary study of surface modification of commercial titanium by deposition of TiO<sub>2</sub> thin films and the sputtering technique: applications as biomaterials.** **W.P1.6**  
Patrícia Corrêa<sup>1,2</sup>, Nilton Francelosi Azevedo Neto<sup>1</sup>, Carlos Alberto Fonzar Pintão<sup>1</sup>, Ana Maria Pinto<sup>3,4</sup>, Fatih Toptan<sup>3,4</sup>, José Humberto Dias da Silva<sup>1,2</sup>, Luís Augusto Rocha<sup>1,2,4</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>2</sup>Brazilian Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine; UNESP-Bauru, SP, <sup>3</sup>Universidade do Minho, <sup>4</sup>Center MicroElectroMechanical Systems, Universidade do Minho, Campus de Azurém
- 17:00 Functionalized metal oxide films for biomedical application** **W.P1.7**  
 Luciana Daniele Trino<sup>1</sup>, Leonardo F G Dias<sup>1</sup>, Erika Soares Bronze-Uhle<sup>1</sup>, Mathew T Mathew<sup>2</sup>, Paulo Noronha Lisboa-Filho<sup>3</sup>; <sup>1</sup>UNESP - Univ Estadual Paulista, POSMAT - Programa de Pós-Graduação em Ciência e Tecnologia de Materiais, Bauru, SP, Brazil, <sup>2</sup>Rush University, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil
- 17:00 Bone formation in rat calvarial defects treated with Poly(vinylidene fluoride-trifluoroethylene)/ barium titanate membrane and bone marrow MSCs infusion** **W.P1.8** **W**  
Gileade Pereira Freitas<sup>1</sup>, Helena Bacha Lopes<sup>1</sup>, Adriana Luisa Gonçalves Almeida<sup>1</sup>, Marcio Mateus Beloti<sup>1</sup>, Adalberto Luiz Rosa<sup>1</sup>; <sup>1</sup>Cell Culture Laboratory, School of Dentistry of Ribeirão Preto
- 17:00 The effect of bioactive glass in mesenchymal stem cells in relation to their viability and cytotoxicity.** **W.P1.9**  
 Daniela BURGUEZ<sup>1</sup>, Daniela Pavulack Pereira<sup>1</sup>, Natasha Maurmann<sup>1</sup>, Renato Luiz Siqueira<sup>2</sup>, Oscar Peitl<sup>2</sup>, Edgar Dutra ZANOTTO<sup>2</sup>, Patricia Pranke<sup>1,3</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Instituto de Pesquisa com Células-Tronco
- 17:00 A novel bioactive glass-ceramic scaffold for bone tissue engineering** **W.P1.10**  
Emanuela Prado Ferraz<sup>1</sup>, Murilo Camuri Crovace<sup>2</sup>, Gileade Pereira Freitas<sup>1</sup>, Adriana Luisa Gonçalves Almeida<sup>1</sup>, Paulo Tambasco Oliveira<sup>1</sup>, Marcio Mateus Beloti<sup>1</sup>, Oscar Peitl<sup>2</sup>, Adalberto Luiz Rosa<sup>1</sup>; <sup>1</sup>Cell Culture Laboratory, School of Dentistry of Ribeirão Preto, <sup>2</sup>Universidade Federal de São Carlos
- 17:00 Synthesis of sol-gel bioactive glass scaffolds using paraffin as porogen agent for bone tissue regeneration** **W.P1.11**  
Fabiana Barbosa Amaral Pereira Guimarães<sup>1</sup>, Breno Rocha Barrioni<sup>1</sup>, Agda Aline Rocha de Oliveira<sup>1</sup>, Marivalda Magalhães Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 X-Ray microtomography: review of the technique and study of sol-gel Bioactive Glass scaffolds produced using porogen burnout technique** **W.P1.12**  
Breno Rocha Barrioni<sup>1</sup>, Fabiana Barbosa Amaral Pereira Guimarães<sup>1</sup>, Agda Aline Rocha de Oliveira<sup>1</sup>, Marivalda Magalhães Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

- 17:00 Uniformly distributed ZnO nanoparticles grown on micro-arc oxidized titania** **W.P1.13**  
 Vinayaraj Ozhukil Kollath<sup>1,2</sup>, Bruna Carolina Costa<sup>3,4</sup>, Fernando Gabriel Oliveira<sup>5</sup>, Américo Sheitiro Tabata<sup>6</sup>, Paulo Noronha Lisboa-Filho<sup>2,6</sup>, Luís Augusto Rocha<sup>2,6</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>2</sup>Brazilian Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine; UNESP-Bauru, SP, <sup>3</sup>UNESP - Univ Estadual Paulista, POSMAT - Programa de Pós-Graduação em Ciência e Tecnologia de Materiais, Bauru, SP, Brazil, <sup>4</sup>Laboratório de Materiais Avançados e Nanotecnologia - FC/UNESP, <sup>5</sup>Universidade do Minho, <sup>6</sup>Faculdade de Ciências, UNESP-Bauru
- 17:00 Scaffolds based on alginate, chitosan and hybrid fibers for bone tissue engineering** **W.P1.14**  
Daniela Camargo Furuya<sup>1</sup>, Silgia Aparecida Costa<sup>1</sup>, Daniela Camargo Furuya<sup>1</sup>, Rodrigo Cardoso de Oliveira<sup>1</sup>, Sirlene Maria da Costa<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Production of a Ceramic Biocomposite b-TCP with Alumina** **W.P1.15**  
Andreia Ditzel Facci<sup>1</sup>, Gilbert Silva<sup>1</sup>, Jonas Mendes<sup>1</sup>, Carolina Oliveira Silva<sup>1</sup>, Luis Paulo Simões<sup>1</sup>, Vinicius Varandas Volpato<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Bioactivity of 2Na<sub>2</sub>O.1CaO.3SiO<sub>2</sub>-P<sub>2</sub>O<sub>5</sub> glasses** **W.P1.16**  
Iolanda Cristina Justus Dechandt<sup>1</sup>, Gabriela Oliveira Dogado<sup>1</sup>, Francisco Carlos Serbena<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa
- 17:00 Additives influence on the calcium aluminate properties aiming your application as a biomaterial** **W.P1.17**  
Ivone Regina de Oliveira<sup>1</sup>, Renata Martins Parreira<sup>1</sup>, Talita Luana de Andrade<sup>1</sup>, Kelly Cristina Mansur Lopes De Araujo<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 PREPARATION AND CHARACTERIZATION OF Ti-50Nb-XMo ALLOYS FOR BIOMEDICAL APPLICATIONS** **W.P1.18**  
José Roberto Severino Martins Jr<sup>1</sup>, Carlos Roberto Grandini<sup>1</sup>, Luís Augusto Rocha<sup>1</sup>; <sup>1</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil
- 17:00 Development of a novel alloy of the Ti-15Zr-Mo system for biomedical applications** **W.P1.19**  
Mariana Luna Lourenço<sup>1</sup>, Diego Rafael Nespeque Correa<sup>1</sup>, Carlos Roberto Grandini<sup>1</sup>; <sup>1</sup>Faculdade de Ciências, UNESP-Bauru
- 17:00 Bioglass 58S scaffold modified with nitric oxide donors** **W.P1.20**  
Paula Gomes<sup>1</sup>, Celso Aparecido Bertran, Marcelo Ganzarolli de Oliveira; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Evaluation of osteoblastic cell proliferation on different biomaterials** **W.P1.21**  
Márcia Sirlene Zardin Graeff<sup>1</sup>, Cintia Kazuko Tokuhara<sup>1</sup>, Luís Augusto Rocha<sup>2,3</sup>, Rodrigo Cardoso de Oliveira<sup>1,2</sup>; <sup>1</sup>Faculdade de Odontologia de Bauru - USP, <sup>2</sup>Braço Brasileiro do Instituto de Biomateriais, Tribocorrosão e Nanomedicina, <sup>3</sup>Faculde de Ciencias- UNESP Bauru
- 17:00 Production of mineralized films from xanthan and chitosan hydrogels by layer-by-layer method** **W.P1.22**  
Aline Evangelista Aguiar<sup>1</sup>, Celso Aparecido Bertran<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Tribocorrosion behaviour of biomedical β-type Ti-15Zr-based alloys** **W.P1.23**  
Diego Rafael Nespeque Correa<sup>1</sup>, Pedro Akira Bazaglia Kuroda<sup>1</sup>, Carlos Roberto Grandini<sup>1</sup>, Fernando Oliveira<sup>2</sup>, Alexandra C Alves<sup>2</sup>, Fatih Toptan<sup>2</sup>, Luís Augusto Rocha<sup>1,2</sup>; <sup>1</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil, <sup>2</sup>Centre for Mechanics and Materials Technologies (CT2M), and Department of Mechanical Engineering, University of Minho, Campus de Azurem, Guimarães, Portugal

## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session W.OR4 (09:45 - 10:45) - Room B

- 09:45 Preferential orientation of biological apatite (BAP) crystals and collagen fibers in various bones and regeneration of anisotropic bone tissue surrounding implants** **W.OR4.12\***  
Takayoshi Nakano<sup>1</sup>; <sup>1</sup>Osaka University
- 10:15 Critics on Stability of Bone in Terms of Microstructural Changes, Phase Transition and the Density of Haversian Channels** **W.OR4.13**  
AHMET HIKMET UCISIK<sup>1</sup>; <sup>1</sup>ATILIM UNIVERSITY
- 10:30 Calcium phosphate graft substitute: when the impact of innovation is in the form rather than content** **W.OR4.14**  
Francisco Jose Correa Braga<sup>1</sup>, Antonio Carlos da Silva<sup>2</sup>, Sergio Allegrini Junior<sup>3</sup>, Cyro Carvalho Ottony<sup>3</sup>; <sup>1</sup>Instituto de Perquisas Energéticas e Nucleares, <sup>2</sup>CONSULMAT PRODUTOS TECNICOS INDUSTRIA E COMERCIO LTDA, <sup>3</sup>Universidade Ibirapuera

#### Session W.OR5 (11:15 - 12:30) - Room B

- 11:15 Cell behavior influenced by dimensionality and stiffness of hydrogels** **W.OR5.15\***  
Pedro L Granja<sup>1</sup>; <sup>1</sup>Instituto de Engenharia Biomédica
- 11:45 Biofunctionalization of titanium with electrodeposited functional molecules** **W.OR5.16**  
Takao Hanawa<sup>1</sup>, Yusuke Tsutsumi<sup>1</sup>, Yusuke Fukuhara<sup>2</sup>, Peng Chen<sup>1</sup>, Maki Ashida<sup>1</sup>, Hisashi Doi<sup>1</sup>; <sup>1</sup>Tokyo Medical and Dental University, <sup>2</sup>The UNiversity of Tokyo
- 12:00 On the biointerface of anatase nanoparticles with bone cells** **W.OR5.17**  
Sara Gemini Piperni<sup>1</sup>, Wanderson Souza<sup>1</sup>, Priscila Laviola Sanches<sup>1</sup>, Luisa Teixeira<sup>1</sup>, Renata Carvalho<sup>1</sup>, André Linhares Rossi<sup>2</sup>, Luís Augusto Rocha<sup>3</sup>, Marcos Farina<sup>4</sup>, Jacques Werckmann<sup>1</sup>, Jose Mauro Granjeiro<sup>1</sup>, Ana Rosa Ribeiro<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>4</sup>Universidade Federal do Rio de Janeiro
- 12:15 Smart Multifunctional Bone Implants** **W.OR5.18**  
Tolou Shokuhfar<sup>1</sup>; <sup>1</sup>University of Illinois Chicago

#### Session W.OR6 (14:00 - 15:15) - Room B

- 14:00 Fibronectin substitute derived from plants and functionalisation of biomaterials** **W.OR6.19\***  
Victor Prevost<sup>1</sup>, Ousmane Moussa<sup>2</sup>, Arnaud Ponche<sup>1</sup>, Tatiana Bourgade<sup>1</sup>, Lydie Ploux<sup>1</sup>, Mathilde HINDIE<sup>3</sup>, Patrick Di Martino<sup>3</sup>, Franck Carreiras<sup>3</sup>, Olivier Gallet<sup>3</sup>, Anthony Duncan<sup>2</sup>, Karine Anselme<sup>1</sup>; <sup>1</sup>Institut de Science des Matériaux de Mulhouse (IS2M) - CNRS UMR7361, University of Haute-Alsace, <sup>2</sup>Laboratoire Polymères Biopolymères Surfaces (PBS) - UMR 6270 CNRS, University of Rouen, Mont Saint Aignan, <sup>3</sup>Equipe de Recherche sur les Relations Matrice-Extracellulaire/Cellule (ERRMECe), University of Cergy-Pontoise
- 14:30 Incorporation of HAp nanoparticles into porous TiO<sub>2</sub> produced by micro-arc oxidation** **W.OR6.20**  
Paulo Soares<sup>1</sup>, Luiz Felipe Eckel<sup>1</sup>, Carlos Augusto Henning Laurindo<sup>1</sup>, Marcela Dias<sup>1</sup>, Selene Elifio Esposito<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Paraná
- 14:45 Electrochemical surface treatments on metallic biomaterials for improvement of antibacterial property and hard tissue compatibility** **W.OR6.21**  
Yusuke TSUTSUMI<sup>1</sup>, Maki Ashida, Peng Chen<sup>1</sup>, Hisashi Doi, Takao Hanawa; <sup>1</sup>Tokyo Medical and Dental University
- 15:00 Surface changes on titanium after electrical stimulation in a simulated physiological medium.** **W.OR6.22**  
Leticia Moro Bins Ely<sup>1</sup>, Karina Cesca<sup>1</sup>, Fernando Silvio Souza<sup>1</sup>, Luismar Marques Porto<sup>1</sup>, Almir Spinelli<sup>1</sup>, César Augusto Magalhães Benfatti<sup>1</sup>, Julio Cesar Matias Souza<sup>1</sup>, Ricardo de Souza Magini<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina



## Poster presentations

### Session W.P2 (17:00 - 19:00)

- 17:00 Development of novel Ti-Zr-Mo alloys for biomedical applications** W.P2.24  
Carlos Roberto Grandini<sup>1,2</sup>, Diego Rafael Nespeque Correa<sup>1</sup>, Fábio Bossoi Vicente<sup>3,1</sup>, Gabriela Piovesan Santiago Suárez<sup>1</sup>, Mariana Luna Lourenço<sup>1</sup>, Pedro Akira Bazaglia Kuroda<sup>1</sup>, Raul Oliveira de Araújo<sup>1</sup>; <sup>1</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil, <sup>2</sup>Brazilian Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine; UNESP-Bauru, SP, <sup>3</sup>Universidade Paulista
- 17:00 Effects of Graphene Oxide in Osteoblast Biomineralization** W.P2.25  
Daniela Cervelle Zancanela<sup>1</sup>, Camila Guedes Francisco<sup>1,2</sup>, Amanda Natalina de Faria<sup>3,1</sup>, Ana Maria Sper Simão<sup>1</sup>, Rogéria Rocha Gonçalves<sup>1</sup>, Elaine Yoshiko Matsubara<sup>1</sup>, José Maurício Rosolen<sup>1</sup>, Pietro Ciancaglini<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - Universidade de São Paulo, <sup>2</sup>Faculdade de Ciências Agrárias e Veterinárias de Jaboticabal, <sup>3</sup>Faculdade de Medicina de Ribeirão Preto
- 17:00 Development and characterization of Ti-20Zr-Mo Alloys System for biomedical applications** W.P2.26  
Pedro Akira Bazaglia Kuroda<sup>1</sup>, Carlos Roberto Grandini<sup>1</sup>; <sup>1</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil
- 17:00 Microstructural and mechanical characterization of the Ti-10Mo-xZr alloys, after hot rolling, for biomedical applications** W.P2.27  
Raul Oliveira de Araújo<sup>1</sup>, Marília Afonso Rabelo Buzalaf<sup>2</sup>, Carlos Roberto Grandini<sup>1</sup>; <sup>1</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil, <sup>2</sup>Faculdade de Odontologia de Bauru - USP
- 17:00 Acrylic formulations containing bioactive and biodegradable fillers to be used as bone cements** W.P2.28  
Poliana Pollizello Lopes<sup>1</sup>, Maria Helena V. Fernandes; <sup>1</sup>Universidade Federal de Santa Maria
- 17:00 Analysis of mechanical properties and solubility of phosphate glasses for biomedical applications from different additions of TiO<sub>2</sub> and MgO** W.P2.29  
Denise Stolle Weiss<sup>1</sup>, Paulo Soares<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica
- 17:00 Superficial characterization and corrosion resistance of Ti-40Nb in body fluid for biomedical applications.** W.P2.30  
Karla Miriam Reyes<sup>1</sup>, Neide Kazue Kuromoto<sup>1</sup>, Cláudia Eliana Bruno Marino<sup>1</sup>; <sup>1</sup>Universidade Federal de Paraná
- 17:00 Biomimetism monoclinic hydroxyapatite crystal growth with hexagonal habit induced by strontium ion substitution for biomedical applications** W.P2.31  
Jose da Silva Rabelo Neto<sup>1</sup>, Thaiane Balestreri Knopf<sup>1</sup>, Mario Ernesto Giroldo Valerio<sup>2</sup>, Hakan Engqvist<sup>3</sup>, Wei Xia<sup>3</sup>, Marcio Celso Fredel<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA, <sup>2</sup>Universidade Federal de Sergipe, <sup>3</sup>Uppsala University / Uppsala Universitet
- 17:00 Effect of Thermo-Mechanical Treatments on the Microstructure and Microhardness of Ti-15%wtNi Alloy** W.P2.32  
Daniela Cascadan<sup>1</sup>, Carlos Roberto Grandini<sup>1</sup>; <sup>1</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil
- 17:00 Functionality of wollastonite/n-butyl-2-cyanoacrylate bone adhesives: bond strength in vitro** W.P2.33  
Lídia Agata Sena<sup>1</sup>, Rosa Mayelin Guerra Bretaña<sup>2</sup>, Marcelo Martin de Almeida<sup>3</sup>, Jose Mauro Granjeiro<sup>1</sup>, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>2</sup>Universidade de Havana, <sup>3</sup>Universidade Federal Fluminense
- 17:00 A study of the heat treatments in a Ti-15Zr-xMo alloy** W.P2.34  
Caio Castanho Xavier<sup>1,2</sup>, Rubens Chinali Canarim<sup>1,3</sup>, Carlos Roberto Grandini<sup>1,2</sup>, Luís Augusto Rocha<sup>1,2,4</sup>; <sup>1</sup>Brazilian Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine; UNESP-Bauru, SP, <sup>2</sup>Faculde de Ciencias-UNESP Bauru, <sup>3</sup>Faculdade de Engenharia - UNESP Bauru, <sup>4</sup>Center MicroElectroMechanical Systems, Universidade do Minho, Campus de Azurém, Guimarães
- 17:00 The effects of implant surface nanoscale on early osseointegration: study in rat model** W.P2.35  
Maria Cristina Rosifini Alves Rezende<sup>1</sup>, Bruna Cabrera Capalbo<sup>1</sup>, Letícia Cabrera Capalbo<sup>1</sup>, Maria Raquel Abdala Nascimento Egydio Lopes<sup>2</sup>, Jorge Luiz Rosa<sup>3</sup>, Paulo Noronha Lisboa-Filho<sup>4</sup>, Mário Jefferson Quirino Louzada<sup>5</sup>, João Augusto Guedes Oliveira<sup>2</sup>, Cristiane Mayumi Wada<sup>6</sup>, Ana Paula Rosifini Alves Claro<sup>2</sup>; <sup>1</sup>Faculdade de Odontologia de Araçatuba, UNESP, <sup>2</sup>Faculdade de Engenharia de Guaratinguetá, UNESP, <sup>3</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>4</sup>Faculde de Ciencias- UNESP Bauru, <sup>5</sup>Faculdade de Medicina Veterinária de Araçatuba, UNESP, <sup>6</sup>UNESP - Univ Estadual Paulista, POSMAT - Programa de Pós-Graduação em Ciência e Tecnologia de Materiais, Bauru, SP, Brazil

- 17:00 Synthesis and in-vitro biocompatibility study of bio-functionalized titania nanotubes for dental implants** **W.P2.36**  
Sofia Afonso Alves<sup>1,2</sup>, Sweetu Patel<sup>3,4</sup>, Cortino Sukotjo<sup>2,5</sup>, Jean-Pierre Celis<sup>6</sup>, Luís Augusto Rocha<sup>1,7,8</sup>, Tolou Shokuhfar<sup>3,5,4</sup>; <sup>1</sup>Center of MicroElectroMechanical Systems, Departamento de Engenharia Mecânica, Universidade do Minho, Guimarães, <sup>2</sup>American Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine, <sup>3</sup>Michigan Technological University, <sup>4</sup>American Branch of the Institute of Biomaterials, <sup>5</sup>University of Illinois at Chicago, <sup>6</sup>KU Leuven, <sup>7</sup>Brazilian Branch of the Institute of Biomaterials, <sup>8</sup>Universidade Estadual Paulista, Campus de Bauru
- 17:00 Corrosion Evaluation of a Ti25Ta25Nb Alloy for Biomedical Applications** **W.P2.37**  
Mauricio Rangel Seixas<sup>1</sup>, Celso Bortolini Júnior<sup>2</sup>, Advlam Pereira Júnior<sup>1</sup>, Roberto Zenhei Nakazato<sup>1</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"- Campus de Guaratinguetá
- 17:00 Bone formation around titanium alloy implants. Histomorphometric evaluation** **W.P2.38**  
Cristiane Mayumi Wada<sup>1</sup>, Mário Jefferson Quirino Louzada<sup>2</sup>, Maria Raquel Abdala Nascimento Egydio Lopes<sup>2</sup>, Paulo Noronha Lisboa-Filho<sup>3</sup>, João Augusto Guedes Oliveira<sup>2</sup>, Ana Paula Rosifini Alves Claro<sup>2</sup>, Maria Cristina Rosifini Alves Rezende<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil, <sup>2</sup>Universidade Estadual Paulista, <sup>3</sup>UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO" - BAURU - SP
- 17:00 Influence of the polarization voltage on hydroxyapatite formation on tantalum by plasma electrolytic oxidation** **W.P2.39**  
Rosana Fernandes Antonio<sup>1</sup>, Nilson Cristino Cruz<sup>1</sup>, Elidiane Cipriano Rangel<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista
- 17:00 Functionalization of titanium surfaces by anodization** **W.P2.40**  
Tiago dos Santos Pereira De Sousa<sup>1</sup>, Luís Augusto Rocha<sup>2,3,4</sup>, Fernando Gabriel Oliveira<sup>5</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Bauru, <sup>2</sup>Brazilian Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine; UNESP-Bauru, SP, <sup>3</sup>Faculde de Ciencias- UNESP Bauru, <sup>4</sup>Center MicroElectroMechanical Systems, Universidade do Minho, Campus de Azurém, Guimarães, <sup>5</sup>Universidade do Minho
- 17:00 Mechanical properties analysis of PLDLLA biocomposites with calcium phosphates Sr<sup>2+</sup> doped** **W.P2.41**  
Thaiane Balestrieri Knopf<sup>1</sup>, Jose da Silva Rabelo Neto<sup>1</sup>, Marcio Celso Fredel<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DE SANTA CATARINA
- 17:00 Prevent biofilm formation using TiO<sub>2</sub> nanotubes on the Ti-30Ta alloy for biomedical application.** **W.P2.42**  
Patricia Capellato<sup>1</sup>, Cecília Amélia de Carvalho Zavaglia<sup>1</sup>, Ana Paula Rosifini Alves Claro<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade do Estado de Sao Paulo
- 17:00 Evaluation of magnesium scaffolds for bone tissue engineering** **W.P2.43**  
Ana Celeste Ximenes Oliveira<sup>1</sup>, Claudio Laudares Silva<sup>1</sup>, Maria de Fátima Leite<sup>1</sup>, Roberto Braga Figueiredo<sup>1</sup>, Marivalda Magalhães Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Evolution of microstructure during recrystallization of the cold-swaged Ti30Ta alloy** **W.P2.44**  
Celso Bortolini Júnior<sup>1</sup>, Advlam Pereira Júnior<sup>1</sup>, Reginaldo Toshihiro Konatu<sup>1</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Julio de Mesquita Filho" - Campus Guaratinguetá
- 17:00 Evaluation of biaxial stress moment for bilayered and graded discs using finite element method** **W.P2.45**  
Douglas Fabris<sup>1</sup>, Júlio César Matias Souza<sup>1</sup>, Filipe Samuel Silva<sup>2</sup>, Joana Mesquita Guimarães<sup>1</sup>, Marcio Celso Fredel<sup>1</sup>, Bruno Alexandre Henriques<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Universidade do Minho
- 17:00 Hydroxyapatite nanoparticles as selective system of controlled drug delivery for osteomyelitis treatment** **W.P2.46**  
Marina Guedes Fonseca de Souza, Daniel Cristian Ferreira Soares
- 17:00 Titanium-35 niobium alloy inhibit biofilm formation in Staphylococcus aureus and Escherichia coli** **W.P2.47**  
 Dennia Perez de Andrade<sup>1</sup>, Isabel Silva Chaves Carvalho<sup>2</sup>, Renata Martins Parreira<sup>2</sup>, Cheyenne Marçal de souza<sup>2</sup>, Andrea Pires<sup>2</sup>, yasmim Rodarte Carvalho<sup>3</sup>, Cristina Pacheco-Soares<sup>2</sup>, Newton Soares Silva<sup>2,1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Universidade do Vale do Paraíba, <sup>3</sup>Universidade Estadual Paulista "júlio de Mesquita Filho"
- 17:00 A sol-gel system (SiO<sub>2</sub>)<sub>0.80</sub>(P<sub>2</sub>O<sub>5</sub>)<sub>0.04</sub>(CaO)<sub>0.16</sub> used for coating titanium medical devices** **W.P2.48**  
Rosana Zacarias Domingues<sup>1</sup>, Ludmila Oliveira Xavier<sup>1</sup>, Arilza de Oliveira Porto<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

## Thursday, October 1st

### Poster presentations

#### Session W.P3 (09:45 - 11:45)

- 09:45 Response of biofilm formation on biomimetically modified nanotube topography** W.P3.49  
Patricia Capellato<sup>1</sup>, Cecília Amélia de Carvalho Zavaglia<sup>1</sup>, Ana Paula Rosifini Alves Claro<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Estadual de Sao Paulo
- 09:45 Comparison of PVA-Chitosan films fabricated by electrospinning and casting for tissue engineering** W.P3.50  
Jandir Telleria Colque<sup>1</sup>, Alex Alavarse<sup>1</sup>, Jean Jacques Bonvent<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Abc
- 09:45 Development of TiO<sub>2</sub> Scaffolds Incorporated with a Bioactive Glass-Ceramic** W.P3.51  
Mérlin Cristina dos Santos Fernandes<sup>1</sup>, Márcio Raymundo Morelli<sup>1</sup>; <sup>1</sup>Federal University of São Carlos
- 09:45 Characterization of the Ti7,5Mo alloy surface modified by TiO<sub>2</sub> nanotubes and poly(caprolactone) fibers electrospun** W.P3.52  
João Pedro Aquiles Carobolante<sup>1</sup>, Liliane Lelis Oliveira<sup>1</sup>, ana lucia do amaral escada<sup>1</sup>, Rosemeire dos Santos Almeida<sup>2</sup>, Marcos Akira d'Ávila<sup>2</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"- Campus de Guaratinguetá, <sup>2</sup>Universidade Estadual de Campinas
- 09:45 Development and characterization of polymers PVA and Chitosan for tissue engineering** W.P3.53  
Alex Carvalho Alavarse<sup>1</sup>, Jean Jacques Bonvent<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 09:45 Characterization of calcium carbonate (CaCO<sub>3</sub>) extracted from bark range chicken eggs to produce a biomaterial** W.P3.54  
EDMILSON ARAÚJO OLIVEIRA JÚNIOR<sup>1</sup>, Marina de Oliveira Cardoso Macêdo<sup>1</sup>, Ayrton de Sá Brandim<sup>1</sup>, JOSYANE DOS SANTOS BRAGA BASTOS<sup>1</sup>, Dorys Mirian Soares Tabatinga Silva<sup>1</sup>, HAROLDO REIS ALVES DE MACÊDO<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 09:45 Evaluative study of the surfaces of chitosan membranes / CaCO<sub>3</sub> for possible use as a biomaterial** W.P3.55  
EDMILSON ARAÚJO OLIVEIRA JÚNIOR<sup>1</sup>, Marina de Oliveira Cardoso Macêdo<sup>1</sup>, Ayrton de Sá Brandim<sup>1</sup>, JOSYANE DOS SANTOS BRAGA BASTOS<sup>1</sup>, Dorys Mirian Soares Tabatinga Silva<sup>1</sup>, HAROLDO REIS ALVES DE MACÊDO<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 09:45 Mechanical characterization of trilayered all-ceramic dental restorations** W.P3.56  
 Bruno Henriques<sup>1</sup>, Douglas Fabris<sup>1</sup>, Joana Mesquita Guimarães, Filipe Samuel Silva, Júlio César Matias Souza, Marcio Celso Fredel; <sup>1</sup>Universidade Federal de Santa Catarina
- 09:45 Bioabsorbable scaffolds based on β-TCP and polymer used in oral implantology** W.P3.57  
Isadora Schramm Deschamps<sup>1</sup>, Gabriel Leonardo Magrin<sup>1</sup>, Bruno Cândido<sup>1</sup>, Águedo Aragones<sup>1</sup>, César Augusto Magalhães Benfatti<sup>1</sup>, Ricardo de Souza Magini<sup>1</sup>, Júlio César Matias Souza<sup>1</sup>, Marcio Celso Fredel<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 09:45 Characterization of TiO<sub>2</sub> Nanotubes obtained by anodizing on the surface of Ti-7,5 Mo alloy** W.P3.58  
Liliane Lelis Oliveira<sup>1</sup>, João Pedro Aquiles Carobolante<sup>1</sup>, ana lucia do amaral escada<sup>1</sup>, Roberto Zenhei Nakazato<sup>1</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Julio de Mesquita Filho" - Campus Guaratinguetá
- 09:45 Tribocorrosion mechanisms of titanium in osseointegrated implants** W.P3.59  
Luís Augusto Rocha<sup>1</sup>, Fernando Gabriel Oliveira<sup>2</sup>, Sofia Afonso Alves<sup>2</sup>, Ana Rosa Ribeiro<sup>3</sup>; <sup>1</sup>Faculde de Ciencias-UNESP Bauru, <sup>2</sup>Center of MicroElectroMechanical Systems, Departamento de Engenharia Mecânica, Universidade do Minho, Guimarães, <sup>3</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 09:45 Calcium silicate hydrated doped with strontium and manganese ions for biomaterials application** W.P3.60  
Natalia Mayumi Yoshihara<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 09:45 Surface functionalization of alloys of the Ti-15Zr-xMo system for biomedical applications** W.P3.61  
Natália de Araújo da Costa<sup>1</sup>, Rubens Chinali Canarim<sup>1</sup>, Luís Augusto Rocha<sup>1,2</sup>; <sup>1</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil, <sup>2</sup>Centre for Mechanics and Materials Technologies (CT2M), and Department of Mechanical Engineering, University of Minho, Campus de Azurem, Guimarães, Portugal

- 09:45 Corrosion resistance of Ti30Ta alloy after deformation** **W.P3.62**  
Reginaldo Toshiiro Konatu<sup>1</sup>, Kerolene Barbosa Silva, Roberto Zenhei Nakazato, Angelo Caporalli Filho, Ana Paula Rosifini Alves Claro; <sup>1</sup>Universidade Estadual Paulista "Julio de Mesquita Filho" - Campus Guaratinguetá
- 09:45 Biofilm evaluation in calcium aluminate cement containing different additives** **W.P3.63**  
Renata Martins Parreira<sup>1</sup>, Cheynne Marçal de Souza<sup>2</sup>, Andrea Pires<sup>2</sup>, Cristina Pacheco-Soares<sup>2</sup>, Newton Soares Silva<sup>2</sup>, Ivone Regina de Oliveira<sup>2</sup>; <sup>1</sup>Universidade do Vale do Paraíba - Instituto de Pesquisa e Desenvolvimento, <sup>2</sup>Universidade do Vale do Paraíba
- 09:45 Strontium concentration and pH effect on the in vitro studies of the alginate/ $\beta$ -tricalcium phosphate/strontium microspheres** **W.P3.64**  
Ana Paula Duarte Moreira<sup>1</sup>, Marcia Soares Sader<sup>1</sup>, Glória de Almeida Soares<sup>1</sup>, Maria Helena Rocha Leão<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 09:45 Hydroxyapatite nanoparticles containing ciprofloxacin applied in the treatment of osteomyelitis.** **W.P3.65**  
Kelvin Ferraz<sup>1</sup>, Daniel Cristian Ferreira Soares<sup>1</sup>, Marina Guedes Fonseca de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 09:45 Biocomposites of Cellulose From Banana Peels and Hydroxyapatite: Preparation and Characterization** **W.P3.66**  
Cari Maristela Pieper, Vinicius Gonçalves Deon, Oscar Giordani Paniz, Neftalí Lenin Villarreal Carreño
- 09:45 Silver deposition by Plasma Assisted Sputtering on the Ti-15Mo alloy surface after TiO<sub>2</sub> nanotubes growth** **W.P3.67**  
André Luiz Reis Rangel<sup>1</sup>, Maxime Cloutier<sup>2</sup>, Pascale Chevalier<sup>2</sup>, Diego Mantovani<sup>2</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>; <sup>1</sup>FACULDADE DE ENGENHARIA DE GUARATINGUETÁ, <sup>2</sup>Université Laval
- 09:45 Evaluation of antibacterial chlorhexidine incorporated in the Ti7,5Mo alloy** **W.P3.68**  
Eduardo carvalho dutra<sup>1</sup>, Marisa Aparecida Souza<sup>1</sup>, Cristiane Aparecida Pereira<sup>2</sup>, Antonio Olavo Cardoso Jorge<sup>2</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Guaratinguetá, UNESP, <sup>2</sup>Faculdade de Ciências e Tecnologia - Universidade Estadual Paulista "Júlio de Mesquita Filho"
- 09:45 Study of anodization of Ti and Ti-30Ta alloy in ethylene glycol-water electrolyte containing NH<sub>4</sub>F** **W.P3.69**  
Lai Kuan Yu<sup>1</sup>, Leonardo Damin Pimentel<sup>1</sup>, Conceição Aparecida Matsumoto Dutra<sup>1</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>, Roberto Zenhei Nakazato<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Guaratinguetá
- 09:45 Influence of electrochemical parameters in the morphology of zirconium titanate nanotubes grown by anodic oxidation** **W.P3.70**  
Rubens Chinali Canarim<sup>1,2</sup>, Carlos Roberto Grandini<sup>1,3</sup>, Luís Augusto Rocha<sup>1,4,3</sup>; <sup>1</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil, <sup>2</sup>Faculdade de Engenharia - UNESP Bauru, <sup>3</sup>Brazilian Branch of the Institute of Biomaterials, Tribocorrosion and Nanomedicine; UNESP-Bauru, SP, <sup>4</sup>Centre for Mechanics and Materials Technologies (CT2M), and Department of Mechanical Engineering, University of Minho, Campus de Azurem, Guimarães, Portugal
- 09:45 Surface treatment of the Ti7,5Mo alloy with electrospinning of poly (caprolactone) (PCL) to biomedical applications** **W.P3.71** W  
Marisa Aparecida Souza<sup>1</sup>, Gilda Maria Cortez Pereira<sup>1</sup>, João Pedro Aquiles Carobolante<sup>1</sup>, Rosemeire dos Santos Almeida<sup>2</sup>, Marcos Akira d'Ávila<sup>2</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Guaratinguetá, UNESP, <sup>2</sup>Universidade Estadual de Campinas
- 09:45 Transformation Phase on the Beta Titanium Alloy in the Dilometry** **W.P3.72**  
Volney Mattos de Oliveira<sup>1</sup>, Marina Magnoni Oliveira<sup>2</sup>; <sup>1</sup>Universidade de São Paulo, São Carlos, <sup>2</sup>Faculdade de Tecnologia de Tatuí
- 09:45 Effects of biocomposites based on sodium hyaluronate and carbon nanotubes on osteoporotic bone repair** **W.P3.73**  
Vanessa Barbosa Andrade, MARCOS AUGUSTO DE SÁ, Luiz Orlando Ladeira, MARCELO VIDIGAL CALIARI, BRUNA RAPHAELA SOUZA, RODRIGO RIBEIRO RESENDE, Eduardo Henrique Martins Nunes, Wander Luiz Vasconcelos, Erlon Henrique Martins Ferreira, Luiz Gustavo Cancado, ANDERSON JOSE FERREIRA
- 09:45 Processing of Ti30Ta alloy by Warm ECAP (Equal Channel Angular Pressing)** **W.P3.74**  
Angelo Caporalli Filho<sup>1</sup>, Celso Bortolini Júnior<sup>1</sup>, Renan Marucci<sup>1</sup>, João Gabriel Albano<sup>1</sup>, Ana Paula Rosifini Alves Claro<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Julio de Mesquita Filho" - Campus de Guaratinguetá
- 09:45 Properties and applications of gallium-containing compounds as therapeutic compound.** **W.P3.75**  
Alexandrino Pereira dos Santos Neto<sup>1</sup>, Nathalia Talita Candido de Oliveira<sup>2</sup>, Julien Sabinaud<sup>3</sup>, Ronaldo Pereira de Melo Júnior<sup>2</sup>, Gian Duarte<sup>4</sup>, Dyego Maia Oliveira<sup>4</sup>, Severino Alves Júnior<sup>2</sup>, Eduardo Henrique Lago Falcão<sup>2</sup>, Anderson S. L. Gomes<sup>2</sup>, Marco Sacilotti<sup>2</sup>; <sup>1</sup>Faculdade de Odontologia de Pernambuco, <sup>2</sup>Universidade Federal de Pernambuco, <sup>3</sup>Université de Bourgogne, <sup>4</sup>Centro de Tecnologias Estratégicas do Nordeste,

**09:45 Characterization and In Vitro Test of Calcium Phosphate Coatings on Porous Titanium Substrates**

**W.P3.76**

Marize Varella Oliveira<sup>1</sup>, Alexandre Antunes Ribeiro<sup>2</sup>, Roseli Marins Balestra<sup>3</sup>, Mônica Calixto de Andrade<sup>4</sup>, Emanuela Prado Ferraz<sup>5</sup>, Paulo Tambasco De Oliveira<sup>5</sup>, Adalberto Luiz Rosa<sup>4</sup>; <sup>1</sup>Instituto Nacional de Tecnologia, <sup>2</sup>Instituto Nacional de Tecnologia, Rio de Janeiro, <sup>3</sup>Universidade Federal de São João Del-Rei, Departamento de Engenharia Mecânica, <sup>4</sup>Instituto Politécnico do Rio de Janeiro, Universidade do Estado do Rio de Janeiro, <sup>5</sup>Departamento de Morfologia Estomatologia e Fisiologia, Universidade de São Paulo, Ribeirão Preto



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session X.OR2 (11:15 - 12:30) - Room 05

- 11:15 Hybrid silsesquioxanes for Nanomedicine Applications** X.OR2.1\*  
Michel WONG CHI MAN
- 11:45 Tribute to Prof. Yoshitaka Gushikem** X.OR2.2\*  
Ubirajara Pereira Rodrigues Filho<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP
- 12:00 Nanoparticle-bacteria interaction study based on surface functionalization of nanometric structures** X.OR2.3  
Maiara Emer<sup>1</sup>, Mateus Borba Cardoso<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron
- 12:15 Rigidochromic effect in a copper complex (I) hosted in the mesoporous SiO<sub>2</sub> matrix** X.OR2.4  
Leandro Piaggi Ravaro<sup>1</sup>, Andrea Simone Stucchi de Camargo<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos (IFSC), <sup>2</sup>Instituto de Física de São Carlos - USP

#### Session X.OR3 (14:00 - 15:15) - Room 05

- 14:00 Precise small molecule separation by a nanometer-thick and free-standing nanomembrane** X.OR3.5\*  
Shigenori FUJIKAWA<sup>1</sup>; <sup>1</sup>Kyushu University
- 14:30 Ionic Liquid Decorated Silica Nanoparticles for Biomedical Applications** X.OR3.6  
Larissa Brentano Capeletti<sup>1</sup>, João Henrique Zimnoch Dos Santos<sup>1</sup>, Mateus Borba Cardoso<sup>2</sup>, Valter Stefani<sup>1</sup>, Henri Stephan Schrekker<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Laboratório Nacional de Luz Síncrotron
- 15:00 Spectroscopic studies of supramolecular organization in bridged silsesquioxanes via Self-Assembly through Hydrogen Bonding** X.OR3.7  
Vânia FREITAS, rozenn Le Parc, Michel WONG CHI MAN, Xavier Cattoën, Gaëlle Creff, Rute A.S. Ferreira, Luis Dias Carlos, Jean-Louis Bantignies

### Poster presentations

#### Session X.P1 (17:00 - 19:00)

- 17:00 Influence of the sulfate amount in zirconia porous ceramics prepared by sol-gel process for heterogeneous catalysis** X.P1.1  
Marinalva Aparecida Alves Rosa<sup>1</sup>, Jonatas Zamboim de Vasconcelos<sup>2</sup>, Leandro Martins<sup>1</sup>, Celso Valentim Santilli<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 Pores formation by surfactant mixture in zirconia ceramics prepared by sol-gel process** X.P1.2  
Marinalva Aparecida Alves Rosa<sup>1</sup>, Leandro Martins<sup>1</sup>, Celso Valentim Santilli<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 PHOTOCROMISM OF SOL-GEL SiO<sub>2</sub>: AgNO<sub>3</sub> HIBRIDOS FILMS** X.P1.3  
LUCAS BRAGA DE MELLO<sup>1</sup>, Dario Antonio Donatti<sup>1</sup>, Fábio Simões de Vicente<sup>1</sup>, Dimas Roberto Vollet<sup>1</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA "JúLIO DE MESQUITA FILHO"
- 17:00 Transparent monoliths based on SiO<sub>2</sub> prepared by sol-gel process for possible optical application** X.P1.4  
Lorena Laize Santos Alves<sup>1</sup>, Caroline de Mayrinck<sup>1</sup>, Marco Antonio Schiavon<sup>1</sup>, Édison Pecoraro<sup>2</sup>, Jefferson Luis Ferrari<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 SrSnO<sub>3</sub> : Cu<sup>2+</sup> perovskitas suportado em óxidos comerciais** X.P1.5  
Luzia Maria Castro Honório<sup>1</sup>, Guilherme Leocardio Lucena Santos<sup>1</sup>, Suelen Alves de Lima Silva<sup>1</sup>, Joao Jarllys Nobrega de Souza<sup>1</sup>, Danniely Melo Ribeiro<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Elson Longo<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de São Carlos

- 17:00 Magnetism as a tool for band-gap narrowing of Zinc Oxide films prepared by sol-gel method** X.P1.6  
Antonio Ruotolo<sup>1</sup>, Qi SHAO<sup>1</sup>, JUAN ANTONIO ZAPIEN<sup>1</sup>; <sup>1</sup>City University of Hong Kong
- 17:00 Evaluation of different functionalized mesoporous silica nanoparticles for breast cancer cells treatment** X.P1.7  
Jessica Fernanda Affonso de Oliveira<sup>1,2</sup>, Mariana Pastore Fogagnoli<sup>1,2</sup>, Mateus Borba Cardoso<sup>1,2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Laboratório Nacional de Luz Síncrotron
- 17:00 Synthesis and Sintering of perovskite powders BaCe<sub>0.2</sub>Zr<sub>0.7</sub>Y<sub>0.1</sub>O<sub>3-δ</sub> (BCZY27) using the modified pechini method.** X.P1.8  
Ana Kaori Ouba<sup>1</sup>, Adriana Scoton Antonio Chinelatto<sup>1</sup>, Adilson Luiz Chinelatto<sup>1</sup>, Edson Cezar Grzebielucka<sup>1</sup>, Tufy Kabbas Junior<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa
- 17:00 Preparation of photocatalytic coatings by entrapment of SiO<sub>2</sub>@TiO<sub>2</sub> particles in sol-gel derived hybrid matrix** X.P1.9  
Vitor Pires Martinez<sup>1</sup>, Elias Paiva Ferreira Neto<sup>2</sup>, Ubirajara Pereira Rodrigues Filho<sup>2</sup>; <sup>1</sup>Escola de Engenharia de São Carlos, Departamento de Engenharia de Materiais, USP, <sup>2</sup>Instituto de Química de São Carlos - USP
- 17:00 As(III)-containing aqueous media treatment by adsorption on Fe/Mn-PVA composite macroporous hydrogel spheres** X.P1.10  
Edilaine Ferreira da Silva<sup>1,2</sup>, Armindo Santos<sup>1</sup>, Felipe Wallysson Ferreira de Oliveira<sup>1</sup>, Victor Barbosa Campos<sup>1,2</sup>, Luciana Sampaio Ribeiro<sup>1,2</sup>, Camila Alves Escanio<sup>1,2</sup>, José Domingos Ardisson<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Centro Universitário de Belo Horizonte
- 17:00 Metal Oxide Liquid Crystals Prepared by Soft Template Coupled to Sol-Gel Process** X.P1.11  
Fernanda Gabriel Freitas<sup>1</sup>, Bruna Drielen Ferreira<sup>1</sup>, Celso Valentim Santilli<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Magnetic polymer networks based on amino functionalized poly(dimethylsiloxane): characterization and copper adsorption from aqueous solution** X.P1.12  
Mariana de Rezende Bonesio<sup>1</sup>, Fábio Luiz Pissetti<sup>1</sup>; <sup>1</sup>Universidade Federal de Alfenas
- 17:00 One pot synthesis of Sub-micrometer ormosil particles with Amino and Nitrile Groups via Sol-Gel Process.** X.P1.13  
Marília Vilela Salvador<sup>1</sup>, Ubirajara Pereira Rodrigues Filho<sup>2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Química de São Carlos - USP
- 17:00 Synthesis of FeNi nanoparticles by proteic Sol-Gel Method** X.P1.14  
Adanny Filipe Nogueira Martins<sup>1</sup>, José Marcos Sasaki<sup>1</sup>, Cássio Morilla dos Santos<sup>1</sup>, Tiago Pinheiro Braga<sup>2</sup>, Diego Félix Dias<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Manganese porphyrin functionalized on Fe<sub>3</sub>O<sub>4</sub>@nSiO<sub>2</sub>@MCM-41 magnetic composite: structural characterization and catalytic activity as cytochrome P450 model** X.P1.15  
Fabrizio Bortolucci Zanardi<sup>1</sup>, Isaltino Alves Barbosa<sup>1</sup>, Paulo César Sousa Filho<sup>1</sup>, Lucas Dimarô Zanatta<sup>1</sup>, Douglas Luis da Silva<sup>1</sup>, Osvaldo Antonio Serra<sup>1</sup>, Yassuko Iamamoto<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Eggshell sol-gel hydroxiapatite synthesis** X.P1.16  
Marilza Sampaio Aguiar<sup>1</sup>, José Brant de Campos<sup>2</sup>, Bruno Cavalcanti Di Lello<sup>1</sup>, Nataly Cristiane de Campos Amador Garcias<sup>2</sup>, Fabio Silva Queiroz<sup>2</sup>, Hermes Vinicius Almeida<sup>1</sup>; <sup>1</sup>Universidade Estácio de Sá, <sup>2</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Cationic manganese(III) porphyrin bound in mesoporous molecular sieves of MCM-41 and HSM as catalyst for the hydrocarbon oxidation** X.P1.17  
Cynthia Sena Silva<sup>1</sup>, Isaltino Alves Barbosa, Amanda Cardoso Zera<sup>1</sup>, Fabrício Bortolucci Zanardi<sup>1</sup>, Douglas Luis da Silva, Paulo César Sousa Filho, Lucas Dimarô Zanatta, Osvaldo Antonio Serra, Yassuko Iamamoto; <sup>1</sup>Universidade de São Paulo
- 17:00 Metalloporphyrins immobilized in Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> mesoporous microspheres: reusable biomimetic catalysts for the oxidation of alkenes and alkanes.** X.P1.18  
Amanda Cardoso Zera<sup>1</sup>, Isaltino Alves Barbosa<sup>1</sup>, Fabrício Bortolucci Zanardi<sup>1</sup>, Douglas Luis da Silva<sup>1</sup>, Cynthia Sena Silva<sup>1</sup>, Paulo César Sousa Filho<sup>1</sup>, Osvaldo Antonio Serra<sup>1</sup>, Yassuko Yamamoto<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 The potential of biocompatible hybrid system loaded with magnetic nanoparticle for biomedical applications: magnetohyperthermia and controlled drug release** X.P1.19  
Rodolfo Fini<sup>1</sup>, Bruno Leonardo Caetano<sup>2,1</sup>, Christine Ménager<sup>2</sup>, Celso Valentim Santilli<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP, <sup>2</sup>Université Paris 6 Pierre and Marie Curie
- 17:00 Effect of thickness on dielectric properties of spin-coated Ba(Zr<sub>0.25</sub>Ti<sub>0.75</sub>)O<sub>3</sub> thin films.** X.P1.20  
Armando Monte Mendes<sup>1</sup>, Fabiana Villela da Motta<sup>2</sup>, Carlos Alberto Paskocimas<sup>2</sup>, Elson Longo<sup>3</sup>, Felon Martinho Pontes<sup>4</sup>, Mauricio Roberto Bomio Delmonte<sup>2</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Universidade Federal do Rio Grande do Norte, <sup>3</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>4</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil



- 17:00 Production and evaluation of texture profile of protein gels filled with solid lipid microparticles encapsulating curcumin** X.P1.21  
 Ivana Morais Geremias de Andrade<sup>1</sup>, Samantha Cristina de Pinho<sup>1</sup>; <sup>1</sup>Faculdade de Zootecnia e Engenharia de Alimentos
- 17:00 Study of Adsorption of Curcumina-PA/ Curcumina-Extra resulted in Hexagonal Silica mesoporous silica Layer.** X.P1.22  
 Míria Almeida Souza<sup>1</sup>, Kelly Rejane de Oliveira Araújo<sup>2</sup>, Alecio Rodrigues Nunes<sup>3</sup>; <sup>1</sup>Universidade Federal de Goiás, <sup>2</sup>Universidade de Brasília, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia Goiano
- 17:00 Photoisomerization and Activation Energy in GPTS-derived organic/Silica films doped with Methyl Red** X.P1.23  
 Kelly Tasso Paula<sup>1</sup>, Fábio Simões de Vicente<sup>1</sup>, Dario Antônio Donatti<sup>2</sup>, Dimas Roberto Vollet<sup>2</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA "JúLIO DE MESQUITA FILHO", <sup>2</sup>Universidade Paulista - Campus Rio Claro
- 17:00 Kinetic and equilibrium for removal of copper(II) from aqueous solutions by organic-inorganic hybrid material based on poly(dimethylsiloxane) and poly[vinyltrimethoxysilane-co-2-(dimethylamino)ethyl methacrylate]** X.P1.24  
 Fábio Antônio Belinelli Silva<sup>1</sup>, Fátima Aparecida Das Chagas<sup>1</sup>, Fábio Herbst Florenzano<sup>2</sup>, Fábio Luiz Pissetti<sup>1</sup>; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Universidade de São Paulo
- 17:00 Kinetic study and pH effect for adsorption of copper(II) by semi-interpenetrating polymer network based on poly(dimethylsiloxane) and poly[2-(dimethylamino)ethyl methacrylate]** X.P1.25  
 Fábio Antônio Belinelli Silva<sup>1</sup>, Kerolaine Binotti Bertin<sup>1</sup>, Fábio Herbst Florenzano<sup>2</sup>, Fábio Luiz Pissetti<sup>1</sup>; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Universidade de São Paulo
- 17:00 Anti-Bacteria Coating based on Photo-synthesized Silver Nanoparticle by UV irradiation of Phosphotungstate Ormosils doped with Core@Shell SiO<sub>2</sub>@TiO<sub>2</sub>** X.P1.26  
 Lidiane Patrícia Gonçalves<sup>1</sup>, Alejandro Miñan<sup>2,3,4</sup>, Monica Fernandez Lorenzo<sup>2,3,4</sup>, Maria Elena Vela<sup>2,3,4</sup>, Patricia Schilardi<sup>2,3,4</sup>, Wagner Rafael Correr<sup>5</sup>, Orlando Elguera Ysnaga<sup>1</sup>, Elias Paiva Ferreira Neto<sup>1</sup>, Ubirajara Pereira Rodrigues Filho<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP, <sup>2</sup>Universidad Nacional de la Plata, <sup>3</sup>Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas, <sup>4</sup>Consejo Nacional de Investigaciones Científicas y Tecnológicas, <sup>5</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Synthesis of Zr<sub>6</sub>Nb<sub>2</sub>O<sub>17</sub> mixed oxide for use as a heterogeneous catalyst support.** X.P1.27  
 Marivone Nunho Sousa<sup>1</sup>, Douglas dos Santos Ferreira<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 Organic - inorganic hybrids containing polyoxometalates. Effect of NH<sub>2</sub> groups in the photochromic properties** X.P1.28  
 Bianca Aparecida de Freitas Santos<sup>1</sup>, Celso Molina<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Titanium dioxide use as a catalyst of cutting fluid photobleaching** X.P1.29  
 Amanda De Assis Alves Loures<sup>1</sup>, Claudinei Rezende Calado<sup>1</sup>, Marcelo Machado Viana<sup>2</sup>, Carla Regina Ferreira<sup>1</sup>, Fernanda Cândido França<sup>1</sup>, Leonardo Roberto da Silva<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais, <sup>2</sup>Pontifícia Universidade Católica de Minas Gerais
- 17:00 Different Metals (Mn, Co and Zr) doped Nanosized TiO<sub>2</sub> semiconductor and their Photocatalytic Activity under Visible light irradiation** X.P1.30  
 Lalitha Gnanasekaran<sup>1</sup>, Saravanan Rajendran<sup>2</sup>, Hemamalini R<sup>1</sup>, Francisco Gracia<sup>2</sup>, Ravichandran K<sup>1</sup>; <sup>1</sup>University of Madras, <sup>2</sup>Universidad de Chile
- 17:00 Photoinduced formation of silver nanoparticles in Ag<sup>+</sup> doped Ormosil-phosphotungstate hybrid films** X.P1.31  
 Julia Cristina Noveletto<sup>1</sup>, Elias Paiva Ferreira Neto<sup>2</sup>, Ubirajara Pereira Rodrigues Filho<sup>2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>São Carlos Institute of Chemistry, USP
- 17:00 Influence of doping (Fe and Ag) on the structural and photocatalytic properties of SrTiO<sub>3</sub>** X.P1.32  
 Sérgio Alves de Azevedo<sup>1,2</sup>, Geanso Miranda de Moura<sup>2</sup>, Alex de Meireles Neris<sup>3</sup>, Antônio Gouveia de Souza<sup>3</sup>, Márcia Rejane Santos da Silva<sup>3</sup>, Iêda Maria Garcia Santos<sup>3</sup>, Alysson Steimacher<sup>2</sup>, Adenilson Oliveira dos Santos, Marta Maria da Conceição<sup>3</sup>, Marta Celia Dantas Silva<sup>3</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal do Maranhão, <sup>3</sup>Universidade Federal da Paraíba
- 17:00 Influence of isopropanol/ethanol solvent ratio on the preparation of SiO<sub>2</sub>@ TiO<sub>2</sub> core@shell photocatalysts** X.P1.33  
 Elias Paiva Ferreira Neto<sup>1</sup>, Sajjad Ullah<sup>1</sup>, Ubirajara Pereira Rodrigues Filho<sup>1</sup>; <sup>1</sup>São Carlos Institute of Chemistry, USP
- 17:00 Crystallite Size Evolution of Nanoparticle Hydroxiapatite Obtained by Sol Gel from Natural Precursors** X.P1.34  
 Marilza Sampaio Aguilar<sup>1</sup>, José Brant de Campos<sup>2</sup>, Bruno Cavalcanti Di Lello<sup>1</sup>, Nataly Cristiane Campos<sup>2</sup>, Fabio Silva Queiroz<sup>2</sup>; <sup>1</sup>Universidade Estácio de Sá, <sup>2</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Development of two new materials obtained from the incorporation of 2-AMPy and 2-AEPy on a silica matrix** X.P1.35  
 Otávio Rôvere Bittencourt<sup>1</sup>, Marília Reginato de Barros<sup>1</sup>, Juliano Carvalho Ramos<sup>1</sup>, Daniel Lázaro Gallindo Borges<sup>1</sup>, Rosely Aparecida Peralta<sup>1</sup>, Hérica Aparecida Magosso<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

- 17:00 Influence of precursor nature in the properties of the sol-gel mixed oxide Nb<sub>2</sub>O<sub>5</sub>/ Al<sub>2</sub>O<sub>3</sub>** **X.P1.36**  
Yuri Hemerly Poyares Café<sup>1,2</sup>, Eliane D'Elia<sup>1</sup>, Emerson Schwingel Ribeiro<sup>1</sup>, Cristina da Costa Amorim<sup>2</sup>, Elber Vidigal Bendinelli<sup>2</sup>, Alberto Pires Ordine<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Centro de Pesquisas de Energia Elétrica
- 17:00 Bionanocomposites based on poly(beta-hydroxybutyrate) and silica obtained via sol-gel process** **X.P1.37**  
Anna Toledo<sup>1</sup>, Elton Jorge da Rocha Rodrigues<sup>1</sup>, Maxwell de Paula Cavalcante<sup>1</sup>, Maria Inês Bruno Tavares<sup>1</sup>; <sup>1</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session X.OR5 (11:15 - 12:30) - Room 05

- 11:15 Aerogels based on Novel 2D Materials** X.OR5.8\*  
Marcus Andre Worsley<sup>1</sup>; <sup>1</sup>Lawrence Livermore National Laboratory
- 11:45 Growth of granular films of cobalt chromite by sol-gel method** X.OR5.9  
Bruno Verissimo de Miranda Farias<sup>1</sup>, Ramón Raudel Peña Garcia<sup>1</sup>, Renata Oliveira Domingues<sup>1</sup>, Ariel Delgado del Toro<sup>1</sup>, Yuset Guerra Dávila<sup>1</sup>, Eduardo Padrón Hernández<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 12:00 Hybrid Magnetic Coatings** X.OR5.10\*  
Naureen Akhtar<sup>1</sup>, Alexey O. Polyakov<sup>2</sup>, Aisha Aqeel<sup>2</sup>, Graeme R. Blake<sup>2</sup>, Heinz Amenitsch<sup>3</sup>, Petra Rudolf<sup>2</sup>, Thomas T. M. Palstra<sup>2</sup>; <sup>1</sup>University of Bergen / Universitetet i Bergen, <sup>2</sup>University of Groningen / Rijksuniversiteit Groningen, <sup>3</sup>Technische Universität Graz

#### Session X.OR6 (14:00 - 15:15) - Room 05

- 14:00 Synthesis and Characterization of Multifunctional Thin Films Prepared by Sol-Gel Process** X.OR6.11  
Nelcy Della Santina Mohallem<sup>1</sup>, Marcelo Machado Viana, Helen Rose de Castro Silva Andrade, Luiz Fernando Lima, Claudio Valadares Macedo, Luciana M Seara; <sup>1</sup>Universidade Federal de Minas Gerais
- 14:15 Tribute to Prof. Marian Rosaly Davolos** X.OR6.12\*  
Ubirajara Pereira Rodrigues Filho<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP
- 14:30 First-principle Study of the Interactions at the SiO<sub>2</sub> and TiO<sub>2</sub> Interface.** X.OR6.13\*  
Aleksandar Staykov<sup>1</sup>; <sup>1</sup>Kyushu University
- 15:00 Synthesis of pillared heterostructures based on exfoliated Lepidocrocite-like ferrititanate nanosheets and anatase nanoparticles for photocatalytic applications.** X.OR6.14  
 Margarita Habran Esteban<sup>1</sup>, Antonio Mario Costa<sup>1</sup>, Rafaela Fonseca Carvalho<sup>1</sup>, Bojan A. Marinkovic<sup>1</sup>, Edisson Morgado Jr.<sup>2</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro, <sup>2</sup>PETROBRAS

### Poster presentations

#### Session X.P2 (17:00 - 19:00)

- 17:00 Hybrid Siloxane-Polyether Films for Controlled Release of Salicylic Acid** X.P2.38  
Erika Imada Barcelos<sup>1</sup>, Gyselle Holanda Silva<sup>2</sup>, Ailton de Souza Gomes<sup>1</sup>, Karim DAHMOUCHE<sup>2</sup>; <sup>1</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ, Rio de Janeiro- RJ/Brazil, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 17:00 Electrospinning of LaNiO<sub>3</sub> nanowires** X.P2.39  
Bruna Niccoli Ramirez<sup>1</sup>, Daniel Felipe Simião<sup>1</sup>, Marcia Tsuyama Escote<sup>2</sup>; <sup>1</sup>Fundação Universidade Federal do Abc, <sup>2</sup>Universidade Federal do ABC
- 17:00 SrSnO<sub>3</sub> perovskita impregnados em suportes constituídos por SnO<sub>2</sub> - ZrO<sub>2</sub>** X.P2.40  
Suelen Alves de Lima Silva<sup>1</sup>, Joao Jarllys Nobrega de Souza<sup>1</sup>, Luzia Maria Castro Honório<sup>1</sup>, SEVERINO JACKSON GUEDES<sup>1</sup>, Ricardo Peixoto Suassuna Dutra<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Danniely Melo Ribeiro<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Synthesis of Bioactive Material Obtained from Rice Husk Ash** X.P2.41  
 Bruna Musacchio Vargas<sup>1</sup>, Flávia da Silva Barbosa<sup>1</sup>, Victória Vieira Kopp<sup>1</sup>, Wladimir Hernandez Flores<sup>1</sup>, Ricardo Zottis<sup>1</sup>, Luciana Machado Rodrigues<sup>1</sup>, Maria Alejandra Liendo<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Pampa
- 17:00 Synthesis of Y123 and Y358 heat treated in resistance and domestic microwave ovens** X.P2.42  
Alexsander Lourenço Pessoa<sup>1</sup>, Cláudio Luiz Carvalho<sup>1</sup>, Rafael Zadorosny<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP

- 17:00 A facile synthesis method to obtain SrSnO<sub>3</sub>@AO<sub>2</sub> (A= Ti or Zr) core shell systems** X.P2.43  
Guilherme Leocárcio Lucena<sup>1</sup>, Ary da Silva Maia<sup>1</sup>, Elson Longo<sup>2</sup>, Antônio Gouveia de Souza<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Instituto de Química - UNESP - Araraquara
- 17:00 (Ca, Sr)SnO<sub>3</sub>:Ni<sup>2+</sup> - Comparison of Structural Properties** X.P2.44  
Marcelo Rodrigues do Nascimento<sup>1</sup>, Walter Alves da Cruz<sup>2</sup>, Antônio Gouveia de Souza<sup>2</sup>, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia da Paraíba, <sup>2</sup>Universidade Federal da Paraíba
- 17:00 Synthesis and characterization of powder zinc oxide (ZnO) by sol-gel technique modified by reaction for ion coordination (RIC)** X.P2.45  
Samanta Mesquita de Holanda<sup>1</sup>, José Arimateia Pinto Magno<sup>1</sup>, Kaick Viana de Oliveira Castro<sup>1</sup>, Idalmir de Souza Queiroz Júnior<sup>1</sup>, Humberto Dionísio de Andrade<sup>1</sup>, Francisco Leonardo Gomes de Menezes<sup>1</sup>; <sup>1</sup>Universidade Federal Rural do Semi Árido
- 17:00 Studies of the thermal treatments in the synthesis of magnesium and potassium oxides for use as heterogeneous catalysts.** X.P2.46  
Marivone Nunho Sousa<sup>1</sup>, Lucas Dionísio Toledo<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 Silica carbon ceramic modified with glucose oxidase applied as biosensor for glucose determination** X.P2.47  
 Elisangela Muncinelli Caldas<sup>1</sup>, Dhjulia Novatzky<sup>1</sup>, Monique Deon<sup>1</sup>, Tania Maria Haas Costa<sup>1</sup>, Eliana Weber de Menezes<sup>1</sup>, Edilson Valmir Benvenuti<sup>1</sup>, Yoshitaka Gushikem<sup>2</sup>, Leliz Ticona Arenas<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Universidade Estadual de Campinas
- 17:00 Membrane chitosan mixed with cashew nut shell liquid (CNSL) how to proposal for a new biomaterial** X.P2.48  
JOSYANE DOS SANTOS BRAGA BASTOS<sup>1</sup>, EDMILSON ARAÚJO OLIVEIRA JÚNIOR<sup>1</sup>, Ayrton de Sá Brandim<sup>1</sup>, Marina de Oliveira Cardoso Macêdo<sup>1</sup>, HAROLDO REIS ALVES DE MACÊDO<sup>1</sup>, Rosângela Cássia de Sá Silva<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>2</sup>Instituto Federal de Educação, Ciência E Tecnologia do Piauí
- 17:00 PVP-stabilized palladium nanoparticles in silica as effective catalysts for hydrogenation reactions** X.P2.49  
 Marcos Alexandre Gelesky<sup>1</sup>, Caroline Pires Ruas<sup>1</sup>, Jhulia Mulato<sup>1</sup>; <sup>1</sup>UNIVERSIDADE FEDERAL DO RIO GRANDE
- 17:00 Improving the corrosion performance of hybrid sol-gel matrix by modification with clay** X.P2.50  
Viviane - Dalmoro, João Henrique Zimnoch Dos Santos, Denise Schermann Azambuja
- 17:00 New synthesis of ordered mesoporous silica** X.P2.51  
Marcia Carvalho de Abreu Fantini<sup>1</sup>, Gustavo de Paula Perli<sup>1</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo
- 17:00 Hybrid anti-biofouling coatings for medical applications** X.P2.52  
 Kelen M.F. Rossi de Aguiar<sup>1</sup>, Maristela Portela<sup>2</sup>, Klaus Rischka<sup>3</sup>, Antonio Ferreira-Pereira<sup>2</sup>, Ubirajara Pereira Rodrigues Filho<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP, <sup>2</sup>Universidade Federal do Rio de Janeiro, <sup>3</sup>Fraunhofer Institute for Manufacturing Technology and Advanced Materials
- 17:00 Evaluation of the short and long-range disorder in the CaSn<sub>1-x</sub>Zr<sub>x</sub>O<sub>3</sub> system** X.P2.53  
Cynthia Ribeiro Guimarães<sup>1</sup>, Mary Cristina F Alves<sup>1</sup>, Márcia Rejane Santos da Silva<sup>2</sup>, Iêda Maria Garcia Santos<sup>2</sup>, Antônio Gouveia de Souza<sup>2</sup>, Valderi Duarte Leite<sup>1</sup>; <sup>1</sup>Universidade Estadual da Paraíba, <sup>2</sup>Universidade Federal da Paraíba
- 17:00 Synthesis of Fe-doped Al<sub>2</sub>O<sub>3</sub>:Fe by the modified-Pechini method** X.P2.54  
Joao Jarllys Nobrega de Souza<sup>1</sup>, Arnayra Sonayra Brito Silva<sup>1</sup>, Ary da Silva Maia<sup>1</sup>, Elson Longo<sup>2</sup>, Antônio Gouveia de Souza<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Unesp-Araraquara
- 17:00 The use of ionic silsesquioxane to obtain platinum nanoparticles strongly adhered on silica surface to be applied as heterogeneous catalyst** X.P2.55  
Eliana Weber de Menezes<sup>1</sup>, Douglas Santana Charqueiro<sup>1</sup>, Carlos Daniel Gessi Caneppele<sup>1</sup>, Joanna Bassotto Zani<sup>1</sup>, Leliz Ticona Arenas<sup>1</sup>, Celso Camilo Moro<sup>1</sup>, Tania Maria Haas Costa<sup>1</sup>, Edilson Valmir Benvenuti<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Synthesis of anatase doped with gold nanoparticles with high surface area** X.P2.56  
 Andressa da Cruz Schneid<sup>1</sup>, Raissa Garces Becker<sup>1</sup>, Eliana Weber de Menezes<sup>1</sup>, Tania Maria Haas Costa<sup>1</sup>, Celso Camilo Moro<sup>1</sup>, Edilson Valmir Benvenuti<sup>1</sup>, Leliz Ticona Arenas<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Synthesis and Characterization of Sodalite and Cancrinite Zeolites** X.P2.57  
Fernanda Arruda Nogueira Gomes da Silva<sup>1</sup>, Fabiano Augusto Costa Mafra Passos<sup>2,3</sup>, Adriana de Aquino Soeiro Felix<sup>4</sup>, Francisco Manoel dos Santos Garrido<sup>1</sup>, João Alves Sampaio<sup>3</sup>, Carla Napoli Barbato<sup>2</sup>; <sup>1</sup>Instituto de Química/Universidade Federal do Rio de Janeiro, <sup>2</sup>Escola de Química/Universidade Federa do Rio de Janeiro, <sup>3</sup>Centro de Tecnologia Mineral, <sup>4</sup>Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro

- 17:00 Immobilization of the enzyme invertase in SBA-15 functionalized by silanes groups.** **X.P2.58**  
Livia Maria de Oliveira Ribeiro<sup>1</sup>, Tiago Pereira Martins da Costa<sup>1</sup>, Renata Maria Rosas Garcia Almeida<sup>1</sup>, Antonio Osimar Sousa da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Alagoas
- 17:00 Adsorption of Pd (II) ions on SBA-15 modified with mercaptopropyl group: textural and structural characterization** **X.P2.59**  
 Carlos Daniel Gessi Caneppele<sup>1</sup>, Carolina Passaia<sup>1</sup>, Tania Maria Haas Costa<sup>1</sup>, Yuriy Kholin<sup>2</sup>, Emilene Mendes Becker<sup>1</sup>, Edilson Valmir Benvenuto<sup>1</sup>, Eliana Weber de Menezes<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>V.N. Karazin Kharkiv National University
- 17:00 Mg<sub>2</sub>(Ti<sub>1-x</sub>Sn<sub>x</sub>)O<sub>4</sub> obtained by the modified-Pechini method** **X.P2.60**  
Lais Chantelle De Lima<sup>1</sup>, Jacqueline Moraes da Costa<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Márcia Rejane Santos da Silva<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Xerogel synthesis for thermal comfort in ceramics plates** **X.P2.61**  
grégori avrella<sup>1</sup>, Eduardo dos Santos Pio<sup>2</sup>; <sup>1</sup>Fundação Universidade Federal do Pampa, <sup>2</sup>Universidade Federal do Rio Grande do Sul
- 17:00 A study of the relationship between the morphology and swelling degree of hydrogels composite from polysaccharide and montmorillonite clay** **X.P2.62**  
Lucas Valente Carvalho<sup>1</sup>, Marcia Parente Melo da Costa<sup>1</sup>, Ivana Lourenço de Mello Ferreira<sup>1</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro
- 17:00 [Rh(dpeam)(cod)Cl] complex immobilized on mesoporous molecular sieves MCM-41: a hybrid catalyst for olefins heterogeneous hydrogenation** **X.P2.63**  
Cristian Hugo Campos Figueroa<sup>1</sup>, Cecilia Carolina Torres<sup>1</sup>, Gina Pecchi<sup>1</sup>, Julio Belmar<sup>1</sup>; <sup>1</sup>Universidad de Concepción
- 17:00 Electrochemical 4-nitrophenol sensor: synthesis and characterization molecularly imprinted siloxane and multiwall carbon nanotubes** **X.P2.64**  
Joab Serra Rodrigues da silva<sup>1</sup>, FERNANDO ALVES FERREIRA<sup>1</sup>, JAILSON DOS SANTOS SILVA<sup>1</sup>, José Anderson Farias da Silva Bomfim<sup>1</sup>, Mayrane Carla Nascimento<sup>1</sup>, Sarah Kelly Melo Cavalcante<sup>1</sup>, Cristian Bernado da Silva<sup>1</sup>, Alan John Duarte de Freitas<sup>1</sup>, Johnnatan Duarte de Freitas<sup>1</sup>, Jonas dos Santos Sousa<sup>1</sup>, wilney de Jesus Rodrigues Santos<sup>1</sup>, Phabyanno Rodrigues Lima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 17:00 Optimization of the synthesis of Mg<sub>2</sub>SnO<sub>4</sub> by a soft chemical method** **X.P2.65**  
Lais Chantelle De Lima<sup>1</sup>, Jacqueline Moraes da Costa<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Márcia Rejane Santos da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Preparation and characterization of sulfated Al<sub>2</sub>O<sub>3</sub> using Pluronic P123 as structure directing agent** **X.P2.66**  
Lucia Kiyomi Noda<sup>1</sup>, Raphael Santos Henrique<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Alternatives for the treatment of effluents from textile industries: Organic dyes sequestration by mesoporous aluminosilicate hosts** **X.P2.67**  
 Flavio Pinto de Almeida Filho<sup>1</sup>, Moema De Barros e Silva Botelho<sup>2</sup>, cynthia regina ferrari<sup>3</sup>, Andrea Simone Stuchi de Camargo<sup>1</sup>, Hellmut Eckert<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos - USP, <sup>2</sup>Universidade de Brasília, <sup>3</sup>Instituto de Física de São Carlos (IFSC),
- 17:00 Polystyrene Nano-foams impregnated with SnO<sub>2</sub> nanoparticles by TIPS: Application in heterogeneous photocatalysis** **X.P2.68**  
Geovânia Cordeiro Assis<sup>1</sup>, Mary Cristina F Alves<sup>1</sup>, Marcelo de Oliveira Rodrigues<sup>2</sup>, Euzebio Skovroinski<sup>3</sup>, Valderi Duarte Leite<sup>1</sup>, Rodrigo José de Oliveira<sup>1</sup>; <sup>1</sup>Universidade Estadual da Paraíba, <sup>2</sup>Universidade de Brasília, <sup>3</sup>Pós-Graduação em Ciência de Materiais - Universidade Federal de Pernambuco
- 17:00 Manganese porphyrin functionalized on Fe<sub>3</sub>O<sub>4</sub>@nSiO<sub>2</sub>@MCM-41 magnetic composite: structural characterization and catalytic activity as cytochrome P450 model** **X.P2.69**  
Fabrcio Bortulucci Zanardi<sup>1</sup>, Isaltino Alves Barbosa<sup>1</sup>, Paulo César Sousa Filho<sup>1</sup>, Lucas Dimarô Zanatta<sup>1</sup>, Douglas Luis da Silva<sup>1</sup>, Osvaldo Antonio Serra<sup>1</sup>, Yassuko Iamamoto<sup>1</sup>; <sup>1</sup>Universidade de São Paulo



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session Y.OR1 (09:45 - 10:45) - Room D

- 09:45 Self-Assembly of Enzyme-Polymer Conjugates and Fusion Proteins Into Catalytically Active Films** Y.OR1.1\*  
Bradley Olsen<sup>1</sup>, Christopher Lam<sup>1</sup>, Dongsook Chang<sup>1</sup>, Guokui Qin<sup>1</sup>, Aaron Huang<sup>1</sup>, Sybele Saska<sup>1</sup>; <sup>1</sup>Massachusetts Institute of Technology
- 10:15 Bioengineered 3D matrices to explore epithelial-to-mesenchymal transitions** Y.OR1.2  
 Sílvia Joana Bidarra<sup>1,2</sup>, Sara Rocha<sup>2,3</sup>, Patrícia Oliveira<sup>2,3</sup>, Carla Oliveira<sup>2,3</sup>, Cristina Carvalho Barrias<sup>1,2</sup>; <sup>1</sup>Instituto de Engenharia Biomédica, <sup>2</sup>Instituto de Investigação e Inovação em Saúde, <sup>3</sup>Institute of Molecular Pathology and Immunology of the University of Porto
- 10:30 Rational design of antimicrobial nanoparticles to overcome bacterial resistance** Y.OR1.3  
Jessica Fernanda Affonso de Oliveira<sup>1,2</sup>, Ângela Saito<sup>1,3</sup>, Ariadne Tuckmantel Bido<sup>1,2</sup>, Jörg Kobarg<sup>1</sup>, Hubert Karl Stassen<sup>4</sup>, Mateus Borba Cardoso<sup>1,2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Laboratório Nacional de Luz Síncrotron, <sup>3</sup>Laboratório Nacional de Biociências, <sup>4</sup>Universidade Federal do Rio Grande do Sul

#### Session Y.OR2 (11:15 - 12:30) - Room D

- 11:15 Síntese Eletroquímica de Quantum Dots** Y.OR2.4\*  
Marcelo Navarro<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 11:45 Evaluation of mechanical properties and moxifloxacin release in latex membrane for dermal applications** Y.OR2.5  
Bruna Cambraia Garms<sup>1</sup>, Marco Andrey Cipriani Frade<sup>2</sup>, Felipe Azevedo Borges<sup>1</sup>, Natan Roberto de Barros<sup>1</sup>, Rondinelli Donizetti Herculano<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química, Araraquara, SP, <sup>2</sup>Universidade de São Paulo, Faculdade de Medicina de Ribeirão Preto, Ribeirão Preto, SP, <sup>3</sup>Universidade Estadual Paulista, Faculdade de Ciências Farmacêuticas, Araraquara, SP
- 12:00 Fluorescent Bioprobes for Nanomedicine: A "Bright" Future Ahead** Y.OR2.6  
Alexandra A Piscitelli Mansur<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 12:15 Morphologic characterization and properties of a nanocomposite matrix of polyvinylpyrrolidone and sodium bentonite for potential use as matrix for hydrophilic drug controlled release** Y.OR2.7  
Dario Barreto Reino de Almeida<sup>1</sup>, Maria Inês Bruno Tavares<sup>1</sup>, Gisele Cristina Valle Iulianelli<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro

#### Session Y.OR3 (14:00 - 15:15) - Room D

- 14:00 Electrospun Functionalized Polycaprolactone Nanofibers Scaffold for Skin Regeneration** Y.OR3.8  
Carlos Alberto Martinez Perez
- 14:15 Evaluation of cell viability of PHBV/TiO<sub>2</sub> nanocomposites used as scaffolds in tissue engineering** Y.OR3.9  
Natália Ferreira Braga<sup>1</sup>, Wagner Ramos<sup>1</sup>, Daniela Formaggio<sup>1</sup>, Tatiane Moraes Arantes<sup>2</sup>, Dayane Batista Tada<sup>1</sup>, Fernando Henrique Cristovan<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Instituto Federal Goiano, campus Rio Verde
- 14:30 Degradation of microstructured PCL/PLGA films exposed to saline solutions** Y.OR3.10  
Giovanna Ramos Garcez<sup>1</sup>, Nara Regina de Souza Basso<sup>1</sup>, Ricardo Meurer Papaléo<sup>1</sup>, Cristhiane Alvim Valente<sup>1</sup>, Arthur Faé da Silva Felippi<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul
- 14:45 Immunosensor for detection p17-1 (HIV) based Surface-Enhanced Raman Spectroscopy (SERS)** Y.OR3.11  
Leandro Carneiro<sup>1,2</sup>, Alexandre Guimarães Brolo<sup>1</sup>, Sidney J.L. Ribeiro<sup>2</sup>; <sup>1</sup>University of Victoria British Columbia, <sup>2</sup>Instituto de Química - UNESP
- 15:00 Synergic effect of the carbon nanotube and polypyrrole in an electrochemical immunosensor of cardiac myocardial infarction** Y.OR3.12  
Cybelle Emanuele da Silva<sup>1</sup>, Bárbara Virgínia Mendonça Silva<sup>1</sup>, Blanca Rodríguez<sup>1</sup>, Erika Ketlem Gomes Trindade<sup>1</sup>, Diego Guerra de Albuquerque Cabral<sup>1</sup>, Rosa Dutra<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco

## Poster presentations

### Session Y.P1 (17:00 - 19:00)

- 17:00 Swelling behaviour and active compound delivery of PVA-propolis and PVA-NaCMC-propolis membranes for wound healing** **Y.P1.1**  
renata nunes oliveira<sup>1</sup>, Thayse Marques Passos<sup>1</sup>, Brid Quilty<sup>1</sup>, Rossana Mara da Silva Moreira Thiré<sup>2</sup>, Garrett Brian McGuinness<sup>1</sup>; <sup>1</sup>Dublin City University, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 17:00 Desmopressin sustained release by natural rubber latex membranes** **Y.P1.2**  
Natan Roberto de Barros<sup>1</sup>, Matheus Carlos Romeiro Miranda<sup>1</sup>, Felipe Azevedo Borges<sup>1</sup>, Eduardo Maffud Cilli<sup>1</sup>, Rondinelli Donizetti Herculano<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 17:00 Development of PLGA nanoparticles encapsulating lipophilic sunscreen dispersed into polymer gel containing hydrophilic sunscreen** **Y.P1.3**  
Fiammetta Nigro<sup>1</sup>, Cristal Cerqueira-Coutinho<sup>1</sup>, Vania Emerich Bucco de Campos<sup>1</sup>, Eduardo Ricci Júnior<sup>1</sup>, Elisabete Pereira dos Santos<sup>1</sup>, Claudia Regina Elias Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Drug delivery systems: Obtention and characterization of Polycaprolactone nanosystems produced by nanoprecipitation method** **Y.P1.4**  
Marina Rodrigues Tavares<sup>1</sup>, Lívia Rodrigues Menezes<sup>1</sup>, Diego de Holanda Saboya Souza<sup>1</sup>, Maria Inês Bruno Tavares<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro
- 17:00 Changes of optical properties of dental nano-filled adhesive** **Y.P1.5**  
Lívia Rodrigues Menezes<sup>1</sup>, Emerson Oliveira da Silva<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro
- 17:00 pH tuned Fe<sub>3</sub>O<sub>4</sub> nanoparticle dispersion in PVA/ Guar Gum / Electrospun Membranes** **Y.P1.6**  
Adriana Freire Lubambo<sup>1</sup>, Lucy Ono<sup>1</sup>, Valderes Drago<sup>2</sup>, Ney Mattoso<sup>1</sup>, José . Varalda<sup>1</sup>, Maria- Rita Sierakowski<sup>1</sup>, Caroline Novak Sakakibara<sup>1</sup>, Rilton Alves de Freitas<sup>1</sup>, Cyro Ketzer Saul<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Synthesis, Characterization and Incorporation of silver/silica nanocomposite in silicone-acrylate blends using facial prosthesis** **Y.P1.7**  
Fabiano Costa Sá<sup>1,2</sup>, Eliane Cristina Viana Revoredo<sup>3</sup>, André Galembeck<sup>4,5</sup>, Débora Carvalho Dos Anjos<sup>2</sup>, Isamara Ferreira da Silva<sup>1</sup>, Mateus Matiuzzi da Costa<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>2</sup>IF Sertão Pernambucano/Campus Petrolina, <sup>3</sup>Hospital de Câncer de Pernambuco, <sup>4</sup>Universidade Federal de Pernambuco, <sup>5</sup>Centro de Tecnologias Estratégicas do Nordeste,
- 17:00 L-Lysine and DL-Histidine/iron oxide - based magnetic fluids for DNA adsorption** **Y.P1.8**  
Breiner Gabriel Canedo Silva<sup>1</sup>, Zulmira Guerrero Marques Lacava<sup>2</sup>, Márcio José Poças Fonseca<sup>2</sup>, Patrícia Pommé Confessori Sartoratto<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás, <sup>2</sup>Universidade de Brasília
- 17:00 ZnO Nanoparticles Incorporated in a Thermoplastic Matrix for Biomedical Applications** **Y.P1.9**  
Paulo Noronha Lisboa-Filho<sup>1</sup>, Yendry Corrales Urena<sup>1</sup>, Maria Cristina Rosifini Alves Rezende<sup>1</sup>, Klaus Rischka<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>Fraunhofer Institute for Manufacturing Technology and Advanced Materials
- 17:00 Influence of different fillers on the properties of an experimental polyvinylsiloxane for dental application** **Y.P1.10**  
Ricardo Marques e Silva<sup>1</sup>, Débora Könzgen Meincke<sup>1</sup>, Aline de Oliveira Ogliari<sup>1</sup>, Fabrício Ogliari<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 17:00 Production of Poly (butylene adipate-co-terephthalate)/Polypyrrole nanofibers for neural tissue engineering** **Y.P1.11**  
 Andre Felipe Coutinho Ribeiro<sup>1</sup>, Bruno Vinícius Manzolli Rodrigues<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>, Daniel Aparecido Vital<sup>2</sup>, Fernando Henrique Cristovan<sup>2</sup>, Anderson Oliveira Lobo<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Universidade Federal de São Paulo
- 17:00 Dextran-coated maghemite nanoparticles: Attachment of Rhodamine B and fluorescence characteristics** **Y.P1.12**  
 Chelry Fernanda Alves de Jesus<sup>1</sup>, Kely Lopes Caiado<sup>2</sup>, Tatiana Duque Martins<sup>1</sup>, Patrícia Pommé Confessori Sartoratto<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás, <sup>2</sup>Instituto Federal de Goiás
- 17:00 Nanohydroxyapatite/superhydrophilic carbon nanotubes/ poly (D,L-lactic acid) composites as scaffolds to bone tissue engineering** **Y.P1.13**  
 Idalia A.W.B. Siqueira<sup>1</sup>, Marcus A.F. Corat<sup>2</sup>, Bruno N Cavalcanti<sup>3</sup>, Wilson Alves Ribeiro Neto<sup>4</sup>, Rosario Elida Suman Bretas<sup>4</sup>, Fernanda Roberta Marciano<sup>1</sup>, Anderson Oliveira Lobo<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>University of Michigan, <sup>4</sup>Universidade Federal de São Carlos





- 17:00 In vitro evaluation of flexible chitosan/bioactive glass composite foams crosslinked with adipic acid for tissue engineering scaffolds** **Y.P1.14**  
Talita Martins<sup>1</sup>, Ana Celeste Ximenes Oliveira<sup>1</sup>, Agda Aline Rocha de Oliveira, Ezequiel de Souza Costa Júnior<sup>2</sup>, Marivalda Magalhães Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Centro Federal de Educação Tecnológica de Minas Gerais
- 17:00 Magnetic Nanospheres: A Study of the Maghemite/Silica System** **Y.P1.15**  
Kely Lopes Caiado<sup>1</sup>, Anderson Costa da Silva<sup>2</sup>, Andris Figueiroa Bakuzis<sup>2</sup>, Patrícia Pommé Confessori Sartoratto<sup>3</sup>; <sup>1</sup>Instituto Federal de Goiás, <sup>2</sup>Universidade Federal de Goiás, <sup>3</sup>Universidade Federal de Goiás - Instituto de Química
- 17:00 Electrospinning Polycaprolactone Dissolved in Glacial Acetic Acid: comparison of fibers produced by changing the concentration of PCL, voltage and injection speed** **Y.P1.16**  
Cynthia Casagrande Matos<sup>1</sup>, Marivalda Magalhães Pereira<sup>1</sup>, Rodrigo Lambert Oréfica<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Salicylic Acid entrapped in bovine serum albumin nanoparticles** **Y.P1.17**  
Erika Soares Bronze-Uhle<sup>1</sup>, Bianca Julioli Carvalho<sup>2</sup>, Valdecir Farias Ximenes<sup>2</sup>, Paulo Noronha Lisboa-Filho<sup>2</sup>; <sup>1</sup>UNESP - Univ Estadual Paulista, POSMAT - Programa de Pós-Graduação em Ciência e Tecnologia de Materiais, Bauru, SP, Brazil, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, Brasil
- 17:00 Influence of reaction time on the synthesis of mPEG-g-chitosan** **Y.P1.18**  
William Marcondes Facchinatto<sup>1</sup>, Danilo Martins dos Santos<sup>1</sup>, Anderson Fiamingo<sup>1</sup>, Sérgio Paulo Campana Filho<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos - USP
- 17:00 "Effect of paromomycin on the states of water in poly (vinyl alcohol) nanocomposite hydrogels"** **Y.P1.19**  
Vanessa Bezerra da Silva<sup>1</sup>, Caio M. Paranhos<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Chitosan Hydrogel Associated With Nerolidol For Healing Wounds Skin And Its Antibacterial Activity** **Y.P1.20**  
Layara Lorrana Ribeiro Leite<sup>1</sup>, MARIA ONAIRA GONÇALVES FERREIRA<sup>1</sup>, Idglan Sá de Lima<sup>1</sup>, Alan Ícaro Sousa Morais<sup>1</sup>, Josy Antevéli Osajima<sup>1</sup>, Humberto Medeiros Barreto<sup>1</sup>, Edson Cavalcanti da Silva Filho<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí
- 17:00 Validation of analytical methodology to quantify ethyl butylacetylaminopropionate vehiculated in a poloxamer-based formulation: an in vitro permeation approach** **Y.P1.21**  
Cristal Cerqueira-Coutinho<sup>1</sup>, Isadora Cabral Pinto<sup>1</sup>, Elisabete Pereira dos Santos<sup>1</sup>, Flávia Almada do Carmo<sup>1</sup>, Eduardo Ricci Júnior<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro
- 17:00 Production of a porous natural rubber latex biomembrane** **Y.P1.22**  
Felipe Azevedo Borges<sup>1</sup>, Natan Roberto de Barros<sup>1</sup>, Matheus Carlos Romeiro Miranda<sup>1</sup>, Bruna Cambraia Garms<sup>1</sup>, Mônica Yonashiro Marcelino<sup>2</sup>, Karina Alves de Toledo<sup>3</sup>, Rondinelli Donizetti Herculano<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Faculdade de Ciências Farmacêuticas - UNESP Araraquara, <sup>3</sup>Faculdade de Ciências e Letras - UNESP Assis
- 17:00 Analysis of Nanotoxicity of zns Quantum Dot Chitosan Bioconjugates for B cell Lymphoma Diagnosis** **Y.P1.23**  
Sandhra Maria Carvalho<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Zelia I.P. Lobato<sup>1</sup>, Maria de Fátima Leite<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Scopolamine transdermal patches using natural rubber latex biomembranes to treat swallowing** **Y.P1.24**  
Natan Roberto de Barros<sup>1</sup>, Ana Maria Queirós Norberto<sup>2</sup>, Matheus Carlos Romeiro Miranda<sup>1</sup>, Felipe Azevedo Borges<sup>1</sup>, Mônica Yonashiro Marcelino<sup>3</sup>, Bruna Cambraia Garms<sup>4</sup>, Rondinelli Donizetti Herculano<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>2</sup>Faculdade de Medicina de Ribeirão Preto, <sup>3</sup>Faculdade de Ciências Farmacêuticas - UNESP Araraquara, <sup>4</sup>Instituto de Química - UNESP Araraquara
- 17:00 Physicochemical characterizations of BCP matrix doped with TiO<sub>2</sub> for use in sunscreens** **Y.P1.25**  
Danielle Marra de Freitas Silva Azevedo<sup>1</sup>, Sidney Nicodemos da Silva<sup>1</sup>, Vitor Hugo Oliveira<sup>1</sup>, Vinícius Mateus Borges<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais
- 17:00 Mechanochemical synthesis, characterization and study of the thermal behavior of the co-crystal norfloxacin with riboflavin.** **Y.P1.26**  
Laura Teófilo Ferreira<sup>1</sup>, Gilbert Bannach<sup>1</sup>, Flávio Junior Caires<sup>1</sup>, Glauco Lini Perpétuo<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP
- 17:00 Encapsulation of Heparin in PHBV-based microspheres by double emulsion-solvent evaporation technique** **Y.P1.27**  
Rodolfo Minto de Moraes<sup>1</sup>, Gizelda Maria Alves<sup>1</sup>, Simone de Fátima Medeiros<sup>1</sup>, Amilton Martins dos Santos<sup>1</sup>, Alexandre Monnier<sup>2</sup>, Hatem Fessi<sup>2</sup>, Nida Sheibat-Othman<sup>2</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>2</sup>University Claude-Bernard Lyon 1

## Tuesday, September 29th

### Oral presentations

\* Invited Lecture

#### Session Y.OR4 (09:45 - 10:45) - Room D

- 09:45 Tailoring of cellulosic aerogels for cell scaffolding applications** **Y.OR4.13\***  
Falk Wolfgang Lieber<sup>1</sup>, Nicole Pircher<sup>1</sup>, Christian Schimper<sup>1</sup>, Manfred Maitz<sup>2</sup>, Carsten Werner<sup>2</sup>, Christine Strauss<sup>1</sup>, Cornelia Kasper<sup>1</sup>, Leticia Carbajal-Galan<sup>3</sup>, Jean-Marie Nedelec<sup>3</sup>, Thomas Rosenau<sup>1</sup>; <sup>1</sup>Universität für Bodenkultur Wien, <sup>2</sup>Leibniz Institute for Polymer Research Dresden, <sup>3</sup>École Nationale Supérieure de Chimie de Clermont-Ferrand
- 10:15 Hybrid iron oxide/calcium phosphate nanoparticles for magnetic delivery of short interfering RNA against key genes for proliferation of cancer cells** **Y.OR4.14**  
 Tatiane Cristofolini<sup>1</sup>, Milene Dalmina<sup>1</sup>, Jelver Alexander Sierra Restrepo<sup>1</sup>, Frederico Pittella<sup>2</sup>, André Avelino Pasa<sup>1</sup>, Tânia Beatriz Creczynski Pasa<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Universidade Federal de Juiz de Fora
- 10:30 Graphene oxide selectively targets cancer stem cells across multiple tumor types: Implications for cancer therapy** **Y.OR4.15**  
ARAVIND VIJAYARAGHAVAN<sup>1</sup>, Maria Iliut<sup>1</sup>; <sup>1</sup>University of Manchester

#### Session Y.OR5 (11:15 - 12:30) - Room D

- 11:15 A label-free electrochemical immunosensor for hepatitis B (anti-HBc) based on hyaluronic acid-carbon nanotubes hybrid film** **Y.OR5.16**  
Diego Guerra de Albuquerque Cabral<sup>1</sup>, Cybelle Emanuele da Silva<sup>1</sup>, Erika Ketlem Gomes Trindade<sup>1</sup>, Erika Cristina de Lima Soares<sup>1</sup>, Blanca Rodríguez<sup>1</sup>, Rosa Fireman Dutra<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 11:30 Cytotoxicity and anti-inflammatory potential of calcium alginate** **Y.OR5.17**  
 Rodrigo Silveira Vieira<sup>1</sup>, Luana Dias Lima<sup>1</sup>, Clayton Souza Campelo<sup>1</sup>, George Alves do Nascimento<sup>1</sup>, Luzia Kalyne Leal<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 12:00 Chitosan and its Derivatives Modified with Nanoceramics.** **Y.OR5.18\***  
Luciano Pighinelli<sup>1</sup>, Dariusz Wawro<sup>2</sup>; <sup>1</sup>Universidade Luterana do Brasil, <sup>2</sup>Institute of Biopolymers and Chemical Fibres

#### Session Y.OR6 (14:00 - 15:15) - Room D

- 14:00 Comparison of drug delivery in dynamic and static prototypes using natural rubber latex as matrix** **Y.OR6.19**  
 Camila Bottega<sup>1</sup>, Ricardo Soares dos Santos<sup>1</sup>, Natan Roberto de Barros<sup>2</sup>, Matheus Carlos Romeiro Miranda<sup>2</sup>, Bruna Cambraia Garms<sup>2</sup>, Felipe Azevedo Borges<sup>3,2</sup>, Mônica Yonashiro Marcelino, Rondinelli Donizetti Herculano<sup>4</sup>; <sup>1</sup>Faculdade de Ciências e Letras - UNESP Assis, <sup>2</sup>Instituto de Química - UNESP Araraquara, <sup>3</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara, <sup>4</sup>Faculdade de Ciências Farmacêuticas - Unesp Araraquara

### Poster presentations

#### Session Y.P2 (17:00 - 19:00)

- 17:00 Chitosan Hydrogel Combined With Chlorhexidine For Injury Healing Skin And Its Antibacterial Activity** **Y.P2.28**  
Alan Ícaro Sousa Morais<sup>1</sup>, MARIA ONAIRA GONÇALVES FERREIRA<sup>1</sup>, Layara Lorrana Ribeiro Leite<sup>1</sup>, Idglan Sá de Lima<sup>1</sup>, Lívio Cesar Cunha Nunes<sup>1</sup>, Josy Antevelli Osajima<sup>1</sup>, Edson Cavalcanti da Silva Filho<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí
- 17:00 pH-responsive alginate-based hydrogel for bevacizumab delivery system: rheological study** **Y.P2.29**  
Natália Noronha Ferreira<sup>1</sup>, Leonardo Miziara Barboza Ferreira<sup>1</sup>, Maria Palmira Daflon Gremião<sup>1</sup>; <sup>1</sup>Faculdade de Ciências Farmacêuticas - Unesp Araraquara
- 17:00 Thermosensitive hydrogel based on Chitosan, Gelatin and Bioactive Glass nanoparticles as a potential injectable matrix for biomedical applications** **Y.P2.30**  
Cheisy Daiana Freitas Moreira<sup>1</sup>, Marivalda Magalhães Pereira<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

- 17:00 Controlled release of zidovudine provided by electrospun fibers of Eudragit L100** **Y.P2.31**  
Fábia Fernandes Pinheiro da Costa<sup>1</sup>, Helinando Pequeno de Oliveira<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco
- 17:00 Preparation and characterization of dextran- coated magnetite dispersions** **Y.P2.32**  
Anna Flávia Dias Zafred<sup>1</sup>, Chelery Fernanda Alves de Jesus<sup>1</sup>, Kely Lopes Caiado<sup>2</sup>, Patrícia Pommé Confessori Sartoratto<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás - Instituto de Química, <sup>2</sup>Instituto Federal de Goiás
- 17:00 Study of tetracycline hydrochloride release kinetics in controlling drug release devices of an alginate hydrogel base** **Y.P2.33**  
Monica Huguenin de Araujo Faria<sup>1</sup>, Davi R Encarnação<sup>1</sup>, Celso Aparecido Bertran<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Mechanical and morphological characterization of a composite biomaterial of hydroxyapatite (HAp) with vegetable polymer** **Y.P2.34**  
Thamasia Fernanda Evangelista<sup>1</sup>, JOÃO PAULO CARVALHO<sup>1</sup>, Poliana Pereira Ferreira<sup>1</sup>, Ricardo Santana Lima<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco
- 17:00 Hydrophilic profile of experimental vinylpolysiloxanes with different surfactants for dental application** **Y.P2.35**  
Natália Hadler Marins<sup>1</sup>, Aline de Oliveira Ogliari<sup>1</sup>, Fabrício Ogliari<sup>1</sup>, Rafael Ratto Moraes<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 17:00 Thermosensitive hydrogels of poly(N-isopropylacrylamide): electrosynthesis and characterization.** **Y.P2.36**  
Charlene Aparecida Ribeiro<sup>1</sup>, Raphael Felca Glória<sup>1</sup>, Maria Elena Leyva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) - TiO<sub>2</sub> nanocomposites processed by solvent casting and electrospinning** **Y.P2.37**  
Natália Ferreira Braga<sup>1</sup>, Fernando Henrique Cristovan<sup>1</sup>, Tatiane Moraes Arantes<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Instituto Federal Goiano, campus Rio Verde
- 17:00 Metal-organic frameworks based on cyclodextrin and iron** **Y.P2.38**  
 Marina Paiva Abuçafy<sup>1</sup>, Aline Sayuri Mori<sup>2</sup>, Bruno Leonardo Caetano<sup>3</sup>, Leila Aparecida Chiavacci<sup>2</sup>; <sup>1</sup>UNIVERSIDADE ESTADUAL PAULISTA "JúLIO DE MESQUITA FILHO", <sup>2</sup>Faculdade de Ciências Farmacêuticas, <sup>3</sup>Instituto de Química de Araraquara
- 17:00 Development of conductive bacterial cellulose membranes modified by the incorporation of poly(aniline)** **Y.P2.39**  
Paula Cristina Faria-Tischer<sup>1</sup>, Isadora Tozetti<sup>2</sup>, Luiz Henrique Dall'Antonia<sup>2</sup>, Marcio Vidotti<sup>3</sup>; <sup>1</sup>Universidade Federal de Paraná, <sup>2</sup>Universidade Estadual de Londrina, <sup>3</sup>Universidade Federal do Paraná
- 17:00 Synthesis and characterization of polyanhydride derivative of castor oil** **Y.P2.40**  
 Fernando Matos Borges<sup>1</sup>, Fernando Silva Reis<sup>1</sup>, Alexandre Araujo de Souza<sup>1</sup>, José Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí
- 17:00 PPO-Si hybrid nanocomposites used as drug delivery system for propranolol HCl: correlation between the prolonged release and the structural changes of the system.** **Y.P2.41**  
Ranielle oliveira silva<sup>1</sup>, Sandra Helena Pulcinelli<sup>1</sup>, Karim DAHMOUCHE<sup>2</sup>, Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Instituto de Química - UNESP, <sup>2</sup>Universidade Federal do Rio de Janeiro
- 17:00 Influence Of Polypyrrole Nanofibers In The Process Of Chitosan Membranes Degradation** **Y.P2.42**  
 Lucas Weber Dias<sup>1</sup>, Giovanna Ramos Garcez<sup>1</sup>, Cristhiane Alvim Valente<sup>1</sup>, Nara Regina de Souza Basso<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul
- 17:00 Strontium adsorption and desorption on bacterial cellulose/hydroxyapatite matrixes for osseointegration** **Y.P2.43**  
ERIKA PATRICIA CHAGAS GOMES<sup>1</sup>, Rodrigo Silveira Vieira<sup>1</sup>, Maria de Fátima Borges<sup>2</sup>, Morsyleide de Freitas Rosa<sup>2</sup>; <sup>1</sup>Universidade Federal do Ceará, <sup>2</sup>Embrapa Agroindústria Tropical
- 17:00 Synthesis and characterization of nanocompounds based on rare earth orthoferrites and iron oxides for biomedical applications** **Y.P2.44**  
André Felipe Oliveira<sup>1</sup>, Luis Eugenio Fernandez-Outon<sup>2</sup>, Edésia Martins Barros de Sousa<sup>1</sup>, José Domingos Ardisson<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Universidade Federal de Minas Gerais
- 17:00 Mechanical properties of bioadhesive thermoresponsive systems containing poloxamer 407 and polycarbophil lizziane maria belloto de francisco** **Y.P2.45**  
lizziane maria belloto de francisco<sup>1</sup>, Sabrina Barbosa Ferreira<sup>1</sup>, Marcos Luciano Bruschi<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá

- 17:00 Preparation and Characterization of Films PAni / PVS and PAni / PVS / ZnO Nanoparticles: potential application as biochemical sensor** **Y.P2.46**  
Fernanda Luíza de Sousa<sup>1</sup>, Gislayne Elisana Gonçalves<sup>2</sup>, Rodrigo Fernando Bianchi<sup>3</sup>, Elisângela Silva Pinto<sup>2</sup>, Suzane Ferreira Pinto<sup>2</sup>; <sup>1</sup>Instituto Federal Minas Gerais - campus Ouro Preto, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais, <sup>3</sup>Universidade Federal de Ouro Preto
- 17:00 Blood protein adsorption on sulfated chitosan films** **Y.P2.47**  
Anaftália Felismino Moraes<sup>1</sup>, Rodrigo Silveira Vieira<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará

## Wednesday, September 30th

### Poster presentations

#### Session Y.P3 (17:00 - 19:00)

- 17:00 Electrosynthesis and characterization of poly (2-hydroxyethyl methacrylate) and polyaniline electroactive hydrogels** Y.P3.48  
 Maria Elena Leyva<sup>1</sup>, Maria Fernanda Xavier Pinto Medeiros<sup>1</sup>, Liliam Becheran<sup>2</sup>, Raphael Felca Glória<sup>1</sup>, Alvaro Antonio Alencar de Queiroz<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Universidade de Havana
- 17:00 Fabrication of Non-Enzymatic Optical Glucose Sensors based on Boronic Acid Derivatives** Y.P3.49  
Danielle Bruen<sup>1</sup>, Larisa Elena Florea<sup>1</sup>, Dermot Diamond<sup>1</sup>; <sup>1</sup>Dublin City University
- 17:00 Polysaccharide ligands: effects on the properties of calcium phosphate-based bionanocomposites** Y.P3.50  
Vitor César Dumont<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Bionanocomposites of chitosan and carboxymethyl chitosan with calcium phosphate particles for biomedical applications: swelling and cytocompatibility evaluation** Y.P3.51  
Vitor César Dumont<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Nanoemulsions of ketoconazole stabilized by polymeric surfactant** Y.P3.52  
Vania Emerich Bucco de Campos<sup>1</sup>, Cristal Cerqueira-Coutinho<sup>1</sup>, Francielle Neves de Carvalho Capella<sup>2</sup>, Natalia Runze de Moura<sup>2</sup>, Bruna Santuzzi Tebaldi<sup>1</sup>, Carla Holandino<sup>2</sup>, Claudia Regina Elias Mansur<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro, <sup>2</sup>Faculdade de Farmácia, Universidade Federal do Rio de Janeiro
- 17:00 Nanodevice Associated with Antidiabetic Drug for Alzheimer's Disease Therapy** Y.P3.53  
 Geisa Nogueira Salles<sup>1</sup>, Fernanda Aparecida Santos Pereira<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>, Cristina Pacheco-Soares<sup>1</sup>, Anderson de Oliveira Lobo<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Mechanical morphological and water interaction characterization of gelatin films crosslinked with UV** Y.P3.54  
Mara G N Quadri<sup>1</sup>, Rafael Kenji Nishihora<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Evaluation of electrospun gelatin nanofibers cross-linked with cellulose nanocrystals oxidized** Y.P3.55  
Mara G N Quadri<sup>1</sup>, Maria Julia das Chagas<sup>1</sup>, Eduardo Niehues<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Hinokinin – loaded into PLGA nanoparticles** Y.P3.56  
Regiane Godoy Lima<sup>1</sup>, Marcia Regina de Moura<sup>1</sup>, Rosangela Silva Laurentiz<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira/ UNESP
- 17:00 The incorporation of poly(N-vinylcaprolactam-co-itaconic acid)-based hydrogels in chitosan matrices by spray-drying for controlled release systems** Y.P3.57  
Jéssica de Matos Fonseca<sup>1</sup>, Simone de Fátima Medeiros<sup>1</sup>, Sérgio Paulo Campana Filho<sup>2</sup>, Amilton Martins Santos<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo, <sup>2</sup>Instituto de Química de São Carlos - USP
- 17:00 Synthesis of thermo-responsive microparticles using poly(N-vinylcaprolactam)-b-poly(ethylene glycol) block copolymers by the spray dryer technique** Y.P3.58  
 Bruno de Castro Souza<sup>1</sup>, Jéssica de Matos Fonseca<sup>1</sup>, Simone de Fátima Medeiros<sup>1</sup>, Amilton Martins Santos<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 Thermal and spectroscopic characterization of mucilage films from *Cereus hildmannianus* plasticized with glycerol** Y.P3.59  
 Mayra Stéphanie Pascoal Damas<sup>1</sup>, Valdir Aniceto Pereira Junior<sup>1</sup>, Rafael Kenji Nishihora<sup>1</sup>, Mara G N Quadri<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Synthesis of a novel xanthate for the RAFT/MADIX polymerization of N-vinylcaprolactam** Y.P3.60  
Rodolfo Minto de Moraes<sup>1</sup>, Simone de Fátima Medeiros<sup>1</sup>, Gizelda Maria Alves<sup>1</sup>, Amilton Martins dos Santos<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo

- 17:00 Magnetic and stimuli-responsive poly(N-vinylcaprolactam-co-itaconic acid)-based hydrogels for controlled release of active ingredients** **Y.P3.61**  
Simone de Fátima Medeiros<sup>1</sup>, João Otávio Caffareza Fillizzola<sup>1</sup>, Paulo Filho Marques Oliveira<sup>1</sup>, Taline Marciano Silva<sup>1</sup>, Gizelda Maria Alves<sup>1</sup>, Amilton Martins Santos<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 Electrospun nanoscaffolds based on PLA and nanodiamond for tissue engineering applications** **Y.P3.62**  
 Fernanda Aparecida Santos Pereira<sup>1</sup>, Geisa Nogueira Salles<sup>1</sup>, Bruno Vinícius Manzolli Rodrigues<sup>1</sup>, Maíra Maftoum Costa<sup>1</sup>, Fernanda Roberta Marciano<sup>1</sup>, Cristina Pacheco-Soares, Anderson de Oliveira Lobo<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Synthesis of thermoresponsive and biocompatible poly( $\epsilon$ -caprolactone)-b-(N-vinylcaprolactam) (PCL-b-PNVCL)-based nanoparticles** **Y.P3.63**  
Simone de Fátima Medeiros<sup>1</sup>, Grazielle Aparecida Aguiar<sup>1</sup>, Gizelda Maria Alves<sup>1</sup>, Amilton Martins Santos<sup>1</sup>; <sup>1</sup>Escola de Engenharia de Lorena da Universidade de São Paulo
- 17:00 Analysis of the pro-inflammatory response of macrophages grown in substrate containing carbon nanotubes multi-wall (MWCNTs)** **Y.P3.64**  
 Mirian Michelle Machado<sup>1</sup>, Marcus Alexandre Finzi Corat<sup>2</sup>, Evaldo José Corat<sup>3</sup>, Fernanda Roberta Marciano<sup>1</sup>, Anderson Oliveira Lobo<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Universidade Estadual de Campinas, <sup>3</sup>Instituto Nacional de Pesquisas Espaciais
- 17:00 PAMAM dendrimer functionalized TiO<sub>2</sub> nanotubes as novel versatile platform for drug delivery** **Y.P3.65**  
Joel Alderete<sup>1</sup>, Cecilia Carolina Torres<sup>1</sup>, Cristian Hugo Campos<sup>1</sup>, Carola Fernanda Díaz<sup>1</sup>, Felipe Andres Vidal<sup>1</sup>, Jose Leonardo Guzman<sup>1</sup>; <sup>1</sup>Universidad de Concepción
- 17:00 Pegylated PAMAM dendrimer nanocarriers for the inclusion and delivery of curcumin, silymarin and methotrexate drugs.** **Y.P3.66**  
Carola Fernanda Díaz<sup>1</sup>, Joel Alderete<sup>1</sup>, Verónica Jiménez<sup>2</sup>, Jose Leonardo Guzman<sup>1</sup>; <sup>1</sup>Universidad de Concepción, <sup>2</sup>Universidad Andrés Bello
- 17:00 Aluminium metal-organic frameworks (MIL-100 and MIL-53) as effective drug-carrier system for 5-fluoruracil, ganciclovir and gemcitabine** **Y.P3.67**  
Cristian Hugo Campos Figueroa<sup>1</sup>, Cecilia Carolina Torres<sup>1</sup>, Joel Alderete<sup>1</sup>, Felipe Andres Vidal<sup>1</sup>, Jose Leonardo Guzman<sup>1</sup>; <sup>1</sup>Universidad de Concepción
- 17:00 Development of dental adhesive with addition niobium nanostructured** **Y.P3.68**  
Natália Hadler Marins<sup>1</sup>, Ricardo Marques e Silva<sup>1</sup>, Aline de Oliveira Oglhari<sup>1</sup>, Vinicius Gonçalves Deon<sup>1</sup>, Bruno Silveira NoreMBERG<sup>1</sup>, Fabricio Oglhari<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas
- 17:00 Iron Oxide@SiO<sub>2</sub> Nanoparticles Tagged with a ESIPT Fluorescent Compound** **Y.P3.69**  
Elisa Magno Nunes Oliveira<sup>1</sup>, Priscila de Araújo Caimi<sup>1</sup>, Maximiliano Santos Rocha<sup>1</sup>, Felipe Lange Coelho<sup>2</sup>, Leandra Franciscato Campo<sup>2</sup>, Mara Lize Zanini<sup>1</sup>, Ricardo Meurer Papaléo<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio Grande do Sul, <sup>2</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Relaxivity of dextran-coated iron oxide nanoparticles in magnetic resonance medical equipments of 1.5 T and 3.0 T** **Y.P3.70** **Y**  
 Maximiliano Santos Rocha<sup>1</sup>, Elisa Magno Nunes Oliveira<sup>1</sup>, Priscila de Araújo Caimi<sup>1</sup>, Mara Lize Zanini<sup>1</sup>, Nara Regina de Souza Basso<sup>1</sup>, Ricardo Meurer Papaléo<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio Grande do Sul
- 17:00 Evaluation of mechanical properties in natural rubber latex membrane loaded with polylysine for medical purpose** **Y.P3.71**  
Bruna Cambraia Garms<sup>1</sup>, Felipe Azevedo Borges<sup>1</sup>, Mônica Yonashiro Marcelino<sup>2</sup>, Rondinelli Donizetti Herculano<sup>2</sup>, João Tadeu Ribeiro-Paes<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista, Instituto de Química, Araraquara, SP, <sup>2</sup>Universidade Estadual Paulista, Faculdade de Ciências Farmacêuticas, Araraquara, SP, <sup>3</sup>Universidade Estadual Paulista, Faculdade de Ciências e Letras, Assis, SP
- 17:00 Intracellular targeting of PLGA Nanoparticles** **Y.P3.72**  
Patrícia Harume Fukuda Cursino<sup>1</sup>, Denise C Arruda<sup>1</sup>, Luiz Rodolpho Raja Gabaglia Travassos<sup>1</sup>, Dayane Batista Tada<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo
- 17:00 Antimicrobial polyaniline silver nanocomposite: preparation and characterization** **Y.P3.73**  
Gisela M. Rosas Helou<sup>1</sup>, Livia C. dos Passos Araujo<sup>1</sup>, Maria Elena Leyva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá
- 17:00 Microparticles of chitosan-based polyelectrolyte as potential drug delivery systems** **Y.P3.74**  
Alexandre Flauzino Junior<sup>1</sup>, Liliam Becheran<sup>2</sup>, Maria Elena Leyva<sup>1</sup>, Raphael Felca Glória<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Universidad de la Habana

- 17:00 Chitosan/Honey hybrid films for regenerative medicine** Y.P3.75  
Rafaela Melo<sup>1</sup>, Thiago Fideles<sup>1</sup>, MARCUS VINÍCIUS LIA FOOK<sup>1</sup>; <sup>1</sup>Universidade Federal de Campina Grande
- 17:00 Structural characterization of poly (vinyl alcohol)/chitosan blends** Y.P3.76  
Bárbara Fernanda F. dos Santos<sup>1</sup>, Jéssica Raquel M. B. da Silva<sup>1</sup>, Itamara Farias Leite<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Evaluation of the action of different plasma compositions on the surface roughness of fungal biofilm grown on polyurethane** Y.P3.77  
Anelise C.O.C. Doria<sup>1</sup>, Guilherme T.C. Redi<sup>1</sup>, Fernanda R. Figueira<sup>1</sup>, Polyana Alves Radi Gonçalves<sup>1</sup>, Camila P.C. Sorge<sup>1</sup>, Thaisa B. Santos<sup>1</sup>, Jhonatan Steffens Brandão<sup>1</sup>, Homero Santiago Maciel<sup>1</sup>, Sônia Khouri<sup>1</sup>, Rodrigo Sávio Pessoa<sup>1</sup>; <sup>1</sup>Universidade do Vale do Paraíba
- 17:00 Mucilage films from cladodes of c. hildmaniannus k. schum** Y.P3.78  
 Mayra Stéphanie Pascoal Damas<sup>1</sup>, Valdir Aniceto Pereira Junior<sup>1</sup>, IZA NATÁLIA QUEIROZ ARRUDA<sup>2</sup>, Mara G N Quadri<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Universidade Federal de Mato Grosso
- 17:00 Characterization of Polyaniline films with incorporation of TiO<sub>2</sub> nanoparticles at different pHs** Y.P3.79  
Taise Matte Manhabosco<sup>1</sup>, Valfrido Furtado Leite Filho<sup>1</sup>, Giovanna Machado<sup>2</sup>, Alan Barros Oliveira<sup>1</sup>, Ronaldo Junio Campos Batista<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste,
- 17:00 Cytotoxicity evaluation of composite formed of natural rubber / leather waste for textile applications** Y.P3.80  
Dalita G. S. M. Cavalcante<sup>1</sup>, Andressa Silva Gomes<sup>1</sup>, Elton Aparecido Prado Reis<sup>1</sup>, Caroline Silva Danna<sup>1</sup>, Leandra Ernst Kerche-Silva<sup>1</sup>, Aldo Eloizo Job<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente
- 17:00 A cardiac troponin T molecularly imprinted polymer based on electropolymerized pyrrole copolymers at graphene screen printed electrode** Y.P3.81  
 Bárbara Virgínia Mendonça Silva<sup>1</sup>, Cybele Emanuele da Silva<sup>1</sup>, Blanca Rodríguez<sup>1</sup>, Goreti Sales<sup>2</sup>, Maria Del Pilar Taboada Sotomayor<sup>3</sup>, Rosa Fireman Dutra<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Instituto Superior de Engenharia do Porto, <sup>3</sup>Universidade Estadual Paulista
- 17:00 Microparticles of Enteric Polymer/Magnetite: Influence of the Magnetic Field in Controlled-Release Nifedipine** Y.P3.82  
Paulo Henrique Oliveira Júnior<sup>1,2,3</sup>, Jorge Mauricio Silva Santos<sup>4</sup>, André Romão Terto<sup>2,3</sup>, Francisco da Silva Matias<sup>1,2</sup>, Jorge Adriano Alves Coelho<sup>2</sup>, Helinando Pequeno de Oliveira<sup>2</sup>; <sup>1</sup>Universidade do Estado da Bahia, <sup>2</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>3</sup>IF Sertão Pernambucano/Campus Petrolina, <sup>4</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 17:00 Bionanocomposites of chitosan/clay. Study of drug releasing through in-vitro tests** Y.P3.83  
Danielle Mendes Diniz<sup>1</sup>, Fabiana Pereira da Costa<sup>2</sup>, Emanuel Pereira do Nascimento<sup>2</sup>, Suédina Maria de Lima Silva<sup>2</sup>; <sup>1</sup>State University of Paraíba, <sup>2</sup>Universidade Federal de Campina Grande
- 17:00 Thermosensitive gemcitabine-magnetoliposomes for combined hyperthermia and chemotherapy** Y.P3.84  
Roberta Viana Ferreira<sup>1</sup>, Rosana Zacarias Domingues<sup>2</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais, <sup>2</sup>Universidade Federal de Minas Gerais
- 17:00 Analysis of incorporation and glycerol release on natural latex biomembrane for treatment of mammary injuries** Y.P3.85  
 Ricardo Soares dos Santos, Camila Bottega<sup>1</sup>, Natan Roberto de Barros<sup>2</sup>, Matheus Carlos Romeiro Miranda<sup>2</sup>, Bruna Cambraia Garmes<sup>2</sup>, Mônica Yonashiro Marcelino<sup>3</sup>, Felipe Azevedo Borges<sup>4</sup>, Rondinelli Donizetti Herculanó<sup>3</sup>; <sup>1</sup>Faculdade de Ciências e Letras - UNESP Assis, <sup>2</sup>Instituto de Química - UNESP Araraquara, <sup>3</sup>Faculdade de Ciências Farmacêuticas - Unesp Araraquara, <sup>4</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Effects of cellulose nanocrystals and Organophilic silica on the properties of Bio-based nanostructured materials** Y.P3.86  
Fernanda Abbate dos Santos<sup>1</sup>, Maria Inês Bruno Tavares<sup>1</sup>; <sup>1</sup>Institute of Macromolecules, IMA/UFRJ
- 17:00 Effect of the degree of polymerization for the CMC on the synthesis of hybrid spheres** Y.P3.87  
 Monickarla Teixeira Pegado da Silva<sup>1</sup>, Sibebe Berenice Castellã Pergher<sup>1</sup>, Tiago Pinheiro Braga<sup>1</sup>, ADANNY FILIPE NOUGUEIRA MARTINS<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Universidade Federal do Ceará
- 17:00 Immunosensor based graphene with polysulfone for detection of rheumatoid arthritis** Y.P3.88  
 Auvani Da Silva Jr<sup>1</sup>, Blanca Azucena Gómez Rodríguez<sup>1</sup>, Janire peña bahamonde<sup>2</sup>, Viviana González Velázquez<sup>2</sup>, Rosa Fireman Dutra<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidad Carlos III de Madrid
- 17:00 Biocompatibility assessment of the scaffold of PBAT/nHAp for bone regeneration** Y.P3.89  
Gabriela Fátima Santana-Melo<sup>1</sup>, Aline dos Santos Silva<sup>2</sup>, Fernanda Roberta Marciano<sup>2</sup>, Luana Marotta reis de Vasconcellos<sup>1</sup>, Anderson Oliveira Lobo<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, Instituto de Ciência e Tecnologia, <sup>2</sup>Universidade do Vale do Paraíba

- 17:00 Release assessment and sensitivity tests of fluconazol incorporated into natural rubber latex membrane** **Y.P3.90**  
Mônica Yonashiro Marcelino<sup>1</sup>, Nathan Vinícius Ribeiro<sup>1</sup>, Ana Flávia Martins Costa<sup>1</sup>, Junya de Lacorte Singulani<sup>1</sup>, Felipe Azevedo Borges<sup>2</sup>, Wanessa de Cássia Martins Antunes Melo<sup>1</sup>, Maria José Soares Mendes-Giannini<sup>1</sup>, Ana Marisa Fusco-Almeida<sup>1</sup>, Rondinelli Donizetti Herculano<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Faculdade de Ciências Farmacêuticas, Araraquara, SP, <sup>2</sup>Universidade Estadual Paulista, Instituto de Química de Araraquara
- 17:00 Controlled release cisplatin using micro ball chitosan/PVA as vehicle** **Y.P3.91**  
Juliana Bié Ferreira de Souza, HERMES SOUZA COSTA, Ezequiel de Souza Costa Júnior
- 17:00 Development and biological studies of drug delivery systems of anticancer drugs using biodegradable polymers and magnetic materials** **Y.P3.92**  
Alinne Damasia Martins Gomes<sup>1</sup>, Sávio Morato Gontijo<sup>1</sup>, Celso Tarso Viana<sup>1</sup>, Silvia Passos Andrade<sup>1</sup>, Paula Peixoto Campos<sup>1</sup>, Maria Esperanza Cortés<sup>1</sup>, Rubén Dario Sinisterra<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 In vitro cytotoxicity of polymeric webs of poly (lactic acid) and incorporated titanium dioxide nanoparticles** **Y.P3.93**  
Karen Cristine Higa<sup>1</sup>, Teresa Cristina de Oliveira Marsi<sup>2</sup>, Tatiane Venturott Toniato<sup>2</sup>, Aline dos Santos Silva<sup>2</sup>, Sigmar de Mello Rode<sup>3</sup>, Olga Zazuco Higa<sup>4</sup>, Fernando José Costa Baratéla<sup>4</sup>, Luana Marotta reis de Vasconcellos<sup>3</sup>, Fernanda Roberta Marciano<sup>2</sup>, Anderson Oliveira Lobo<sup>2</sup>; <sup>1</sup>Universidade Estadual de Sao Paulo, <sup>2</sup>Universidade do Vale do Paraíba, <sup>3</sup>Universidade do Estado de Sao Paulo, <sup>4</sup>Nuclear and Energy Research Institute
- 17:00 Development of DNA biosensor for the detection of Hepatitis C virus using the carboxylated multiwalled carbon nanotubes** **Y.P3.94**  
Amanda Oliveira<sup>1</sup>, Diego Guerra de Albuquerque Cabral<sup>1</sup>, Cybelle Emanuele da Silva<sup>1</sup>, Erika Ketlem Gomes Trindade<sup>1</sup>, Blanca Rodríguez<sup>1</sup>, Rosa Fireman Dutra<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Characterization of the properties of solid dispersions of nifedipine and Eudragit® L100** **Y.P3.95**  
Aline Silva Guimarães<sup>1</sup>, Nathália Andreza Carvalho Souza<sup>1</sup>, Pedro José Rolim-Neto José Rolim-Neto<sup>1</sup>, Larissa Araújo Rolim<sup>1</sup>, Luciano Augusto Araújo Ribeiro<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco
- 17:00 Characterization of polystyrene membranes with collagen and norbixin.** **Y.P3.96**  
Antonio Luiz Martins Maia Filho<sup>1</sup>, Wcleubianne Matias Nascimento<sup>2</sup>, Deuzuita dos Santos Oliveira<sup>3</sup>, Vicente Galber Freitas Viana<sup>4</sup>, Vicente Galber Freitas Viana Junior<sup>4</sup>, Rayssilane Cardoso de Sousa<sup>4</sup>, ROBERTO ARRUDA LIMA SOARES<sup>4</sup>, Charllyton Luis Sena da Costa<sup>5</sup>; <sup>1</sup>Universidade Estadual do Piauí, <sup>2</sup>Faculdade Integral Diferencial, <sup>3</sup>Universidade Estadual do Maranhão, <sup>4</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>5</sup>Faculdade Santo Agostinho
- 17:00 Porous and dense chitosan membranes as antibacterial agents** **Y.P3.97**  
Larissa Guedes Fiúza<sup>1</sup>, Suzana Cláudia Silveira Martins<sup>1</sup>, Claudia Miranda Martins<sup>1</sup>, Rodrigo Silveira Vieira<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará
- 17:00 Synthesis of AuNP@MOF Nanocomposite for Biomedical Applications** **Y.P3.98**  
CECÍLIA SANTOS SILVA<sup>1</sup>, Raquel Milani<sup>1</sup>, Gilvaldo Gentil da Silva<sup>1</sup>, Severino Alves Júnior<sup>1</sup>, Jorge Luiz Neves<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Increased solubility of nifedipine in solid dispersions with Eudragit® L100** **Y.P3.99**  
Aline Silva Guimarães<sup>1</sup>, Nathália Andreza Carvalho Souza<sup>1</sup>, Pedro José Rolim-Neto José Rolim-Neto<sup>2</sup>, Larissa Araújo Rolim<sup>1</sup>, Luciano Augusto Araújo Ribeiro<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>2</sup>Universidade Federal de Pernambuco
- 17:00 Colloidal PbS quantum dots for use in biomedical applications** **Y.P3.100**  
Rafael Lobato Mansur<sup>1</sup>, Alexandra A Piscitelli Mansur<sup>1</sup>, Sandhra Maria Carvalho<sup>1</sup>, Herman Sander Mansur<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais
- 17:00 Diffraction X-ray and Morphological analysis of Polymeric Microparticles containing Budesonide** **Y.P3.101**  
Marcela Brito Oliveira<sup>1</sup>, Raphaela Regina de Araujo Pereira<sup>2</sup>, Marcos Luciano Bruschi<sup>1</sup>, Maria Palmira Daflon Gremião<sup>3</sup>, Rita Cortesi<sup>4</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Faculdade de Ciências Farmacêuticas - Unesp Araraquara, <sup>3</sup>Faculdade de Ciências Farmacêuticas - UNESP Araraquara, <sup>4</sup>University of Ferrara
- 17:00 HPMC phthalate Microparticles for the treatment of Inflammatory Bowel Disease: a preformulatory study** **Y.P3.102**  
Raphaela Regina de Araujo Pereira<sup>1</sup>, Marcos Luciano Bruschi<sup>2</sup>, Rita Cortesi<sup>3</sup>, Maria Palmira Daflon Gremião<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Câmpus de Araraquara, <sup>2</sup>Universidade Estadual de Maringá, <sup>3</sup>Università degli Studi di Ferrara
- 17:00 Infrared and Thermal Analysis of Polymeric Mucoadhesive Microparticles containing Budesonide** **Y.P3.103**  
Raphaela Regina de Araujo Pereira<sup>1</sup>, Marcos Luciano Bruschi<sup>2</sup>, Rita Cortesi<sup>3</sup>, Maria Palmira Daflon Gremião<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Câmpus de Araraquara, <sup>2</sup>Universidade Estadual de Maringá, <sup>3</sup>Università degli Studi di Ferrara



- 17:00 Thermal and spectroscopic characterization of porous matrix of chitosan with rutin** **Y.P3.104**  
IZA NATÁLIA QUEIROZ ARRUDA<sup>1</sup>, Valdir Aniceto Pereira Junior<sup>2</sup>, Ricardo Stefani<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>Universidade Federal de Santa Catarina
- 17:00 Collagen – Konjac Glucomannan Hydrogels for Biomedical Applications** **Y.P3.105**  
Giovana Maria Genevro<sup>1</sup>, Mariana Agostini de Moraes<sup>2</sup>, Sébastien Meghezi<sup>3</sup>, Marisa Masumi Beppu<sup>1</sup>, Diego Mantovani<sup>3</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal de São Paulo, <sup>3</sup>Université Laval



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session Z.OR1 (09:45 - 10:45) - Room 08

**09:45 Discovery of New Correlated Materials: Highlights of Current Research in the Correlated Electron Materials Group at the Oak Ridge National Laboratory** **Z.OR1.1\***  
Brian Craig Sales

**10:30 Emergent states of matter close to ferroelectric quantum phase transitions** **Z.OR1.2**  
Stephen Edward Rowley<sup>1</sup>; <sup>1</sup>University of Cambridge

#### Session Z.OR2 (11:15 - 12:30) - Room 08

**11:15 Electronic nematic phase in iron-based superconductors** **Z.OR2.3\***  
Pengcheng Dai<sup>1</sup>; <sup>1</sup>Rice University

**11:45 Magnetic and magnetocaloric properties of CaCu<sub>5</sub>-type DyCo<sub>4.55</sub>Si<sub>0.45</sub> compound** **Z.OR2.4**  
Satish Kumar Malik<sup>1</sup>, Alex Morozkin<sup>2</sup>, R Nirmala<sup>3</sup>, Sylvio Quezado<sup>1</sup>; <sup>1</sup>Federal University of Rio Grande do Norte, <sup>2</sup>Moscow State University, <sup>3</sup>Indian Institute of Technology Madras

**12:00 Hall Effect and Pseudogap in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-d</sub>** **Z.OR2.5**  
 Paula De Azambuja Sobocinski, Pedro Luis Grande, Paulo Pureur

**12:15 Improving the critical current density in MgB<sub>2</sub> superconductor bulks** **Z.OR2.6**  
Lucas Barboza Sarno Da Silva<sup>1</sup>, Durval Rodrigues Jr.<sup>1</sup>, Eric E. Hellstrom<sup>2</sup>; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo, <sup>2</sup>Applied Superconducting Center - Florida State University

#### Session Z.OR3 (14:00 - 15:15) - Room 08

**14:00 Critical current enhancement and guidance of flux avalanches in microstructured superconducting films** **Z.OR3.7\***  
Wilson Aires Ortiz<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos

**14:30 Superconductivity in Nb-doped superconductivity due to polar optical phonons** **Z.OR3.8**  
Carsten Enderlein<sup>1,2</sup>, Stephen Edward Rowley<sup>1,2</sup>, Magda Bittencourt Fontes<sup>2</sup>, Jaime F de Oliveira<sup>3</sup>, Elisa Baggio Saitovitch<sup>2</sup>, Siddharth Shankar Saxena<sup>1</sup>, Gilbert G Lonzarich<sup>1</sup>; <sup>1</sup>University of Cambridge, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Universidade do Estado do Rio de Janeiro

**14:45 Unveiling the hybridization gap in Ce<sub>2</sub>RhIn<sub>8</sub> heavy fermion compound** **Z.OR3.9\***  
Cris Adriano<sup>1</sup>, Fanny Rodolakis<sup>2</sup>, Priscila Ferrari Silveira Rosa<sup>1</sup>, Kevin Raduenz Pakuszewski<sup>1</sup>, Fernando César Lussani<sup>1</sup>, Wendell Simões Silva<sup>3</sup>, Francisco Restrepo<sup>4</sup>, Mucio Amado Continentino<sup>5</sup>, Zachary Fisk<sup>6</sup>, Carlos Giles<sup>1</sup>, Juan Carlos Campuzano<sup>4</sup>, Pascoal G. Pagliuso<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Argonne National Laboratory, <sup>3</sup>Laboratório Nacional de Luz Síncrotron, <sup>4</sup>University of Illinois at Chicago, <sup>5</sup>Centro Brasileiro de Pesquisas Físicas, <sup>6</sup>University of California Irvine

### Poster presentations

#### Session Z.P1 (17:00 - 19:00)

**17:00 Synthesis and characterization of L-Valine hydrochlorobromide crystals** **Z.P1.1**  
Ricardo de Sousa Ferreira Junior<sup>1,2</sup>, Geanso Miranda de Moura<sup>2,3</sup>, ANDREIA CARDOSO PEREIRA<sup>2</sup>, Adenilson Oliveira dos Santos<sup>2</sup>, Paulo Roberto da Silva Ribeiro; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal do Maranhão, <sup>3</sup>Universidade Federal do Sul e Sudeste do Pará

**17:00 Ferromagnetism in URu<sub>2</sub>Ge<sub>2</sub> at ambient pressure** **Z.P1.2**  
Mylena Pinto Nascimento, Mucio Amado Continentino<sup>1</sup>, Elisa Baggio Saitovitch<sup>1</sup>, Jiri Pospisil<sup>2</sup>, Vladimir Sechovsky<sup>2</sup>, Magda Bittencourt Fontes<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Charles University in Prague

- 17:00 Growth and characterization of l-tyrosine hydrochloride crystals** **Z.P1.3**  
Carlos Alberto Andrade dos Santos<sup>1</sup>, Jhonatam de Oliveira Carvalho<sup>2,1</sup>, José Leal Rodrigues<sup>3,1</sup>, Geanso Miranda de Moura<sup>1,4</sup>, Larissa Helen de Lima Ribeiro<sup>1</sup>, Pedro de Freitas Façanha Filho<sup>1</sup>, Adenilson Oliveira dos Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Tocantins, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>4</sup>Universidade Federal do Sul e Sudeste do Pará
- 17:00 Magnetotransport on Ferromagnetic Thin Films in a Superconductor/Insulator/Ferromagnetic System** **Z.P1.4**  
Rovan Fernandes Lopes<sup>1</sup>, Paulo Pureur<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul
- 17:00 Characterization of l-methionine hydrochloride crystal** **Z.P1.5**  
José Leal Rodrigues<sup>1,2</sup>, Jhonatam de Oliveira Carvalho<sup>3,2</sup>, Carlos Alberto Andrade dos Santos<sup>2</sup>, Geanso Miranda de Moura<sup>2</sup>, Larissa Helen de Lima Ribeiro<sup>2</sup>, Pedro de Freitas Façanha Filho<sup>2</sup>, Adenilson Oliveira dos Santos<sup>2</sup>, Renato Inácio Matos<sup>1,2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal do Maranhão, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia do Tocantins
- 17:00 Structural, vibrational and thermal characterization of phase transition in L-histidine hydrobromide monohydrate crystals** **Z.P1.6**  
 Geanso Miranda de Moura<sup>1,2</sup>, Jhonatam de Oliveira Carvalho<sup>3</sup>, Pedro de Freitas Façanha Filho<sup>1</sup>, Adenilson Oliveira dos Santos<sup>1</sup>, Ricardo de Sousa Ferreira Junior<sup>4,1</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Universidade Federal do Sul e Sudeste do Pará, <sup>3</sup>Instituto Federal de Educação, Ciência e Tecnologia do Tocantins, <sup>4</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão
- 17:00 Polymorphic characterization at fatty acids by Raman and infrared spectroscopy** **Z.P1.7**  
Diana da Silva Luna<sup>1</sup>, Janykelly Gonçalves Moitinho<sup>1</sup>, Francisco Ferreira de Sousa<sup>1</sup>, Tarciso Silva de Andrade-Filho<sup>1</sup>, Gilberto Dantas Saraiva<sup>2</sup>, Paulo de Tarso Cavalcante Freire<sup>3</sup>, Josue Mendes Filho<sup>3</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará, <sup>2</sup>Universidade Estadual do Ceará, <sup>3</sup>Universidade Federal do Ceará
- 17:00 Conformational change in the C form of palmitic acid investigated by Raman spectroscopy and X-ray diffraction** **Z.P1.8**  
Jhuliana da Silva Santanna<sup>1</sup>, Kaliane Sousa da Silva<sup>1</sup>, Francisco Ferreira de Sousa<sup>1</sup>, Alan Silva de Menezes<sup>2</sup>, Gilberto Dantas Saraiva<sup>3</sup>, Paulo de Tarso Cavalcante Freire<sup>4</sup>, Josue Mendes Filho<sup>4</sup>; <sup>1</sup>Universidade Federal do Sul e Sudeste do Pará, <sup>2</sup>Universidade Federal do Maranhão, <sup>3</sup>Universidade Estadual do Ceará, <sup>4</sup>Universidade Federal do Ceará
- 17:00 Negative differential resistance behavior in Co<sub>2</sub>FeO<sub>2</sub>BO<sub>3</sub> and Fe<sub>3</sub>O<sub>2</sub>BO<sub>3</sub> single crystals.** **Z.P1.9**  
Lygia Walmsley<sup>1</sup>, Everton Carvalho dos Santos<sup>1</sup>, Daniele Cristina de Freitas<sup>2</sup>, Igor Fier<sup>3</sup>, João Carlos Fernandes<sup>4</sup>, Mucio Amado Continentino<sup>2</sup>, Adilson J A de Oliveira<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Rio Claro, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Universidade Federal de São Carlos, <sup>4</sup>Universidade Federal Fluminense
- 17:00 Synthesis and characterization of L-Isoleucine hydrochloride monohydrate crystals** **Z.P1.10**  
Ricardo de Sousa Ferreira Junior<sup>1,2</sup>, Geanso Miranda de Moura<sup>2</sup>, Andreia Cardoso Pereira<sup>2</sup>, Paulo Roberto da Silva Ribeiro<sup>2</sup>, Adenilson Oliveira dos Santos<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Maranhão, <sup>2</sup>Universidade Federal do Maranhão
- 17:00 Magnetic and crystallographic transitions in La(Fe<sub>x</sub>V<sub>1-x</sub>)O<sub>3</sub> perovskites** **Z.P1.11**  
LILIAN FELIPE TUPAN<sup>1</sup>, BACHIR Hallouche<sup>2</sup>, Luiz Ghivelder<sup>3</sup>, Flávio Francisco Ivashita<sup>1</sup>, Andrea Paesano Júnior<sup>1</sup>; <sup>1</sup>Universidade Estadual de Maringá, <sup>2</sup>Universidade de Santa Cruz do Sul, <sup>3</sup>Universidade Federal do Rio de Janeiro
- 17:00 Synthesis and characterization of In-flux grown SrFe<sub>2</sub>As<sub>2</sub> single crystals.** **Z.P1.12**  
Mario Moda Piva<sup>1</sup>, Matheus Radaelli<sup>1</sup>, Camilo Bruno Ramos de Jesus<sup>1</sup>, Guilherme Gorgen Lesseux<sup>1</sup>, Dina Tobia<sup>1</sup>, Cris Adriano<sup>1</sup>, Ricardo Rodrigues Urbano<sup>1</sup>, Pascoal G. Pagliuso<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 ESR as a potential probe to search for TI** **Z.P1.13**  
Jean Carlo Souza<sup>1</sup>, Guilherme Gorgen Lesseux<sup>1</sup>, Priscila Ferrari Silveira Rosa<sup>1</sup>, Camilo Bruno Ramos Jesus<sup>1</sup>, Ricardo Rodrigues Urbano<sup>1</sup>, Carlos Rettori<sup>1</sup>, Pascoal G. Pagliuso<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 17:00 Effect of the heat treatment in the SnO<sub>2</sub>/ZrO<sub>2</sub> solid solution** **Z.P1.14**  
Suelen Alves de Lima Silva<sup>1</sup>, Joao Jarllys Nobrega de Souza<sup>1</sup>, SEVERINO JACKSON GUEDES<sup>1</sup>, Ricardo Peixoto Suassuna Dutra<sup>1</sup>, Ary da Silva Maia<sup>1</sup>, Antônio Gouveia de Souza<sup>1</sup>, Danniely Melo Ribeiro<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Caloric effects in HoAl<sub>2</sub> single crystal** **Z.P1.15**  
Julieth Caro Patiño<sup>1</sup>, Nilson Antunes de Oliveira; <sup>1</sup>Universidade do Estado do Rio de Janeiro

- 17:00 Studying the 4f electrons in the Kondo lattice antiferromagnet Ce<sub>2</sub>RhIn<sub>8</sub>** **Z.P1.16**  
Kevin Raduenz Pakuszewski<sup>1</sup>, Wendell Simões Silva<sup>2</sup>, Carlos Giles<sup>1</sup>, Fanny Rodolakis<sup>3</sup>, Fernando César Lussani<sup>1</sup>, Juan Carlos Campuzano<sup>4</sup>, Pascoal G. Pagliuso<sup>1</sup>, Cris Adriano<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Laboratório Nacional de Luz Síncrotron, <sup>3</sup>Argonne National Laboratory, <sup>4</sup>University of Illinois at Chicago
- 17:00 Influence of the preparation method on structural and magnetic properties of cobalt chromite obtained by coprecipitation** **Z.P1.17**  
Mauro Ernesto Júnior<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 17:00 Structural and morphological characterization of mixed crystals of nickel and cobalt obtained by isothermal evaporation method** **Z.P1.18**  
Michelle Oliveira<sup>1</sup>, Carlos Joel Franco<sup>1</sup>, Genivaldo Júlio Perpétuo<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto



## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### Session AA.OR1 (09:45 - 10:45) - Room 05

- 09:45 Chemical bonding in simple and complex intermetallic compounds** AA.OR1.1\*  
Yuri Grin<sup>1</sup>; <sup>1</sup>Max-Planck-Institut für Chemische Physik fester Stoffe
- 10:15 Surface mechanical properties of Al-based quasicrystalline coatings** AA.OR1.2  
Bruno Alessandro Silva Guedes de Lima<sup>1,2</sup>, Rodinei Medeiros Gomes<sup>1</sup>, Severino Jackson Guedes Lima<sup>1</sup>, Jean-Marie Dubois<sup>2</sup>, richard KOUITAT-NJIWA<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Institut Jean Lamour
- 10:30 Structural, Thermal and Mechanical Characterization of Al-Co-Fe-Cr Alloys** AA.OR1.3  
Witor Wolf<sup>1</sup>, Robert Schulz<sup>2</sup>, Claudemiro Bolfarini<sup>1</sup>, Claudio S. Kiminami<sup>1</sup>, Walter José Botta<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Hydro-Quebec Research Institute

#### Session AA.OR2 (11:15 - 12:30) - Room 05

- 11:15 Nanocomposites Ti/B/TiO<sub>2</sub> by Mechanical Alloy Synthesis** AA.OR2.4  
Ana Lilia De Jesús Lázaro<sup>1</sup>, Jorge Morales Hernández<sup>1</sup>, Jose Manuel Juarez García<sup>2</sup>; <sup>1</sup>Centro de Investigación y Desarrollo Tecnológico en Electroquímica, <sup>2</sup>CENTRO NACIONAL DE METROLOGÍA
- 11:45 Evolution of the sintering process of NiTi by X ray diffraction** AA.OR2.5  
Marcus Nathan Silvestre<sup>1</sup>, Fernando Valerio Idalgo Leite<sup>1</sup>, Peterson Luiz Ferrandini<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho
- 12:15 Metal active gas welding of a high-strength low-carbon alloy (HSLA): study of the correlation between heat input and microstructure mechanical properties and corrosion behavior** AA.OR2.6  
Mainã Portella Garcia<sup>1</sup>, Gerson Luiz Mantovani<sup>1</sup>, Renato Altobelli Antunes<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC

#### Session AA.OR3 (14:00 - 15:15) - Room 05

- 14:00 Glass Forming Ability in the Cu-Zr-Al System and the Effect of Oxygen Content** AA.OR3.7\*  
 Francisco Gil Coury<sup>1</sup>, Michael J. Kaufman<sup>2</sup>, Claudemiro Bolfarini<sup>1</sup>, Claudio S. Kiminami<sup>1</sup>, Walter José Botta<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Colorado School of Mines
- 14:30 Comparative life cycle assessment of an aluminum alloy coated by two different process : anodization and plasma electrolytic oxidation** AA.OR3.8  
Bruno Fernando Gianelli<sup>1</sup>, Fábio de Oliveira Carvalho<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 14:45 Corrosion resistance of Al 1350 H19 alloy treated by PEO** AA.OR3.9  
Fábio de Oliveira Carvalho<sup>1</sup>, Bruno Fernando Gianelli<sup>1</sup>, Emmanuelle Sá Freitas Feitosa<sup>2</sup>, Pedro Roberto Goulart<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, <sup>2</sup>Universidade Estadual de Campinas
- 15:00 Correlation Among Thermal Parameters, Microstructure and Mechanical Behavior in Mg-Al-Ca-La Alloy** AA.OR3.10  
Sergio Luiz Telles Bartex<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

### Poster presentations

#### Session AA.P1 (17:00 - 19:00)

- 17:00 Structural and optical characterization of Sn-Se system semiconductor synthesized by solid state reaction** AA.P1.1  
Gleison Adriano da Silva<sup>1</sup>, Sérgio Michielon de Souza<sup>1</sup>, Daniela Menegon Trichês<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas
- 17:00 PRODUCTION AND CHARACTERIZATION OF QUASICRYSTALLINE ALLOYS AlCuFe (Mn) OBTAINED BY MELT-SPINNING** AA.P1.2  
Maria Aline Martins Gonzaga<sup>1</sup>, Tibério Andrade dos Passos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

- 17:00 Bonded Shape Memory Alloy Attenuators Elements** AA.P1.3  
Natalia Rolim Menezes<sup>1</sup>, Pedro M. C. L. Pacheco<sup>1</sup>, Ricardo Alexandre Amar de Aguiar<sup>1</sup>, Silvio de Barros<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica Celso Suckow da Fonseca
- 17:00 Development of a cobalt catalyst supported used in soybean oil cracking** AA.P1.4  
Fernanda Cândido França<sup>1</sup>, Claudinei Rezende Calado<sup>1</sup>, Carla Regina Ferreira<sup>1</sup>, Amanda De Assis Alves Loures<sup>1</sup>; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais
- 17:00 Effect Of Mechanical Alloying On Sintering Process Mo-Cu<sub>20%</sub> and Mo-Cu<sub>50%</sub>** AA.P1.5  
 Ronyclei Raimundo da Silva<sup>1</sup>, Franciné Alves Costa<sup>1</sup>, Uílame Umbelino Gomes<sup>1</sup>, Rodolfo Albuquerque Buarque Assunção<sup>1</sup>, Rafael Alexandre Raimundo<sup>1</sup>, Ana Maria Pinto<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Universidade do Minho, Dept. Eng. Mecânica, Azurém, 4800?058 Guimarães, Portugal
- 17:00 The influence of alloying and the sintering in sintered conductivity of Nb-15% Cu** AA.P1.6  
HÉRIK DANTAS LIMA<sup>1</sup>, Uílame Umbelino Gomes<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte
- 17:00 Effect of addition of boron in the alloy AlCuFe obtained by High Energy Grinding** AA.P1.7  
Bruno Alessandro Silva Guedes de Lima<sup>1</sup>, Thayza Pacheco dos Santos Barros<sup>1</sup>, DANIELLE GUEDES CAVALCANTE<sup>1</sup>, Severino Jackson Guedes Lima<sup>1</sup>, Rafael Evaristo Caluête<sup>1</sup>, Rodinei Medeiros Gomes<sup>1</sup>; <sup>1</sup>Universidade federal da Paraíba
- 17:00 Magnetocaloric properties of the DyCuGe compound** AA.P1.8  
Mayanny Gomes da Silva<sup>1</sup>, Luzeli Moreira da Silva<sup>1</sup>, Adenilson Oliveira dos Santos<sup>1</sup>, Adelino de Aguiar Coelho<sup>2</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Universidade Estadual de Campinas
- 17:00 MAGNETIC PROPERTIES AND MAGNETOCALORIC EFFECT OF TbMn<sub>2</sub>Si<sub>2</sub> COMPOUND** AA.P1.9  
Delcicleide Costa dos Reis<sup>1</sup>, Emanuel Laurertan Tavares França<sup>1</sup>, Adenilson Oliveira dos Santos<sup>1</sup>, Adelino de Aguiar Coelho<sup>2</sup>, Luzeli Moreira da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Maranhão, <sup>2</sup>Universidade Estadual de Campinas
- 17:00 Synthesis of Ultra-High Molecular Weight Polyethylene by Trimetallic Catalyst** AA.P1.10  
 ISABELA CUSTÓDIO MOTA<sup>1</sup>, Maria de Fátima Vieira Marques<sup>1</sup>, Isabela Custódio Mota<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro
- 17:00 Synthesis of new polymeric cerium (IV) metal-organic frameworks** AA.P1.11  
Jader Silva Barbosa<sup>1</sup>, Juliana Fonseca de Lima<sup>2</sup>, Osvaldo Antonio Serra<sup>1</sup>; <sup>1</sup>Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto-USP, <sup>2</sup>Universidade do Estado do Rio de Janeiro
- 17:00 Production of amorphous Ni-Nb-Sn parts by arc-melting and copper mold cooling with low purity Sn** AA.P1.12  
Pedro Renato Tavares Avila<sup>1</sup>, Marcelo Falcão de Oliveira<sup>1</sup>; <sup>1</sup>Universidade de São Paulo
- 17:00 Synthesis of Polystyrene and Polyindene with Different Coordination Catalyst** AA.P1.13  
 ISABELA CUSTÓDIO MOTA<sup>1</sup>, Guilherme Lopes da Cruz Santos<sup>2</sup>, Maria de Fátima Vieira Marques<sup>1</sup>; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano - Universidade Federal do Rio de Janeiro, <sup>2</sup>Professora Eloisa Mano Institute of Macromolecules, IMA/UFRJ
- 17:00 Steel oxidation behavior study of stainless AISI 439 ferritic in high temperatures atmosphere air synthetic** AA.P1.14  
 Giscard Eanes Dias Viana<sup>1,2</sup>, JOÃO ALBERTO SANTOS PORTO<sup>1,2</sup>, Maria Fatima Salgado<sup>1,2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>2</sup>Universidade Estadual do Maranhão
- 17:00 Ultra-microhardness study the composite Epoxy / QC** AA.P1.15  
Thayza Pacheco dos Santos Barros<sup>1</sup>, DANIELLE GUEDES CAVALCANTE<sup>1</sup>, Dannel Ferreira de Oliveira<sup>1</sup>, Severino Jackson Guedes Lima<sup>1</sup>, Rafael Evaristo Caluête<sup>1</sup>, Rebecca Malzac Pontes<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Quasicrystals AlCuFe obtaining by melt spinning** AA.P1.16  
 Francisco Riccelly Feitosa<sup>1</sup>, DANIELLE GUEDES CAVALCANTE<sup>1</sup>, Eudes Leonnan Medeiros<sup>1</sup>, SEVERINO JACKSON GUEDES<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Indirect assessment of the surface energy of the Al-Cu-Fe quasicrystals** AA.P1.17  
DANIELLE GUEDES CAVALCANTE<sup>1</sup>, Tibério Andrade dos Passos<sup>1</sup>, Severino Jackson Guedes Lima<sup>1</sup>, Rodinei Medeiros Gomes<sup>1</sup>, Marie Cécile Weerd<sup>2</sup>, Jean-Marie Dubois<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Institut Jean Lamour







## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session BB.OR1 (09:45 - 10:45) - Room 11

- 09:45 Discover an MRS Community of Science Education & Outreach** **BB.OR1.1\***  
Richard Allen Souza<sup>1</sup>; <sup>1</sup>Materials Research Society
- 10:15 In Situ Microscopy for Understanding How Rechargeable Batteries Work** **BB.OR1.2\***  
Reza Shahbazian-Yassar<sup>1</sup>; <sup>1</sup>University of Illinois Chicago
- 10:30 ENGFUT: The Engineer of the Future** **BB.OR1.3\***  
Valquiria Villas-Boas<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul

#### Session BB.OR2 (11:15 - 12:30) - Room 11

- 11:15 How to participate in the "Global Materials Network for Young Researchers"** **BB.OR2.4\***  
Robert P.H. Chang<sup>1</sup>; <sup>1</sup>Materials Science and Engineering Department, Northwestern University
- 11:45 Physics of Materials in Brazil: Brief history, challenges and perspectives** **BB.OR2.5\***  
Sergio Machado Rezende<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco
- 12:15 Prospect and perspectives of the evaluation area Materiais-CAPES** **BB.OR2.6\***  
Carlos F. O. Graeff<sup>1</sup>; <sup>1</sup>Faculdade de Ciências, UNESP-Bauru

#### Session BB.OR3 (14:00 - 15:15) - Room 11

- 14:00 Strategies for an effective scientific writing in English** **BB.OR3.7\***  
Oswaldo Novais Oliveira Jr<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos/Universidade de São Paulo
- 14:30 "Ethics and integrity in research and scientific publications"** **BB.OR3.8\***  
Solange Cadore<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas
- 15:00 Integrating Education-Society-Technology through a cooperative course: GRADMAT - Materials Engineering at UFSC, Brazil** **BB.OR3.9**  
Daphiny Pottmaier<sup>1</sup>, Paulo Bodnar<sup>1</sup>, Berend Snoeijer<sup>1</sup>, Idone Bringhenti<sup>2</sup>, Orestes Alarcon<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Fundação Universidade Federal de Rondônia

### Poster presentations

#### Session BB.P1 (17:00 - 19:00)

- 17:00 Study of Thermal Behavior of Natural Rubber Nanofibers** **BB.P1.1**  
Guilherme Dognani<sup>1</sup>, Angela Priscila Pelegrini Bolach<sup>1</sup>, Jessyka Carolina Bittencourt<sup>1</sup>, Flávio Camargo Cabrera<sup>1</sup>, Renivaldo José dos Santos<sup>2,1</sup>, Aldo Eloizo Job<sup>1</sup>, Deuber Lincon da Silva Agostini<sup>1</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente, <sup>2</sup>Universidade do Oeste Paulista
- 17:00 University Chapters Pará** **BB.P1.2**  
Luiz Fernando Lobato Silva<sup>1</sup>, Gabriela Viana Araujo<sup>1</sup>, Alvaro Cesar Santos Oliveira<sup>1</sup>, Newton Martins Barbosa Neto<sup>1</sup>; <sup>1</sup>Universidade Federal do Pará
- 17:00 Antimicrobial Bentonite: Characterization and analysis of the Application potential as aqueous fluid for Oil Wells drilling** **BB.P1.3**  
Camila Machado de Oliveira<sup>1</sup>, Raquel Piletti<sup>2</sup>, Michael Peterson<sup>1</sup>, Glaucea Warmeling Duarte<sup>2</sup>, Márcio Antônio Fiori<sup>3</sup>, Jair Fiori Junior<sup>2</sup>; <sup>1</sup>Universidade do Extremo Sul Catarinense, <sup>2</sup>Universidade Federal de Santa Catarina, <sup>3</sup>Universidade Comunitária da Região de Chapecó

- 17:00 University Chapter Biomaterials** **BB.P1.4**  
Bruna Carolina Costa<sup>1,2</sup>, Diego Rafael Nespeque Correa<sup>3</sup>, Larisa Baldo Arruda<sup>1,2</sup>, Rubens Chinali Canarim<sup>4</sup>, <sup>1</sup>UNESP - Univ Estadual Paulista, POSMAT - Programa de Pós-Graduação em Ciência e Tecnologia de Materiais, Bauru, SP, Brazil, <sup>2</sup>Laboratório de Materiais Avançados e Nanotecnologia - FC/UNESP, <sup>3</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>4</sup>Programa de Pós Graduação em Engenharia Mecânica
- 17:00 University chapter rio grande do sul** **BB.P1.5**  
 Caren Machado Menezes<sup>1</sup>, Carla Daniela Boeira<sup>1</sup>, Leonardo Mathias Leidens<sup>1</sup>, Bruna Louise Perotti<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul
- 17:00 University Chapter NanoMaterials** **BB.P1.6**  
Tiago Carneiro Gomes<sup>1</sup>, Jessyka Carolina Bittencourt<sup>1</sup>, Gabriel Mamoru Marques Shinohara<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista, Campus de Presidente Prudente
- 17:00 LLuMeS Research Group: Light and Materials Design Approaches to Optical Devices Application** **BB.P1.7**  
Ana Maria Pires<sup>1</sup>, Sergio Antonio Marques Lima<sup>1</sup>; <sup>1</sup>FCT-UNESP Campus de Presidente Prudente
- 17:00 UC Ilha Solteira** **BB.P1.8**  
Lincon Zadorosny<sup>1</sup>, Gisele A Souza<sup>1</sup>, Regiane Godoy Lima<sup>1</sup>; <sup>1</sup>Faculdade de Engenharia de Ilha Solteira- Universidade Estadual Paulista
- 17:00 Development of conductive nanofibers by electrospinning technique for application in electronic devices and sensors** **BB.P1.9**  
 Bruno Henrique Santana Gois<sup>1</sup>, André Antunes da Silva<sup>1</sup>, Carlos Eduardo Campos Lanzi<sup>1</sup>, Jessyka Carolina Bittencourt<sup>1</sup>, Guilherme Dognani<sup>2</sup>, Deuber Lincon da Silva Agostini<sup>1</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente, <sup>2</sup>FCT-UNESP Campus de Presidente Prudente
- 17:00 Universty Chapter of Ouro Preto (UChOP)** **BB.P1.10**  
 Samuel Leonardo Sales<sup>1</sup>, Marcella Rocha Franco<sup>1</sup>, Alana Fernandes Golin<sup>1</sup>, Carlos Eduardo Tavares de Magalhães<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto
- 17:00 Study of structural properties of membranes pva/pani production nanofibers by electrospinning** **BB.P1.11**  
Jessyka Carolina Bittencourt<sup>1</sup>, Guilherme Dognani<sup>2</sup>, Bruno Henrique Santana Gois<sup>3</sup>, Sabrina Aléssio Camacho<sup>1</sup>, Carlos José Leopoldo Constantino<sup>3</sup>, Deuber Lincon da Silva Agostini<sup>3</sup>, Clarissa de Almeida Olivati<sup>3</sup>; <sup>1</sup>FCT - Faculdade de Ciências e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP, <sup>2</sup>FCT-UNESP Campus de Presidente Prudente, <sup>3</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente
- 17:00 Computational Simulation of Laser Welding for an Unmanned Aerial Vehicle (UAV) Manufacture** **BB.P1.12**  
Bruno Nazário Coelho<sup>1</sup>, Milton Sergio Fernandes de Lima<sup>2</sup>, Adilson Rodrigues Costa<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto, <sup>2</sup>Instituto de Estudos Avançados
- 17:00 University chapter Piauí-UNICHAPI** **BB.P1.13**  
Layane Rodrigues Almeida<sup>1</sup>, Mayky Carvalho Oliveira<sup>1</sup>, Dicleyson Pereira Rocha<sup>1</sup>, Leandro Miranda Santos<sup>1</sup>; <sup>1</sup>Federal University of Piauí
- 17:00 University Chapter Juiz de Fora** **BB.P1.14**  
EVERTON LUIZ MARTINS DA PAIXÃO<sup>1</sup>, Alessandro Henrique de Lima<sup>1</sup>, Jefferson da Silva Martins<sup>1</sup>; <sup>1</sup>Universidade Federal de Juiz de Fora
- 17:00 Researches for developing organic devices and sensors in Presidente Prudente – SP** **BB.P1.15**  
Aline Santos<sup>1</sup>, Tiago Carneiro Gomes<sup>2</sup>, Marcelo Marques da Silva<sup>2</sup>, Gabriel Leonardo Nogueira<sup>2</sup>, Natália Virag Domenici<sup>2</sup>, Maiza da Silva Ozório<sup>2</sup>, Maykel Santos Klem<sup>2</sup>, Douglas Henrique Vieira<sup>1</sup>, Rogério Miranda Moraes<sup>2</sup>, Neri Alves<sup>2</sup>; <sup>1</sup>Faculdade de Ciências e Tecnologia - UNESP - Campus de Presidente Prudente, <sup>2</sup>FCT - Faculdade de Ciências e Tecnologia, Programa de Pós-Graduação em Ciência dos Materiais (POSMAT), Campus de Presidente Prudente - SP
- 17:00 University Chapter Biomaterials** **BB.P1.16**  
Bruna Carolina Costa<sup>1</sup>, Diego Rafael Nespeque Correa<sup>2</sup>, Larisa Baldo Arruda<sup>3</sup>, Rubens Chinali Canarim<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", Bauru, SP, <sup>2</sup>Laboratório de Anelasticidade e Biomateriais, UNESP - Universidade Estadual Paulista, Bauru, SP, Brazil, <sup>3</sup>Universidade Estadual Paulista Júlio de Mesquita Filho





## Wednesday, September 30th

### Poster presentations

#### Session WS1.P1 (17:00 - 19:00)

- 17:00 Micrometric Vitreous Carbon structures obtained by UV laser irradiation** **WS1.P1.1**  
Alexandre Aumiller<sup>1,2</sup>, Fábio Dondeo<sup>2</sup>, Nicolau André Silveira Rodrigues<sup>2</sup>; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Instituto de Estudos Avançados
- 17:00 Photoactivate Release of Silver Nanoparticles in Cell Membrane Models for Bacterial Control** **WS1.P1.2**  
Camilo Arturo Suarez Ballesteros, Thiers Uehara<sup>1</sup>, Paulo Barbeitas Miranda<sup>1</sup>, Daniel Souza Corrêa<sup>2</sup>, Valtencir Zucolotto<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos/Universidade de São Paulo, <sup>2</sup>Embrapa Instrumentação Agropecuária - São Carlos
- 17:00 Production of polymeric nanoparticles by nanoprecipitation using microfluidic systems** **WS1.P1.3**  
Bianca Oliveira Agio<sup>1</sup>, Houari Cobas-Gomez<sup>2</sup>, Natália Neto Pereira Cerize<sup>1</sup>, André Rocha Monteiro Dias<sup>1</sup>, Adriano Marim Oliveira<sup>1</sup>, Antonio Carlos Seabra<sup>2</sup>, Mário Ricardo Góngora Rubio<sup>1</sup>; <sup>1</sup>Instituto de Pesquisas Tecnológicas do Estado de São Paulo, <sup>2</sup>Universidade de São Paulo
- 17:00 Synthesis and structural/morphological properties of nanostructured Zn and Sn sulfate** **WS1.P1.4**  
César Augusto Díaz Pomar<sup>1</sup>, José Antonio Souza<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC
- 17:00 Tungsten Glass Ceramics as Solid Electrolytes** **WS1.P1.5**  
João Fernando Villarrubia Lopes Munhoz<sup>1,2</sup>, Ana Cândida Martins Rodrigues<sup>3</sup>, Sílvia Helena Santagneli<sup>2</sup>, MARCELO NALIN<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Instituto de Química - UNESP, <sup>3</sup>Universidade Federal de São Carlos - Campus: São Carlos
- 17:00 Effect of incorporating stabilizing additives in a thermochromic coating used for temperature monitoring** **WS1.P1.6**  
Aline Vieira De Souza<sup>1</sup>, Isaura Zanini Mergen<sup>1</sup>, Ricardo Antônio Francisco Machado, Jonatan Lincoln Oliveira Buske<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 Cerium oxide fibers produced by Solution Blow Spinning: processing, microstructure and in vitro antimicrobial activity** **WS1.P1.7**  
Eudes Leonnan Medeiros<sup>1</sup>, Vinicius Dias Silva<sup>1</sup>, Roberta Ferreti Bonan<sup>2</sup>, Meyson Cassio Nascimento<sup>1</sup>, Daniel Araujo de Macedo<sup>1</sup>, Eliton Souto Medeiros<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de Pernambuco
- 17:00 Synthesis of spiropyran mechanophore functionalized for applications in polymeric materials as a mechanochromic sensor** **WS1.P1.8**  
Isaura Zanini Mergen<sup>1</sup>, Alexandra Valério<sup>1</sup>, Jonatan Lincoln Oliveira Buske<sup>1</sup>, Vanderlei Gageiro Machado<sup>1</sup>, Ricardo Antônio Francisco Machado<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina
- 17:00 A simple visible light photo-assisted method for assembling and curing multilayer GO thin films.** **WS1.P1.9**  
Mauro Francisco Pinheiro da Silva<sup>1</sup>, Débora Rose de Oliveira<sup>2</sup>, Marco Roberto Cavallari<sup>3</sup>, Ely Antonio Tadeu Dirani<sup>4</sup>, Eduardo Rezende Triboni<sup>5</sup>, Leonardo Giordano Paterno<sup>6</sup>, Fernando Josepatti Fonseca<sup>7</sup>, Guilherme Frederico Bernardo Lenz e Silva<sup>8</sup>, Maurício da Silva Baptista<sup>9</sup>, Richard Landers<sup>10</sup>, Mário José Politi<sup>5</sup>, Paulo Celso Isolani<sup>5</sup>; <sup>1</sup>Faculdades Oswaldo Cruz, <sup>2</sup>Instituto de Criminalística-SSSP, <sup>3</sup>Escola politécnica, <sup>4</sup>Pontifícia Universidade Católica de São Paulo, <sup>5</sup>Universidade de São Paulo, <sup>6</sup>Universidade de Brasília, <sup>7</sup>Escola Politécnica da Universidade de São Paulo, <sup>8</sup>Escola Politécnica da Universidade de São Paulo, <sup>9</sup>Instituto de Química da Universidade de São Paulo, <sup>10</sup>Universidade Estadual de Campinas
- 17:00 Production of O/W emulsion employing microfluidic systems** **WS1.P1.10**  
Bianca Oliveira Agio<sup>1</sup>, Houari Cobas-Gomez<sup>2</sup>, Liz Katherine Rincon-Ardila<sup>1</sup>, Jessica Gonçalves da Silva<sup>1</sup>, Adriano Marim Oliveira<sup>1</sup>, Mário Ricardo Góngora Rubio<sup>1</sup>; <sup>1</sup>Instituto de Pesquisas Tecnológicas do Estado de São Paulo, <sup>2</sup>Universidade de São Paulo
- 17:00 Enhancing Manufacturing Process of Template-Stripped Gold Pyramids for Near-Field Optical Microscopy** **WS1.P1.11**  
Bruno Santos de Oliveira<sup>1,2</sup>, Thiago de Lourenço e Vasconcelos<sup>2</sup>, Bráulio Soares Archanjo<sup>2</sup>, Carlos Alberto Achete<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 17:00 Novel and simple synthesis of a lighter technologic cloth with lead dioxide: Application in X-ray shielding.** **WS1.P1.12**  
Rodolfo Bonoto Estevam<sup>1</sup>, Gustavo Marciniuk<sup>1</sup>, Rodolfo Thiago Ferreira<sup>1</sup>, Alex Vieira Pedrosa<sup>1</sup>, Fábio Santana dos Santos<sup>1</sup>, Marco Antonio Voinarovicz<sup>1</sup>, Jarem Garcia<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa

- 17:00 Development of a biporous alumina wick for capillary evaporators** **WS1.P1.13**  
Isadora Schramm Deschamps, Marcos Vinício Oro, Matheus de Lorenzo Oliveira, Lucas Freitas Berti, Edson Bazzo, Marcio Celso Fredel
- 17:00 Silicon thin films produced by solution blow spraying (SBSp)** **WS1.P1.14**  
Thiago P. M. Ferreira<sup>1</sup>, Neymara Cavalcante Nepomuceno<sup>1</sup>, Eudes Leonnán Medeiros<sup>1</sup>, Eliton Souto Medeiros<sup>1</sup>, Amélia Severino Ferreira e Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba
- 17:00 Green silver nanoparticle synthesis with starch *Manihot esculenta* Crantz** **WS1.P1.15**  
MARIA GIRLENE DE SOUSA BEZERRA<sup>1</sup>, THAINÁ ARAÚJO OLIVEIRA<sup>1</sup>, José Milton Elias de Matos<sup>1</sup>, Maria Leticia Vega<sup>1</sup>, Amanda Furtado Luna<sup>1</sup>; <sup>1</sup>Federal University of Piauí



## Thursday, October 1st

### Oral presentations

\* Invited Lecture

#### **Session WS1OR1 (09:45 - 10:45) - Room 01**

**09:45 Nanofabrication of advanced nanophotonic structures.**

**WS1OR1.1\***

Stefano Cabrini<sup>1</sup>; <sup>1</sup>Lawrence Berkeley National Laboratory

**10:15 Advanced FIB Applications with new Ion Species and Large Area Capabilities**

**WS1OR1.2**

Andre Linden<sup>1</sup>, Sven Bauerdick<sup>2</sup>, Achim Nadzeyka<sup>2</sup>; <sup>1</sup>Raith America, Inc., <sup>2</sup>Raith GmbH

#### **Session WS1OR2 (10:45 - 12:00) - Room 01**

**10:45 Magnetoresistive sensors: from industrial to biomedical applications**

**WS1OR2.3\***

Paulo P. Freitas<sup>1</sup>, Suzana Cardoso<sup>1</sup>, Ricardo Ferreira<sup>2</sup>, Elvira Paz<sup>2</sup>, Tomás Dias<sup>1</sup>, João Gaspar<sup>2</sup>; <sup>1</sup>INESC Microsistemas e Nanotecnologias, <sup>2</sup>International Iberian Nanotechnology Laboratory - INL

**11:15 Digitalization of finishing processes for the packaging industry applying 3D printing techniques of engineering polymers**

**WS1OR2.4\***

Claudio rottman<sup>1</sup>; <sup>1</sup>Highcon Systems Ltd., Israel

**11:45 Synthesis of carbon-gold nanocomposite by pulsed laser ablation of gold target in water**

**WS1OR2.5**

Tommaso Del Rosso<sup>1</sup>, Omar Pandoli<sup>2</sup>, Marco Cremona<sup>3</sup>, Sandra Landi<sup>4</sup>, Fernando Lázaro Freire Júnior<sup>1</sup>, Eric Cardona Romani<sup>1</sup>, Taissa Rosado<sup>2</sup>, Francesco Giammanco<sup>5</sup>; <sup>1</sup>Departamento de Física (PUC-Rio), <sup>2</sup>Pontificia Universidade Católica do Rio, <sup>3</sup>Pontificia Universidade Católica do Rio de Janeiro, <sup>4</sup>Instituto Nacional de Metrologia, Qualidade e Tecnologia, <sup>5</sup>Università di Pisa



## Monday, September 28th

### Oral presentations

\* Invited Lecture

#### Session WS2OR1 (09:45 - 10:45) - Room 06

- 09:45 FOM slot-die coating for the win - leaving the spin coater behind** WS2OR1.1  
Benjamin Robotham<sup>1</sup>; <sup>1</sup>FOM TECHNOLOGIES
- 10:00 Emission Redshift in DCM2-Doped Alq3: a Non-Linear Stark-Effect Model** WS2OR1.2\*  
Ronaldo Giro<sup>1</sup>; <sup>1</sup>IBM Research
- 10:15 Multilayer moisture barrier deposition by combining PEALD and ICPECVD in one reactor** WS2OR1.3\*  
Bernd Gruska<sup>1</sup>; <sup>1</sup>SENTECH Instruments GmbH
- 10:30 Methods and Tools for Comprehensive Design and Characterization of Organic Light-emitting Devices** WS2OR1.4\*  
Beat Ruhstaller<sup>1</sup>; <sup>1</sup>Fluxim Inc.

#### Session WS2OR2 (11:15 - 12:30) - Room 06

- 11:15 Nanostructured transparent electrodes for organic optoelectronic devices** WS2OR2.5\*  
Valerio Pruneri<sup>1</sup>; <sup>1</sup>The institute of Photonic Sciences
- 11:30 Nearly monodisperse silver nanowires catalyzed by metallic chlorides for transparent electrodes** WS2OR2.6\*  
Renata Nome<sup>1</sup>, Fernando Ely<sup>1</sup>; <sup>1</sup>Electronic Packaging Lab., CTI - Center for Information Technology Renato Archer
- 11:45 Oxide metallic nanoparticles for industrial applications** WS2OR2.7\*  
Tarik Mohallem<sup>1</sup>; <sup>1</sup>Nanum Nanotecnologia S.A.
- 12:00 Printed low-cost OLED for Advertisement and Packaging** WS2OR2.8\*  
Marcin Ratajczak<sup>1</sup>; <sup>1</sup>SIOD | Technologie-Campus 1
- 12:15 R2R Production Pilot Line Implementation Challenges** WS2OR2.9  
Vinicius R Zanchin<sup>1</sup>, David James<sup>1</sup>, Grzegorz A Potoczny<sup>1</sup>, José Maria Anacleto Luz Junior<sup>1</sup>, Sergio Lopera<sup>1</sup>, Jeferson Freitas<sup>1</sup>, Tatiana Augusto<sup>1</sup>, Diego Bagnis<sup>1</sup>, Erika Gyoervary<sup>1</sup>; <sup>1</sup>Centro de Inovações CSEM Brasil

#### Session WS2OR3 (14:00 - 15:15) - Room 06

- 14:00 The application of new technologies and materials to contribute with quality of life of disabled people** WS2OR3.10  
Janos Kalmar<sup>1</sup>; <sup>1</sup>Ottobock Latin America
- 14:15 High Power, High Brilliant Direct-Diode Lasers for Material Processing** WS2OR3.11\*  
Wolfgang Gries<sup>1</sup>; <sup>1</sup>Direct Photonics Industries GmbH
- 14:30 The selective laser melting technology and its application in the aeronautic industry - international strategic cooperation between embraer and fraunhofer ipk** WS2OR3.12\*  
David Carlos Domingos<sup>1</sup>; <sup>1</sup>IPK
- 14:45 Electrochromic properties of thin films of V<sub>2</sub>O<sub>5</sub> doped TiO<sub>2</sub>** WS2OR3.13  
ELTON ALVES MOURA<sup>1</sup>, Camila Monteiro Cholant<sup>1</sup>, Rafaela Moreira Javier Lemos<sup>1</sup>, Talita Marth Westphal<sup>1</sup>, César Antonio Oropesa Avellaneda<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas

#### Session WS2OR4 (17:00 - 18:00) - Room 06

- 17:00 Round Table Innovation**  
Danny Krautz<sup>1</sup>; <sup>1</sup>Berlin Partner for Business and Technology

## Poster presentations

### Session WS2.P1 (17:00 - 19:00)

- 17:00 Thin films of  $V_2O_5:MoO_3$  and its applications in electrochromism** **WS2.P1.1**  
Camila Monteiro Cholan<sup>1</sup>, Talita Marth Westphal<sup>1</sup>, ELTON ALVES MOURA<sup>1</sup>, Rafaela Moreira Javier Lemos<sup>1</sup>, Andre Gundel<sup>2</sup>, Wladimir Hernandez Flores<sup>2</sup>, César Antonio Oropesa Avellaneda<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Fundação Universidade Federal do Pampa
- 17:00 Enamel coating via electrophoretic deposition and quality of deposition.** **WS2.P1.2**  
wagner da silveira<sup>1</sup>, Ozge İşıkşacan<sup>2</sup>; <sup>1</sup>Fundação Universidade Federal da Grande Dourados, <sup>2</sup>Istanbul Technical University
- 17:00 Comparative Study of Polypyrrole Films Chemically Deposited onto Aluminum Surfaces using chloride ferric and ammonium persulfate as initiators** **WS2.P1.3**  
Andrea Santos Liu<sup>1</sup>, Rodrigo Barbosa Hilario<sup>1</sup>, Barbara Ramos Ferreira<sup>2</sup>, Liu Yao Cho<sup>2</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, <sup>2</sup>Universidade do Vale do Paraíba
- 17:00 Process of pigmentation and anodizing of aluminum** **WS2.P1.4**  
Natal Nerimio Regone<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"-Campus de São João da Boa Vista
- 17:00 The Protection of the Steel Surface by Polypyrrole Chemically Deposited** **WS2.P1.5**  
Liu Yao Cho<sup>1</sup>, Barbara Ramos Ferreira<sup>1</sup>, Priscila Eduarda Bussolaro Cândido<sup>1</sup>, Andrea Santos Liu<sup>2</sup>; <sup>1</sup>Universidade do Vale do Paraíba, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 17:00 Morphologic Study of Films Pani/MWCNTs Synthesized by Interfacial Polymerization** **WS2.P1.6**  
 Milena Lima Guimarães<sup>1</sup>, Sabrina Moura Guimarães<sup>1</sup>, Crislaine Soares Oliveira<sup>1</sup>, Natalia Cristiane de Sousa Maia<sup>1</sup>, Raniella Andrade de Brito<sup>1</sup>, Jorge Mauricio Silva Santos<sup>2</sup>, Jaderson Araujo Barros Barbosa<sup>3</sup>, André Romão Terto<sup>3,4</sup>, Paulo Henrique Oliveira Júnior<sup>1,4</sup>; <sup>1</sup>Universidade do Estado da Bahia, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>3</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>4</sup>IF Sertão Pernambucano/Campus Petrolina
- 17:00 Preparation and Morphologic Study Composite Polyaniline/Graphene Oxide and Polypyrrole/Graphene Oxide** **WS2.P1.7**  
 Sabrina Moura Guimarães<sup>1</sup>, Milena Lima Guimarães<sup>1</sup>, Raniella Andrade de Brito<sup>1</sup>, Crislaine Soares Oliveira<sup>1</sup>, Natalia Cristiane de Sousa Maia<sup>1</sup>, Jorge Mauricio Silva Santos<sup>2</sup>, Jorge Adriano Alves Coelho<sup>3</sup>, Francisco da Silva Matias<sup>1,3</sup>, Paulo Henrique Oliveira Júnior<sup>1,4</sup>; <sup>1</sup>Universidade do Estado da Bahia, <sup>2</sup>Instituto Federal de Educação, Ciência e Tecnologia do Piauí, <sup>3</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>4</sup>IF Sertão Pernambucano/Campus Petrolina
- 17:00 Electrical characterization of metallic structure (Ni-P/Au) over alumina substrate** **WS2.P1.8**  
 Alexander Flacker<sup>1,2</sup>, Cristina Adamo<sup>2</sup>, Ricardo Cotrin Teixeira<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Centro de Tecnologia da Informação Renato Archer





## Wednesday, September 30th

### Oral presentations

\* Invited Lecture

#### *Session EXPOR1 (09:45 - 10:45) - Room C*

- 09:45 Caracterização de materiais - Aplicações das técnicas Fluorescência e Difração de Raio X. BRUKER** EXPOR1.1  
Adriana Parizatto<sup>1</sup>; <sup>1</sup>Bruker do Brasil - Divisão AXS
- 10:15 Caracterização de materiais, ferramentas de análise, soluções e inovação. SHIMADZU** EXPOR1.2  
Tiago Renovato<sup>1</sup>; <sup>1</sup>Shimadzu do Brasil

#### *Session EXPOR2 (11:15 - 12:30) - Room C*

- 11:15 New and Ongoing Developments in Thin Film Deposition from the Kurt J. Lesker Company** EXPOR2.3  
Duane Bingaman<sup>1</sup>; <sup>1</sup>Kurt and Lesker Company
- 11:45 Confocal 3D Raman Imaging Correlated with EM & SPM - Technique & Applications. WITECH** EXPOR2.4  
Fernando Vargas<sup>1</sup>; <sup>1</sup>Witech
- 12:15 Technological Innovations on Chemometrics through AFM-Raman and Fluorescence Imaging Spectroscopy. HORIBA** EXPOR2.5  
Igor Carvalho<sup>1</sup>; <sup>1</sup>Horiba

#### *Session EXPOR3 (14:00 - 15:30) - Room C*

- 14:00 Ferramentas de caracterização UV-Vis-NIR nunca antes possíveis para materiais. AGILENT** EXPOR3.6  
Janaina Gomes<sup>1</sup>; <sup>1</sup>Agilent
- 14:30 Recent advances in transmission electron microscopy technology. ALTMANN** EXPOR3.7  
Rafael Arenas<sup>1</sup>; <sup>1</sup>Altmann
- 15:00 Recentes Avanços na técnica de Difração de Raios-X, para desenvolvimento de novos materiais e análise de propriedades físicas. Aplicação de detectores 1D e 2D - RIGAKU** EXPOR3.8  
Jenny Sayaka Komatsu<sup>1</sup>; <sup>1</sup>Rigaku

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Amanda Dambros Pereira	S.P3.153	Ana Flávia Nogueira	Q.P1.11, Q.P1.12, Q.P2.35, Q.P2.44, Q.P2.46, Q.P3.73, Q.P3.76, R.OR8.40
Amanda De Assis Alves Loures	AA.P1.4, S.P1.10, X.P1.29	Ana Flavia Pinheiro de Campos	F.P1.6
Amanda de Freitas Gavanski	K.P2.57	Ana Flávia Suzana	F.P1.9
Amanda dos Santos Ponce	B.OR3.8, B.P1.15	Anaftália Felismino Moraes	Y.P2.47
Amanda Fernandes Gouveia	C.P1.1, N.P1.2	Ana Graci Brito-Madurro	D.P3.95
Amanda Furtado Luna	C.P3.128, M.P3.113, WS1.P1.15	ANAHI HERRERA APARECIDA	C.P1.3
Amanda Gomes de Carvalho	K.P2.49, K.P2.62	Ana Isabel de Carvalho Santana	S.P4.228
Amanda Leitolis	K.OR4.12	Ana Kaori Ouba	X.P1.8
Amanda Machado Carvalho Pires	M.P1.27	Ana Karenina de Oliveira Paiva	C.P1.48
Amanda Martins Fernandes	C.P1.34	Ana Karolina GOMES DE ARAÚJO	B.P1.20
Amanda Melissa Damião Leite	K.P2.39, K.P2.49, K.P2.62, S.P1.24	Ana Kely R Souza	N.P3.95
Amanda Michelle de Brito Uchoa	C.P3.130	Ana Laura de Azevedo	D.P4.121
Amanda Natalina de Faria	W.P2.25	Ana Laura Seneda	G.P1.11, G.P1.25, G.P1.26
Amanda Oliveira	D.P3.93, Y.P3.94	Ana Lilia De Jesús Lázaro	AA.OR2.4
Amanda Silva Xavier	S.P3.134	Analine Crespo Ziglio	S.P2.82
Amar B Karki	J.OR3.11	Ana Lucia Dantas	B.P1.19, B.P1.20
Amar S. Bhalla	I.OR1.1	ana lucia do amaral escada	W.P3.52, W.P3.58
Amauri Jardim de Paula	T.P3.22	Ana Lucia Ferreira De Barros	Q.P1.5
Amauri Jardim Paula	T.P3.16	Ana Luiza Fonseca Carvalho	S.P1.26
Amedea Barozzi Seabra	C.OR6.20, T.OR1.3, T.OR2.6	Ana Maria de Guzzi Plepis	V.P1.3, V.P1.5, V.P1.7
Amélia Severino Ferreira e Santos	D.P4.119, J.P2.21, K.P2.49, K.P2.62, WS1.P1.14	Ana Maria de Oliveira Rocha SenosROCHA SENOS, A. D.	M.P2.83, M.P2.84
Amélie Rochet	F.OR4.12, F.OR5.18, F.OR5.19, F.P2.22	Ana Maria do Espirito Santo	C.P3.139, I.P1.17
Américo Sheitiro Tabata	W.P1.13	Ana Maria Furtado de Sousa	S.P1.38
Américo Tristão Bernardes	L.P1.9	Ana Maria Maliska	K.OR6.20, K.P2.38, K.P2.42, K.P2.58, K.P2.59
Amilton Martins dos Santos	Y.P1.27, Y.P3.60	Ana Maria Pinto	AA.P1.5, W.OR2.6, W.P1.6
Amilton Martins Santos	D.P3.83, D.P4.130, Y.P3.57, Y.P3.58, Y.P3.61, Y.P3.63	Ana Maria Pires	A.P2.35, BB.P1.7, N.P1.31, N.P2.54, N.P2.57, N.P3.72, N.P3.73, N.P3.83
Amos Matsiko	V.OR3.9	Ana Maria Queirós Norberto	Y.P1.24
Amrita Kaur Khalsa Colognesi Lopes	S.P1.18	Ana Maria Sper Simão	W.P2.25
Ana Angélica Mathias Macêdo	N.P2.37, N.P3.76	Ana Marisa Fusco-Almeida	Y.P3.90
Ana Barros-Timmons	D.P4.130	Ana Marisela Maubert Franco	C.P4.149
Ana Beatriz Ferreira Vitoreti	N.P2.42, Q.P1.28	Ananda Lúcia Duarte Lima Botelho	S.P4.214
Ana Cândida Martins Rodrigues	S.OR4.12, WS1.P1.5	Ana Paula Alves Favareto	T.P1.6, T.P1.7
Ana Carolina Batista	V.OR1.3	Ana Paula Carvalho Teixeira	D.P3.87
Ana Carolina Mazarin de Moraes	T.P3.14, T.P3.20, T.P3.23	Ana Paula Cysne Barbosa	D.P3.104, D.P4.147, W.OR1.2
Ana Catarina Rezende Leite	C.OR9.35	Ana Paula de Azevedo Marques	N.P1.10
Ana Cecília Vieira Nóbrega	A.P4.90, S.P3.142	Ana Paula de Moura	A.P3.63, A.P3.68, A.P4.98
Ana Celeste Ximenes Oliveira	W.P2.43, Y.P1.14	Ana Paula de Sousa Mesquita	V.P2.30
Ana Champi	A.P2.46, A.P3.55	Ana Paula Drummond Rodrigues	V.P1.10
Ana Cláudia Araújo	S.OR3.8, S.P4.177	Ana Paula Duarte Moreira	W.P3.64
Ana Claudia Arias	Q.OR2.5	Ana Paula Fonseca Albers	M.P3.122
ANA CLÁUDIA BATISTA ALMEIDA	A.P1.16, C.P2.78	Ana Paula Langaro	N.P3.95
Ana Cristina Ribeiro Veloso	J.P1.8	Ana Paula Lemes	C.P1.9
Ana Cristina Vieira Zuccheratte	S.P2.99	Ana Paula Pereira Fulco	C.P1.24, D.P4.147

Ana Paula Rosifini Alves Claro	W.OR3.11, W.P2.35, W.P2.37, W.P2.38, W.P2.42, W.P2.44, W.P3.49, W.P3.52, W.P3.58, W.P3.62, W.P3.67, W.P3.68, W.P3.69, W.P3.71, W.P3.74	André Antunes da Silva	A.P3.59, BB.P1.9
Ana Paula Sales Leal	S.P4.193	Andrea Paesano Júnior	B.P1.6, B.P2.40, M.P1.29, M.P1.33, M.P1.38, M.P3.131, Z.P1.11
Ana Paula Serafini Immich Boemo	K.P1.7	Andrea Pires	W.P2.47, W.P3.63
Ana Paula Villa Felix	F.P2.29	Andrea Porto	G.OR1.2, J.P1.16
Ana Paula Wunsch Boitt	K.P1.7	Andrea Porto Carreiro Campos	C.P3.123
Ana Pimentel	A.P2.38, C.P2.96	Andrea Reale	R.OR6.28
Ana Regina de Queiroz Silva	N.P2.37	Andrea Santos Liu	WS2.P1.3, WS2.P1.5
Ana Rita Ferreira Alves Teixeira	S.OR1.3, S.OR4.13	Andreas Distler	R.P2.10
Ana Rosa Fusco	K.P1.11	Andreas Elschner	R.OR7.37
Ana Rosa Ribeiro	T.P3.15, V.OR2.5, W.OR5.17, W.P3.59	Andrea Simone Stucchi de Camargo	A.OR3.8, A.P2.37, N.OR4.15, N.P1.28, N.P2.47, P.OR5.14, X.OR2.4
Ana Rúbia Batista Ribeiro	C.P4.154, D.P4.134	Andrea Simone Stuchi de Camargo	X.P2.67
Ana Sofia C. M. D'Oliveira	M.OR3.13, M.OR5.18, M.OR5.19	Andreas Jeindl	O.OR1.1
Ana Teresita Piotto	C.P3.133	Andreas Keil	K.P1.16
Ana Vitória de Oliveira	S.P4.189	Andreas Osadnik	O.P1.38, O.P2.48
Anderson Alves Cunha	I.P1.18	Andreas Schmid	B.OR2.4
Anderson André Felix	D.P4.125	Andreas Terfort	O.OR1.1
Anderson Bentes de Lima	V.P1.11	André Avelino Pasa	B.OR3.10, J.P1.12, N.P1.17, Y.OR4.14
Anderson Costa da Silva	Y.P1.15	André Ben-Hur Silva Figueredo	C.P1.28, C.P2.88, C.P2.91
Anderson De Jesus Caires	D.P3.96	Andre Chiappini	P.OR4.11
Anderson de Oliveira Lobo	C.P3.139, D.P1.2, Y.P3.53, Y.P3.62	Andre Contin	K.P1.8, K.P1.9
Anderson Dias	C.P1.44, C.P3.129	André de Araújo Oliveira	M.P1.8
Anderson Felipe Viana da Silva	S.OR3.8	André dos Santos Barros	M.P1.10
Anderson Fiamingo	Y.P1.18	Andre Felipe Coutinho Ribeiro	Y.P1.11
Anderson Gama Fernandes de Freitas	C.P3.105	André Felipe de Melo Sales Santos	S.P4.177
Anderson G. Fernandes de Freitas	C.P3.105	André Felipe Oliveira	Y.P2.44
ANDERSON JOSE FERREIRA	W.P3.73	André Felipe Vale da Fonseca	A.P2.31, Q.P2.43
Anderson Lima	Q.P3.63	André Filipe Pastor	C.P4.206
Anderson Maia Peres	C.P1.19	André Galembek	B.P1.16, B.P1.9, Y.P1.7
Anderson Martinez Santana	O.P1.23	ANDRÉ GUIMARÃES FERREIRA	K.P1.19
ANDERSON MOREIRA SÁ	C.P4.200, C.P4.204	Andre Gundel	N.P1.19, WS2.P1.1
Anderson Oliveira Lobo	V.P2.21, V.P2.22, V.P2.32, V.P2.33, W.P1.2, W.P1.4, Y.P1.11, Y.P1.13, Y.P3.64, Y.P3.89, Y.P3.93	ANDREIA CARDOSO PEREIRA	O.P1.30, Z.P1.1, Z.P1.10
Anderson Orzari Ribeiro	A.P3.64, V.P1.6	Andreia De Rosi	S.P3.149
ANDERSON SANTOS PASCHOA	O.P3.79	Andreia Ditzel Facci	W.P1.15
Anderson Silva Chaves	G.OR3.9	Andréia Fernandes da Silva	D.P2.62, D.P2.63, D.P2.65
Anderson S. L. Gomes	C.OR8.28, C.OR9.32, W.P3.75	Andréia Fonseca de Faria	T.P3.23
Anderson Thesing	I.P1.2	Andrei Alaferdov	ARTS
Anders Runge Walther	O.P1.38	Andrei Alunel Patrascu	M.P2.82
Andrea Arcangeli	P.OR3.7	Andrei kholkin	I.OR2.5
Andrea Boldarini Couto	C.P2.51	Andrei Lucca Belladona	C.P3.119
andrea brito latge	G.OR5.12	Andrei Sakai	V.P2.30
Andrea Chiappini	P.OR4.10	Andrei V. Alaferdov	D.P3.91
Andrea Dei	B.OR5.14	André Lincoln Alexandrino Silva	M.P2.58
Andréa Ferreira da Silva	N.P1.24	Andre Linden	WS1OR1.2
Andrea Liscio	A.OR4.12	André Linhares Rossi	T.P3.15, W.OR5.17
Andrea Machado Costa	V.P2.25, V.P2.26	André L. Moura	P.OR8.24
Andrea Mura	O.OR5.17	André Lopes Carvalho	O.P1.13, O.P1.15, O.P1.24, O.P3.80
		Andrelson Wellington Rinaldi	D.P4.125
		André Lucas Costa	N.P3.83
		André Luis Alves Moura	F.P1.15

André Luis Boaventura	I.OR1.2, I.P1.6	Angela Gallardo	A.P1.21
André Luis de Jesus Pereira	A.P3.62	ÁNGEL ALBERTO HIDALGO	O.OR3.9, O.P1.11, O.P1.20, O.P1.26, O.P1.33, O.P3.92
andré luís de oliveira cavaignac	O.P1.8, S.P2.77	Angela Mello Ferreira	K.OR6.19, S.OR3.9
André Luis Martinotto	J.P2.33	Angela Ortiz de Zevallos	B.P2.33
André Luis Pozzebon	S.P3.149	Angela Priscila Pelegrini Bolach	BB.P1.1
André Luis Silveira Fraga	Q.P2.38, Q.P2.48	Angela Regina Araujo	C.P3.110
André Luiz Carneiro Soares do Nascimento	M.P1.11, M.P1.17	Ângela Saito	Y.OR1.3
André Luiz Caulit Silva	M.P1.47	Angelo Caporalli Filho	W.P3.62, W.P3.74
Andre Luiz Da Silva	A.P4.77	Angelo Capri Neto	S.P4.171
André Luiz Fassone Canova	G.P1.4	Angelo Luiz Gobbi	A.P4.97, O.P1.1
André Luiz Maia Azevedo	D.P2.48	Angelo Malachias	C.P2.79, D.OR1.2, F.OR6.22
André Luiz Moraes Alves	G.P2.51, G.P2.65	Ângelo Marcio Leite Denadai	V.P2.24
Andre Luiz Pinto	D.P4.133	Aníbal Eugênio Vercesi	C.OR9.35
André Luiz Reis Rangel	W.OR3.11, W.P3.67	Aníbal Livramento da Silva Netto	A.P4.81
André Marino Gonçalves	I.P1.26	Anielle Christine Almeida Silva	A.P2.36, C.P1.6
André Paganotti	M.OR6.27	Anna Carla Neves Silva	S.P4.223
André Pina de Mesquita	S.P4.222	Anna Christina Véron	A.OR2.7, Q.OR6.15
André Riul	N.P1.29	Anna Flávia Dias Zafred	Y.P2.32
André Rocha Monteiro Dias	WS1.P1.3	Anna Hoerner	N.OR4.14
André Romão Terto	A.P4.78, A.P4.81, N.P3.66, N.P3.67, N.P3.68, WS2.P1.6, Y.P3.82	Anna Karla Freitas	C.P3.137
André Santos Barros	M.P1.13, M.P1.14	Anna Laura Yuri Yokomichi	A.P4.84, A.P4.87
Andrés Cárdenas	N.P2.61, Q.P2.42	Anna Luiza Lukowiak	P.OR4.10, P.OR4.11
Andre S Ferlauto	D.OR1.2, D.P3.96	Anna Thaise Bandeira Silva	C.P1.16
Andrés Mauricio Muñoz Garcia	G.P1.20, G.P1.21, G.P2.40	Anna Toledo	X.P1.37
Andres Muñoz	S.P3.130	Anne Hitomi Yonamine	A.P4.86
Andres Rojas	G.P1.20	Anne Lamirand	B.OR3.9
ANDRESSA Antunes BORTOTI	K.P2.57	Anne Louisi Goes de Souza	C.P1.13
Andressa Carvalho	G.P1.11, G.P1.25, G.P1.26	Anthony Duncan	W.OR6.19
Andressa da Cruz Schneid	X.P2.56	Anthony José Palmeira Galvão de França	D.P3.83
Andressa Galli	C.P1.39, C.P1.41	Antoine Bousquet	A.OR1.2, A.OR1.3
Andressa Mayumi Kubo	C.P4.181	Antoine Hugon	F.OR4.12
Andressa Silva Gomes	V.P2.18, V.P2.20, Y.P3.80	Anton Fernandez Fernandez	K.OR1.3
André Vitor Chaves de Andrade	Q.P2.37	Antônia Millena de Oliveira Lima	N.P1.3, N.P1.5, N.P1.7, P.P1.3
Andrew John Gellman	M.P3.121	Antonia Sonia Alves Cardoso Diniz	Q.P3.78
Andrew McCallum Martin	A.OR1.1	Antoniél Carlos Carolino Campos	F.OR1.2
Andrew Paul Monkman	O.OR5.15	Antonio Augusto Couto	M.P1.12
Andrey Coatrini Soares	O.P1.13, O.P1.15, O.P1.24, O.P3.80, P.P1.4	Antonio Augusto de Souza	K.P1.7
Andrey José Moraes de Lima	A.P4.88	Antonio Augusto Malfatti Gasperini	F.OR2.6, F.P2.28
Andrey Marcos Pinho da Silva	R.P1.6	Antônio Azevedo	B.P1.1
Andrey O. Doroshenko	K.OR6.18	Antonio Benayas	N.P3.94, P.OR6.16
Andreza de Moura Cardoso	D.P2.55, D.P2.67	Antônio Carlos Ancelotti Jr	K.P1.21
Andreza de Sousa Andrada	D.P1.16, D.P1.8, S.P3.140	Antonio Carlos Bruno	M.P1.31, T.P1.5
Andris Figueiroa Bakuzis	Y.P1.15	Antonio Carlos da Silva	W.OR4.14
Andriy Kovalenko	J.OR5.15	Antonio Carlos Doriguetto	B.P2.33
Anelia Kakanakova-Georgieva	J.OR4.14	Antonio Carlos Hernandes	P.P3.20
Anelise C.O.C. Doria	Q.P2.34, Y.P3.77	Antonio Carlos Seabra	WS1.P1.3
Anely Maciel Melo	A.P3.71	Antonio C. C. Migliano	Q.P3.71, S.P4.161
Angela A. Vieira	M.P3.122	Antônio Eduardo Hora Machado	Q.OR7.19
Angela Burlamaqui Klautau	G.OR4.10	Antônio Eduardo Martinelli	S.P4.231
Angela de Jesus Vasconcelos	M.P1.10	Antonio Facchetti	Q.OR2.5
Angela Fasanella	D.P4.146	Antonio Fernando Beloto	C.P1.38, N.P1.22
		Antônio Ferreira Ávila	C.P2.75, C.P2.89, C.P2.97

Antonio Ferreira-Pereira	X.P2.52	Arbelio Penton Madrigal	I.P1.23
Antonio Figueiredo Neto	L.OR2.3	Arbelio Penton-Madrigal	F.P2.30, I.P1.16
Antônio Gouveia de Souza	C.P3.130, C.P4.186, J.OR1.3, Q.P1.17, S.OR1.3, S.OR4.13, S.P1.41, S.P3.120, S.P3.136, S.P3.137, S.P4.166, S.P4.216, S.P4.217, X.P1.32, X.P1.5, X.P2.40, X.P2.43, X.P2.44, X.P2.53, X.P2.54, X.P2.60, X.P2.65, Z.P1.14	Argemiro Sousa da Silva Sobrinho	A.P3.62, D.P2.49
Antonio Gouveia Souza	D.P4.119	Ariadne Cristina Catto	Q.P1.15
Antonio Guerreiro Serrano	I.OR1.2	Ariadne Tuckmantel Bido	Y.OR1.3
Antonio Guerrero	R.OR1.3, R.P1.5	Ariane Espindola	A.P1.6
Antônio Henrique Conceição	S.P2.95, S.P2.96	ariane mara bronkow	S.P1.42
Antonio Jorge Abdalla	M.P1.12	Ariane Maria Arlindo de Souza	O.P3.81
Antonio Jose Felix Carvalho	S.P3.146	Ariane Meguekam Sado	M.P2.86
Antônio José Roque da Silva	F.OR2.4	Ariane Neves Moura	M.P2.88
Antonio J. Ramirez	F.OR6.21, M.OR2.4, M.OR5.21, M.P2.87, M.P2.89	Ariane Porto Ruiz	C.P4.178
Antonio Luciano Moreira	M.P1.10, M.P1.42	Ariane Viana	D.P2.69
Antonio Luiz Martins Maia Filho	V.P1.17, Y.P3.96	Ariano De Giovanni Rodrigues	A.P2.44, I.P1.4
Antonio Manuel Alves Morais	A.P3.64	Ariel Delgado del Toro	B.P1.14, G.P1.16, X.OR5.9
Antonio Marcos de Medeiros	L.P1.1	Ariel Guzmán-Vargas	S.P1.12
Antonio Marcos Helgueira de Andrade	M.P1.33, Q.P3.73, Q.P3.76	Ariel Nonato Almeida de Abreu Silva	I.P1.19
Antonio Mario Costa	X.OR6.14	Arilza de Oliveira Porto	W.P2.48
Antonio M Márquez	Q.P3.75	Arlan de Assis Gonsalves	S.P4.187
Antonio Olavo Cardoso Jorge	W.P3.68	Arlon Fernando Silva	F.P2.24
Antônio Oliveira de Souza	B.P2.40	Armando Monte Mendes	X.P1.20
Antonio Osimar Sousa da Silva	X.P2.58	Armindo Santos	X.P1.10
Antonio Otavio Toledo Patrocinio	Q.OR7.19, Q.P3.55	Armi Tiihonen	R.OR2.11
Antonio Pádua Castello Branco Cunha	C.P2.93	Arnaldo Homobono Paes de Andrade	M.P3.117, M.P3.120
Antonio Quina	N.P1.21	Arnaldo José Macari	O.P2.58
Antonio Reinaldo Cestari	S.OR3.7	Arnaud Ponche	W.OR6.19
Antonio Riul Jr.	O.P1.1, O.P2.66	Arnayra Sonayra Brito Silva	S.P3.136, S.P3.137, X.P2.54
Antonio Ruotolo	B.OR5.12, X.P1.6	Arne Lützen	O.P1.38, O.P2.48
Antonio Salvio Mangrich	S.OR5.15	Arnoldo Augusto Bahls Kava	M.P2.59
Antônio Santana Santos	C.P1.12	Arokia Nathan	D.OR6.21
Antonio Sérgio Bezerra Sombra	J.P1.18, J.P2.24, J.P2.26, J.P2.27, J.P2.29, J.P2.36, J.P2.37, J.P2.39	Aron Pazzin Andrade	D.P1.30
Antônio Sérgio Souza	D.P2.50	Artemis Marti Ceschin	A.P1.10, A.P3.69, O.P1.34, Q.P1.22
Antonio Shigueaki Takimi	D.P4.143, S.P4.197	Arthur Araújo Souza	D.P3.104
Antonio Talarico Adorno	M.OR6.27	Arthur Faé da Silva Felippi	Y.OR3.10
Antonio Utrilla	C.P2.76	Arthur Henrique Vieira de Melo	S.P3.113, S.P4.170
Antônio Valadão Cardoso	S.P3.119	Arthur Sant'Ana Cavichini	E.P1.2
Anton V. Panteleimonov	K.OR6.18	Arthur Seiji Nishikawa	M.OR6.23, M.OR6.24
Antti Nykänen	C.OR1.3	Arthur Tadeu Freitas de Almeida Araújo	D.P4.121
Any Suelem Andrade Ferreira	M.P1.25	Artur da Silva Carriço	B.P1.19, B.P1.20
Aparecida Fernanda de Souza Zanato	S.P3.128	Artur Filipe Gonçalves de Sousa	C.P4.162
Aparecido Edilson Morcelli	M.P3.117	Artur Jorge da Silva Lopes	G.P2.63, S.P4.184
Aparecido R Coutinho	D.P2.71, D.P2.72	Artur Mariano de Sousa Malafaia	M.OR4.16, M.P3.104, M.P3.105, M.P3.108, M.P3.109, M.P3.118
Aparecido Ribeiro Souza	C.P4.176	Arturo Morales Acevedo	Q.P2.32, Q.P2.33, Q.P2.50
Apurva Mehta	F.OR6.23	Artur Wilson Carbonari	C.P2.60, I.P1.5
Arandi Ginane Bezerra-Jr	C.OR6.22	Arvydas Ruseckas	Q.OR1.1
Arandi Ginane Bezerra Junior	C.P2.66	Ary Corrêa Junior	T.OR2.4, T.P2.8
ARAVIND VIJAYARAGHAVAN	C.OR8.29, D.OR6.18, K.OR5.15, Y.OR4.15	Ary da Silva Maia	J.OR1.3, Q.P1.17, S.P1.41, S.P3.120, S.P3.136, S.P3.137, X.P2.43, X.P2.54, Z.P1.14
		Athos Henrique Plaine	M.P2.81
		Atsuko Iida	R.OR4.18
		Auciello Orlando Hector	W.OR2.4
		Audrey Nunes de Andrade	N.OR6.23

Augustin Madalin Madalan	M.P2.82	Berend Snoeijer	BB.OR3.9
Augusto Batagin Neto	O.P1.36, O.P3.97	Bérenger Roth	R.OR1.6
Augusto Celso Antunes	Q.P2.37, Q.P3.60, Q.P3.61	Berenice Dedavid	C.P1.29
Augusto Cesar da Silva Bezerra	S.P4.178, S.P4.226	Bernardo de Souza	O.P3.100
Augusto Wanderlind	L.P1.6	Bernardo Kyotoku	D.OR3.7
Aurélia Retiella Oliveira Ferreira	F.P1.6	Bernardo Ruegger Almeida Neves	A.P4.85, C.P2.84
Aurelien Tournebize	R.OR7.37, R.P2.10	Bernardo Rurik Aparecido Gomes	N.P1.12, N.P1.6, P.P1.2
Auvani Da Silva Jr	Y.P3.88	Bernd Gruska	WS2OR1.3
Ayla Roberta Galaço	C.P2.87	Bernd Meyer	F.P1.12
Ayrles Silva Mendonça	S.P4.195	Bernhard Kretz	O.OR1.1
Ayrton de Sá Brandim	M.OR4.15, M.P3.110, S.P4.155, W.P3.54, W.P3.55, X.P2.48	Bernhard Schneider	K.OR2.6
Ayrton Fernando Gomes de Oliveira	C.P4.209	Bertrand Baubet	F.OR4.12
Ayrton Wagner Barbosa Silva	S.OR6.20, S.P4.167	Bertrand Tremolet de Villers	R.OR1.4
Azhar Fakhruddin	R.OR6.28	Bhushan Ramesh Patil	G.P1.31
<b>B</b>			
BACHIR Hallouche	Z.P1.11	Bianca Aparecida de Freitas Santos	X.P1.28
Badri Shyam	F.OR6.23	Bianca Barros Santos	M.P1.16, M.P1.22, M.P1.35
Barbara Brena	R.OR3.15	Bianca Dias Alves	S.P1.22
Bárbara Canto	C.OR3.11	Bianca Groner Queiroz	S.P1.35, S.P1.36
Barbara Del Curto	S.P2.58	Bianca Julioli Carvalho	Y.P1.17
Bárbara Elza Nogueira Faria	C.P2.84	Bianca Machado Cerrutti	A.P3.54
Bárbara Fernanda F. dos Santos	Y.P3.76	Bianca Maciel Marques	G.P1.9
Barbara Meier da Costa	S.P3.109	Bianca Maniglia	S.P2.100, S.P4.229
Bárbara Oliveira Gontijo	S.P4.214	Bianca Oliveira Agio	WS1.P1.10, WS1.P1.3
Barbara Perez Gonçalves Silva	C.P3.134	Bianca Tainá Ferreira	D.P4.121
Barbara Priscila Andreon	K.P1.26	Bianca Vicente Oscar	T.OR3.9
Barbara Ramos Ferreira	WS2.P1.3, WS2.P1.5	Birgit Skrotzki	M.P1.48
Bárbara Virgínia Mendonça Silva	Y.OR3.12, Y.P3.81	Björn Winkler	N.OR3.12
Barbara Zapparoli Cunha	M.P2.87	Blanca Azucena Gómez Rodriguez	A.P2.49, D.P3.93, Y.P3.88
barthira rocha	C.P4.220	Blanca del Rosal	N.P3.94
Bartolomeu Cruz Viana	C.P4.145, C.P4.173, C.P4.182	Blanca Hernando	B.OR3.7
Beate Saegesser Santos	N.OR6.21, N.P1.24	Blanca Rodríguez	Y.OR3.12, Y.OR5.16, Y.P3.81, Y.P3.94
Beatriz Antoniassi	S.P2.101	Bluma Guenther Soares	A.P3.70, C.P2.73, C.P4.150, D.P4.128, J.P1.17
Beatriz Aragón Fernandez	C.P4.147	Bodil Holst	A.P1.17
Beatriz Araújo Abreu Diniz	D.P2.76	Bogos Nubar Sismanoglu	A.P4.100
Beatriz Bonetti	S.P3.109	Bojan A. Marinkovic	C.P2.80, X.OR6.14
Beatriz Concepcion-Rosabal	F.P2.30	Bradley Olsen	T.OR4.13, V.OR1.2, Y.OR1.1
Beatriz Gonçalves	M.P2.75	Braulio Soares Archanjo	A.P4.76, C.OR3.11, C.P3.123, C.P4.172, D.P4.139, M.P3.121, O.OR1.3, P.OR3.9, S.OR5.14, WS1.P1.11
Beatriz Vessalli	Q.P3.69	Breiner Gabriel Canedo Silva	Y.P1.8
Beat Ruhstaller	R.OR4.22, WS2OR1.4	B. Rellinghaus	B.P2.34
Benedetta Casu	J.P1.2, J.P1.3, J.P1.4	Brena da Silva Porcino	M.P1.47
Benito Alén	C.P2.76	Brendan P. Gunning	Q.OR8.23
Benjamim de Melo Carvalho	S.P2.54	Brener Rodrigo Carvalho Vale	C.P2.77, N.P1.27
Benjamin Fragneaud	A.P4.76, O.OR3.11, P.OR3.9	Breno Ferraz De Oliveira	I.OR1.1
BENJAMIN HATTING	C.OR8.29	Breno Rocha Barrioni	D.P1.39, W.P1.11, W.P1.12
Benjamin Rache Salles	B.P2.27, D.P4.133	Brian Craig Sales	Z.OR1.1
Benjamin Robotham	WS2OR1.1	Brid Quilty	Y.P1.1
Benjamin Straube	B.OR5.15	Brigitte Boulard	P.OR4.12
Benny Lassen	G.P1.31	Bruna Andressa Bregadiolli	A.OR1.3
Benny Svardal	A.P1.17	Bruna Antunes Mas	W.OR2.7
Benoit Hackens	A.OR6.21, C.OR3.10	Bruna Araujo Lima	T.P3.23

Bruna Bueno Postacchini	A.P1.16, N.P1.14	Bruno Luís Hennemann	C.P3.119
Bruna Cabrera Capalbo	W.P2.35	Bruno Marques Viegas	S.P4.157
Bruna Cambraia Garms	W.OR3.9, Y.OR2.5, Y.OR6.19, Y.P1.22, Y.P1.24, Y.P3.71, Y.P3.85	Bruno M. Serafim	K.OR4.12
Bruna Carolina Costa	BB.P1.16, BB.P1.4, W.P1.13	Bruno Nazário Coelho	BB.P1.12, S.P4.172, S.P4.176
Bruna Carolina Lima	D.P4.122	Bruno N Cavalcanti	Y.P1.13
Bruna Castanheira	P.P2.17	Bruno Neckel Wesling	A.P2.39, A.P3.53
Bruna Cristina da Silva	D.P4.114	Bruno Oliveira Garcia	S.P4.206
Bruna Drielen Ferreira	X.P1.11	Bruno Prior Rocha	K.P2.52
Bruna Fernanda Aparecida da Silva Lima	S.P4.218	Bruno Ribeiro Borges	O.P2.47
BRUNA GRACIOLI	S.P4.159	Bruno Rostirolla	O.P1.32
Bruna Guedes Alvarenga	C.P1.35	Bruno Santos de Oliveira	P.OR3.9, WS1.P1.11
Bruna H. Marcon	K.OR4.12	Bruno Santos Ferreira	S.P3.114
Bruna Horta Bastos Kuffner	M.P2.75, M.P2.80, M.P3.90, M.P3.91, M.P3.92, M.P3.95, M.P3.97	Bruno Silveira NoreMBERG	A.P1.24, C.P3.102, D.P2.64, I.P1.2, I.P1.8, S.P4.199, Y.P3.68
Bruna Louise Perotti	BB.P1.5	Bruno Verissimo de Miranda Farias	B.P1.14, B.P1.3, G.P1.16, X.OR5.9
Bruna Michele Arruda de Brito	S.P4.204	Bruno Vinicius Manzolli Rodrigues	C.P3.139, O.P1.29, W.P1.2, Y.P1.11, Y.P3.62
Bruna Musacchio Vargas	X.P2.41		
Bruna Niccoli Ramirez	X.P2.39	<b>C</b>	
Bruna Postacchini	O.P2.49, O.P2.52, O.P2.68	Caetano Rodrigues Miranda	G.OR6.15
BRUNA RAPHAELA SOUZA	W.P3.73	Caio Castanho Xavier	W.P2.34
Bruna Sanmartin Vargas	J.P2.38	Caio Cesar Arneiro	Q.P3.72
Bruna Santos de Macedo	S.P1.34	Caio César Nogueira MELO	S.P4.158, S.P4.196, S.P4.199
Bruna Santuzzi Tebaldi	Y.P3.52	Caio David Andrade	M.OR2.7
Bruna Tosco	C.P3.134	Caio Figueiró Melo	C.P4.202
Brunetto Cortigiani	B.OR5.14	Caio Flaret Argentino Oliveira	M.P3.103
Bruno Alessandro Silva Guedes de Lima	AA.OR1.2, AA.P1.7, S.P2.45, S.P2.46	Caio Gomide Otoni	C.P4.180, S.OR3.10, S.P2.63
Bruno Alexandre Henriques	K.P2.44, W.P2.45	Caio José Percin	B.P2.42
Bruno Borges Ramos	K.OR6.20, K.P2.38, K.P2.41, K.P2.42, K.P2.58, K.P2.59	Caio Leite Bezerra	J.P2.36, J.P2.39
Bruno Caillier	P.P2.15	Caio Lenon Chaves Carvalho	C.P1.16
Bruno Caldas Coelho	A.P3.66	Caio M. Paranhos	D.P2.57, Y.P1.19
Bruno Campos da Silva	S.OR5.16	Caio Otavio Rodrigues	J.P1.12
Bruno Campos Janegitz	O.OR2.5, O.P1.28, O.P1.35	Calink Indiara do Livramento dos Santos	N.OR6.22
Bruno Cândido	W.P3.57	Calline Pereira dos Santos	C.P1.12
Bruno Cavalcanti Di Lello	X.P1.16, X.P1.34	Camila Almeida Melo	D.P1.35
Bruno Chaboli Gambarato	S.P2.68, S.P2.69	Camila Alves de Souza	I.OR2.7, I.P1.9
Bruno Daniel Gonçalves	M.P1.49	Camila Alves Escanio	X.P1.10
Bruno de Castro Souza	Y.P3.58	Camila Aparecida Rosiak	M.P1.28
Bruno dos Santos Potensa	D.P3.101	Camila Barbosa Bramorski	O.P1.35
Bruno Fernando Gianelli	AA.OR3.8, AA.OR3.9	Camila Bottega	Y.OR6.19, Y.P3.85
Bruno Gabriel Alves Leite Borges	J.P1.4	Camila Braga Dornelas	C.P4.154, D.P4.134
Bruno Geoffroy Scuracchio	M.P2.56	CAMILA DE OLIVEIRA VIANA	T.P2.8
Bruno Gomes Silva	B.P2.25, B.P2.29	Camila Fernanda da Silva	C.P2.75, C.P2.97
Bruno Henrique Ramos Lima	D.P1.7	Camila Goulin	S.OR5.16
Bruno Henriques	W.P3.56	Camila Gouveia Barbosa	O.P1.4
Bruno Henrique Santana Gois	A.P2.41, A.P3.59, BB.P1.11, BB.P1.9	Camila Guedes Francisco	W.P2.25
Bruno Hissa Amorim Oliveira	M.P2.57	Camila Juliane Marcondes	S.P2.73
Bruno Leonardo Caetano	F.P1.7, F.P2.22, X.P1.19, Y.P2.38	Camila Macedo da Luz	T.OR1.2
Bruno Lima Fiuza	A.P3.64	Camila Machado de Oliveira	BB.P1.3
		Camila Marchetti Maroneze	C.P4.215
		Camila Maria Andrade dos Santos	M.OR6.27
		Camila Molena de Assis	M.OR3.10, M.P3.112



Camila Monteiro Cholant	WS2.P1.1, WS2OR3.13	K.P1.28, N.P2.56, S.P1.5, S.P4.230, X.P1.20
Camila Negrão Konno	M.P1.10, M.P1.19, M.P1.21	
Camila Okinokabu Vieira	C.P2.90	
Camila Paixão Santos	C.P2.70	
Camila P.C. Sorge	Y.P3.77	
Camila Pedroso Silveira	T.P3.16	
Camila Rodrigues Scienc	C.P4.148, C.P4.165, C.P4.171, C.P4.178	
Camila Soares Xavier	A.P3.68	
Camila Soledade Lira	N.P2.60	
Camila Souza Andrade	S.P4.211	
Camila Tiemi Ozaki da Silva	C.P3.124	
Camilla Dall'Igna	S.P2.57	
Camilla Henriques Maia de Camargos	C.P2.59	
Camilla Karla Brites Queiroz Martins Oliveira	Q.P1.7	
Camilla K.B.Q.M Oliveira	D.OR1.3, Q.P2.40, Q.P3.70	
Camilla Lindqvist	R.OR3.15	
Camilo Arturo Suarez Ballesteros	T.P1.2, WS1.P1.2	
Camilo Bruno Ramos de Jesus	Z.P1.12	
Camilo Bruno Ramos Jesus	Z.P1.13	
Camilo Pulzara Mora	Q.P2.32	
Cantídio Francisco de Lima-Neto	D.P4.134	
Caren Machado Menezes	BB.P1.5, C.P1.33, C.P2.52	
Cari Maristela Pieper	W.P3.66	
Carla Akimi Kawaguti	S.P3.110	
Carla Andressa de Almeida Farias	C.P3.118, J.P2.25	
Carla Cristina Lopes	V.P2.30	
Carla Daniela Boeira	BB.P1.5, D.P1.3, D.P2.52	
Carla Eiras	D.P3.85, D.P4.138	
Carla Holandino	Y.P3.52	
Carla Júnia Santos	N.P3.64	
Carla Napoli Barbato	X.P2.57	
Carla Oliveira	Y.OR1.2	
Carla Regina Ferreira	AA.P1.4, S.P1.10, X.P1.29	
Carla R. Fontana	P.P1.4	
Carlino Carvalho de Almeida	K.P2.61, S.P3.114, S.P4.210	
Carlito Calil Junior	G.P1.15	
Carlos Alberto Achete	A.P4.76, C.OR1.3, C.P3.107, C.P3.123, C.P4.172, D.P1.20, D.P2.69, D.P3.109, M.P3.121, O.OR1.3, O.P2.54, P.OR3.9, S.OR5.14, W.P2.33, WS1.P1.11	
Carlos Alberto Andrade dos Santos	Z.P1.3, Z.P1.5	
Carlos Alberto Cimini Jr.	G.P1.10, K.P1.5, M.P1.41	
Carlos Alberto Costa	C.OR7.24	
Carlos Alberto Della Rovere	J.P1.6, M.P1.30, M.P2.81, M.P3.106, M.P3.111, M.P3.93	
Carlos Alberto de Souza Costa	V.P1.13, V.P1.14	
Carlos Alberto Fonzar Pintão	J.OR2.5, W.P1.6	
Carlos Alberto Franchini	C.P3.107, C.P3.123	
Carlos Alberto Martinez Huitle	K.P1.23, M.P2.51	
Carlos Alberto Martinez Perez	Y.OR3.8	
Carlos Alberto Paskocimas	A.P4.80, A.P4.88, C.P1.24, C.P1.30, C.P1.8, C.P3.137, C.P4.212, D.P4.111, J.P2.21,	
Carlos Alberto Pérez	F.OR5.17	
Carlos Alberto Rodrigues	M.P2.67, M.P2.77, M.P2.80, M.P3.90, M.P3.91, M.P3.92, M.P3.95, M.P3.97	
Carlos Alberto Soufen	M.P3.128	
Carlos Alejandro Figueroa	C.P1.33, C.P2.52, D.P1.3, D.P2.44, D.P2.52, D.P2.56	
Carlos Alemán	O.P2.59	
Carlos Alexandre Meireles do Nascimento	G.P2.63, S.P4.184	
Carlos Angelo Nunes	M.OR5.21, M.P1.28	
Carlos Augusto de Souza Oliveira	S.P1.28, S.P1.35, S.P1.36, S.P3.140	
Carlos Augusto Ferreira da Rocha Junior	S.P4.220	
Carlos Augusto Henning Laurindo	W.OR6.20	
Carlos Augusto Laurindo	W.OR2.5	
Carlos Augusto Oliveira	M.P3.107	
Carlos Basilio Pinheiro	N.OR5.19	
Carlos Cesar Bof Bufon	O.OR6.20, O.P2.51, O.P2.63	
Carlos Daniel Gessi Caneppele	X.P2.55, X.P2.59	
Carlos Eduardo Campos Lanzi	BB.P1.9	
CARLOS EDUARDO CAVA	A.P3.60, D.OR5.15, D.P2.60	
Carlos Eduardo Galhardo	C.OR1.3	
Carlos Eduardo Rodrigues	D.P2.68	
Carlos Eduardo Silva	G.P2.54	
Carlos Eduardo Tavares de Magalhães	BB.P1.10	
Carlos Eduardo Vieira de Moura	J.P1.4	
Carlos Ferreira Frick	G.P2.53	
Carlos F. O. Graeff	A.OR1.3, A.P2.32, BB.OR2.6, C.P4.144, C.P4.209, O.P1.36, Q.OR6.15, Q.P1.8	
Carlos García	B.OR3.7	
Carlos Giles	F.OR6.20, F.P2.26, Z.OR3.9, Z.P1.16	
Carlos Henrique Aparecido Alves Moris	F.P1.2	
Carlos Henrique Brito Cruz	D.OR3.7, N.OR4.14	
Carlos Henrique Calixto	D.P3.101	
Carlos Henrique Izoton Filho	M.P2.61	
Carlos Jacinto	C.OR2.5, P.OR8.22	
Carlos Joel Franco	Z.P1.18	
Carlos José Gonçalves Vidal	A.P4.90	
Carlos José Leopoldo Constantino	BB.P1.11, S.P2.55, T.P1.6, T.P1.7	
Carlos K. Suzuki	C.P2.82, C.P2.83	
Carlos Lenz Cesar	Q.P1.4	
Carlos Manuel Giles	F.P2.25	
Carlos Paucar	C.P1.10	
Carlos Pérez Bergmann	D.P2.73	
Carlos Renato Rambo	A.P1.12, A.P2.39, A.P2.45, A.P3.53, C.P3.103, N.P2.50, Q.P2.31, S.P3.116	
Carlos Rettori	Z.P1.13	
Carlos Roberto Ascencio-Hurtado	A.P1.1	
Carlos Roberto Grandini	W.P1.18, W.P1.19, W.P1.23,	

	W.P1.5, W.P2.24, W.P2.26, W.P2.27, W.P2.32, W.P2.34, W.P3.70	Catiane Lima Monteiro	M.P1.25
Carlos Rodrigo Melo Roesler	V.P1.4	Catiúcia Rodrigues Marcelino Oliveira Matos	N.OR5.19
Carlos Torres-Torres	A.OR6.22	Cauê Ribeiro Oliveira	C.P2.67, C.P3.109, C.P4.148, C.P4.171, C.P4.192, D.P4.140, Q.P1.15, Q.P1.2, Q.P1.25, S.OR2.4, S.OR3.10, S.P1.2, S.P4.202
Carlos William Araujo Paschoal	I.P1.19, I.P1.22, I.P1.7	C. Damm	B.P2.34
Carlos William Galdino	F.P2.25, F.P2.26	Cecile Charbonneau	R.OR5.26
Carlos Yujiro Shigue	S.P2.105	Cécile Chaves Hernandez	C.P3.136
Carl P Romao	C.P2.80	Cecília Amélia de Carvalho Zavaglia	W.P2.42, W.P3.49
Carlton Anthony Taft	G.OR1.1, G.P1.5	Cecilia Carolina Torres	G.P2.35, X.P2.63, Y.P3.65, Y.P3.67
Carmelo Jonas Cook	D.P2.50	Cecilia de Almeida Zito	D.P1.19
Carmen Gilda Barroso Tavares Dias	S.P2.87, V.P1.10	Cecília Leite do Amaral Veras Campos	B.P2.31
Carola Fernanda Diaz	Y.P3.65, Y.P3.66	Cecilia Mercado-Zúñiga	A.OR6.22
Carol de Souza Berger	K.P2.40	CECÍLIA SANTOS SILVA	Y.P3.98
Carolina Almeida de Lima	S.P1.29	Cecília Vilani	C.P3.115, D.P3.94
Carolina Aurélio Ribeiro Maestro	M.OR4.16, M.P3.109	Célia de Fraga Malfatti	C.P4.170, Q.P3.73, Q.P3.76, S.P3.118
Carolina Ferreira De Matos	D.OR1.3, D.P2.60, Q.P2.40, R.P2.9	Célia Machado Ronconi	N.OR5.19
Carolina Lourenço	J.P2.22	Célia Regina da Costa	N.P1.8, S.P2.58
Carolina Marinho Santana	S.P3.107	Célia Regina Tomachuk	S.P1.1, S.P1.18, S.P1.32, S.P2.72
Carolina M. Watashi	T.OR1.3	Celine Darie	E.P1.3
Carolina Oliveira Silva	W.P1.15	Célio Albano da Costa Neto	C.P1.31
Carolina Parra	K.P2.64	Celso Antonio Goulart	S.P4.160
Carolina Passaia	X.P2.59	Celso Aparecido Bertran	K.P1.12, W.P1.20, W.P1.22, Y.P2.33
Carolina Rabal Biasetto	C.P3.110	Celso Araújo Duarte	D.P2.74
Carolina Torga Lombardi	S.P3.122	Celso Bortolini Júnior	W.P2.37, W.P2.44, W.P3.74
Caroline Andrade D'Arts	C.P1.40	Celso Camilo Moro	X.P2.55, X.P2.56
CAROLINE ANGULSKI DA LUZ	S.P4.159, S.P4.165	Celso Carlino Maria Fornari Junior	S.P2.65
Caroline A Ross	B.OR3.7	Celso Molina	A.P1.6, K.P1.11, X.P1.28
Caroline de Mayrink	N.P1.32, X.P1.4	Celso Pinto de Melo	C.P4.179, C.P4.188, D.P4.137, K.P2.47, N.OR6.24, N.P3.79, N.P3.93
Caroline Martins dos Santos	D.P2.58	Celso Tarso Viana	V.P2.24, Y.P3.92
Caroline Novak Sakakibara	Y.P1.6	Celso Valentim Santilli	A.P3.54, C.P2.54, F.OR3.11, F.OR3.9, F.OR5.19, F.P1.1, F.P1.10, F.P1.2, F.P1.7, F.P1.8, F.P1.9, F.P2.19, F.P2.31, K.P2.43, M.P3.127, S.P3.135, X.P1.1, X.P1.11, X.P1.19, X.P1.2, Y.P2.41
Caroline Pires Ruas	X.P2.49	Celso Xavier Cardoso	A.P2.35, C.P4.168, D.P1.37, N.P1.31
Caroline Raquel Bender	C.P3.118, C.P3.119, F.P2.18, J.P2.25	César A Antonio	V.P1.2, W.OR2.7
Caroline Silva Danna	V.P2.18, V.P2.20, Y.P3.80	Cesar Adolfo Escobar Claros	M.P1.24
Carromberth Carioca Fernandes	B.P1.5	Cesar Aguzzoli	C.P1.33
Carsten Doerenkamp	K.P1.10, S.OR4.12	Cesar Alves da Silva Filho	S.P4.214
Carsten Enderlein	Z.OR3.8	César Antonio Oropesa Avellaneda	B.P1.21, S.P3.126, WS2.P1.1, WS2OR3.13
Carsten Werner	Y.OR4.13	César Augusto Díaz Pomar	WS1.P1.4
Casandra Cox	F.OR6.23	César Augusto Duarte Rodrigues	M.OR4.14
Cassiana Batista da Rocha	O.P2.42	César Augusto Magalhães Benfatti	W.OR6.22, W.P3.57
Cassiano Batestin Costa	N.P1.14	César Augusto Souza de Andrade	C.P4.188, D.P4.137, N.OR6.24, N.P3.79, N.P3.93
Cassiano Rabelo	P.OR3.9		
Cássia Vanessa Nova	C.P2.71, C.P4.228		
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Cássio Longati Nunes	D.P1.9		
Cássio Morilla dos Santos	M.P3.124, X.P1.14		
Catalin Maxim	M.P2.82		
Catarina Brunhara Batista	T.P1.3		
Catherine Gazolla Santana	A.P2.25		
Catherine Gosselin	Q.OR9.24		
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Cesar Celestino da Silva	M.OR6.27	Cynthia Brito Fonseca	S.P4.164, S.P4.169
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Cesar Giron Camerini	M.OR5.20	Cintia Grossi de Abreu	C.P3.129
Cesar L. Petzhold	K.OR4.12	Cintia Kazuko Tokuhara	W.P1.21
Cezar Henrique Gonzalez	M.P3.107	Cintia Maria Rosa	D.P1.2
Chang-Qi Ma	R.OR6.30	Cintia Petry Mazzaferro	M.OR2.6
Charlene Aparecida Ribeiro	Y.P2.36	Cirlene Conceição de Carvalho Campos	G.P1.11, G.P1.25, G.P1.26
Charles Abreu Martins	M.P2.58	Claire V Colin	E.P1.3
Charlie Vargas Sarmiento	B.P2.41	Clara de Jesus Rangel	C.OR6.21
Charllyton Luis Sena da Costa	K.P2.55, V.P1.17, Y.P3.96	Clara Johanna Pacheco	M.P1.31
Charn-Ying Chen	R.P1.1	Clara Muniz Almeida	D.P2.69
Cheisy Daiana Freitas Moreira	Y.P2.30	Clara Ramos Soares	D.P1.22
Chelry Fernanda Alves de Jesus	Y.P1.12, Y.P2.32	Clara Yoshiko Hori	S.P4.207
Cheng-Si Tsao	F.P1.14, R.P1.1	Clarissa Cruz Pereira	S.P4.192
Cheng-Wei Chou	R.P1.1	Clarissa de Almeida Olivati	A.P2.41, BB.P1.11, O.P1.12, O.P2.57
Cheng Zhi Huang	D.OR4.13	Clarissa Lombardi Dias	N.P3.78
Cheyne Marçal de Souza	W.P2.47, W.P3.63	Clarissa Perdomo Rodrigues	C.OR8.27
Chiaki Sato	K.OR6.21	Clarissa Piccinin Frizzo	C.P3.118, C.P3.119, F.P2.18, J.P2.25
Chiara Battocchio	A.P2.32	Claro Ignacio Sainz Díaz	S.P4.194
Chia-Te Yen	R.P1.1	Claro Ignacio Sainz-Díaz	G.OR3.7
Chih-Min Chuang	R.P1.1	Clascídia A. Furtado	D.OR4.11, D.P1.16, D.P1.8, D.P2.50
Chloe Fabien	Q.OR8.23	Claudemiro Bolfarini	M.P1.24
Choyu Otani	S.P2.86	Cláudia do Amaral Razzino	O.P1.29
Chris Tassone	R.OR6.29	Claudia Draxl	J.OR4.12
CHRISTIAN BERGER	C.OR8.29	Cláudia Eliana Bruno Marino	W.P2.30
Christiane França Martins Santos	C.P1.18, V.P1.11	Cláudia Emanuele Machado	C.P2.77
Christian Egidio Silva	L.P1.4, L.P1.8, M.P1.23	Claudia Ferreira Silva	C.P3.128
Christian Frederico de Avila Von Dollinger	D.P2.67	Claudia Marcia Rosa	S.P3.117
Christian Kumpf	J.OR3.8	Claudia Miranda Martins	Y.P3.97
Christiano J.S. de Matos	C.P3.135	Cláudia Nazaré dos Santos	S.P4.164, S.P4.169
Christian Schimper	Y.OR4.13	Claudia Patricia García	C.P1.10, C.P4.227
Christian Sprau	Q.OR6.17	Claudia Regina Elias Mansur	C.P2.73, Y.P1.3, Y.P3.52
Christian Uhrich	R.OR4.19	Claudia Rodríguez Torres	B.OR5.15
Christina Dahlstrom	O.P3.90	Claudia Trindade Oliveira	C.P4.224
Christina Trautmann	N.OR3.12	Claudie Bourgaux	F.OR2.5, F.P2.22
Christine Dagron-Lartigau	A.OR1.2, A.OR1.3, O.OR4.14, R.OR7.37	Claudinei Rezende Calado	AA.P1.4, S.P1.10, S.P4.178, S.P4.203, S.P4.226, X.P1.29
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Christine Miwa Takahashi	O.P2.44	Claudio A. González-Fuentes	K.P2.64
Christine Strauss	Y.OR4.13	Claudio Alves Siqueira	M.P3.119
Christine Vidélot-Ackermann	R.OR1.7, R.P1.5	Claudio Antonio Cardoso	C.P4.152, I.P1.27
Christof Woell	O.OR6.19	Cláudio Antônio Perotoni	G.P2.58, J.P2.33
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Christopher Lam	Y.OR1.1	Cláudio Gonçalves de Oliveira	M.OR6.25
Chun-Yu Chang	F.P1.14	Cláudio José Rocha	M.P2.63
Cibele Vieira Araújo da Silva	M.P1.20	Claudio Laudares Silva	W.P2.43
Cicero Rafael Cena	J.P1.1	Claudio Lopes De Vasconcelos	B.P1.19
Cid Bartolomeu de Araújo	N.P1.24, P.OR7.20	Cláudio Luiz Carvalho	J.P1.1, X.P2.42
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Claudio Marcelo Zicovich-Wilson	G.OR3.6		
Cláudio Moreira Alcântara	M.P2.88	Cristiane Antoniazzi	C.P1.39
Cláudio M.R. Remédios	D.P4.133, F.P2.21, V.P1.11	Cristiane Aparecida Pereira	W.P3.68
Cláudio Nahum Alves	C.P1.18, M.P2.86, V.P1.11	Cristiane Barbieri Rodella	F.OR4.13
Cláudio Nunes Pereira	G.OR6.17, G.P2.59	Cristiane Funghetto Fuzinato	T.OR2.5, T.OR3.9
Claudio Romero Rodrigues de Almeida	A.P4.80	Cristiane Inácio Campos	S.P1.37, S.P1.40, S.P2.50
Claudio rottman	WS1OR2.4	Cristiane Margarete Daikuzono	O.P1.1
Claudio Teodoro dos Santos	V.P1.4	Cristiane Maria Basto Bacaltchuk	L.P1.7, M.P2.61
Claudio Valadares Macedo	X.OR6.11	Cristiane Mayumi Wada	W.P2.35, W.P2.38
Claudio Victor Santos Junior	V.P2.19	Cristiane Nascimento Santos	A.OR6.21
Clayton Souza Campelo	Y.OR5.17	Cristiane Pereira Sierra	A.P4.98
Cleber Alexandre Amorim	O.P2.67	Cristiane Regina Stilhano Vilas Boas	D.P1.10
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Cleber Renato Mendonca	A.P3.58, P.OR2.5	Cristian Hugo Campos Figueroa	G.P2.35, X.P2.63, Y.P3.67
Cleber R. Mendonça	O.OR5.16, P.OR2.3, P.OR2.6, P.P1.4, P.P1.8, Q.P1.1	Cristian Momoli Salla	O.P3.100
Cleber Santiago Alves	M.P1.49	Cristiano Augusto Manhães Silveira	L.P1.4, L.P1.8
Clederson Paduani	G.P1.9, M.P1.32	Cristiano Fantini	D.P3.96
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C. Moyses Araujo	Q.OR8.20	Cristina da Costa Amorim	X.P1.36
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Conrado Ramos Moreira Afonso	M.OR3.11, M.OR4.17, M.P3.106	Cristina Iuga	C.P2.62, C.P4.225, S.P4.194
Corinne Arrouvel	G.OR1.2, J.P1.16	Cristina Maria Fernandes	M.P2.83, M.P2.84
Cornelia Anna Maria Schröder	S.OR4.12	Cristina Pacheco-Soares	W.P2.47, W.P3.63, Y.P3.53, Y.P3.62
Cornelia Kasper	Y.OR4.13	Cristina Tristão Andrade	C.P2.64, D.P2.42
Cortino Sukotjo	W.OR2.4, W.P2.36	Cristine Costa Fulchini	C.P4.219
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Cristhian Andrés Garzón	D.P2.73	Cynthia Casagrande Matos	Y.P1.16
Cristiane Alvim Valente	Y.OR3.10, Y.P2.42	Cynthia Junqueira	D.P1.11
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Dariusz Wawro	Y.OR5.18	Denilson da Silva Costa	S.P1.29, S.P1.31
Davi Alves Marques	M.OR2.8	Denilson de Vasconcelos Freitas	N.P2.38, N.P2.39, N.P2.40, N.P2.60
David A. Duncan	J.P1.19	Denio Alves Cassini	Q.P3.78
David A. Egger	O.OR1.1	Denise Alanis	I.P1.10, I.P1.11
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David James	Q.OR3.8, R.OR4.20, R.OR7.35, WS2OR2.9	Denise Criado	C.P1.25
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David J Smith	B.OR5.16	Denise Maria Lenz	S.P1.3
David L Officer	O.OR4.12	Denise Schermann Azambuja	X.P2.50
David Martin Taylor	O.P1.32	Denise Stolle Weiss	W.P2.29
David Samuel Ginley	F.OR6.23, G.OR6.18, R.OR5.24	Denise Tallarico	A.P4.97
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Débora Aline Soares Maia	S.P4.209	Diana Gabriela Soares	V.P1.13, V.P1.14
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Débora Gonçalves	S.P2.82	Dicleyson Pereira Rocha	BB.P1.13
Débora Guimarães da Silva	Q.P2.47, Q.P2.51	Didem Ozevin	W.OR2.4
Deborah Barros	D.P4.128	Didier Bégué	O.OR4.14, R.P2.10
Débora Könzgen Meincke	Y.P1.10	Diego Andrade Vasconcelos	A.P1.7
Debora Magalhaes	F.OR2.7	Diego Anisio Modesto	C.P3.141

Diego Ariça Ceccato	N.P2.54
Diego Augusto Batista Barbosa	IP1.22
Diego Bagnis	Q.OR3.8, R.OR4.20, R.OR7.35, WS2OR2.9
Diego CB Alves	D.P3.96
Diego Correia de Souza	A.P3.64
Diego da Silva Manoel	Q.P1.1
Diego de Holanda Saboya Souza	Y.P1.4
Diego de Paula Santos	N.P2.39
Diego Ernesto González-Chávez	B.OR2.2, B.P2.25, B.P2.29, B.P2.30
Diego Fabri Abrahão	M.OR3.10
Diego Félix Dias	S.P4.186, X.P1.14
Diego Gomes dos Santos	M.P1.19, M.P1.20
Diego Guedes-Sobrinho	G.OR3.9, G.P1.32
Diego Guerra de Albuquerque Cabral	A.P2.49, Y.OR3.12, Y.OR5.16, Y.P3.94
Diego Henrique de Oliveira Machado	A.P1.5, C.P4.191
Diego Lamas	F.OR4.15
Diego Mantovani	W.OR3.11, W.P3.67, Y.P3.105
Diego Mendes dos Santos	O.P3.96
Diego Muraca	B.P2.34, C.P1.2, N.P2.43
Diego Nery Rodrigues	S.P1.14, S.P1.15, S.P1.16, S.P1.21
Diego Noé David Parra	C.P4.168
Diego Oliveira Pedreira	M.P1.24
Diego Rafael Nespeque Correa	BB.P1.16, BB.P1.4, W.P1.19, W.P1.23, W.P2.24
Diego Salazar-Aravena	B.P2.36, G.P1.6
Diego Soares de Moura	C.P1.42, C.P1.45
Diego Stéfani Tedor Martinez	T.P3.16, T.P3.19, T.P3.22
Diego Stefani Teodoro Martinez	T.P3.21
Dielen MARIN	S.P4.158
Dienne Clara Souza Silva	S.P4.164, S.P4.169
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Dilermando Nagle Travessa	M.P3.98
Dilson Cardoso	F.P1.6
Dimas Moraes da Silva	G.P1.12, G.P1.13, G.P2.45
Dimas Roberto Vollet	X.P1.23, X.P1.3
Dina Tobia	Z.P1.12
Diogens Cordeiro Souza Neto	M.P3.117
Diogo Alves Gálico	C.P2.71, C.P4.228, N.OR2.4
Diogo Duarte dos Reis	D.OR1.2
Diogo M. Guilhermitti Neto	D.P1.27
Diogo Porpino Cordeiro Batista	C.P4.154, D.P4.134
Diogo Ramon do Nascimento Brito	N.P1.3, N.P1.5, N.P1.7, P.P1.3
Diogo Rúbio Sant'Anna das Dores	N.P1.8
Dionísio José Rodrigues da Costa	L.P1.10
Dirceu Alves Lima	M.P3.130
Divani Barbosa Gavinier	C.P4.156
DJALMA ALBUQUERQUE BARROS FILHO	C.P1.5
Djanira Rodrigues Negrão	D.P4.115, D.P4.136
Djoille Denner Damm	K.P1.13, K.P1.14, K.P1.8, K.P1.9, S.P1.6

Dobroslav Tsonev	Q.OR1.1
Domingos de Sousa Meneses	A.OR6.21
Domingos José Minicucci	M.P2.53
Dominik Dorosz	P.OR4.11, P.OR5.13
Dominik K. Koemel	N.OR4.14
Dominique Givord	B.OR2.3
Donald E. Ellis	M.P1.26
Donato Alexandre Gomes Aranda	S.P1.19, S.P4.228
Dongsook Chang	Y.OR1.1
Dorys Mirian Soares Tabatinga Silva	W.P3.54, W.P3.55
Douglas Costa Santos	A.P1.7
Douglas dos Santos Ferreira	X.P1.27
Douglas Fabris	W.P2.45, W.P3.56
Douglas Galante	F.P2.27, N.OR3.9
Douglas Henrique Vieira	BB.P1.15
Douglas J Coutinho	R.OR7.39
Douglas José Correia Gomes	J.P1.14
Douglas José Coutinho	O.OR3.8, O.P3.86, Q.P1.18, Q.P2.39
Douglas Langie da Silva	S.P3.126
Douglas Luis da Silva	S.P3.141, X.P1.15, X.P1.17, X.P1.18, X.P2.69
Douglas Marcel Gonçalves Leite	A.P3.62
Douglas Milan Tedesco	S.P1.3
Douglas Miquita	C.P3.106
Douglas Ricardo de Assis	C.P4.205
Douglas Santana Charqueiro	X.P2.55
Douglas Soares Galvão	D.OR3.9, D.P3.91
Douglas S. Ribeiro	P.OR3.9
D.P. Woodruff	J.P1.19
Driele von Dreifus	B.OR5.13
Dr. Kakha NADIRADZE	T.P1.1
Duane Bingaman	EXPOR2.3
Ducinei Garcia	I.OR1.3, IP1.1, IP1.13, IP1.27
Duc Trong Duong	O.P3.90
Dulce Maria de Araújo Melo	B.P2.39, D.P3.102, D.P3.107
Dulcina Pinatti Ferreira de Souza	J.P1.13, S.P1.4, S.P3.131, S.P4.160, S.P4.162
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Durval Rodrigues Jr.	Z.OR2.6
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E.A. Thoroh de Souza	D.OR3.7
Eclair Venturini Filho	N.P3.96
Edcarlos Antônio Nunes Coura	G.P1.10, M.P1.41
Edcleide Araujo	K.P2.49, K.P2.62
Edcleide Maria Araújo	K.P2.39
Edeildo Ferreira da Silva-Júnior	C.P4.154
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Éder Alves Pereira	C.P2.67, C.P4.222, Q.P2.52	Edson Rodrigues Filho	C.P4.181
Eder Carlos Ferreira de Souza	Q.P2.37	Edson Sardella	G.P2.60
Ederson Pauletti	M.OR5.19	Eduardo Albuquerque Brocchi	C.OR7.23, C.P3.100, M.P3.125, S.P2.90, S.P4.227
Edésia Martins Barros de Sousa	C.P1.19, C.P1.35, C.P3.131, Y.P2.44	Eduardo Antonelli	I.OR1.2, I.P1.6, Q.P1.3
Edgar Andres Chavarriaga	C.P1.10, K.P1.1	Eduardo Ariel Ponzio	C.P1.15, C.P1.20
Edgard Andrade Rocha	S.P2.77	Eduardo Bedê Barros	C.P4.213, R.P1.2
Edgar Dutra Zanotto	V.P1.13, W.P1.9	Eduardo Bertoni da Fonseca	M.P2.89
Edgar Francisco Oliveira De Jesus	F.P2.29	Eduardo Bock	D.P1.30
Edgar Mosquera	A.P1.13, C.P2.53, Q.P3.58	Eduardo carvalho dutra	W.P3.68
Edilaine Ferreira da Silva	X.P1.10	Eduardo Cavalcante da Silva	Q.P1.3
EDILEIDE ALVES DOS SANTOS	S.P1.33	Eduardo Ceretta Moreira	N.P1.19
Edilene Assunção da Silva	O.P1.12	Eduardo Conceição Araujo	A.P3.52, A.P4.77
Edilene Deise da Silva	A.P4.98	Eduardo dos Santos Pio	X.P2.61
Edilson Lucena Falcão-Filho	N.P1.24, N.P2.53	Eduardo F. Barbosa	O.P2.64
Edilson Marques Magalhães	S.P4.157	Eduardo Ferreira Molina	F.P1.15
Edilson Valmir Benvenuti	F.OR4.14, K.OR6.18, X.P2.47, X.P2.55, X.P2.56, X.P2.59	Eduardo Gonçalves	L.OR2.3
Edilso Reguera	S.P1.11, S.P1.12	Eduardo Granado	D.OR6.19, E.OR1.2, E.OR2.4, E.P1.2
Edi Rozembergh Brandão	P.P1.7	Eduardo Henrique Lago Falcão	A.P2.40, C.OR8.28, C.OR9.32, C.P4.159, D.P3.88, N.P2.51, P.OR9.29, W.P3.75
Edison Barbieri	T.P3.19	Eduardo Henrique Martins Nunes	W.P3.73
Édison Pecoraro	N.P3.74, P.P1.5, P.P1.6, X.P1.4	Eduardo Hobold Kammer	L.P1.11, S.P4.234
Edison Zacarias da Silva	G.P2.49	Eduardo Jorge da Silva Fonseca	C.OR2.5, C.P4.154, D.P4.134
Edisson Morgado Jr.	X.OR6.14	Eduardo Kirinus Tentardini	J.OR2.4
Edivaldo L. Queiróz	D.P3.85, D.P4.138	Eduardo Maffud Cilli	C.P1.11, C.P1.13, N.OR1.1, N.P2.41, Y.P1.2
Edjan Alves da Silva	S.P3.126	EDUARDO MAGALHÃES BRAGA	M.OR2.5, M.P1.25
Edmar Arantes Moreira	C.P4.143	Eduardo Mauro Nascimento	S.P1.42
Edmar A Soares	B.OR2.4	Eduardo M. Bringa	G.P2.52
EDMILSON ARAÚJO OLIVEIRA JÚNIOR	S.P4.155, W.P3.54, W.P3.55, X.P2.48	Eduardo Niehues	Y.P3.55
Edmilson Otoni Corrêa	M.P2.83, M.P2.84	Eduardo Norberto Codaro	C.P1.17
Edmilson Pedreira dos Reis	S.P2.47, S.P4.215	Eduardo Oliveira Gomes	K.P1.28
Edmond Payen	F.OR4.12	Eduardo Padrón Hernández	A.P1.14, B.P1.10, B.P1.14, B.P1.16, B.P1.3, B.P1.9, B.P2.31, G.P1.16, X.OR5.9
Edna Fernandes Feitosa	S.P3.125	Eduardo Pedro Milan	V.P1.3
Edna Regina Spada	C.P2.67, C.P4.222, O.P2.61, Q.P2.52, S.P2.70	Eduardo Prestes	S.P2.54
Edrian Mania	A.P4.75	Eduardo Rezende Triboni	A.P2.25, A.P4.96, N.OR5.20, WS1.P1.9
Edson A. Capello Souza	G.P1.1	Eduardo Ribeiro de Azevedo	O.P3.98
Edson Bazzo	WS1.P1.13	Eduardo Ricci Júnior	Y.P1.21, Y.P1.3
Edson Carvalho Paz	N.P1.1, N.P1.6, P.P1.2	Eduardo Rigoti	C.P4.216
Edson Cavalcanti da Silva Filho	D.P3.85, D.P4.138, D.P4.138, Y.P1.20, Y.P2.28	Eduardo Roque Budemberg	S.P4.207
Edson Cezar Grzebielucka	J.P1.13, X.P1.8	Eduardo Saito	J.P2.31, Q.P1.3
Edson da Silva Reis	S.P1.20	Eduardo Sousa Lima	D.P2.78
Edson de Pinho da Silva	G.P2.63, S.P4.184	Eduardo Vargas Ferreira	D.P2.71
Edson Giuliani Ramos Fernandes	O.P3.72	Eduardo Xavier Miqueles	F.OR2.7
Edson H. Takano	M.OR3.13	Eduvaldo Paulo Sichieri	S.P4.221, S.P4.222
Edson Laureto	O.P3.82	Edvan Silva Barbosa	M.P1.6
Edson Nossol	D.P1.31	Edwalder Silva Teixeira	Q.P1.24
Edson Passamani	B.P1.12, M.P3.102	Edward Alexander Lewis	C.OR1.2, Q.OR5.13
Edson Rafael Cardozo de Oliveira	C.P2.76	Edward Crossland	R.OR5.25
Edson Rangel de Souza	S.P4.223	Edwige Otero	B.OR5.14
Edson Roberto Leite	C.P3.101, C.P4.181, C.P4.184, D.P1.7, M.P3.116, Q.OR7.18, Q.OR8.22	Edwillson Gonçalves de Oliveira Filho	S.P1.14, S.P1.15, S.P1.16,



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Edwin A. Moncada	F.P1.3	Eliraldrin Amorin de Sousa	D.P1.32, D.P1.33
Edwin Gonzalo Azero	C.P2.64	Elíria Maria de Jesus Agnolon Pallone	D.P4.113, S.P2.61
Egbert Zojer	K.OR1.3, O.OR1.1	Elisa Baggio Saitovitch	B.OR5.16, B.P1.11, B.P1.12, B.P1.7, B.P2.28, Z.OR3.8, Z.P1.2
Égil Brito Sá	G.P2.46, G.P2.47	Elisabete Pereira dos Santos	Y.P1.21, Y.P1.3
Egont Alexandre Schenkel	C.P2.82, C.P2.83	Elisa Magno Nunes Oliveira	Y.P3.69, Y.P3.70
Eigor Renato Petry	D.P2.52	Elisandra Gava Castro	D.P1.39
Eiken Hausstühl	N.OR3.12	Elisângela Muncinelli Caldas	X.P2.47
Elaine Armelin	O.P2.59	Elisângela Silva Pinto	O.P2.49, O.P3.78, Y.P2.46
Elaine Cavalcanti Rodrigues Vaz	N.OR3.11, N.OR6.23, P.OR5.15	Elisa S Orth	D.P2.45, D.P2.61, D.P2.66, S.OR5.16
Elaine Cristina Azevedo	S.P1.42	Elisban Juani Sacari Sacari	C.P2.53, Q.P3.58
Elaine Cristina Paris	C.P3.109, C.P3.112, C.P3.114, C.P4.148, C.P4.161, C.P4.165, C.P4.171, C.P4.178, C.P4.194, O.P1.6, T.P2.9	Eli Silveira Alves Júnior	B.P1.17
Elaine Gurjão de Oliveira	S.OR4.13	Eliton Souto Medeiros	C.P4.203, D.P4.119, J.P2.21, S.P2.45, S.P2.46, WS1.P1.14, WS1.P1.7
Elaine Pavini Cintra	S.P4.233	Elizabeth Fernandes Lucas	K.P2.60
ELAINE SILVA VASCONCELOS	N.P1.20	Elizabeth Aparecida Alves	N.P3.72
Elaine Yoshiko Matsubara	W.P2.25	Elizabeth Maria Soares Rodrigues	S.P4.192
Elber Vidigal Bendinelli	X.P1.36	Elizabeth Roditi Lachter	K.P1.4
Elder Alpes Vasconcelos	A.P4.90	Elizabeth Rojas García	C.P4.149
Elder Cardoso de Oliveira	F.P1.5	Elizabeth Soares Rodrigues	S.P4.188
Elena Flores	D.P1.21	Elizângela Batista Almeida	C.P2.78
Elena Mavropoulos	V.OR2.6, V.P1.15, V.P2.23, V.P2.25, V.P2.26, V.P2.27, V.P2.28	Elizaveta Kessler	S.P3.108
Elen Beatriz Pacheco	S.P1.38	Ellen Moons	R.OR3.15
Elenice Deffune	A.P4.84, A.P4.87	Ellen Raphael	Q.P1.16, Q.P2.43
Elen Poliani Arlindo Fuzari	D.P1.32, D.P1.33	Elodie Bourgeat-Lami	D.P3.83, D.P4.130
ELEODORO RODRIGUEZ HERMENEGILDO	S.P2.95, S.P2.96, S.P2.97, S.P2.98	Elodie Devers	F.OR4.12
Eliana Ap Rezende Duek	W.OR2.7	Eloisa Berbel Manaia	F.OR2.5, F.P2.22
Eliana Paola Marín Castaño	M.P3.125	Eloisa Cordoncillo	N.P3.65, N.P3.71
Eliana Pereira Silva	G.P2.44	Eloise Aparecida Langaro	S.P4.165
Eliana Weber de Menezes	X.P2.47, X.P2.55, X.P2.56, X.P2.59	Eloiza da Silva Nunes	C.P1.21
Eliane Ayres	S.P1.10	ELSON AVALLONE	M.P3.128
Eliane Cristina Viana Revoredo	Y.P1.7	Elson Longo	A.OR5.16, A.P1.19, A.P2.26, A.P3.61, A.P3.63, A.P3.68, A.P4.72, A.P4.80, A.P4.98, A.P4.99, C.P1.1, C.P2.71, C.P3.101, C.P3.116, C.P3.125, C.P4.152, C.P4.163, C.P4.166, C.P4.167, C.P4.168, C.P4.181, C.P4.184, C.P4.190, C.P4.199, C.P4.201, C.P4.228, D.P1.37, D.P4.111, D.P4.117, G.P1.5, G.P2.38, G.P2.49, G.P2.56, J.P2.20, J.P2.34, M.P3.114, M.P3.116, N.P1.10, N.P1.16, N.P1.2, N.P1.23, N.P2.34, N.P2.46, N.P3.62, N.P3.65, N.P3.71, Q.OR6.15, Q.P1.15, S.OR4.13, S.P2.49, S.P2.84, S.P2.85, S.P3.120, S.P3.127, S.P3.136, S.P3.137, S.P4.166, S.P4.216, X.P1.20, X.P1.5, X.P2.43, X.P2.54
Eliane D'Elia	X.P1.36	ELTON ALVES MOURA	WS2.P1.1, WS2OR3.13
Eliane Pinheiro da Silva	N.P3.85, N.P3.86	Elton Anderson Santos de Castro	G.P2.34
Eliane Teixeira Mársico	F.P2.29	Elton Aparecido Prado Reis	S.P2.55, Y.P3.80
Eliane Trovatti	S.P3.146	Elton Carvalho Lima	I.OR2.5
Eliara Torres da Costa	M.P2.72		
Elias Bruno Mocbel	K.P2.37		
Elias Fagury Neto	K.P2.37, S.P1.17, S.P3.125, S.P4.193, S.P4.205		
Elias Paiva Ferreira Neto	X.P1.26, X.P1.31, X.P1.33, X.P1.9		
Elidia Maria Guerra	C.P4.143		
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Elieber Barros Bezerra	K.P2.49, K.P2.62		
ELIÉDSON RAFAEL DE CARVALHO	S.P4.183		
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Elione Moura Carlos	C.P1.30, D.P3.79, D.P4.110,		

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Elton Jorge da Rocha Rodrigues	X.P1.37	Enio Lima Junior	B.OR3.10
Eluise Sobral Lopes	D.P4.139	Enio Pontes de Deus	M.P2.78
Elumalai Thirumal	Q.P1.5	Enrico José Giordano	M.P1.30
Elver Juan de Dios Mitma Pillaca	J.P1.11	Enrico Lucon	M.OR2.4
Elvira Maria Correia Fortunato	A.P2.38, C.P2.96	Enrique A. Dalchiele	A.P2.29
Elvira Paz	WS1OR2.3	Enrique Mariano Castrodeza	M.OR1.1
Elvis Carneiro Monteiro	C.P2.75, C.P2.89, C.P2.97	Enrique Perez	R.P2.12
Elvo Calixto Burini Junior	O.P2.44	Enrique Ribeiro	C.OR8.28
Elwis Carlos Sartorelli Duarte	G.P2.60	Enzo Cazzanelli	D.P4.146
Ely Antonio Tadeu Dirani	WS1.P1.9	Eoghan McNamara	O.P2.40
Ely Vieira Cortez	S.P3.144	Eralci Moreira Therézio	N.P3.91
Emanoel Laurertan Tavares França	AA.P1.9	Ercules Epaminondas de Sousa Teotonio	K.P2.63, N.OR2.7, N.P3.80, N.P3.82, N.P3.87, N.P3.88
Emanuel Airton de Oliveira Farias	D.P3.85, D.P4.138	Ercules Teotonio	N.P1.20, N.P3.78
Emanuela Prado Ferraz	V.OR3.8, W.P1.10, W.P3.76	Erica Cristina Almeida	C.P1.11, C.P1.12, C.P1.13, C.P4.156, D.P1.23
Emanuel da Cruz Lima	C.P4.173, C.P4.182	Erica Freire Antunes	D.P1.23
Emanuele Schwab	C.P1.41	Érica Megumi Kataoka	K.P2.46
EMANUEL FILIPE SANTOS AMARAL	S.P4.183	Erica Souza Oliveira	M.P2.51
Emanuel Pereira do Nascimento	Y.P3.83	Eric Cardona Romani	C.P3.115, D.P3.94, WS1OR2.5
Emerson Augusto Raymundo	M.P1.18	Eric Cordeiro-Spinetti	V.OR3.9
Emerson Cardoso Rodrigues	S.P4.220	Eric Diniz	A.P3.52
Emerson Colonetti	S.P4.234	Eric E. Hellstrom	Z.OR2.6
Emerson Cristofer Kohlrausch	K.P1.29, Q.P2.48	Eric Fujiwara	C.P2.82, C.P2.83
Emerson Ferreira Silva	S.P2.69	Erich Mello Oehninger	A.P2.39
Emerson J. F. T. Luiz	J.P2.21	Erick Iván Román-Román	G.OR3.6
Emerson Lima	C.P1.14	Érick Stefano Silveira Guerra	D.P4.147
Emerson Mariano da Silva	Q.P1.21	Erico Raimundo Pereira de Novais	B.P2.32
Emerson Miguel da Silva Júnior	S.P2.61	Eric Perim	D.P3.91
Emerson Oliveira da Silva	C.OR3.8, C.P2.93, D.P3.98, Y.P1.5	Eric Rivard	N.P1.25
Emerson Oliveira Papa	S.P4.169	Eric Teboul	P.OR9.26, P.OR9.27
Emerson Roberto Santos	O.P2.44	Eric W Van Stryland	P.OR1.1
Emerson Rodrigo da Silva	C.P4.223	Erika Abigail Ochoa Becerra	C.P1.31
Emerson Rodrigues Camargo	C.P3.101, C.P4.181, M.P3.116	Erika Cristina de Lima Soares	A.P2.49, Y.OR5.16
Emerson Rodrigues Prazeres	M.P1.44, M.P2.54	Erika Gyoervary	WS2OR2.9
Emerson Sarmiento Gonçalves	D.P2.55, D.P2.67, S.P2.51	Erika Gyovary	Q.OR3.8, R.OR4.20, R.OR7.35
Emerson Schwingel Ribeiro	X.P1.36	Erika Imada Barcelos	X.P2.38
Emersson Eduardo Espinosa Velez	J.P1.7	Erika Ketlem Gomes Trindade	A.P2.49, D.P3.93, Y.OR3.12, Y.OR5.16, Y.P3.94
Emila Halac	F.OR4.15	ERIKA PATRICIA CHAGAS GOMES	Y.P2.43
Emilene Mendes Becker	X.P2.59	Érika Pinto Marinho	A.P4.90
Emiliane Advíncula Malheiros	M.P1.3, M.P1.4	Erika R. M. Andreetta	N.P1.13
Emiliano de Oliveira Barreto	C.P4.154	Erika Soares Bronze-Uhle	A.P2.32, O.P1.36, W.P1.7, Y.P1.17
Emílio Neto	C.P1.49	Erin sanehira	R.OR6.29
Emilson Ribeiro Viana Junior	A.P1.23, O.P2.47	Erilton Rodrigo Botero	D.P4.125, I.P1.13, I.P1.25
Emily Caroline Coelho dos Santos	O.P1.10, O.P1.27, O.P1.9	Erivane Silva	A.P3.71, C.P3.117
Emin Erkan Asik	M.OR5.22	Erlon Henrique Martins Ferreira	D.P2.69, S.OR5.14, W.P3.73
Emmanuel Vilaça Costa	F.P2.23	Ernane Freire	D.P3.85, D.P4.138
Emmanuelle Sá Freitas Feitosa	AA.OR3.9	Ernesto A. Urquieta-Gonzalez	A.P4.98
EMMANUEL PACHECO ROCHA LIMA	M.P3.132	Ernesto C Pereira	B.OR5.13
emmanuel petitprez	M.P2.70	Ernesto David Gonzalez	J.OR2.5, M.OR4.17
Emmanuel Silva Marinho	G.P2.44	Ernesto Estevez Rams	C.P4.147
Enderson Sergio Bannwart	N.P2.35	Ernesto Govea-Alcaide	B.OR2.6, M.P3.123

Ernesto Schulz Lang	B.P2.41	Fabiano Montoro	M.P3.115
Eryza Guimarães de Castro	C.P1.39, C.P1.41, K.P2.57	Fabiano Severo Rodembusch	D.P2.65, O.P3.103
Ésoly Madeleine Bento dos Santos	D.P2.47	Fabiano Vargas Pereira	C.P2.59
Estefani Marchiori	B.P2.28	Fabiano Yokaichiya	I.OR1.3, I.P1.1, M.P2.74
Estéfano Aparecido Vieira	M.P2.53	Fabien Sorin	P.OR8.23
Estela Mari da Cunha Cardoso	S.OR5.15	Fabio Alencar Santos	N.P3.95
Estela Mary de Sá	F.OR1.2	Fábio Antônio Belinelli Silva	X.P1.24, X.P1.25
Estér Figueiredo Oliveira	C.P3.106	Fabio Aparecido Ferri	A.P2.42, I.P1.27
Ester Schmidt Rieder	C.P4.170, C.P4.224	Fabio Augusto Souza Ferreira	K.P1.26
Etienne GAUDIN	Q.OR9.26	Fabio Barboza Passos	D.P3.99
Etlen Neves Benezar	C.P2.65	Fábio Baum	Q.P2.38
Euclides Marega Junior	N.P3.92	Fabio Belluomo	P.OR4.12
Eudes Borges Araujo	I.OR2.5	Fábio Bossoi Vicente	W.P1.5, W.P2.24
Eudes Eterno Fileti	D.P2.46, D.P2.51	Fábio Cesar dos Santos	K.P2.43, M.P3.127
Eudes Leonnan Medeiros	AA.P1.16, C.P4.203, M.P3.119, WS1.P1.14, WS1.P1.7	Fabio Da Silva Lisboa	D.P2.61
Euglacyo Luiz de Moura	S.P4.228	Fábio de Lima Leite	O.P1.13, O.P1.24, O.P3.80
Eunice Fragoso da Silva Vieira	S.OR3.7	Fábio de Oliveira Carvalho	AA.OR3.8, AA.OR3.9
Euripedes Silva Junior	A.P3.63	Fábio Dondeo	WS1.P1.1
Euzebio Skovroinski	X.P2.68	Fábio Henrique Sales	M.P3.114, S.P3.127
Evaldo José Corat	D.P1.2, D.P1.28, Y.P3.64	Fábio Herbst Florenzano	N.OR5.20, X.P1.24, X.P1.25
Evandro Castaldelli	A.P2.28	Fábio José Caixeta	P.P2.16
Evandro Ivanov	K.P1.6	Fabio Luis Zabotto	I.P1.27
Evandro Martin Lanzoni	C.OR7.24	Fábio Luiz Pissetti	X.P1.12, X.P1.24, X.P1.25
Evânia Carvalho dos Santos	C.P1.32, C.P3.142	Fabio Machado Ardito	D.OR6.19
Evaristo Alexandre Falcão	I.P1.13, I.P1.25	Fabio Negreiros Ribeiro	Q.P2.30
Eva Rosker	A.OR3.11	Fabio Ofredi Maia	S.P4.184
Eveline de Robertis	C.OR1.3	Fábio Pereira Ramanery	C.P2.72
EVERALDO AFONSO FERNANDES	M.P1.19, M.P2.54, S.P1.29	Fabio Roberto Passador	C.P1.9, D.P2.58, D.P4.114
Everaldo Carlos Venancio	C.P4.219, D.P4.135	Fábio Rodrigues Pereira	C.P2.63, M.P1.39
Everton Carvalho dos Santos	IP1.3, Z.P1.9	Fábio Santana dos Santos	S.P3.117, WS1.P1.12
Everton Lima Andrade	M.P3.101	Fabio Santos da Silva	D.P1.28
EVERTON LUIZ MARTINS DA PAIXÃO	BB.P1.14	FABIO SANTOS DE SOUSA	M.P2.55, S.P1.14, S.P1.15, S.P1.16, S.P1.21
Evilane Cassia Farias	S.OR6.20, S.P4.167	Fabio Santos Lisboa	O.P1.39
Ezequiel de Souza Costa Júnior	Y.P1.14, Y.P3.91	Fabio Silva Queiroz	X.P1.16, X.P1.34
<b>F</b>		Fábio Simões de Vicente	O.P1.14, Q.P1.1, X.P1.23, X.P1.3
Fábia Fernandes Pinheiro da Costa	Y.P2.31	Fabio Telles Simões	Q.P3.72
Fabiana Barbosa Amaral Pereira Guimarães	W.P1.11, W.P1.12	Fabrice Leroux	F.OR3.11
Fabiana Pereira da Costa	Y.P3.83	Fabricia Assis Resende	M.P1.50
Fabiana Vieira Silva	C.P4.176	Fabrcio A. dos Santos	O.P1.28, T.P1.4
Fabiana Villela da Motta	A.P4.80, C.P1.30, C.P1.8, C.P3.120, C.P3.137, C.P4.207, C.P4.212, D.P4.111, D.P4.119, IP1.20, K.P1.28, N.P2.56, X.P1.20	Fabrcio Aparecido dos Santos	T.P1.3
Fabiane de Jesus Trindade	C.OR6.21, C.P4.162, P.P2.17	Fabrcio Augusto Sousa da Silva	S.P4.185
Fabiane Leocádia da Silva	S.P2.93, S.P2.94	Fabrcio Borges Carrerette	F.P1.5
Fabian Nima Ramirez	IP1.5	Fabrcio Bortolucci Zanardi	X.P1.15, X.P1.17, X.P1.18, X.P2.69
Fabiano Augusto Costa Mafra Passos	X.P2.57	Fabrcio Ogliari	Y.P1.10, Y.P2.35, Y.P3.68
Fabiano Bernardi	F.OR4.14, F.P1.11	Fabrcio Vinicius Andrade de Souza	M.P1.13, M.P1.14, M.P2.55
Fabiano Costa Sá	Y.P1.7	Fábulo Ribeiro Monteiro	D.P4.113
		Faili Cintia Tomsen Veiga	C.P2.63
		Falk Wolfgang Liebner	Y.OR4.13
		Fanny Béron	B.OR3.7, B.P2.36, B.P2.37
		Fanny Nascimento Costa	F.P1.5
		Fanny Rodolakis	Z.OR3.9, Z.P1.16
		Farayde Matta Fakhouri	S.P3.153, S.P4.211

Fatih Toptan	W.OR2.6, W.P1.23, W.P1.6		D.P4.118, S.P2.86
Fátima Aparecida Das Chagas	A.P4.96, X.P1.24	Fernanda Fogagnoli Simas Tosin	S.OR5.16
Fátima Aparecida das Chagas Silva	N.OR5.20	Fernanda Gabriel Freitas	F.P1.2, X.P1.11
Fátima Cerqueira	O.P2.69	Fernanda Gonçalves Basso	V.P1.13, V.P1.14
Fatima Salete Correra	A.P3.51	Fernanda Guerra Lima Medeiros Borsagli	J.OR5.16, K.P1.19
Fatma Sen	M.OR5.22	Fernanda H Borges	P.P3.21
Fauze Ahmad Aouada	C.P3.108, C.P3.122, C.P4.192, D.P4.126	Fernanda Isabelle Ditzel	S.P2.54
Federica Reinders	A.OR4.12	Fernanda Lanzoni Migliorini	C.P2.51
Felipe Andres Vidal	Y.P3.65, Y.P3.67	Fernanda Luíza de Sousa	Y.P2.46
Felipe Augusto Santiago Hansted	S.P2.50	Fernanda Meireles Hackbart	S.P2.60
Felipe Azevedo Borges	W.OR3.9, Y.OR2.5, Y.OR6.19, Y.P1.2, Y.P1.22, Y.P1.24, Y.P3.71, Y.P3.85, Y.P3.90	Fernanda Miotto	G.P2.58
Felipe Azevedo de Carvalho	M.P2.61	Fernanda Nunes Souza	P.P3.19
Felipe Barioni	P.OR2.6	Fernanda Poletto	C.P4.189, F.OR4.14
Felipe Barros Silva	M.P3.124	Fernanda R. Figueira	Y.P3.77
Felipe Caliani	M.P1.50	Fernanda Ribeiro Lemos	C.P4.143
Felipe Cemin	D.P2.44, D.P2.52	Fernanda Roberta Marciano	C.P3.139, D.P1.2, V.P2.21, V.P2.22, V.P2.32, V.P2.33, W.P1.2, W.P1.4, Y.P1.11, Y.P1.13, Y.P3.53, Y.P3.62, Y.P3.64, Y.P3.89, Y.P3.93
Felipe da Silva Barros	S.P4.224	Fernanda Rodrigues Silva	S.P2.69
Felipe da Silva Medeiros	D.P1.29	Fernanda S de Souza	V.OR3.10
Felipe Elan Silva	N.P2.53	Fernanda Vieira	D.P2.50
Felipe Fernando da Costa Tavares	S.P2.106	Fernando A. Castro	R.OR1.1, R.OR5.27, R.OR6.32, R.OR8.43, R.OR8.44, R.P1.3, R.P2.7
Felipe Gollino	J.P2.34	FERNANDO ALVES FERREIRA	A.P4.73, D.P3.100, D.P3.105, X.P2.64
Felipe Ianesko	C.P1.39, C.P1.41	Fernando Antônio de Sá	D.P2.40
Felipe Kairo de Sousa Lima	G.P2.44	Fernando Aparecido Sigoli	C.P4.215, N.OR2.4, N.OR2.8
Felipe Lange Coelho	Y.P3.69	Fernando A. Ponce	A.P1.15, Q.OR8.23, S.OR4.11
Felipe Leon Nascimento de Sousa	N.OR3.11, P.OR9.29	Fernando Barbosa de Freitas Silva	S.OR2.4
Felipe Luiz Queiroz Ferreira	D.P2.76	Fernando Benito-Lopez	O.OR6.22
Felipe Meneses Silva	A.P4.79	Fernando Carvalho Silva	C.P1.26, C.P1.43, C.P1.47
Felipe Mota Martins	Q.P1.24	Fernando César Lussani	Z.OR3.9, Z.P1.16
Felipe Parise Garpelli	D.P1.16, D.P1.8	Fernando Costa Basilio	V.P1.16
Felipe Pinheiro Teixeira	D.P4.129	Fernando da Silva Resis	G.P2.46, G.P2.47
Felipe Saura	S.P4.206	Fernando de Brito Mota	J.OR4.14
Felipe Silva Semaan	D.P2.48	Fernando Ely	WS2OR2.6
Felipe Souza Lopes	V.P2.21	Fernando Fabris	B.P2.26
Felipe Thomaz Aquino	P.P2.14, P.P2.16, P.P3.25	Fernando Gabriel da Silva Araújo	I.P1.18, S.P1.8, S.P2.94
Felipe Wallysson Ferreira de Oliveira	X.P1.10	Fernando Gabriel Oliveira	W.P1.13, W.P1.3, W.P2.40, W.P3.59
Felix Nickel	Q.OR6.17	Fernando Gabriel Silva ARÁUJO	S.P2.93
Fenelon Martinho Pontes	C.P2.71, C.P3.116, C.P4.166, C.P4.228, X.P1.20	Fernando Galembeck	D.OR1.3, J.OR2.7
Fergal J O'Brien	V.OR3.9	Fernando Gomes de Souza Junior	D.P4.139
Fermin Herrera Aragón	B.OR2.3, B.P1.2, C.P1.19	Fernando Graniero Echeverrigaray	D.P2.56
Fernanda Abbate dos Santos	Y.P3.86	Fernando Guzmán	D.P2.54, D.P2.77
Fernanda Aparecida Santos Pereira	Y.P3.53, Y.P3.62	Fernando Henrique Cristovan	A.P3.65, O.P3.102, O.P3.99, S.P3.148, Y.OR3.9, Y.P1.11, Y.P2.37
Fernanda Arruda Nogueira Gomes da Silva	X.P2.57	Fernando Iikawa	C.OR9.32, D.OR6.19
Fernanda Bispo dos Reis Di Iorio	S.P2.86	Fernando Irto Zanetti	M.OR3.12
Fernanda Buratti Costi	C.P2.52	Fernando Jose Antunes	M.P1.7
Fernanda Cândido França	AA.P1.4, S.P1.10, X.P1.29	Fernando José Costa Baratéla	Y.P3.93
Fernanda Carolina Gomes Barbosa	B.P1.14, B.P1.16, B.P1.3, B.P1.9		
Fernanda Cristina Anastacio	C.P4.167		
Fernanda da Costa Romeiro	A.P3.61, D.P1.31		
Fernanda Diamantino Azuma	C.P2.65, C.P2.74		
Fernanda Ferraz Camilo	C.P2.61, C.P2.68, C.P2.92,		

Fernando Josepetti Fonseca	WS1.P1.9	Flavio Horowitz	C.P1.22
Fernando Junior Quites	O.OR5.18	Flavio José Tomsen Veiga	C.P2.63
Fernando Lázaro Freire Jr.	D.P1.3	Flávio Junior Caires	M.P1.11, M.P1.17, Y.P1.26
Fernando Lázaro Freire Júnior	C.P3.115, C.P4.196, D.P3.94, WS1OR2.5	Flávio Makoto Shimizu	K.P1.25, O.P1.1, O.P1.15, O.P1.24, O.P2.46, O.P3.76
Fernando Leopoldo von Krüger	S.P2.93, S.P2.94	Flavio Pinto de Almeida Filho	X.P2.67
Fernando López Ortiz	M.P2.79	Flávio Santos Freitas	Q.P3.77
Fernando Maccari	K.P2.41	Flávio Silva Dias	D.P2.53
Fernando M. Araujo Moreira	C.P4.152	Flávio Souza Costa	C.P1.9
Fernando Matos Borges	C.P4.182, Y.P2.40	Flávio Yuji Assahi	M.P2.75
Fernando Mendizabal	G.P1.22	Florêncio Gomes de Ramos Filho	S.P3.110, S.P3.135
Fernando Oliveira	W.P1.23	Florian Meneau	F.P1.12, F.P1.9, F.P2.22, F.P2.31
Fernando Pelegrini	M.P3.102	Florian Pschenitzka	Q.P3.68
Fernando Pereira Sabino	G.OR2.4, G.OR3.8	Franceline Aparecida Lopes	O.P3.85
Fernando Rangel de Sousa	A.P1.12	Francesca Ciccullo	J.P1.2, J.P1.3
Fernando Reinoldo Scremin	Q.P3.60, Q.P3.61	Francesca DeRossi	R.OR5.26
Fernando Rogério de Paula	C.P2.67, C.P4.222, Q.P2.52, S.P2.70	Francesca De Rossi	R.OR6.28
Fernando Sato	G.OR5.13	FRANCESCA TATIANA ALBINO	S.P4.180, S.P4.191
Fernando Silva Reis	G.P2.46, G.P2.47, M.P3.113, Y.P2.40	Francesco Allegretti	J.P1.19
Fernando Silvio Souza	W.OR6.22	Francesco Di Giacomo	R.OR6.28
Fernando Soares Lameiras	S.P2.99	Francesco Enrichi	P.OR4.12
Fernando Valerio Idalgo Leite	AA.OR2.5	Francesco Giammanco	WS1OR2.5
Fernando Vargas	EXPOR2.4	Francesco Quochi	O.OR5.17
Fiana Gomes da costa	S.P1.17	Francesco Scotognella	P.OR4.11
Fiammetta Nigro	Y.P1.3	Francesco Zerbetto	A.OR4.12
Fidel Guerrero Zayas	A.P1.14, A.P1.21	Franciana Pedrochi	N.P1.1, N.P1.11, N.P1.12, N.P1.15, N.P1.3, N.P1.5, N.P1.6, N.P1.7, P.P1.2, P.P1.3
Filipe Dione Souza Gorza	K.P2.47, N.P3.79	Franciele Carlesso	S.P4.218
Filipe Emerik Marques	S.P2.68, S.P2.69	Francielle Neves de Carvalho Capella	Y.P3.52
Filipe Martel Magalhães Borges	C.P1.48	Francielli de Oliveira Lobato	F.OR4.14
Filipe Samuel Silva	K.P2.44, W.P2.45, W.P3.56	Francimario dos Passos Silva	V.P2.29
Filipe Signorelli	K.P1.12	Francine Aline Tavares	A.P3.63
Filipe Vargas Ferreira	D.P2.71, D.P2.72	Franciné Alves Costa	AA.P1.5, D.P3.79, D.P4.110
Filipi Marques de Souza	L.P1.1	Francineide Lopes de Araújo	O.P3.86
Filip Tuomisto	R.P2.9	Francine Perri Venturini	T.P1.3
Fiorenzo Vetrone	N.P3.94	Francine Ramos Scheffer	Q.P3.65
Flanelson Monteiro	C.P1.8	Franciscarlos Gomes da Silva	C.P4.160
Flávia Almada do Carmo	Y.P1.21	Francisco Alberto Alencar Miranda	K.P2.55
Flávia da Silva Barbosa	X.P2.41	Francisco Anderson de Sousa Lima	R.P1.2
Flávia de Andrade Lima Tavares	Q.OR8.21, Q.P3.65	Francisco Augusto Tourinho	C.P2.55, C.P4.160, J.P2.30, L.OR2.3
FLÁVIA DE MEDEIROS AQUINO	C.P4.200, C.P4.204	Francisco Carlos Lavarda	Q.P1.10, Q.P1.27
Flávia Fernanda Machado Monteiro	S.P3.150	Francisco Carlos Salomão	C.P4.213
Flávia Fontes Pereira	T.P2.9	Francisco Carlos Serbena	W.P1.16
Flávia Melo de Lima	D.P3.102, D.P3.107	Francisco Cavilha Neto	K.P2.38, K.P2.41, K.P2.58
Flavia Tavares	Q.P3.56	Francisco das Chagas Marques	Q.P1.4, Q.P2.29, Q.P2.46
Flavio Augusto Cavadas Andrade	S.P4.202	Francisco da Silva Matias	A.P4.78, A.P4.81, N.P3.68, WS2.P1.7, Y.P3.82
Flávio Camargo Cabrera	A.P1.11, A.P3.59, BB.P1.1, S.P4.207	Francisco Eduardo Gontijo Guimarães	A.OR1.3, O.P2.61, O.P3.72, O.P3.73, O.P3.74, Q.P1.23
Flávio Colmati Junior	C.P1.7	Francisco Ferreira de Sousa	Z.P1.7, Z.P1.8
Flavio Franchello	A.P2.36	Francisco Gil Coury	AA.OR3.7
Flávio Francisco Ivashita	B.P2.40, M.P1.29, M.P1.33, M.P1.38, M.P3.131, Z.P1.11	Francisco Gracia	C.P2.53, Q.P3.58, X.P1.30
Flavio Garcia	B.P2.23, B.P2.32	Francisco Hering	Q.P3.78
Flavio Gustavo Ribeiro Freitas	J.OR2.4		

Francisco Holanda Júnior	D.P1.35
Francisco Homero Sánchez	B.OR2.5
Francisco Ivan Silva	G.P2.47
Francisco Javier Culchac	D.P1.17, D.P2.75
Francisco Jose Correa Braga	W.OR4.14
Francisco Leonardo Gomes de Menezes	X.P2.45
Francisco Manoel dos Santos Garrido	S.P3.129, X.P2.57
Francisco Marcone Lima	Q.P1.21, Q.P1.24
Francisco Montero	T.P3.18
Francisco Moura Filho	C.P1.34, C.P1.37, N.P3.64
Francisco Nivaldo Aguiar Freire	Q.P1.21, Q.P1.24
Francisco Nunes de Souza Neto	C.P3.101
Francisco Palacios Fernandez	N.OR5.20
Francisco Restrepo	Z.OR3.9
Francisco Riccelly Feitosa	AA.P1.16
Francisco Roberto dias de Freitas	S.P3.123
Francisco Rosendo Sobrinho	S.P2.104
Francisco Sanz Rodriguez	N.P3.94
Francisco Sávio Mendes Sinfronio	C.P1.26, C.P1.43, C.P1.47
Francisco Silva Matias	N.P3.66, N.P3.67
Francisco Wendel Cipriano de Oliveira	Q.P1.21
FRANCISCO WENNER DE SOUSA DA SILVA	K.P2.55, S.P3.143, S.P3.145, S.P3.147
Francisco Xavier de Campos	M.P1.11, M.P1.17
Francisco Xavier Nobre	C.P3.128, C.P4.173, C.P4.182, K.P2.55
Francis Ndi	P.OR9.26, P.OR9.27
Franck Carreiras	W.OR6.19
Franck D'Agosto	D.P4.130
Franck Tesssier	Q.P1.17
Franco Dani Rico Amado	K.P1.13, K.P1.14, K.P1.8, K.P1.9, S.P1.6, S.P2.66, S.P2.67, S.P2.79, S.P2.80
Franco Decker	Q.P1.8
François Chéviré	Q.P1.17
Françoise Toledo Reis	Q.P2.31, Q.P3.74
Francys Kley Vieira Moreira	S.OR3.10, S.OR5.17
Frank Alain Nüesch	Q.OR6.15
Frank Nüesch	A.OR2.7
Frank Schwierz	D.OR2.6
Fransico Ferreira de Sousa	O.P2.60
Fransisco Calderón Piñar	I.P1.23
Frédéric Joucken	A.OR6.21
Frederico Alves Revoredo Júnior	B.P1.10
Frederico dias	S.P4.226
Frederico Orlandini Keller	K.P2.59
Frederico Pereira Lobo	S.P2.66, S.P2.79
Frederico Pittella	Y.OR4.14
Frederico Séllos Mattoso	C.P4.155
Frederik C. Krebs	R.OR1.6, R.OR4.23, R.OR7.38
Fred J. Litterst	B.P1.12
Fredrik Von Kieseritzky	Q.P1.14, Q.P1.7
Fredy Niño	S.P3.130
<b>G</b>	
Gabriela Barbosa Bruno	S.OR6.20, S.P4.167
Gabriel Abelha Carrijo Gonçalves	S.P2.65
Gabriela Byzynski Soares	C.P2.67
Gabriela Cordeiro Silva	S.OR3.9
Gabriela Fátima Santana-Melo	Y.P3.89
Gabriela Gava Sonai	Q.P2.35, Q.P2.46
Gabriela Laranjo	M.P1.5
Gabriel Almeida	A.P3.55
Gabriela Luchtenberg Plautz	C.OR6.22
Gabriel Alves Gomes	C.P1.28
Gabriela Oliveira Dogado	W.P1.16
Gabriela Oliveira Galvão	C.P4.200, C.P4.204
Gabriela Paula Cavalcanti	C.P4.159
Gabriela Piovesan Santiago Suárez	W.P2.24
Gabriela Ribeiro Pereira	G.P2.42, M.OR5.20, M.P1.31
Gabriela Viana Araujo	BB.P1.2
Gabriel Braga Regattieri Sampaio	G.P2.53
Gabriel Burlandy Melo	C.P2.88
Gabriel Cabrera Pasca	C.P2.60, LP1.5, JP1.7
Gabriel de Andrade V. Camargo	M.P2.77
Gabriel dos Santos	C.P4.167
Gabriel Giannini de Cunto	M.P3.120
Gabriel Guterres Marmitt	C.OR5.17, C.P2.69
Gabriel Haas Pires	N.P1.19
Gabriel Kossaka Macedo	Q.P1.25
Gabriel L. C. de Souza	N.P1.25
Gabriel Leonardo Magrin	W.P3.57
Gabriel Leonardo Nogueira	BB.P1.15, O.P1.17, O.P1.18, O.P2.55, O.P3.75, O.P3.77
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Gabriel Marques Rosa	S.P3.150
Gabriel Neves	D.P3.88
Gabriel Platenik	C.P3.99
Gabriel Ramos	R.P2.12
Gabriel Tomé Vilela	A.P1.10
Gabriel Victor Simões Dutra	C.P2.85, G.P2.61, S.P2.89
Gabriel Volkweis Leite	K.P1.32
Gaëlle Creff	X.OR3.7
Gaël Poirier	A.P2.37, N.OR4.15
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Geanso Miranda de Moura	F.P2.17, X.P1.32, Z.P1.1, Z.P1.10, Z.P1.3, Z.P1.5, Z.P1.6
Gebrand Ceder	G.OR6.18
Gedeon Silva Reis	M.P1.9
Gehan A. J. Amaratunga	D.OR2.4
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Geisa Nogueira Salles	Y.P3.53, Y.P3.62
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Gelson Luís Adabo	V.P1.13	M.P2.80, M.P2.83, M.P2.84, M.P3.103, M.P3.90, M.P3.91, M.P3.92, M.P3.95, M.P3.97, W.P1.15
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Genivaldo Júlio Perpétuo	Z.P1.18	
George Alves do Nascimento	Y.OR5.17	
George F. A. Dibb	R.P1.3, R.P2.7	
George Malliaras	O.P3.90	
George M. Junior	O.P2.69	
George Nicolas Kontogiorgos	F.P2.25, F.P2.26	
George Paes de Barros	A.P1.12, A.P2.39, A.P3.53	
Georg Heimel	J.OR4.13	
Geórgia Batista Lima	N.P1.20	
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Geovânia Cordeiro Assis	X.P2.68	
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Geraldo Mathias Ribeiro	A.P1.23	
Gerardo Salas	P.OR2.4	
Gerhard Gobsch	R.OR8.41	
Germà Garcia-Belmonte	R.P1.5	
GERMANA M M SILVA	Q.OR8.21, Q.P3.56, Q.P3.65	
German Bridoux	B.OR5.15	
Germano Tremiliosi-Filho	M.OR4.14	
Gernot J. Kraberger	O.OR1.1	
Geronimo Perez	C.P4.197, M.P3.121	
Gerson Alberto Valencia Albitres	S.P3.132	
Gerson Luiz Mantovani	AA.OR2.6, C.P4.219, D.P4.135	
Gert Nolze	C.OR5.15	
Geruza Rafaela de Oliveira	S.P1.24	
Gesa Patzelt	K.P2.56	
GÉSSICA PADILHA DE SOUZA	S.P1.33	
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Giancarlo C. Righini	P.OR4.11, P.OR5.13	
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Gian Duarte	W.P3.75	
Gianfranco Melo Stieven	M.P1.15	
Gianluigi Botton	C.OR2.7, V.OR2.4	
Gilbert Bannach	Y.P1.26	
Gilbert G Lonzarich	Z.OR3.8	
Gilberto Alexandre Castello Branco	M.P2.61	
Gilberto Campos Fuzari Junior	D.P1.32, D.P1.33	
Gilberto Carvalho Coelho	M.P1.28	
Gilberto Dantas Saraiva	Z.P1.7, Z.P1.8	
Gilberto Falk	C.P3.103	
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Gilvan Pozzobon Pires	K.P2.63, N.OR2.7	
Gina Pecchi	X.P2.63	
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Giordano Poneti	A.OR4.14, B.OR5.14	
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Girlene Gonçalves do Nascimento	C.P3.120, I.P1.20	
Girolamo Mincuzzi	R.OR6.28	
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Gisela M. Rosas Helou	Y.P3.73	
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Giulia Karoline Barros Bloch	S.P4.157	Grzegorz A Potoczny	Q.OR3.8, R.OR4.20, R.OR7.35, WS2OR2.9
Giulia Lucarelli	R.OR6.28	G. Snopatin	P.P1.9
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Graham Morse	O.OR4.14, R.OR4.21, R.P2.10	Guorong Li	J.OR3.11
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Gustavo Gabriel Percília	N.P2.36	Heinz Amenitsch	X.OR5.10
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Hamilton Ferreira Gomes de Abreu	M.OR2.7, M.OR2.8	Hena Lissa de Sousa Medeiros	D.P3.102, D.P3.107
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Harald Haas	Q.OR1.1	Henri Ivanov Boudinov	C.P2.69, K.P1.32, N.P1.19
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Harold Camargo Ávila	O.OR3.10	Henrique Brasil	S.P4.188
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Haruhi Oooka	R.OR4.18	Henrique Guimarães Rosa	D.OR3.7
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Hudson Loch Haskel	M.P3.129	Igor Alencar Vellame	N.OR3.12
Hudson Gomes Evangelista	G.P2.46	Igor Alexsander Barbosa Magno	M.P1.13, M.P1.14, M.P2.55
Hudson Wallace Pereira Carvalho	F.OR3.11	Igor Barbosa Catellani	I.OR1.1
Hugo Alvarenga Oliveira	D.P3.99	Igor Bdikin	I.OR2.5
Hugo Bonette de Carvalho	A.P3.66, B.P2.33, B.P2.35	Igor Belone	S.P1.40
Hugo Borges de Quadros	D.P3.84, J.P1.12	Igor Carvalho	C.OR4.14, EXPOR2.5, P.OR9.26, P.OR9.27
Hugo Bronstein	R.OR7.36	Igor Colado Porto Martins	M.P2.63
Hugo C. Braga	O.P3.100	Igor Fier	IP1.3, Z.P1.9
Hugo Costa Moreira	S.P1.29, S.P1.31	Igor Frota de Vasconcelos	Q.P1.24, Q.P3.63, R.P1.2, S.P4.186
Hugo Gallardo	O.P3.100	Igor Frota Vasconcelos	IP1.12
Hugo Garcia Lemes	M.P1.46	Igor José Cherubin	A.P1.24, C.P3.102, D.P2.64, IP1.2, IP1.8, S.P4.199
Hugo José Dias Mello	O.P1.16, O.P1.3	Igor Mauricio Paulino	S.OR6.20, S.P4.167
Hugo Luis Fragnito	D.OR3.7	Igor Medeiros Assis	F.P2.27
Hugo Marcelo Ruiz	D.P2.77	Igor Renato Bueno Ribeiro	B.P1.4
Hugo Marcelo Veit	Q.P1.6, S.OR1.2	Igor Ricardo Prado da Silva	M.P1.19, M.P1.20
Hugo Santos Silva	O.OR4.14, R.P2.10	IGOR RUIZ-TAGLE	A.P2.30
Hugo Thienpont	P.OR6.17		
Huihong Liu	W.OR1.1		
Humberto Andrade Carmona	L.OR2.4		
Humberto Dionisio de Andrade	J.P2.23, X.P2.45		
Humberto Medeiros Barreto	Y.P1.20		
Humberto Vieira Fajardo	S.P2.49		
HUNOS PAIXÃO MADUREIRA	O.P1.26		
Hunter McDaniel	Q.OR5.12		

Igor V. Skripachev	P.P1.9	Isolda Costa	S.P1.32
Igor Yamamoto Abe	C.OR8.30, D.P1.25	Israel Ferreira da Costa	N.OR2.7, N.P3.88
Imalka Jayawardena	R.OR6.31	Israel Lorite	B.OR5.15
Inara de Aguiar	N.P1.25	Israel Pereira Assunção	N.P3.84
Indhira Oliveira Maciel	G.OR5.13, O.OR3.11	Israel Rosalino	G.P1.32
Indianara Alves Fernandes	C.P1.48	Issac Montoya	B.P1.15
Ineida Maria de Oliveira e Silveira	Q.P2.47	Italo Cruz Pacheco	T.OR3.10, T.P3.17
Inês Pereyra	D.P1.25	Italo Odone Mazali	C.P4.215, N.OR2.4, N.OR2.8
Ingrid Beatriz Costa	D.P1.29	Italo P. de Lima	G.P2.34
Ingrid Gomes de Lima	N.OR3.10	Itamara Farias Leite	Y.P3.76
Ingrid Pinheiro Rocha	M.P1.9	Ithyara Machado Medeiros	S.P4.200
Ingrid Vieira Fernandes Monteiro	C.P4.154, D.P4.134	Iulia Brumboiu	R.OR3.15
Inhaudis Calzada Pompa	M.P3.123	Iuri Stefani Brandt	B.OR3.10
Inmaculada Martínez	A.P1.21	Iustyna Vasilchenko	P.OR4.10
Inna V. Khristenko	K.OR6.18	Ivaír Aparecido Santos	I.OR1.1, I.OR1.3, I.OR2.8, I.P1.1, I.P1.10, I.P1.11, I.P1.14
Inocente Rodríguez-Iznaga	F.P2.30	Ivaldo De Domenico Valarelli	L.P1.3, L.P1.5, M.P3.128, S.P3.151
Iolanda Cristina Justus Dechandt	W.P1.16	Ivana Aguiar	A.P2.27, A.P2.34, A.P3.56, Q.P2.42
Iouri Borissevitch	O.OR5.16	Ivana Cesarino	A.P4.89, D.P4.115, S.P1.30
İpek Nakaş	M.OR5.22	Ivana Lourenço de Mello Ferreira	X.P2.62
Iran Ferreira da Silva	N.P1.20	Ivana Morais Geremias de Andrade	X.P1.21
IRENE TERESINHA SANTOS GARCIA	C.P1.42, C.P1.45, N.P1.19	Iván Dario Velez	C.P4.227
Irfan Ahmed	R.OR6.28	Ivan Dias	O.P3.82
Irina Marinho Factori	C.P4.223	IVAN FERREIRA DO NASCIMENTO	K.P2.55, S.P3.143, S.P3.145, S.P3.147, V.P1.17
Irineu Hattenhauer	D.P2.74	Iván García-Fornaris	M.P3.123
Iris Oliveira da Silva	A.P4.92	Ivan Guide Nunes da Silva	N.OR2.5
Isaac Aarón Frías	N.OR6.24, N.P3.93	Ivan Guide Nunes Silva	N.P3.63
Isaac Kleymer Dantas de Oliveira	C.P4.187	Ivan Guillermo Solórzano-Naranjo	B.OR5.16, C.P3.100, C.P4.175, C.P4.197, M.P2.62, M.P3.125, S.P2.90
Isaac Pericles Maia Medeiros	M.P2.85, S.P1.23, S.P2.47	Ivan H. Bechtold	O.P3.100, O.P3.104
ISABELA CUSTÓDIO MOTA	AA.P1.10, AA.P1.10, AA.P1.13	Ivete Peixoto Pinheiro	M.OR6.25, S.P4.203
Isabel C. F. Silva	M.P3.122	Ivo Mateus Pinatti	N.P1.16
Isabel Correa Guedes	S.P2.80	Ivo Milton Raimundo JR	N.OR2.8
Isabel Correia Guedes	S.P1.6	Ivo Mottin Demiate	S.P2.54
Isabel C. S. Carvalho	C.P3.135	Ivonaldo Batista Silva	C.P3.117
Isabel de F. Simões	S.P3.129	Ivone Regina de Oliveira	W.P1.17, W.P3.63
Isabel Galain	A.P2.34, Q.P2.42	Ivonete Oliveira Barcellos	K.P1.7
Isabella Pereira Alkimim	F.P1.6	Izabel Cristina Riegel-Vidotti	C.OR9.34
Isabelle Cornelsen Sampaio Lima	C.P4.172	Izabel Fernanda Machado	B.OR2.6, M.P3.123
Isabel Muñoz	D.P2.77	Izabelle de Mello Gindri	F.P2.18
Isabel Silva Chaves Carvalho	W.P2.47	Izabel Riegel Vidotti	S.OR5.16
Isabel Souza Arruda	C.P3.132, C.P4.202, C.P4.226	IZA NATÁLIA QUEIROZ ARRUDA	Y.P3.104, Y.P3.78
Isadora Cabral Pinto	Y.P1.21	Izaura Cirino Nogueira Diógenes	K.P1.15
Isadora Schramm Deschamps	W.P3.57, WS1.P1.13		
Isadora Tozetti	Y.P2.39		
Isaias Hernández Pérez	C.P4.149		
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Isaltino Alves Barbosa	X.P1.15, X.P1.17, X.P1.18, X.P2.69		
Isamara Ferreira da Silva	Y.P1.7		
Isaura Zanini Mergen	WS1.P1.6, WS1.P1.8		
Isis Vasconcelos	N.OR5.20		
Ismael Jose Gonzalez	B.P1.2		
Ismael Leandro Graff	C.OR6.22		
Ismail Daoud	G.P1.14		
		<b>J</b>	
		Jacek Jasieniak	Q.OR5.11
		Jacek Zmojda	P.OR5.13
		Jaciele Marcia Rosso	I.OR2.8
		Jackeline Barbosa Brito	D.P2.62, D.P2.63, D.P2.65
		Jackeline Macêdo de Sousa Santos	M.P3.110

JACKSON ANDSON MEDEIROS	A.P3.71, C.P3.117	Janiny Nunes Lacerda	C.P1.15, C.P1.20
Jacqueline Costa Marrero	S.P3.118, S.P3.133	Janire peña bahamonde	Y.P3.88
Jacqueline Ferreira	A.OR5.17, K.P1.29, Q.P3.59	Jan Kroon	R.OR2.8
Jacqueline Morais da Costa	S.P1.41, X.P2.60, X.P2.65	Jan Mescher	O.OR4.13
Jacques Huot	Q.OR9.24, Q.OR9.25	Janne Halme	R.OR2.11
Jacques Werckmann	G.OR1.2, J.P1.16, V.OR2.5, V.OR2.7, W.OR5.17	Jan-Ole Joswig	K.OR2.4, K.OR3.8
Jacson Silva Morais	C.P4.164	Janos Kalmar	WS2OR3.10
Jade Alejandrina Galicia-Apolinar	S.P1.11	Janykelly Gonçalves Moitinho	Z.P1.7
Jader Silva Barbosa	AA.P1.11	Jaqueline Alves Coelho	O.P2.64
Jaderson Araujo Barros Barbosa	A.P4.78, A.P4.81, N.P3.66, N.P3.67, N.P3.68, WS2.P1.6	Jaqueline Dias Altidis	J.P1.8
Jadis Junior De Santis	O.P3.80	Jaqueline Dias Senra	K.P1.4
Jadna Catafesta	C.P1.33	Jaqueline Oliveira Sanches	A.P3.65
Jailma Barros dos Santos	D.P4.134	Jaqueline Pérola Souza	T.P1.2, T.P1.4
Jailson Arruda de Araújo	F.P1.6	Jaqueline Soares	O.P2.49
JAILSON DOS SANTOS SILVA	A.P4.73, D.P3.100, D.P3.105, O.P3.95, X.P2.64	Jardel Meneses Rocha	A.P3.57, C.P4.145
Jailton C Damasceno	C.OR5.16	Jarem Garcia	S.P2.70, S.P3.117, WS1.P1.12
Jailton Romão Viana	N.P3.76	Javier Amaya Suárez	Q.P3.75
Jaime F de Oliveira	Z.OR3.8	Javier Andrés Munoz Chaves	M.P2.68
Jaime Moncada	G.P1.20, S.P3.130	Javier Fdez. Sanz	G.OR2.3, Q.P3.75
Jaine Webber	J.P2.33	Javier García	B.OR3.7
Jair Fiori Junior	BB.P1.3, D.P4.142	Javier Mazariegos Pablos	S.P4.221, S.P4.222
Jair Francisco Souza Magalhães	S.P1.14, S.P1.15, S.P1.16, S.P1.21	Jayant Kumar Singh	K.OR2.5
Jairo Arturo Escobar	C.P3.103	Jayne Carlos de Souza Barboza	A.P2.25
Jairo Tronto	F.P2.31	Jean Carlos Dantas	D.P3.79, D.P4.110
Jairton Dupont	B.P2.27, F.P1.11	Jean Carlo Souza	Z.P1.13
Jaisson Potrich Reis	S.P3.139, S.P4.156	Jean Claude M'Peko	IP1.4, P.P3.20
Jake Fontana	C.P3.135	Jean Cleber Bertoni	C.OR5.18, C.P1.27
JAKELINE DANIELA SOARES DA SILVA NASCIMENTO	C.P3.130, C.P4.186, S.OR1.3, S.P4.217	Jean da Silva Rodrigues	K.P1.30
Jakob Heier	A.OR2.7	Jean-Guillaume Eon	G.OR1.2
Jakob Kjelstrup-Hansen	G.P1.31, O.OR5.17, O.P1.38, O.P2.48	Jeanini Justi	L.P1.11, L.P1.2, L.P1.6
James C. Blakesley	R.P1.3	Jean Jacques Bonvent	W.P3.50, W.P3.53
James Durrant	R.OR7.36	Jean-Louis Bantignies	X.OR3.7
James Venturini	C.P2.71, C.P4.228	Jean-Louis BOBET	Q.OR9.26
Jana Christina Reisig	S.OR4.12	Jean-Luc Gardette	O.OR4.14
Janaina Bastos Depianti	E.P1.2	Jean Lui Salazar Cuaila	B.P1.21
Janaina Campos Garcia	T.P3.19	Jean-Marie Dubois	AA.OR1.2, AA.P1.17
Janaina Gomes	EXPOR3.6	Jean-Marie GEORGE	B.OR4.11
Janaina Sehnem	S.P2.56	Jean-Marie Nedelec	Y.OR4.13
Janaina Versiani dos Anjos	N.OR6.23	Jeann César Rodrigues	C.P4.147
Janaina Viana de Melo	C.P4.206	Jeannette Dexpert-Ghys	P.P2.15
Jandecy Cabral Leite	S.P2.95, S.P2.96, S.P2.97, S.P2.98	Jean-Pierre Celis	W.P2.36
Jandeilson Lima Moura	N.OR2.7	Jean Rinkel	F.OR2.7, F.P1.12
Jandir Telleria Colque	W.P3.50	Jean Silva Rodrigues	S.P1.43
Janete Eunice Zorzi	J.P2.33	Jeferson A Moreto	J.P1.1, M.P1.5
Janice Adamski	B.P2.27	Jéferson Aparecido Moreto	J.P2.32, M.P3.130
Janiele Mayara Ferreira de Almeida	K.P1.23	Jeferson Ferreira de Deus	O.P2.47
Janine Ferra Vieira de Almeida	D.P3.88	Jeferson Freitas	Q.OR3.8, R.OR4.20, R.OR7.35, WS2OR2.9
Janine Rachel Viscardi	B.P2.27	Jeferson Leandro Klug	M.OR2.7, S.P4.186
		Jefferson Bettini	C.OR1.1, N.P1.26
		Jefferson Carnevalle Rodrigues	V.P1.1
		Jefferson da Silva Martins	BB.P1.14, O.P3.101
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Jefferson Luiz Fonseca Silva	G.P1.19	Jhonata Jesus Silva	G.P1.19
Jeff Kettle	Q.P1.20, R.OR8.42	Jhonatam de Oliveira Carvalho	Z.P1.3, Z.P1.5, Z.P1.6
Jeffrey M Pietryga	Q.OR4.10	Jhonatan Steffens Brandão	C.OR7.24, C.P3.98, Q.P2.34, Y.P3.77
Jeffrey Sowards	M.OR2.4	Jhulia Mulato	X.P2.49
Jeilce Maria Abreu dos Santos	O.P2.49	Jhuliana da Silva Santanna	Z.P1.8
Jelver Alexander Sierra Restrepo	Y.OR4.14	Jiale Wang	C.OR6.21
Jenaina Soares Ribeiro	S.OR5.14	Jiandi Zhang	J.OR3.11
Jeniffer Figueira	C.P2.73	Jiang Kai	N.OR1.3
Jenny Baker	R.OR5.26	Jilder Dandy Peña Serna	B.P2.27, D.P4.133
Jenny Jouin	M.P2.86	Jilian Nei de Freitas	D.P1.27, O.OR5.18, Q.P2.44
Jenny Nelson	R.OR2.9	jimmy llontop incio	T.P1.5
Jenny Sayaka Komatsu	EXPOR3.8	Jiri Kujala	R.P2.9
Jenny Schneider	Q.OR7.19	Jiri Pospisil	Z.P1.2
Jeovani Brandão	B.P2.23	Ji-Seon Kim	R.OR3.14, R.OR7.36
Jerfson Moura Lima	S.P2.104	Jivago Vieira Muniz da Silva	M.P1.10, M.P1.21
Jeroen Schoenmaker	C.P1.25	J.M Yañez Limón	I.P1.23
Jérôme Borme	O.P2.69	Joabel Raabe	C.OR8.31
Jerome Depeyrot	C.P2.55, C.P4.160, J.P2.30, L.OR2.3	Joab Serra Rodrigues da Silva	A.P4.73, A.P4.83, A.P4.93, D.P3.100, D.P3.103, D.P3.105, O.P3.95, X.P2.64
Jerome Fresnais	F.P1.7	Joacir Santos	F.P1.12
Jerre Cristiano Alves dos Santos	N.P3.85, N.P3.86	Joamir Henrique da Silva	S.P4.182
Jerrold Anthony Floro	A.OR3.11	Joana I Silva	W.OR2.6
Jerzy Hanuza	O.P1.5	Joana Mesquita Guimarães	W.P2.45, W.P3.56
Jes Linnet	O.P1.38	Joana V Pinto	A.P2.38, C.P2.96
Jessiana Avelar Lima	M.P2.54	Joanna Bassotto Zani	X.P2.55
Jéssica Ariane Oliveira	C.P3.109	JOÃO ALBERTO SANTOS PORTO	AA.P1.14, M.OR4.15
Jessica Colnaghi Fernandes	J.P1.5	João Alves Sampaio	X.P2.57
Jéssica Cristina Costa de Castro	M.P1.40	João Alziro Herz da Jornada	D.P2.62, D.P2.63, D.P2.65
Jéssica de Matos Fonseca	Y.P3.57, Y.P3.58	João Andrade de Carvalho Jr.	S.P3.144
Jéssica Dornelas da Silva	V.OR2.6, V.P2.27, V.P2.28	João Antonio Oliveira Santos	N.P2.57
Jéssica Eliza Silva Fonsaca	D.P2.45	João Antonio Pessoa Silva	S.P2.106
Jessica Fernanda Affonso de Oliveira	X.P1.7, Y.OR1.3	João Arthur Lunau Batalha	S.P4.179
Jéssica Fernanda Baretta	T.P1.2, T.P1.4	João Augusto Guedes Oliveira	W.P2.35, W.P2.38
Jéssica Florentino	D.P4.115	João Batista Lopes Martins	G.P1.5, G.P2.34
Jessica Gonçalves da Silva	WS1.P1.10	João Batista Moura de Resende Filho	K.P2.63, N.P3.88
Jéssica Helisa Hautrive Rossato	D.P4.135	João Batista Rodrigues Neto	C.P3.103, K.P2.58
Jessica Marins	J.P1.17	João Batista Santos Barbosa	C.P3.106
Jéssica Monteiro Dias	N.P2.38, N.P2.39, N.P2.40, N.P2.60	João B. Floriano	O.P2.64
jessica oliveira lima vianna	P.P3.19	João Bosco Oliveira Lucena	I.P1.21
Jéssica Oliveira Rodrigues	C.P1.47	João Carlos Fernandes	I.P1.3, Z.P1.9
Jéssica Raquel M. B. da Silva	Y.P3.76	João Carlos Krause	G.P1.9, M.P1.32
Jessica Wade	R.OR7.36	João Carlos Salvador Fernandes	M.P1.5
Jessyka Carolina Bittencourt	A.P2.41, BB.P1.1, BB.P1.11, BB.P1.6, BB.P1.9	João Cura D'Ars de Figueiredo Junior	C.P2.59
Jesualdo Luiz Rossi	S.P1.32	João Edgar Schmidt	C.OR3.11
Jesus De la Cruz	D.P1.21	João Emílio de Castro Pistelli	M.P1.46
Jesús González-Hernández	A.P1.1, C.OR9.36	João Fernando Villarrubia Lopes Munhoz	WS1.P1.5
Jesus Graciani	G.OR2.3	João Francisco de Carvalho Neto	G.P1.29
Jheimison Ferreira Gomes	N.P1.3, N.P1.5, N.P1.7, P.P1.3	João Gabriel Albano	W.P3.74
Jhon Alexander Peñafiel	Q.P3.73, Q.P3.76	João Gaspar	WS1OR2.3
		João Gilberto Texeira Silva	D.P3.81
		João Henrique de Assunção Vieira	M.P2.76
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João Henrique Zimnoch Dos Santos	F.OR1.3, F.P1.3, X.OR3.6, X.P2.50	D.P3.105, O.P3.95, X.P2.64
Joao Jarllys Nobrega de Souza	S.P3.120, X.P1.5, X.P2.40, X.P2.54, Z.P1.14	S.OR2.5
João Leno Antônio de Sousa	N.P3.70	Joice Terra
João Manoel Barbosa Pereira	C.P4.218, M.P1.31, T.P1.5	M.P1.26
João Marcos de Andrade	M.P3.118	Jonas dos Santos Sousa
João Marcos Gonçalves	N.OR1.1, N.P2.41	A.P4.73, A.P4.83, A.P4.93, C.P1.5, D.P3.100, D.P3.103, D.P3.105, O.P3.95, X.P2.64
João Marcos Madurro	D.P3.95	Jonas Koppe
João Maria Soares	B.P1.19, B.P1.20, D.P1.35	N.P2.45
João Mariz Guimarães Neto	K.P2.55, O.P1.20	Jonas Mendes
João Marques Cordeiro	G.P2.48, Q.P2.36	M.P2.80, M.P3.90, M.P3.91, M.P3.92, M.P3.95, M.P3.97, W.P1.15
João Otávio Caffareza Fillizzola	Y.P3.61	Jonatan Lincoln Oliveira Buske
João Otávio Donizette Malafatti	C.P3.112, C.P4.148, C.P4.161, C.P4.165	WS1.P1.6, WS1.P1.8
João Paulo Almeida de Mendonça	G.OR5.13	Jonatas Rafael Oliveira
JOÃO PAULO ALVES SILVA	S.P4.174	V.P2.21
JOÃO PAULO CARVALHO	N.OR5.16, Y.P2.34	Jonatas Zamboim de Vasconcellos
João Paulo Carvalho Alves	Q.P2.44	X.P1.1
João Paulo da Silva Queiroz Menezes	S.P3.135	Jonathan Correa
João Paulo de Campos da Costa	A.P2.43, A.P4.82	K.P2.64
João Paulo Saraiva Morais	C.P4.171	Jonathan R. Brewer
João Paulo Sinnecker	B.P2.32, I.P1.16	O.P2.48
João Paulo Vita Damasceno	C.P4.215	Jonathan Ribeiro Campos
João Pedro Aquiles Carobolante	W.P3.52, W.P3.58, W.P3.71	D.P2.48
João Pedro Tosetti	M.P3.93	Jonathan Rivnay
João Roberto Moro	D.P1.30	O.P3.90
João Sinézio de Carvalho Campos	O.P2.59	Jonathas Luis Groetares Ferreira
João Tadeu Ribeiro-Paes	Y.P3.71	G.P2.50
Joao Thiago de Guimaraes Anchieta e Araujo Campos	K.P1.13, K.P1.14	Jonathas Paula Siqueira
João Victor Morelli	M.P1.46	P.OR2.5
João Victor Narducci Ferreira	V.P1.12	Jonder Morais
João Vítor Paulin	A.P2.32	C.P2.56, F.OR5.18
João Xavier de Araújo-Júnior	C.P4.154	Jordi Martorell
Joaquim Agostinho Moreira	I.P1.19	R.OR7.34
JOAQUIM BRASIL FILHO	O.OR3.9, O.P1.11	Jörg Ackermann
Joaquim Teixeira Assis	M.P1.2	R.OR1.7, R.P1.5
Joaquin Fernandez	N.P3.71	Jorge Adriano Alves Coelho
Joe berry	R.OR6.29	A.P4.78, A.P4.81, N.OR5.16, N.P3.66, N.P3.67, N.P3.68, WS2.P1.7, Y.P3.82
Joel Alderete	G.P2.35, G.P2.36, Y.P3.65, Y.P3.66, Y.P3.67	Jorge Alberto Rodriguez Duran
Joel Gonçalves Souza	T.P2.10, T.P2.12	L.P1.10
Joelma Cristina de Sousa Breve	C.P4.191	Jorge A. López López
JOEL ROMANO BRANDÃO	K.P1.19	B.OR3.7
Joel Troughton	R.OR5.26	Jorge Andres Guerra
Joey Luther	R.OR6.29	N.OR5.18, Q.P3.66
Johan Alexander Cortes Suarez	C.P2.70, I.P1.15, J.P2.22	Jorge Augusto de Moura Delezuk
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John C de Mello	O.OR2.4	J.P2.23
John Fahlteich	R.OR6.28	Jorge dos Santos
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Julieth Caro Patiño	Z.P1.15	Karine Goulart de Oiveira	T.OR2.5
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		Laura Ximena Lovisa	N.P2.56
<b>L</b>		Lauren Garten	F.OR6.23, G.OR6.18
Laécio Santos Cavalcante	J.P2.20	Laurenia Martins Pereira	C.P3.120
Lafayette Nogueira Junior	D.P2.49	Laurent Billon	A.OR1.2, A.OR1.3
Laiara Bigato Furio	O.P1.23	Laurent Pieuchot	V.P2.34
Laiéli dos Santos Munaretto	S.OR5.15	Laurianne Truffault	F.P1.1
Lai Kuan Yu	W.P3.69	Lauro June Queiroz Maia	P.OR8.24
Laisa Chaves Teixeira	S.P4.169	Lauro Mariano Ferreira	K.OR3.9
Lais Canniatti Brazaca	O.OR2.5, O.P1.35	Lauro Tatsuo Kubota	A.P4.83
Lais Chantele	S.P1.41, S.P3.120	Lawrence Lee Kazmerski	Q.P3.78, T.OR4.12
Lais Chantelle De Lima	S.P3.136, S.P3.137, S.P4.166, X.P2.60, X.P2.65	Layane Rodrigues Almeida	BB.P1.13
LAÍS DANTAS SILVA	S.P3.111	Layara Lorrana Ribeiro Leite	Y.P1.20, Y.P2.28
Laise Maia Lopes	C.P4.198	layo ricardo machado leal	M.P1.42
Lais Galvão Caetano	N.P2.44	Lays de Araújo	P.OR6.19
Lais Helena Vieira	D.P1.35	Lays Dias Ribeiro Cardoso	D.P1.28
Lais Pacheco Caminata	Q.P3.71, S.P4.161	Layse Costa	C.P4.164
Lais Pellizzer Gabriel	V.P1.10	Layse Mendes Diniz	K.P2.39, S.P1.24
Lais Ribovski	O.P1.28	layzza tardin da silva	M.P2.52
Lais Roncalho Lima	A.P4.84, A.P4.87, N.OR1.1, N.P2.41	Lazaro A Padilha	A.OR5.18, D.OR3.7, N.OR4.14
		Lázaro Pérez-Acosta	B.OR2.6, M.P3.123

L. C. Silva	T.OR1.3	Leonardo José Amaral Siqueira	V.P1.12
Leandra Carla Aparecida Cordeiro	S.P1.8	Leonardo Lagoeiro Evangelista	M.OR3.9
Leandra Ernst Kerche-Silva	V.P2.18, V.P2.20, Y.P3.80	Leonardo Luis Santos	K.P2.54
Leandra Franscicato Campo	O.P3.103, Y.P3.69	Leonardo Maciel da Rosa	S.P4.158, S.P4.199
Leandro Almeida	C.P2.78	Leonardo Mathias Leidens	BB.P1.5, D.P2.44, D.P2.52
Leandro Aparecido Pocrifka	C.P2.86, D.P3.108, D.P3.97	Leonardo Maximino Bernardo	G.P2.39
Leandro Augusto Zago	O.P3.73	Leonardo Mizziara Barboza Ferreira	Y.P2.29
Leandro Carneiro	Y.OR3.11	Leonardo Negri Furini	T.P1.7
Leandro Carneiro Fonseca	T.P3.16, T.P3.22	Leonardo Pacheco Wendler	S.P3.131
Leandro Da Conceição	M.OR5.18	Leonardo Resende	M.P2.60
Leandro de Arruda Santos	G.P1.10, M.P1.41	leonardo ribeiro teles	D.P4.116
Leandro Felix Bufaiçal	F.P1.13	Leonardo Roberto da Silva	X.P1.29
Leandro Guimarães De Oliveira	C.P3.115	Leonardo Santos Andrade	D.P1.38
Leandro Ize Gutierrez	G.P2.52, Q.P3.57	Leonardo Santos Silva	S.P3.129
LEANDRO JOSÉ MONTEIRO RIBEIRO	M.P1.42	Leonardo Tadeu Boaes Mendonça	A.P2.40, C.P2.66
Leandro Luiz Silva	S.P2.106	Leonardo Vieira Albino	P.P3.24
Leandro Luza	F.P1.11	Leonardo Wu	F.OR6.21
Leandro Martinez	G.P1.11, G.P1.25, G.P1.26	Leon Deny W. P. Alcantara	K.P1.20
Leandro Martins	C.P2.54, F.OR3.9, F.OR5.19, X.P1.1, X.P1.2	Leonélio Cichetto Junior	C.P4.152
Leandro Mercedes	O.P2.51	Leonnam Gotardo Merizio	N.P3.77
Leandro Miranda Santos	BB.P1.13, D.P3.85, D.P4.138	Leonor Alvarado-Soto	T.P3.13
Leandro M. Socolovsky	B.P2.34	Leonor Chico	G.OR5.12
Leandro Neckel	L.P1.11	Leticia Cabrera Capalbo	W.P2.35
Leandro Piaggi Ravaro	N.P2.47, X.OR2.4	Leticia Carbajal-Galan	Y.OR4.13
Leandro Piován	C.OR9.34	Leticia Cristina Bembem	W.OR2.5
Leandro Reis Lidizio	C.OR5.16	Leticia de Fátima Silveira	A.P4.79
Leandro Silva Matos	N.P3.62	Leticia Fernanda Gonçalves Larsson	Q.P3.61
Léa Nogueira Braulino de Melo Nishioka	M.P1.34, M.P3.99	Leticia Gazola Tartuci	D.P2.53, N.P1.26
Leide Cavalcanti	F.OR2.6, F.P2.28	Leticia Kuplich	F.P1.5
Leide Lili Gonçalves da Silva	J.P1.15	Leticia Laura de Oliveira	M.P2.72
Leif Ericsson	R.OR3.15	Leticia Moro Bins Ely	W.OR6.22
Leila Aparecida Chivacci	F.OR2.5, F.P2.22, Y.P2.38	Leticia Nunes Coelho	F.P2.24
Leila Maria Silva	S.P4.207	Leticia Quinello Pereira	D.P4.144
Leila Yuan Visconte	S.P1.38	Leticia Ramos Silva	C.P2.64
Leinig Antonio Perazolli	A.OR5.16, A.P2.43, S.P2.84	Leticia Toreti Scarabelot	A.P3.53
Leliz Ticona Arenas	F.OR4.14, X.P2.47, X.P2.55, X.P2.56	Levy Silva de Paiva	C.P4.217, C.P4.226
Lendel dos Santos Rodrigues	D.P2.40	Leydi del Rocío Silva Calpa	C.OR8.27
Leonardo Alves Rocha	N.P1.9, N.P2.36	Lhaira Souza Barreto	K.P1.13, K.P1.8, K.P1.9, S.P1.6, S.P2.67, S.P2.80
Leonardo Andrade Costa	D.P4.143	Liana Key Okada Nakamura	N.P3.69, N.P3.78
Leonardo Barbosa Godefroid	M.OR1.3, M.P2.57, M.P2.58	Lianet Aguilera Domínguez	C.P2.86
Leonardo Bitu Correia Leandro	C.P1.14	Liangbo Liang	J.OR3.11
Leonardo C. Campos	A.P4.75	Liang Chen	R.P1.4
Leonardo Damin Pimentel	W.P3.69	Lidia Agata Sena	C.OR5.16, D.P1.20, D.P3.109, S.OR5.14, W.P2.33
Leonardo De Boni	O.OR5.16, P.OR2.3, P.OR2.5, P.P1.8	Lidia Manfrim Dias	D.P3.95
Leonardo Dias Cagnani	O.P3.88, O.P3.89	Lidiane Patrícia Gonçalves	X.P1.26
Leonardo Ferreira Paula	Q.OR7.19, Q.P3.55	Lidia Oazem de Oliveira da Costa	A.P4.76
Leonardo F G Dias	W.P1.7	Lidja Rosa Silva Santos	S.P1.5, S.P4.230
Leonardo Foti	K.OR4.12	Liebert Pereira Nogueira	F.P1.5
Leonardo Giordano Paterno	A.P1.10, A.P3.69, C.P4.146, WS1.P1.9	Lieca Hasegawa Kavashima	G.P1.23
		Ligia Ferreira Gomes	N.OR5.20
		Ligia Reghin Reis	K.P1.21
		Lilia Coronato Courrol	A.P2.48

Liliam Becheran	Y.P3.48, Y.P3.74	Lorenzo Sorace	B.OR5.14
LILIAM CRISTINA ANGELO	S.P4.159	Lourdinha Florencio	D.OR5.17, N.OR3.11, P.OR9.29
Liliam Kaori Yamada	C.OR6.21, C.P4.162	Lourenço Proença Ruivo	S.P1.37
Lilia Müller Guerrini	C.P3.124	Luana Cristina Wouk	Q.P1.14, Q.P1.7
Liliam Viana Leonel	C.P3.106	Luana Dias Lima	Y.OR5.17
Liliana de Fatima Bezerra Lira de Pontes	S.OR1.3	Luana Gomes Cordeiro de Araújo	S.P2.45, S.P2.46
Liliana Lira Pontes	S.P4.217	Luana Jéssica dos Santos Lopes	G.P1.27
Lilian Campelo Holanda	C.P4.202	Luana Marotta de Vasconcellos	D.P2.49
Lílian Cruz Santos	C.P4.148, C.P4.165, C.P4.171, C.P4.178, C.P4.194	Luana Marotta reis de Vasconcellos	C.P1.17, Y.P3.89, Y.P3.93
Liliane Cristina Gonçalves	D.P2.60	Luana Milak Furmanski	S.P4.201, S.P4.219
Liliane Leles Oliveira	W.P3.52, W.P3.58	Luana Vefago dos Santos	K.OR6.20, K.P2.42
Liliane Maria Ferrareso Lona	D.P4.112	Luca Boarino	A.OR5.15
LILIAN FELIPE TUPAN	M.P1.38, Z.P1.11	Lucas Angelini Deltreggia	F.P2.16
Lílian Karla de Oliveira	F.P1.15	Lucas Antônio de Souza Formiga	S.P4.172, S.P4.176
Lilian P. Dávila	G.P2.41	Lucas Augusto Manfroi	W.P1.4
Lilian Soares Cardoso	O.P2.43	Lucas Barboza Sarno Da Silva	Z.OR2.6
Lilian Weitzel Coelho Paes	Q.P3.75	LUCAS BRAGA DE MELLO	X.P1.3
Lincoln Silva Gomes	C.P3.115, D.P3.94	Lucas Campos Felix	J.OR2.4
Lincon Zadorosny	BB.P1.8, C.P4.221	Lucas Carvalho Rodrigues	N.P3.78
Linda Wittig	K.OR4.14, K.P1.2	Lucas Carvalho Veloso Rodrigues	N.OR2.5, N.OR5.17, N.P3.63, N.P3.69, N.P3.75, N.P3.77, N.P3.89
Lindemberg de Sousa Oliveira	J.P2.24	Lucas Castorino Silva	Q.P1.10
Lindomar Roberto Damasceno da Silva	S.P2.52, S.P2.53	Lucas Coli Cortes	M.P2.77
Link Brown	D.OR6.20	Lucas Custódio Recco	D.P3.106
Lino Misoguti	P.P2.11	Lucas Dimarô Zanatta	X.P1.15, X.P1.17, X.P2.69
Liu Yao Cho	WS2.P1.3, WS2.P1.5	Lucas Dionísio Toledo	X.P2.46
Livia Castro Marques	F.P2.29	Lucas Domingui	S.P4.219
Livia C. dos Passos Araujo	Y.P3.73	Lucas Fernandes Aguiar	Q.P1.9
Lívia do Nascimento Ribeiro	C.P4.217	Lucas Ferreira Lima	D.P2.60
Livia Flório Sgobbi	K.P2.46, O.P1.29	Lucas Freitas Berti	WS1.P1.13
Livia Maria de Oliveira Ribeiro	X.P2.58	Lucas Fugikawa Santos	O.P2.58, O.P2.62, O.P2.67
LIVIA MELO CARNEIRO	S.P4.174	Lucas Godinho Carreira	O.P1.37
Lívia Pugens Matte	F.OR4.14	Lucas Gomes da Silva Catunda	S.P4.208
Lívia Rodrigues Menezes	Y.P1.4, Y.P1.5	Lucas Kling e Silva	M.P1.48
Lívia Sottovia	S.P4.206	Lucas Ladeira	D.P3.80
Lívio Cesar Cunha Nunes	Y.P2.28	Lucas Leme Oliveira	P.P3.19
LIYING LIU	B.P2.28, C.P4.175	Lucas Mendonça da Rocha Oliveira	D.P2.57
Lizandro Manzato	S.P4.173, S.P4.181	Lucas Muraro Sassi	K.P1.33
Liz Contino Vianna de Aguiar	S.P3.110	Lucas Pintol Nishikawa	M.OR6.23
Lizeth Carolina Mojica Sánchez	N.OR3.11, P.OR9.29	Lucas Salgado Vidal	L.P1.7
Liz Gravito de Carvalho Gomes	M.P3.122	Lucas Taveira Caleiro	K.OR3.8, K.P1.26
Liziane Barbara Bugalski	Q.P1.7	Lucas Valente Carvalho	X.P2.62
Liz Katherine Rincon-Ardila	WS1.P1.10	Lucas Vinicius de Lima Citolino	O.P2.57
Liz Margarita Montañez Huamán	N.OR5.18, Q.P3.66	Lucas Weber Dias	Y.P2.42
lizziane maria belloto de francisco	Y.P2.45	Luc Gardette	R.P2.10
Loan Filipi Calheiros Souto	A.P3.70, J.P1.17	Lúcia Adriana Villas Boas	S.P4.162
Lohana Komorek Faria	S.P2.51	Lucia Gorenstin Appel	C.OR8.27
Loic Sauvezie	C.P4.212	Lucia Helena Innocentini Mei	S.P4.211
Lorena Aarão Rodrigues	C.P2.79	Lucia Kiyomi Noda	X.P2.66
Lorena Laize Santos Alves	X.P1.4	Luciana Daniele Trino	W.P1.7
LORENA MONIQUE MELO	S.P1.33	Luciana da Silva Amaral	C.P4.181
Lorena Oliveira de Sousa	O.P3.83	Luciana de Simone Cividanes	D.P2.71, D.P2.72
Lorenzo Poggini	B.OR5.14	Luciana Dornelas	A.P1.15, C.OR2.6

Luciana Machado Rodrigues	J.P2.38, S.P2.59, X.P2.41	Luís Augusto Rocha	T.P3.15, V.OR2.5, W.OR5.17, W.P1.13, W.P1.18, W.P1.21, W.P1.23, W.P1.3, W.P1.6, W.P2.34, W.P2.36, W.P2.40, W.P3.59, W.P3.61, W.P3.70
Luciana M Seara	X.OR6.11	Luís Bráulio mendes Martins	K.P2.35
Luciana Prates Prisco	C.P2.80	Luis Brey	G.OR5.12
Luciana Restle	V.OR1.3	Luis Carlos Costa Arzuza	B.P2.36
Luciana Reyes Pires Kassab	N.P2.53	LUIS CARLOS DE MORAIS	D.P4.121
Luciana Rodrigues da Cunha	O.P3.94	Luís Cesar Aliaga	M.P2.68
Luciana Sampaio Ribeiro	X.P1.10	Luis Claudio Mendes	S.P1.26, S.P3.132, S.P3.138
Luciana Santos de Oliveira	D.P3.88	Luis C. Malacarne	C.OR2.5
Luciana Schmidlin Sanches	M.P3.129	Luis Dias Carlos	N.P3.74, X.OR3.7
Luciana Sgarbi Rossino	J.P2.32, M.P1.5, M.P3.130	Luise de Faria Wendhausen	K.P2.38, K.P2.59
Luciana S. Spinelli	S.P4.232	Luis Eugenio Fernandez Outon	B.P1.15
Luciana Tavares	O.OR5.17, O.P1.38	Luis Eugenio Fernandez-Outon	B.OR2.3, B.P1.18, B.P1.2, B.P1.8, Y.P2.44
Luciana Valgas de Souza	A.P2.45, A.P3.53, C.P3.103, S.P3.116	Luís Felipe Castro Luz Souza e Silva	M.P2.75
Luciane Dias Oliveira	V.P2.21	Luís Felipe Dantas Lameze	S.P4.224
Luciano Andrey Montoro	C.P2.79	Luis Felipe Desdín-García	S.P1.11
Luciano Aparecido Meireles Grillo	C.P4.154, D.P4.134	Luís Felipe Guimarães de Souza	K.P2.53
Luciano Augusto Araújo Ribeiro	Y.P3.95, Y.P3.99	Luis Felipe Sverzut Baroni	J.P1.6, M.P3.106
Luciano Caseli	O.P1.4, V.OR3.10, V.P1.1, V.P1.12, V.P2.30	Luís Fernando da Silva	Q.P1.15
Luciano Costa Almeida	C.P4.202, C.P4.217	Luis Fernando Marchesi	S.P2.70
LUCIANO DA SILVA	S.P2.48	Luis Fernando Meneses	V.P1.17
Luciano Honorato Chagas	C.P3.107	Luis Fernando Pedrosa Rabelo	M.P3.104
Luciano Morais Lião	C.P4.195, S.P3.148	Luís Fernando Tonholo Domingos	N.P1.26
Luciano Ornelas Lima	M.P1.8	Luis Henrique de Lima	J.OR3.9
Luciano Pighinelli	W.OR3.10, Y.OR5.18	Luis Henrique Vilela Leão	B.P1.1
Luciano Senff	S.P2.88, S.P3.149	Luis Humberto da Cunha Andrade	N.P3.95
Lucia vieira Santos Santos	M.P3.122, Q.P2.34	Luís Maquiera Espinosa	C.P4.179, C.P4.188
Luci Diva Brocardo Machado	J.OR5.17	Luis Marcelo G da Silva	C.P4.219
Luciena dos Santos Ferreira	S.P1.7	Luismar Marques Porto	W.OR6.22
Luciene Bottentuit Balottin	T.OR3.10, T.P3.17	Luis M. G. Abegão	Q.P1.1
Lucimara de La Torre	F.OR2.6	Luís Otávio de Brito Benetoli	D.P4.141
Lucimara Stolz Roman	A.P2.47, A.P3.60, D.OR5.15, D.P2.60, J.P1.4, O.P1.39, Q.OR2.5, Q.P1.14, Q.P1.7, Q.P2.40, Q.P3.70, R.P2.11, R.P2.9	Luis Paulo Simões	W.P1.15
Lucineide Balbino Silva	K.P2.49, K.P2.62	Luís Presley Serejo dos Santos	C.P2.78, S.P3.127
Lucio Rosa	C.OR5.17	Luis Renato Valério	A.P3.66, B.P2.33
Lucio Strazzabosco Dorneles	I.OR2.6	Luís Ricardo Beagioni	M.P1.18
Lucy Ono	Y.P1.6	Luis Sebastián Caballero	D.P2.77
Ludiane Silva Lima	N.P2.55	Luis Vicente de Andrade Scalvi	A.P1.2, A.P1.3, A.P1.4, A.P1.5, A.P1.8, C.P4.191
Ludmila Oliveira Xavier	W.P2.48	Luis Visani Luna	T.P3.16, T.P3.20
Ludmilla Magalhães	I.OR2.8	Luiza Amim Mercante	O.P1.31, O.P1.6
Ludyane Nascimento Costa	C.P4.173, C.P4.182	Luiza Carolina Pomarolli	D.P4.121
Ludy Margarita Cáceres Montero	S.P2.90	Luíza Conceição de Araújo	A.P3.51, A.P3.52, A.P4.77
Luelc Sousa da Costa	I.P1.12	Luiza de Almeida Sonnenhohl	S.P1.18
Luisa Boutin	O.P3.87	Luiza de Castro Folgueras	D.P1.11, D.P1.12
Luis Adriano Santos Nascimento	S.P4.188	Luiza De Lazari Ferreira	O.P2.71
Luisa Emanuele Milagre	D.P3.87	Luiza Gabriela Santos Medeiros	S.OR6.20, S.P4.167
Luis Alfredo Montes Vides	G.P1.21, G.P2.40	Luiz Alberto Cury	F.OR6.22
Luis Antonio Genova	S.P4.225	Luizane Ramos dos Santos	M.OR2.6
Luis Antonio Pinheiro	S.P2.54	Luiz Angelo Berni	C.P1.38, N.P1.22, Q.P3.67
Luisa Teixeira	V.OR2.5, W.OR5.17	Luiza Pessoa Moreira	M.OR1.3
Luis Augusto Alarcon Estrada	A.P2.25	Luiza Ribeiro Santana	C.P3.102, I.P1.8

Luiz Augusto Souza Oliveira	B.P2.37, I.P1.16	Luzia Kalyne Leal	Y.OR5.17
Luiza Venturini	M.P1.35	Luzia Maria Castro Honório	X.P1.5, X.P2.40
Luiz Carlos Cambuim Machado	S.P3.146	Luzineide W. Tinoco	K.P1.4
Luiz Carlos Da Silva Filho	O.P3.101, O.P3.97	Lydie Ploux	W.OR6.19
Luiz Carlos Mariano	O.P1.39	Lygia Walmsley	I.P1.3, Z.P1.9
Luiz Carlos Salay	C.P1.11, C.P1.12, C.P1.13, K.P1.3	Lyudmila V. Goncharova	A.P1.8
Luiz Carlos Sampaio	B.P2.23		
Luiz Carlos Sekitani Silva	M.P3.107	<b>M</b>	
Luiz Cláudio Cândido	M.OR1.3	Maarten Vos	C.OR5.17
Luiz Claudio Pardini	D.P2.55, D.P2.67	Magda Bittencourt Fontes	Z.OR3.8, Z.P1.2
Luiz de Sousa Santos Júnior	C.P3.128	Magda Lorena Arciniegas	B.OR2.5
Luiz Eduardo Rodrigues Pereira	M.P3.128	Magno Barcelos Costa	K.P1.31
Luiz Eloi Vieira Jr	K.P2.58	Magnum Augusto Moraes Lopes de Jesus	K.OR6.19
Luiz Felipe Eckel	W.OR6.20	Maia Mombrú	A.P2.27
Luiz Fernando Brum Malta	K.P1.4	Maiara Emer	X.OR2.3
Luiz Fernando Cótica	I.OR1.1, I.OR1.3, I.OR2.8, I.P1.1, I.P1.10, I.P1.11, I.P1.14	Maiara Penteadó Camaliente	D.P2.49
Luiz Fernando dos Santos	P.P3.18, P.P3.22	Mainã Portella Garcia	AA.OR2.6
Luiz Fernando Gorup	C.P4.181	Maira Maftoum Costa	C.P3.139, V.P2.32, Y.P3.62
Luiz Fernando Lima	X.OR6.11	Maíssa Helena Cardoso	D.P1.39
Luiz Fernando Lobato Silva	BB.P1.2, D.P1.13	Maiza da Silva Ozório	BB.P1.15, O.P1.17, O.P1.18, O.P1.21, O.P2.55, O.P3.75
Luiz Fernando Meneses Carvalho	S.P3.143, S.P3.145, S.P3.147	Maki Ashida	W.OR5.16, W.OR6.21
Luiz Fernando Santos	S.P4.172, S.P4.176	Manasses Trindade Freitas	O.P2.60
Luiz Ferreira Neves Jr.	C.P4.148	Manfred Gruber	K.OR1.3
Luiz Flávio Castro Silva	S.P4.224	Manfred Maitz	Y.OR4.13
Luiz Francisco Malmonge	C.P4.221	Manfredo Harri Tabacniks	V.P1.2, W.OR2.7
Luiz Gabriel Nascimento	D.P2.40	Manfrine Silva Santos	S.P2.97
Luiz Ghivelder	Z.P1.11	M. Angeles Farrán	G.P2.54
Luiz Gonzaga Martins	S.P4.195	Manoel Cleber de Sampaio Alves	K.P2.61, L.P1.3, L.P1.5, M.P3.96, S.P3.151, S.P4.210
Luiz Gustavo Cancado	D.P2.69, P.OR3.9, S.OR5.14, W.P3.73	Manoel Deodoro Oliveira Lima	A.P3.64
Luiz Gustavo Davanse Silveira	I.OR1.3, I.P1.1	Manoel Ribeiro da Silva	M.P2.66, M.P2.69, M.P3.103
Luiz Henrique Caldas	S.P3.124	Manoel Roberval Pimentel Santos	S.P1.7
Luiz Henrique Capparelli Mattoso	C.P4.180, C.P4.192, D.P4.140, O.P1.31, O.P1.6, O.P3.76, O.P3.80, S.OR3.10, S.OR5.17, S.P2.63	MANOEL S. VASCONCELOS	P.P1.7
Luiz Henrique Dall'Antonia	A.P1.2, Y.P2.39	Manuel Banõbre-Lopez	C.P3.138
Luiz Henrique de Almeida	M.P1.31	Manuel Henrique Lente	I.OR2.7, I.P1.17, I.P1.24, I.P1.9, Q.P3.62
Luiz Jacobsohn	N.P3.85	Manuel Koppitz	O.OR4.13
Luiz Magalhães Palermo	K.P2.60	Manuel Sánchez Andújar	I.P1.19
Luiz Maltar Castello Branco	G.P2.63, S.P4.184	Manuel Villafuerte	B.OR5.15
Luiz Nonato Lopes de Oliveira	J.P2.26, J.P2.39	Mara G N Quadri	S.P2.83, Y.P3.54, Y.P3.55, Y.P3.59, Y.P3.78
Luiz Nunes de Oliveira	G.OR3.8	Maraiane Masson	C.OR9.33
Luiz Oliveira de Faria	O.P3.85	Mara Lize Zanini	A.P3.67, Y.P3.69, Y.P3.70
Luiz Orlando Ladeira	D.P2.70, D.P3.80, D.P3.96, T.P2.8, W.P3.73	Mara Tatiane de Souza Tavares	C.P1.8, C.P3.120
Luiz Rodolpho Raja Gabaglia Travassos	Y.P3.72	Marçal José Rodrigues Pires	C.P1.29, S.P3.109
Luiz Veriano Oliveira Dalla Valentina	S.P2.76	Marcela Andrea Durán Haun Senatore	T.P2.10, T.P2.11, T.P2.12
Lukas Lukoschek	R.OR2.9	Marcela Beatriz Fernández van Raap	B.OR2.5
Lukasz Marciniak	N.P1.33	Marcela Brito Oliveira	Y.P3.101
Lukasz Wewior	C.P2.76	Marcela da Silva Torricillas	C.OR9.33
Luke Rochford	J.P1.19	Marcela Dias	W.OR6.20
Luzeli Moreira da Silva	AA.P1.8, AA.P1.9	Marcela Dias França	Q.OR7.19
		Marcela Fernandes Barbosa Lessa	C.P1.45

Marcela Guiotoku	N.P2.50	MARCELO VIDIGAL CALIARI	W.P3.73
Marcela Maçaneiro	S.P2.102, S.P2.64, S.P3.112	Marcel Renan Paulino Tomazette	V.OR3.9
Marcela Rodrigues da Silva	S.P2.93, S.P2.94	Marcel Yuzo Kondo	M.P3.96
Marcela Vazquez	A.P2.29, Q.P2.41	Marcéo Auler Milani	D.P1.5, D.P1.6
Marcel Castro Cantanhede Araújo	N.P2.52	Marcia Carvalho de Abreu Fantini	C.P2.90, F.OR4.15, X.P2.51
Marcella Cogo Muniz	O.P3.96	Marcia Cerqueira Delpech	F.OR1.2
Marcella Ferraz Guedes	S.P1.1, S.P2.72	Márcia Cristina Bisinoti	D.P1.35
Marcella Lemos Brettas Carneiro	C.P4.176	Marcia Cury El-Cheikh	V.OR3.9
Marcella Rocha Franco	BB.P1.10, O.P3.79, O.P3.85, O.P3.94	Marcia Dutra Ramos Silva	O.P2.56
Marcel Leal de Castro	A.P4.80	Marcia Freisleben	C.P2.52
Marcello Rubens Barsi Andreetta	N.P1.13	Márcia Giardinieri de Azevedo	M.P2.52
Marcel Mayor	A.OR4.12	Márcia Machado Marinho	G.P2.44
Marcelo Antonio Santos da Silva	J.P1.18, J.P2.24, J.P2.26, J.P2.27, J.P2.29, J.P2.36, J.P2.37, J.P2.39	Marcia Moreira Medeiros	M.P1.28, M.P2.59, M.P2.60
Marcelo Augusto Gonçalves Bardi	J.OR5.17	Marciana Bandeira Albuquerque	G.P2.44
Marcelo Azevedo Neves	G.P2.63, S.P4.184	Marciana Pierina Uliana	O.P3.74
Marcelo Bento Pisani	A.P3.50, A.P4.91	Marciano Furukava	J.P2.21, M.P3.101
Marcelo Brocchi	T.P3.23	Marcia Parente Melo da Costa	X.P2.62
marcelo capella campos	M.P3.128	Marcia Queiroz Andrade	Q.P3.77
Marcelo de Assunção Pereira-da-Silva	O.P2.61	Marcia Regina de Moura	C.P2.95, C.P3.108, C.P4.158, C.P4.180, S.P2.63, Y.P3.56
Marcelo Eduardo Huguenin Maia da Costa	C.P1.31, C.P3.115, D.P3.94, V.P2.29	Márcia Rejane Santos da Silva	S.P1.41, X.P1.32, X.P2.53, X.P2.60, X.P2.65
Marcelo Eising	A.P3.60, D.OR5.15	Marcia Rodrigues de Morais Chaves	D.P4.115, S.P2.101
Marcelo Falcão de Oliveira	AA.P1.12, M.P2.68	Márcia Sirlene Zardin Graeff	W.P1.21
Marcelo Fernandes Cipreste	C.P1.19	Marcia Soares Sader	V.P1.15, V.P2.19, V.P2.25, W.P3.64
Marcelo Ganzarolli de Oliveira	W.P1.20	Márcia Tsuyama Escote	B.P2.43, C.P3.140, C.P3.141, C.P4.153, C.P4.157, C.P4.169, C.P4.184, X.P2.39
Marcelo Gonçalves	D.P4.122	Marcia V. G. Araújo	A.P1.7
Marcelo Gonçalves Vivas	A.P3.58, P.OR2.3, P.OR2.5	Marcin Kochanowicz	P.OR5.13
Marcelo Henrique Prado da Silva	D.P2.78, V.P2.26	Marcin Ratajczak	WS2OR2.8
Marcelo Huguenin Maia da Costa	D.P1.3, D.P1.4, V.P2.31	Marcio Andreato Mendes	M.P1.49
Marcelo Knobel	B.P2.34, C.P1.2	Márcio Antônio Fiori	BB.P1.3
Marcelo Kuroda	G.P2.64	Márcio A. R. Alencar	Q.P1.1
marcelo lubaszewski	M.P2.70	Marcio Aurélio Pinheiro Almeida	C.P1.1, N.P1.2
Marcelo Machado Viana	Q.P3.78, X.OR6.11, X.P1.29	Marcio Celso Fredel	W.P2.41, W.P2.45, W.P3.56, W.P3.57, WS1.P1.13
Marcelo Marques da Silva	BB.P1.15, O.P1.18, O.P2.55, O.P3.77	Márcio Corrêa de Carvalho	M.OR2.5
Marcelo Martin de Almeida	W.P2.33	Marcio Daldin Teodoro	C.P2.76
Marcelo Massayuki Nichidome Kikuchi	K.P2.51	Marcio da Silva Figueiredo	N.P3.95
Marcelo Mulato	A.P2.42, J.P1.5, O.P1.16, O.P1.3	Márcio Francisco Da Silva	C.P4.191
MARCELO NALIN	P.OR2.6, P.OR9.25, P.P1.8, P.P2.10, P.P2.11, P.P3.24, WS1.P1.5	Marcio José Barboza	N.P1.1, N.P1.11, N.P1.12, N.P1.15, N.P1.3, N.P1.5, N.P1.6, N.P1.7, P.P1.2, P.P1.3
MARCELO NAVA	M.P3.132	Marcio José Particheli	J.OR2.6
Marcelo Navarro	N.P2.38, N.P2.39, N.P2.40, N.P2.60, Y.OR2.4	Márcio José Poças Fonseca	Y.P1.8
Marcelo Neves Tanaka	V.OR2.6, V.P1.15, V.P2.23, V.P2.25, V.P2.26, V.P2.27, V.P2.28	MARCIO JOSE ROSALES	K.P2.48
Marcelo Ornaghi Orlandi	IP1.2	Marcio Luiz Varela Nogueira de Moraes	S.P1.5, S.P4.230
Marcelo Parise	F.P2.24	Marcio Mateus Beloti	V.OR3.8, W.P1.10, W.P1.8
Marcelo Ricardo de Souza Angelotto	M.P2.78	Márcio Medeiros Soares	B.OR3.9
Marcelo Rodrigues do Nascimento	X.P2.44	Márcio Paulo Araújo Mafra	D.P4.131, M.P2.76
Marcelo Rodrigues Melo	D.P4.135	Márcio Paulo de Araújo Mafra	S.P4.205
Marcelo Rodrigues Silva	A.P1.2	Marcio Pazetti	A.P4.78
Marcelo Vianna Nogueira	A.OR5.16	Marcio Peron Franco de Godoy	A.P2.44, B.OR5.13

Márcio Raymundo Morelli	W.P3.51		W.OR5.17
Marcio Roberto da Rocha	S.P2.81, S.P4.201	Marcos Felipe Braga da Costa	G.P2.51, G.P2.65
Marcio Sena Curvello	C.P4.153, C.P4.157	Marcos Fernando de Souza Teixeira	C.P4.168, D.P1.37
Márcio Solino Pessoa	C.P4.195, M.P3.102	Marcos Flores	D.P2.77
Marcio Sousa Góes	S.P2.70	Marcos Henrique de Pinho Mauricio	S.OR6.19
Márcio Talhavini	A.P3.52	Marcos Henrique P Wondracek	K.P2.52
Marcio Vidotti	Y.P2.39	Marcos José Jacinto	S.P3.128
Marco Andrey Cipriani Frade	Y.OR2.5	Marcos Jose Leite Santos	K.P1.29, Q.P1.13, Q.P2.38, Q.P2.48, Q.P3.59
Marco Antonio Durló Tier	M.OR2.6	Marcos José Pereira Alves	B.P2.29
Marco Antonio Pereira do Rosário	G.P2.63, S.P4.184	Marcos Luciano Bruschi	Y.P2.45, Y.P3.101, Y.P3.102, Y.P3.103
Marco Antônio Sacilotti	A.P2.40	Marcos Malta dos Santos	D.P4.116
Marco Antonio Schiavon	A.P2.31, A.P3.58, C.OR7.26, C.P2.77, M.P2.65, N.OR6.22, N.P1.26, N.P1.27, N.P1.30, N.P1.32, N.P1.9, N.P2.36, N.P2.42, P.P1.5, P.P1.6, Q.P1.16, Q.P1.28, Q.P2.43, X.P1.4	Marcos Massi	A.P3.62, J.P2.31, M.P3.115
Marco Antônio Utrera Martines	K.P2.52, N.OR1.2, V.P1.9	Marcos May Lozano	C.P4.149
Marco Antonio Voinarovicz	S.P3.117, WS1.P1.12	Marcos May-Lozano	C.P2.62, C.P4.225, S.P4.194
Marco A. S. Oliveira	S.OR5.16	Marcos Natan da Silva Lima	M.OR2.7
Marco Aurélio Toledo da Silva	A.P2.36	Marcos Oliveira Gentil	S.P4.233
Marco Bettinelli	P.OR3.8	Marcos Oliveira Jr.	N.P1.28
Marco César Soares	C.P2.82, C.P2.83	Marcos Oliveira Junior	K.P1.10
MARCO Cremona	A.P4.76, C.P4.218, N.OR1.3, O.OR1.3, O.OR3.10, O.P2.52, O.P2.54, O.P2.68, O.P3.102, O.P3.103, O.P3.99, WS1OR2.5	Marcos Roberto de Abreu Alves	O.P2.71
Marco Giarola	D.P4.146	MARCOS RODRIGUES RESENDE	K.P2.55, S.P3.143, S.P3.145, S.P3.147, V.P1.17
Marconi da Cruz Santos	C.OR6.20	Marcos Tadeu D'Azeredo Orlando	E.P1.2
Marco Roberto Cavallari	WS1.P1.9	Marcos Tadeu Tibúrcio Gonçalves	L.P1.3, L.P1.5
Marco Sacilotti	C.OR8.28, C.OR9.32, C.P4.159, W.P3.75	Marcos Vinício Oro	WS1.P1.13
Marcos Akira d'Ávila	S.P3.124, W.P3.52, W.P3.71	Marcos Vinicius Colaço	F.P1.5
Marcos Alexandre Gelesky	X.P2.49	Marcos Vinicius Costa e Silva	O.P2.68
Marcos Allan Leite Reis	S.P4.188, S.P4.192	Marcos Vinicius Foguel	C.P3.110, C.P3.111
Marcos Alyssandro Soares Anjos	S.OR6.20, S.P4.167	Marcos Vinicius Lorevice	C.P4.180, S.OR3.10, S.P2.63
Marcos Anicete Santos	V.P1.11	Marcos Vinicius Salles Nunes	M.P1.33, M.P3.131
Marcos Antonio de Sousa	B.P1.11	Marcos Vinicius Sampaio Bonfim	V.P1.6
Marcos Antonio Feitosa Souza	S.P2.106	Marcos Vinicius Sena Santos	G.P1.11, G.P1.25, G.P1.26
Marcos Antônio Pinto Martins	C.P3.118, C.P3.119, F.P2.18, J.P2.25	Marco Túlio Marques Santana	O.P1.25
Marcos Antonio Santana Andrade Junior	Q.P1.12	Marcus A.F. Corat	Y.P1.13
Marcos Antonio Villetti	C.P3.118, F.P2.18	Marcus Alexandre Finzi Corat	Y.P3.64
Marcos Assunção Pimenta	D.OR6.19, D.P2.50	Marcus Andre Worsley	X.OR5.8
Marcos Augusto Bizeto	C.P2.92	Marcus Antonio Perreira Bueno	S.P3.151
MARCOS AUGUSTO DE SÁ	W.P3.73	Marcus Nathan Silvestre	AA.OR2.5
Marcos Augusto Lima Nobre	D.P1.15, D.P3.101, E.P1.3	Marcus Roberto Afonso	S.P2.95, S.P2.96, S.P2.97, S.P2.98
Marcos Benedito Jose de Freitas	S.P2.91, S.P4.175	Marcus Venicio da Silva Fernandes	S.P2.52, S.P2.53
Marcos Bizeto	K.P1.11	Marcus Vinicius Bezerra Silva	A.P1.10
Marcos Castriota	D.P4.146	Marcus Vinicius Castegnaro	C.P2.56, F.OR5.18
Marcos Daniel Gouveia Filho	M.P2.78	MARCUS VINÍCIUS LIA FOOK	C.P1.36, Y.P3.75
Marcos Danilo Costa Almeida	S.P2.106	Marcus Vinicius Salgado	M.OR5.21
Marcos David Ferreira	T.P2.9	Marcus Vinicius Silva	IP1.17
Marcos Dorigão Manfrinato	J.P2.32, M.P3.130	Marcus V.O. Moutinho	D.P2.69
Marcos Farina	V.OR2.5, V.OR3.9, V.P2.34,	Marc Verelst	N.OR1.2
		Marek Chrapa	R.OR7.35
		Marek Przybylski	B.OR3.9
		Margarete Soares Silva	D.P4.123, D.P4.124
		Margareth Kazuyo Kobayashi Dias Franco	M.P2.74
		Margaret McCaul	O.P2.40



Margaret Payne	Q.OR2.5	Maria Eunice Carvalho Tosello	S.P1.13
Margarita Habran Esteban	X.OR6.14	Maria Eurenice Cronemberger	M.P3.93
Maria Adrina Paixão de Souza da Silva	M.P1.10, M.P1.19, M.P1.20, M.P1.21, M.P1.42	Maria Fatima Salgado	AA.P1.14, M.OR4.15, M.P3.110
Maria Alejandra Liendo	X.P2.41	Maria Fernanda Lima Villaça-Carvalho	C.P1.17
María Alexandra Puerto Medina	D.P2.62, D.P2.63, D.P2.65	Maria Fernanda Romeu Lino de Souza	J.P1.10, J.P2.31, J.P2.35
Maria Alexsandra Sousa Rios	O.P1.20	Maria Fernanda Xavier Pinto Medeiros	Y.P3.48
Maria Alice Carvalho Mazzeu	S.P2.51	Maria Francisca Simas Teixeira	T.P3.14
Maria Alice Martins	C.OR9.33	Maria Gabriela Araújo Ranieri	A.P2.26
Maria Aline Martins Gonzaga	AA.P1.2	Maria Gardennia Fonseca	C.P4.186, S.OR1.3, S.P4.216
Maria Angélica Briones	A.P3.55	Maria G. del Rosso	A.OR4.12
Maria Angélica Martins Costa	S.P3.144	MARIA GIRLENE DE SOUSA BEZERRA	M.P3.113, WS1.P1.15
María Antonia Señarís Rodríguez	I.P1.19	Maria Greice da Silva Brito	S.P4.170
Maria Aparecida Bezerra Santos	N.P2.34	Maria Helena Araujo	D.P3.87
Maria Aparecida Santiago da Silva	K.P1.15	Maria Helena Brijaldo	D.P1.22
Maria Aparecida Zaghete	A.OR5.16, A.P2.26, A.P2.43, A.P4.82, D.P3.90, D.P4.117, D.P4.125, Q.OR6.15, S.P2.84	Maria Helena da Silva Reis	A.P3.67
Maria Augusta Cavalcanti Soares	C.P4.183	Maria Helena Piazzetta	O.P1.1
Maria Bardosova	O.P3.88	Maria Helena Rocha Leão	S.P1.39, W.P3.64
Maria Bernardi	F.P2.16	Maria Helena V. Fernandes	W.P2.28
Maria Carmen Aragon-Duarte	C.OR9.36	Maria Iaponeide Fernandes	S.P1.19
Maria Carolina Burgos Costa	D.P3.104, D.P4.147, S.P4.208	Maria Ilenia Saba	R.P1.5
Maria Cecília Oliveira	O.P2.41	Maria Iliut	D.OR6.18, Y.OR4.15
Maria Cecília Rodrigues Rosa	C.P4.195	Maria Ines Basso Bernardi	B.P2.33, B.P2.35, Q.P1.15
Maria Cecília Salvadori	D.P1.10	Maria Inês Bruno Tavares	C.P2.93, C.P3.99, X.P1.37, Y.OR2.7, Y.P1.4, Y.P3.86
Maria Clara Guimarães Pedrosa	D.P3.98	Maria Isabel Ramos	C.P3.100
Maria Cláudia França da Cunha Felinto	N.OR2.5, N.OR5.17, N.P2.43, N.P3.69, N.P3.75, N.P3.78, N.P3.80, N.P3.82, N.P3.84, N.P3.87	Maria Isabel Spitz Argolo Lavandier	S.P3.129
Maria Cordeiro	K.OR2.5	Maria Jesús Pascual	S.P3.111
Maria Cristina Delgado da Silva	D.P4.134	Maria José Sales	A.P3.69
Maria Cristina Rosifini Alves Rezende	W.P2.35, W.P2.38, Y.P1.9	Maria José Soares Mendes-Giannini	Y.P3.90
Maria Danielly Lima de Oliveira	D.P4.137	Maria José Valenzuela Bell	N.P1.8
Maria da Paz Carvalho da Silva	E.P1.1	Maria Julia das Chagas	Y.P3.55
Maria da Rosa Capri	S.P4.171	Maria Julia Galera Ribeiro	V.P2.33
Maria das Gracias Fialho Vaz	B.P2.41, J.OR3.10, M.P2.79	Maria Leticia Vega	WS1.P1.15
Maria Dayane Soares Santos	S.P2.74, S.P2.75	Maria Letizia De Marco	Q.P1.8
Maria de Fátima Borges	Y.P2.43	Maria Lucia Pereira Antunes	S.P4.206
Maria de Fátima Brito Sousa	K.P1.12	Maria Luisa Braunger	O.P1.12, O.P2.57
Maria de Fátima Leite	W.P2.43, Y.P1.23	Maria Luisa de Alencar e Silva Leite	V.P1.14
Maria de Fátima Pereira	S.P4.217	Maria Luisa Sartorelli	O.P2.61, Q.P2.31, Q.P3.74
Maria de Fátima Pereira dos Santos	C.P4.195	Maria Luiza Miranda Rocco	A.P2.32, A.P2.47, C.P4.196, F.P2.27, J.P1.4, R.OR3.16, R.P2.11
Maria de Fátima Vieira Marques	AA.P1.10, AA.P1.13, C.P4.164, D.P4.120, S.P4.178, S.P4.226	Maria Madalena de Camargo Forte	K.P1.16
MARIA DE LOURDES FERREIRA MENESES DOS SANTOS	O.P1.33	Maria Margareth da Silva	M.P3.94
Maria Del Pilar Taboada Sotomayor	C.P3.110, C.P3.111, Y.P3.81	Mariana Agostini de Moraes	C.P4.198, Y.P3.105
Maria do Carmo Martins Alves	F.OR5.18	Mariana Amorim Fraga	D.P4.145
Maria Elena Leyva	O.P2.41, O.P3.87, Y.P2.36, Y.P3.48, Y.P3.73, Y.P3.74	Mariana Banea	K.P1.27
Maria Elena Vela	X.P1.26	Mariana Berruet	A.P2.29
Maria Elizabeth Maués dos Santos	V.P1.10, V.P1.11	Mariana Botelho Barbosa	D.P1.9
Maria Esperanza Cortés	V.P2.24, Y.P3.92	MARIANA BURROWES MOREIRA GUIMARÃES	G.P2.42
María Eugenia Pérez Barthaburu	A.P1.18, A.P2.34	Mariana Camilo de Souza	A.P3.55
		Mariana Carolina de Castro Silva	P.OR9.25
		Mariana Chianca Silva	D.P3.92, M.P2.85
		Mariana de Melo Silva	O.P3.91

Mariana de Rezende Bonesio	X.P1.12	Marina Judice Silva	M.P3.98
Mariana Gonçalves Benevit	Q.P1.6	Marinalva Aparecida Alves Rosa	S.P3.135, X.P1.1, X.P1.2
Mariana Luna Lourenço	W.P1.19, W.P2.24	Marina Magnani	F.P2.22
Mariana Matos	C.P2.77	Marina Magnoni Oliveira	W.P3.72
Mariana M.V.M. Souza	S.P3.118	Marina Paiva Abuçafy	Y.P2.38
Mariana Pastore Fogagnoli	X.P1.7	Marina Piacenti da Silva	A.P2.32
Mariana Richelle Pereira da Cunha	O.P3.93	Marina Rodrigues Tavares	Y.P1.4
Mariana Rodrigues Pereira	T.OR1.2	Marina Sparvoli	C.OR8.30
Mariana Silva Araujo	S.P4.225	Marines Carvajal Gomes	D.P1.28
Mariana Silva Recco	O.P3.102, O.P3.99	Mário A.B.S. Nunes	D.P4.119
Mariana Veiga Rodrigues	C.P2.54	Mario Andrean Macedo Castro	S.P1.17
Mariana Veronese	C.OR7.23	Mario da Costa Samuel	M.P1.34
Maria Nayane de Queiroz	N.P1.3, N.P1.5, N.P1.7, P.P1.3	Mário da Silva Araújo Filho	B.P1.8
Mariane Satomi Weber Murase	N.P3.70	Mario Favre	D.P2.77
Mariano Mazan	F.OR4.15	Mario Godinho Junior	C.P1.6, N.P1.10, N.P2.34, S.P2.49
Marian Rosaly Davolos	C.P4.205	Mario Gonzalez Ramirez	M.OR6.23
Maria Odila Cioffi	D.P2.68	Mario Guimarães Junior	C.OR8.31
MARIA ONAIRA GONÇALVES FERREIRA	Y.P1.20, Y.P2.28	Mário Jefferson Quirino Louzada	W.P2.35, W.P2.38
Maria Oneide Silva de Moraes	F.P2.27	Mário José Politi	A.P2.25, A.P4.96, N.OR5.20, WS1.P1.9
MARIA OSWALD MACHADO DE MATOS	M.P1.26	Mario Miki-Yoshida	A.P1.1
Maria Palmira Daflon Gremião	Y.P2.29, Y.P3.101, Y.P3.102, Y.P3.103	Mario Moda Piva	Z.P1.12
Maria Paula Nascimento Marques da Silva	S.P2.102, S.P2.64, S.P3.112	Mario Reis	C.P4.210
Maria Paulina Romero	C.P4.197	Mário Ricardo Góngora Rubio	WS1.P1.10, WS1.P1.3
Maria Quintana	A.P3.55, D.P1.21	Mario Roberto Meneghetti	C.OR9.35
Maria Raquel Abdala Nascimento Egydio Lopes	W.P2.35, W.P2.38	Mário R. S. Soares	Q.OR8.22
Maria Rita Araújo de Almeida	M.P2.76	Mário Sérgio de Carvalho Mazzoni	D.OR1.2
Maria Rita de Cássia Santos	A.P3.57, C.P1.6, C.P4.145, S.P2.49	Mario Ueda	J.P1.11, M.P3.94
Maria- Rita Sierakowski	Y.P1.6	Marisa Aparecida Souza	W.P3.68, W.P3.71
Maria Roberta de Oliveira Pinto	C.P1.36	Marisa Masumi Beppu	C.P4.198, Y.P3.105
Maria Tereza dos Santos Correia	C.P3.132	MARISSOL RODRIGUES FELEZ	M.OR6.26, M.P2.74
Maria Valnice Boldrin Zanoni	C.P3.110	Maristela Gava	S.P3.114, S.P3.115
Marie Cécile Weerd	AA.P1.17	Maristela Portela	X.P2.52
Mari Eli Leonelli de Moraes	C.P1.17	Marius Andruh	M.P2.82
Marilena Valadares Folgueras	S.P2.56, S.P3.139, S.P4.156	Marivalda Magalhães Pereira	D.P1.39, W.P1.11, W.P1.12, W.P2.43, Y.P1.14, Y.P1.16, Y.P2.30
Marilene Silva Oliveira	G.P1.19	Marivone Nunho Sousa	A.P2.25, A.P4.96, X.P1.27, X.P2.46
Marília Afonso Rabelo Buzalaf	W.P1.5, W.P2.27	Marize Varella Oliveira	W.P3.76
Marília Brykalski	D.P4.143	Mark Alan Baker	S.P1.32
Marília Garcia Diniz	M.P1.7, M.P1.8	Mark Jansen	R.OR2.8
Marília Horn	V.P1.7	Markus Brede	K.OR2.6
Marília J. Caldas	O.OR1.2	Markus Hölzel	E.OR2.4
Marília Oliveira Fonseca Goulart	A.P4.83, A.P4.93, D.P3.103	Marla Silva de Oliveira Leal	N.P1.8
Marília Raphalski	S.P2.76	Marli Leite de Moraes	A.P3.54, A.P4.84, A.P4.87, N.P2.41
Marília Reginato de Barros	X.P1.35	Marlo Costa Oliveira	M.P2.55
Marília S S Beltrão	C.P4.177	Marlus Koehler	O.P1.39, O.P2.50, Q.OR2.5, Q.P2.40, R.P2.11, R.P2.8, R.P2.9
Marília Vilela Salvador	X.P1.13	Marta Celia Dantas Silva	X.P1.32
Marilza Sampaio Aguilar	X.P1.16, X.P1.34	MARTA ELISA ROSSO DOTTO	D.P4.141, O.P2.52
Marina de Oliveira Cardoso Macêdo	S.P4.155, W.P3.54, W.P3.55, X.P2.48	Marta Eloisa Medeiros	S.P3.129
Marina Guedes Fonseca de Souza	W.P2.46, W.P3.65	Marta Maria da Conceição	X.P1.32

Martha McCartney	B.OR5.16	Matthew Carnie	R.OR5.26
Martina Margarita Nevarez-Razcon	C.OR9.36	Matthew D Barnes	D.OR1.1
Martin Bram	W.OR1.2	Matthew Glassman	V.OR1.2
Martin Eduardo Espitia	G.P1.20, S.P3.130	Matthew Samuel Powys Boyles	T.OR1.2
Martin Emilio Mendoza	C.OR1.3	Matthew Shlian	D.OR2.5
Martin Herder	A.OR4.12	Matthias Scheffler	J.OR4.13
Martin Hermenau	R.OR4.19	Matthieu Chausseau	C.OR4.14
Martin Neukom	R.OR4.22	Mauricio Cavicchioli	N.P2.44
Martin Pfanmüller	R.OR1.7, R.P1.5	Mauricio da Silva Baptista	WS1.P1.9
Martin Pfeiffer	R.OR4.19	Mauricio de Jesus Monteiro	V.P1.4
Martin Trejo-Valdez	A.OR6.22	Mauricio Domingues Coutinho-Neto	G.P2.37
Maryanna Nobre Cavalcante	D.P3.81	Mauricio Eiji Camilo	N.P2.53
Mary Anne White	C.P2.80	Mauricio Foschini	O.P2.45
Mary Cristina F Alves	X.P2.53, X.P2.68	Mauricio Jeomar Piotrowski	G.OR2.5, G.OR3.9, G.P1.24
Mary C. Santos	C.OR9.34	Mauricio Maia Ribeiro	D.P4.129
Masaaki Nakai	W.OR1.1	Mauricio Mhirdaui Peres	M.OR3.11, M.P2.71, M.P2.73
Masahiro Hosoya	R.OR4.18	Mauricio Motta Sobrinho	S.P4.177
MASAHIRO TOMIYAMA	S.P2.56	Mauricio Oliveira Vaz	K.P1.29
Masaki Horie	R.OR8.42	Mauricio Pamplona Pires	A.P1.15, A.P4.94, C.OR2.6, C.P4.151
Massao Ionashiro	M.P1.11, M.P1.17	Mauricio Rangel Seixas	W.OR3.11, W.P2.37
Mateus Borba Cardoso	F.P1.12, F.P1.3, X.OR2.3, X.OR3.6, X.P1.7, Y.OR1.3	Mauricio Ribeiro Baldan	C.P2.51
Mateus Cereza Brandão	S.P2.59	Mauricio Roberto Bomio Delmonte	A.P4.80, C.P3.120, C.P3.137, C.P4.207, C.P4.212, I.P1.20, K.P1.28, M.P2.73, N.P2.56, X.P1.20
Mateus Grecco Manfré	P.P3.23	Mauricio Roberto Delmonte Bomio	C.P1.30, C.P1.8, D.P4.111
Mateus Kurten	D.P4.144	Mauricio Rodriguez	Q.P2.42
Mateus Matiuizzi da Costa	Y.P1.7	Mauricio Rodriguez Chialanza	N.P2.61
Mateus Meneghetti Ferrer	A.P4.99	Mauricio Saldanha Motta	K.P2.35
Mateus Ribeiro Lage	J.OR5.15	Mauricio Sousa Pereira	R.P1.2
Matheus André da Silva	M.P1.43	Mauricio Vieira Calçada	M.P1.23
Matheus André Salles Carra	C.P4.148	Mauricio Zadra Pacheco	K.P2.56
Matheus Brant	M.P3.100	Maurizio de Santis	B.OR2.3
Matheus Carlos Romeiro Miranda	W.OR3.9, Y.OR6.19, Y.P1.2, Y.P1.22, Y.P1.24, Y.P3.85	Maurizio De-Santis	B.OR3.9
Matheus de Lorenzo Oliveira	WS1.P1.13	MAURIZIO FERRARI	P.OR4.10, P.OR4.11, P.OR4.12, P.OR5.13, P.P2.14
Matheus Josué de Souza Matos	D.OR1.2	Mauro Ângelo Alfaia	M.P1.44
Matheus Maia Rodrigues de Andrade	L.P1.4, L.P1.8	Mauro Angelo Alves	D.P1.12
Matheus Porto Trindade	J.P1.8	Mauro C Souza	S.P1.26
Matheus Radaelli	Z.P1.12	Mauro Ernesto Júnior	B.P1.10, B.P1.16, B.P1.3, B.P1.9, Z.P1.17
Matheus Rodrigues Novais	M.P1.36	Mauro Francisco Pinheiro da Silva	WS1.P1.9
Matheus Serra de Holanda	S.P2.78	Mauro José Guerreiro Veloso	M.P1.21
Matheus Vieira	K.P1.2	Mauro Meliga Wysard	C.P4.150, K.P1.18, K.P1.33
Matheus Vieira Nascimento	K.OR4.14	Mauro Pinheiro Silva	A.P2.25, C.OR8.30
Mathew Mathew	W.OR2.4	Mauro Quaresma Lobato	S.P1.31
Mathew Payne	M.P3.121	Mauro Santos de Oliveira Junior	C.P3.124, C.P3.126
Mathew T Mathew	W.P1.7	Maxence Bigerelle	V.P2.34
Mathias Bernhard Steiner	G.OR6.16	Maxime Cloutier	W.P3.67
Mathias Glaser	J.P1.4	Maximiliano Delany Martins	B.OR3.9, B.P2.30
Mathias Strauss	C.P4.215	Maximiliano Jesús Moreno Zapata	K.P1.29
Mathieu Rouzieres	M.P2.82	Maximiliano Santos Rocha	Y.P3.69, Y.P3.70
Mathilde HINDIE	W.OR6.19	Maximo Lopez Lopez	Q.P2.32
Matias Eliseo Melendez	O.P1.13, O.P1.15, O.P1.24, O.P3.80	Máximo Siu Li	A.P1.4, A.P1.5, N.P3.64, N.P3.65
Matjaz Spreitzer	A.OR3.10		
Matteo Mannini	B.OR5.14		

Maximo Siu Li	A.P3.63, A.P3.68, C.P1.1, C.P4.199, N.P1.2, N.P3.92	Michele Cadelano	O.OR5.17
Maxim Shkunov	R.OR6.31	Michele Dondi	C.P3.133
Max Passos Ferreira	D.OR4.11	Michèle O. de Souza	K.OR4.12
Max Rocha Quirino	A.P3.71, C.P3.117	Michele Saba	O.OR5.17
Max Shtein	D.OR2.5	Michelle Cequeira Feitor	K.P2.36, M.P2.64
Max Wagno Mascarenhas dos Santos	S.P3.143, S.P3.145, S.P3.147	Michelle Da Silva Liberato	C.P4.223
Maxwell de Paula Cavalcante	X.P1.37	Michelle Oliveira	Z.P1.18
Maxwell Vinicius Favero Varela	S.P4.159	Michel Venet Zambrano	IP1.4
Mayanny Gomes da Silva	AA.P1.8	Michel WONG CHI MAN	X.OR2.1, X.OR3.7
Mayara Auxiliadora Castilho Benites	M.P2.60	Michel Zampieri Fidelis	S.P2.102, S.P2.64, S.P3.112
Mayara Mondego Teixeira	N.P1.23	Midilane Sena Medina	C.P4.169
Mayara Simonelly dos Santos	C.P4.146	Miguel Adolfo PONCE	C.P2.70
Maykel Santos Klem	BB.P1.15, O.P1.19, O.P1.21	Miguel Alexandre Novak	B.P2.27, B.P2.41, D.P4.133, J.OR3.10
Maykon André Montanhera	C.P2.67, Q.P2.52	Miguel Angel Oliver-Tolentino	S.P1.11, S.P1.12
Maykon Montanhera	C.P4.222	Miguel Angel Ramirez Gil	C.P2.70, IP1.15, J.P2.22, S.P4.224
Mayky Carvalho Oliveira	BB.P1.13	Miguel A. San-Miguel	G.P2.49, G.P2.54
Maylla Castro Mafra	M.P1.16, M.P1.22	Miguel Carvalho Pachá	O.P1.2
Mayra Cristina Silva Pereira	S.P1.22, S.P1.9	Miguel Henrique Boratto	A.P1.8
Mayrane Carla Nascimento	A.P4.73, A.P4.83, A.P4.93, D.P3.100, D.P3.103, D.P3.105, O.P3.95, X.P2.64	Miguel Jafelicci Júnior	C.P1.21, C.P4.205
Mayra Stéphanie Pascoal Damas	S.P2.83, Y.P3.59, Y.P3.78	Miguel Justino Ribeiro Barboza	M.P1.50
Mayron Pantoja Cardoso	M.P1.21	Miguel Tafur Tanta	B.P1.11, M.P1.27
Mayté Paredes	F.P1.8	Mikaely Daiany Ferreira Borges	C.P1.47
M. Churbanov	P.P1.9	Mika Lastusaari	N.OR5.17
M.C Rodriguez Aranda	I.P1.23	Milagros del valle El Abras Ankha	D.P2.49
Mehrad Ahmadvour	G.P1.31	Milena Cervo Sulzbach	C.P2.69
Melina Gomes	M.P1.23	Milena Lima Guimarães	WS2.P1.6, WS2.P1.7
Melissa Leitão Costa	V.P1.15, V.P2.25	Milena Martelli Tosi	C.OR9.33, S.P4.198
Men de sá Moreira de Souza Filho	S.P4.189, S.P4.208	Milena Rosa Lopes Lozano	S.P4.213
Mengmeng Li	O.OR6.21	MILENA TIE AKASAKA	S.P4.174
Meriene Gandara	S.P4.171	Milena T. Pelegrino	T.OR1.3
Mérlin Cristina dos Santos Fernandes	W.P3.51	Milene Dalmira	Y.OR4.14
Meysam Karimi	M.P3.101	Milton Andre Tumelero	B.OR3.10
Meysam Mashhadikarimi	M.OR1.2	Milton Sergio Fernandes de Lima	BB.P1.12, J.P2.35, M.OR3.9
Meyson Cassio Nascimento	C.P4.203, S.P2.45, S.P2.46, WS1.P1.7	Ming Hu Pan	J.OR3.11
Mian Hasnain Nawaz	D.P1.1	Min Zhang	K.OR3.7
Michael A Burke	S.OR2.6	Mirabel Cerqueira Rezende	C.P3.124, C.P3.126, D.P1.11, D.P1.12, D.P3.84, J.P1.12
Michael Corazza	R.OR1.6, R.OR7.38	Mireille Turmine	M.P3.112
Michael Engel	G.OR6.16	MIRELLA NAGIB DE OLIVEIRA BOERY	S.P3.124
Michael Hurhangee	R.OR7.36	Miria Almeida Souza	D.P1.38, X.P1.22
Michael J. Kaufman	AA.OR3.7	Miriam dos Santos Muniz	T.P2.10
Michael Noeske	K.OR1.1, K.OR3.8, K.OR5.17, K.P1.16, K.P1.2, K.P2.56	Miriam Sanae Tokumoto	S.P1.6, S.P2.67
Michael Peterson	BB.P1.3, S.P4.201	Mirian Cristina Santos	C.P4.221
Michael Seeger	T.P3.18	Mirian de Lourdes Noronha Motta Melo	M.P2.67, M.P2.77, M.P3.103, M.P3.90, M.P3.91
Michael Szardenings	K.OR4.11	Mirian Michelle Machado	Y.P3.64
Michael Toney	F.OR6.23, G.OR6.18, R.OR6.29	Mirko Congiu	Q.P1.8
Michael Vervaeke	P.OR6.17	Mirko Rutttert	S.OR4.12
Michael Zharnikov	O.OR1.1	Mirma Denisse Barreiro	R.P2.12
Michail J. Beliatis	R.OR4.23	Mirma Nunes Araújo	S.P1.38
Michal Krompiec	R.OR4.21	Mitsunaga Saito	R.OR4.18
Michele Bernardes Ribeiro	C.P1.4	Mitsuo Lopes Takeno	S.P4.173, S.P4.181

Mitsuo Niinomi	W.OR1.1	Nadja Karolina Leonel Wiziack	O.P1.13, O.P1.24, O.P3.80
Moema De Barros e Silva Botelho	X.P2.67	Nadja Sonntag	M.P1.48
Moema Hausen	V.P2.23	Nágila El Chamy Maluf	C.P4.166
Mohammad Masoumi	M.OR2.7	Nagyla Alves de Oliveira	N.P3.72, N.P3.73
Mohammad Quamarul Hassan	V.OR3.8	Naiara Leticia Marana	G.P1.7, G.P2.38
Mohammad Reza Dousti	A.P2.37, N.OR4.15	Naiara Machado Casagrande	S.P2.88
Mohini Sain	C.OR8.31	Naiara Sebbe	M.P3.115
Moisés BASTOS NETO	S.P4.209	Naiming Liu	A.OR3.11
Moisés Luiz Parucker	D.P3.84, D.P4.132	Naira Cavalcante Almeida	S.P3.125
Moisés Meza Pariona	C.OR5.18, C.P1.27	Naira Maria Balzaretto	D.P2.62, D.P2.63, D.P2.65
Molíria Vieira dos Santos	N.P2.44, N.P3.74	Najara Barros Dias	M.P1.16, M.P1.22
Momotaro Imaizumi	M.P3.128	Naoyuki Nomura	W.OR1.3
Mônica Calixto de Andrade	W.P3.76	Nara Regina de Souza Basso	A.P3.67, D.P1.5, Y.OR3.10, Y.P2.42, Y.P3.70
Mônica Cristina Melquiades	O.P3.103	Natalia Biziak de Figueiredo	A.P2.42
Monica de Mesquita Lacerda	D.P2.69, J.OR2.6	Natalia Cristiane de Sousa Maia	WS2.P1.6, WS2.P1.7
Mônica de Oliveira Penna	K.P1.12	Natália de Araújo da Costa	W.P3.61
Monica Felicia Craciun	D.OR1.1	Natália de Faria Coutinho	Q.P2.29, Q.P2.46
Monica Fernandez Lorenzo	X.P1.26	Natália de Freitas Daudt	W.OR1.2
Mônica Freitas da Silva	C.P2.81	Natália Ferreira Braga	Y.OR3.9, Y.P2.37
Monica Huguenin de Araujo Faria	Y.P2.33	Natália Hadler Marins	I.P1.2, Y.P2.35, Y.P3.68
Monica Lira-Cantu	Q.OR3.6, Q.P3.63, R.OR1.5	Natalia Jacomaci	A.P2.43, D.P3.90, D.P4.125, S.P2.84
Mónica Patricia Arenas Correa	M.P1.31	Natália Marassi Martinelli	V.P2.21, V.P2.32, V.P2.33
Monica Regina Garcez	D.P4.143	Natalia Mayumi Yoshihara	C.P4.177, W.P3.60
Mônica Yonashiro Marcelino	W.OR3.9, Y.OR6.19, Y.P1.22, Y.P1.24, Y.P3.71, Y.P3.85, Y.P3.90	Natália Moreira Santana	A.P3.64
Monickarla Teixeira Pegado da Silva	Y.P3.87	Natália Neto Pereira Cerize	B.P2.42, WS1.P1.3
Monique Deon	X.P2.47	Natália Noronha Ferreira	Y.P2.29
Monique Gabriella Angelo da Silva	C.OR9.35	Natalia Rolim Menezes	AA.P1.3
Monique Gomes Teixeira	C.OR7.26	Natalia Runze de Moura	Y.P3.52
Monira Maisa Valente	G.P1.12, G.P1.13	Natália Valesca Silva Cavalcanti	S.P4.167
Monize Aparecida Martins	D.P4.142, S.P4.234	Natália Virag Domenici	BB.P1.15, O.P1.17, O.P1.18, O.P2.55, O.P3.77
Morsyleide de Freitas Rosa	S.P4.189, S.P4.208, Y.P2.43	Natalie Stingelin	Q.OR1.2
Morten Madsen	G.P1.31, R.OR8.41	Natalilian Roberta Silva Souza	N.P3.86
Mourad Mesmoudi	G.P1.14	Natal Nerímio Regone	C.P1.17, WS2.P1.4
Mubiayi P. Kalenga	D.P1.27	Nataly Cristiane Campos	X.P1.34
Mucio Amado Continentino	I.P1.3, Z.OR3.9, Z.P1.2, Z.P1.9	Nataly Cristiane de Campos Amador Garcias	X.P1.16
Muriel de Pauli	F.OR6.22	Natanael de Carvalho Costa	G.OR4.11
Muriel Lansalot	D.P3.83, D.P4.130	Natanna Azevedo de Aguiar	K.P1.15
Muriel Mesquita	T.OR3.10, T.P3.17	Natan Roberto de Barros	W.OR3.9, Y.OR2.5, Y.OR6.19, Y.P1.2, Y.P1.22, Y.P1.24, Y.P3.85
Murillo Henrique de Matos Rodrigues	N.P2.34, S.P2.49	Natasha A. D. Yamamoto	Q.P1.7
Murillo Souza Pereira	D.P1.16, D.P1.8	Natasha Ariane Diniz Yamamoto	Q.OR2.5, R.P2.11
Murilo Borges Araújo	C.P4.208	Natasha D.A. Yamamoto	A.P2.47, Q.P1.14, Q.P2.40, R.P2.9
Murilo Camuri Crovace	W.P1.10	Natasha Maurmann	W.P1.9
Murilo Ferreira Marques dos Santos	C.P2.82, C.P2.83	Natasha Midori Sugihiro	B.OR5.16, C.P3.100
Murilo Montesso	P.P1.8	Nathália Akemi Yoshioka	O.P2.52
Murilo Vigilato	V.P1.7	Nathália Andrezza Carvalho Souza	Y.P3.95, Y.P3.99
Mylena Pinto Nascimento	Z.P1.2	Nathalia Baltazar Martins	T.OR1.2
<b>N</b>		Nathalia Cerqueira da Silva	S.P1.19
Nadia Mamede José	S.P3.124	Nathália C Menezes	C.P2.75, C.P2.97
Nadia Sulei Vieira Capanema	C.P1.49		
Nadja Berenice Dias da Costa	N.P1.19		

Nathalia Marinho Costa	O.P1.5	Nico Dekker	R.OR2.8
Nathalia Mayumi Bernardes Miyahara	M.P3.96	Nicolas Kirchhoff Alves	G.P1.27
Nathalia Pereira S.M. Rios	A.P2.40	Nicolau André Silveira Rodrigues	WS1.P1.1
Nathália Rodrigues Oliveira	S.OR3.9	Nicole Pircher	Y.OR4.13
Nathalia Talita Candido de Oliveira	C.OR8.28, C.OR9.32, C.P4.159, W.P3.75	Nicolle Ruppenthal	Q.P3.74
Nathalie Luana Oliveira	S.P2.74, S.P2.75	Nicolli Dayane Müller	S.P2.48
Nathanael Felipe Guedes Silva	C.P4.163	Nico Seidler	R.OR4.21
Nathan Vinicius Ribeiro	Y.P3.90	Nida Sheibat-Othman	Y.P1.27
Nathan Willig Lima	G.P2.52	Nierlly Karinni de Almeida Maribondo Galvão	Q.P2.34
Naureen Akhtar	A.P1.17, X.OR5.10	NIKIFOR RAKOV GOMEZ	N.OR5.16, N.P3.66, N.P3.67, N.P3.68
Nayadie Jorge Loh	L.P1.11, L.P1.2	Nikos Kopidakis	R.OR1.4
Nazir Monteiro dos Santos	J.P1.11	Nikos Tsierkezos	R.OR8.41
Ned Ekins-Daukes	R.OR2.9	Nilmar Silva Camilo	F.P1.13
NEDJA SUELY FERNANDES	K.P1.23, M.P2.51	Nilo Francisco Cano-Mamani	N.P1.18
Neftali Lenin Villarreal Carreño	A.P1.24, C.P3.102, D.P2.64, I.P1.2, I.P1.8, S.P3.152, S.P4.196, S.P4.199, W.P3.66	Nilsa Toyoko Azana	D.P3.89, D.P3.90
Neide Kazue Kuromoto	W.P2.30	Nilson Antunes de Oliveira	Z.P1.15
Neidenei Gomes Ferreira	C.P2.51	Nilson Casimiro Pereira	S.P2.92
Neilo Trindade	G.P1.7	Nilson Cristino Cruz	C.P2.50, K.P1.22, S.P4.206, V.P1.2, W.OR2.7, W.P2.39
Neil Torres-Figueroa	S.P1.11	Nilson Schwartz da Silva	C.P4.155
Nelcy Della Santina Mohallem	X.OR6.11	Nilson Tadeu Camarinho de Oliveira	A.P4.97
Nelida Simona Marín	C.P1.11, C.P1.12, C.P1.13, K.P1.3	Nilson T. C. Oliveira	C.P1.3
Nelly M Vinhote-Marinho	T.P3.14	Nilton Francelosi Azevedo Neto	Q.OR6.15, W.P1.6
Nelson Astrath	C.OR2.5	Nina Fonstein	M.P2.58
Nelson Durán	T.OR1.1, T.P2.10, T.P2.11, T.P2.12, T.P3.14, T.P3.16, T.P3.18	Nislaine Caetano Silva	G.P1.19
Nelson Fabian Villegas	Q.P1.4	Nito Angelo Debacher	D.P4.141
Nelson Guedes Alcântara	M.P2.81	Nivaldo Assis Silva	W.P1.1
Nelson Henrique Morgon	G.P1.18, G.P2.43	Niz Simenremis Pereira	A.P1.10, Q.P1.22
Nelson Luis de Campos Domingues	D.P4.125	Noemi Raquel Checca Huaman	B.P2.28, C.P4.210, C.P4.211
Neri Alves	A.P4.72, BB.P1.15, C.P4.190, O.P1.17, O.P1.18, O.P1.19, O.P1.21, O.P2.55, O.P2.62, O.P3.75, O.P3.77	Norberto Cella	N.P2.55
Nerio Junior Bogoni	C.P2.52	Nori Yoshimoto	R.OR1.7
Nestor Cezar Heck	S.P4.186	Nosipho Moloto	D.P1.27
Nestor Santos Correia	A.P4.91	Nuno Araújo	L.OR1.1
Neusmar Junior Artico Cordeiro	O.P3.82	Nuno Peres	O.P2.69
Newton Adriano dos Santos Gomes	D.P1.11	Nuraly Bekturganov	S.P1.25
Newton Falcão	S.OR5.14		
Newton Martins Barbosa Neto	A.P1.22, BB.P1.2, O.OR5.16, O.P2.56, O.P2.60	<b>O</b>	
Newton Soares Silva	W.P2.47, W.P3.63	Oana Pascu	C.P3.113, J.OR3.10
Neyber Fádio Cavalcanti Nascimento	S.P4.204	Odair Pastor Ferreira	D.P1.35, N.P3.81
Neyda de la Caridad Om Tapanes	D.P2.59, S.P1.19, S.P4.228	Odila Florêncio	I.P1.4, M.P2.68
Neymara Cavalcante Nepomuceno	WS1.P1.14	Odilio B. G. Assis	C.OR9.33, O.P3.76, S.P4.198
Ney Mattoso	Y.P1.6	Odivaldo Cambraia Alves	C.OR8.27
Ney Pinheiro Sampaio	S.P2.93, S.P2.94	Ohanna Maria Menezes Madeiro da Costa	N.P2.51
Nicele Brito Pimentel	P.P3.20	Olacir Alves Araújo	C.P2.85, G.P2.61, S.P2.89
Nicholas A. Kotov	D.OR2.5	Olandir Vercino Correa	C.P4.214, M.OR4.15
Nicholas Ercolano Monteiro	Q.P3.70	Olayr Modesto Jr.	C.P4.191
Nicholas Rolston	R.OR7.38	Ole Albrektsen	O.P1.38
		Oleg Tkachenko	K.OR6.18
		Oleksii Kuznetsov	C.P3.107, C.P3.123
		Olga Zazuco Higa	Y.P3.93
		Oliver Fenwick	A.OR4.12

Oliver T Hofmann	J.OR4.13	Pablo Forlam Ribeiro Batista	B.P1.2
Olivia Carr	O.P1.10, O.P1.22, O.P1.27, O.P1.9	PABLO HERINQUE RIBEIRO BEZERRA	S.P4.155
Olivier Gallet	W.OR6.19	Pablo José Gonçalves	O.OR5.16
Olivier Margeat	R.OR1.7, R.P1.5	Pablo Ribeiro Dias	Q.P1.6
Olivier Masson	M.P2.86	Pablo Rougerie	V.P2.34
Olle Inganäs	Q.OR2.4	Pablo Santana Lemos	J.P2.20, S.P2.85
Omar Enriquez	D.P1.21	Pablo Tancredi	B.P2.34
Omar Pandoli	S.OR6.19, WS1OR2.5	Paloma Bispo Coelho	S.P1.20
Oneide Chire Quispe	C.P4.171	Paloma Rodriguez	P.OR3.8
Orestes Alarcon	BB.OR3.9	Paloma S. Cunha	T.OR1.3
Orlando Elguera Ysnaga	X.P1.26	Paloma Xavier Alcantara	S.P3.142
Orlando Silveira	A.P1.9	Pâmela de Oliveira Coelho	C.P3.129
Oscar Balancin	M.P1.9	Pâmela Milak	L.P1.2
Oscar Giordani Paniz	A.P1.24, C.P3.102, D.P2.64, I.P1.2, I.P1.8, S.P3.152, S.P4.158, S.P4.196, S.P4.199, W.P3.66	Pâmella Bianca Costa Moreira	K.P2.37
Oscar Jaime Restrepo Baena	K.P1.1	Paola Ayala	C.OR6.19
Oscar LOUREIRO Malta	N.OR2.5, N.P3.78	Paola Corio	K.P1.6
Oscar Manoel Loureiro Malta	N.P3.84	Paola Egert Ortiz	S.P2.48
Oscar Moscoso-Londoño	B.P2.34	Paola Fuentes Morales	G.P1.16
Oscar Peitl	V.P1.13, W.P1.10, W.P1.9	Paola Thaís Spolaôr Falcão	C.P4.178
Oscar Rubem Klegues Montedo	L.P1.11, L.P1.2	Paolo Samori	A.OR4.12
Osmando Ferreira Lopes	C.P3.109, Q.P1.15, Q.P1.2, Q.P1.25, S.OR2.4	Pardeep K. Thakur	J.P1.19
Osmany Garcia Zaldivar	IP1.23	Pascale Chevalier	W.P3.67
Osmar Roberto Bagnato	K.P2.48, M.P1.46	Pascoal G. Pagliuso	F.P1.13, Z.OR3.9, Z.P1.12, Z.P1.13, Z.P1.16
Ossalin de Almeida	S.P4.192	Pascoal José Giglio Pagliuso	B.P2.37
Oswaldo Antonio Serra	AA.P1.11, C.P1.46, C.P2.87, N.P2.59, S.P3.141, X.P1.15, X.P1.17, X.P1.18, X.P2.69	Patricia A Carvalho	A.P2.38, C.P2.96
Oswaldo Novais Oliveira Jr	BB.OR3.7, K.P1.25, O.P1.1, O.P1.13, O.P1.15, O.P1.22, O.P1.24, O.P2.45, O.P3.76, O.P3.80, O.P3.83, P.P1.4, V.P1.16	Patricia Alexandra Antunes	T.P1.6, T.P1.7
Oswaldo Luiz Alves	T.P3.16, T.P3.19, T.P3.20, T.P3.22, T.P3.23	Patrícia Alves Saliba	K.OR1.2, K.P1.24
Oswaldo Nunes Neto	A.OR1.3	Patricia Capellato	W.P2.42, W.P3.49
Otávio Augusto Tifton Dias	D.P4.136	Patricia Carvalho Garcia	G.P1.11, G.P1.25, G.P1.26
Otávio Bianchi	F.P2.18	Patrícia Corrêa	W.P1.6
Otávio Fernandes Lima da Rocha	M.P1.10, M.P1.13, M.P1.14, M.P1.20, M.P1.42	Patrícia Cristiane Santana Silva	K.P1.8, K.P1.9
Otávio Pereira Bezzan	N.P3.75	Patricia Cristina Bezerra-Silva	N.P2.60
Otávio Rôvere Bittencourt	X.P1.35	Patricia Darolt de Costa	S.P4.219
Ousmane Moussa	W.OR6.19	Patricia Fernanda Andrade	T.P3.14
Owen Lozman	R.OR4.21	Patrícia Francatto	C.P3.101, M.P3.116
Ozge İşksaçan	WS2.P1.2	Patricia Haro	P.OR3.8
		Patrícia Harume Fukuda Cursino	Y.P3.72
		Patricia Isabel Pontón	C.P2.80
		Patrícia Libório de Oliveira	C.P4.164
		Patrícia Lustoza Souza	A.P1.15, A.P4.94, C.OR2.6, C.P4.151
		Patricia Magalhães Pereira	S.P4.192
		Patrícia Mariana Alves Caetano	B.P1.18
		Patrícia Neves de Medeiros	C.P4.212, D.P4.111
		Patrícia Oliveira	Y.OR1.2
		Patrícia Oliveira de Andrade	C.P3.139
		Patrícia Ortega Cubillos	V.P1.4
		Patrícia Pommé Confessori Sartoratto	B.P1.17, Y.P1.12, Y.P1.15, Y.P1.8, Y.P2.32
		Patricia Pranke	C.P2.58, W.P1.9
		Patrícia Quintana	D.P2.41
		Patrícia Santos Andrade	A.P3.57, C.P4.145
		Patrícia Santos Martins	T.OR2.7
<b>P</b>			
Pablo Antonio Vázquez Salvador	C.P4.181		
Pablo Cesar Serrano Arambulo	O.P3.102		
Pablo Esquinazi	B.OR5.15		
Pablo F. Damasceno	D.OR2.5, L.OR2.5, L.OR3.7, L.OR3.8		

Patricia Schilardi	X.P1.26	Paulo Henrique Buzzetti	C.P1.20, D.P2.48
Patrícia Silva Oliveira	S.P2.44, S.P4.187	Paulo Henrique de Souza Picciani	C.P2.64
Patricio Häberle	A.OR2.5, D.P1.24, K.P2.64	Paulo Henrique Dias Ferreira	P.P1.4, Q.P1.1
Patricio Vargas	B.OR3.7	Paulo Henrique Gomes	B.P2.35
Patrick Chapon	C.OR4.14	Paulo Henrique Lobo Neves	S.P4.185
Patrick Di Martino	W.OR6.19	Paulo Henrique Ogata	M.OR6.23
Patrick Echegut	A.OR6.21	Paulo Henrique Oliveira Júnior	A.P4.78, A.P4.81, N.P3.66, N.P3.67, N.P3.68, WS2.P1.6, WS2.P1.7, Y.P3.82
Patrick Henrique	L.P1.6	Paulo Henrique Oliveira Maia	S.P4.169
Patrick Pascoal de Brito Silva	O.P1.34, Q.P1.22	Paulo Henrique Perlatti D'Alpino	C.P4.144
Patrick Rinke	J.OR4.13	Paulo Henrique Vaz Silva	D.P2.70, D.P3.80
Patrick Vianna Garcia	T.P2.12	Paulo Inacio da Costa	A.P4.82
Paula Cardoso Lauar	J.P1.10, J.P2.35	Paulo Noronha Lisboa-Filho	K.OR4.14, K.P1.2, W.P1.13, W.P1.7, W.P2.35, W.P2.38, Y.P1.17, Y.P1.9
Paula Cristina Faria-Tischer	Y.P2.39	Paulo Pedro Kenedi	K.P2.53
PAULA CRISTINA RODRIGUES	O.P3.92	Paulo P. Freitas	O.P2.69, WS1OR2.3
Paula C. Rodrigues	O.P2.42, O.P2.47, O.P2.64	Paulo Pureur	Z.OR2.5, Z.P1.4
Paula Daiany Gonçalves Silva	C.P3.125	Paulo Rangel Rios	G.P2.51, G.P2.65
Paula De Azambuja Sobocinski	Z.OR2.5	Paulo Ricardo da Silva Sanches	C.P1.11, C.P1.13, N.OR1.1, N.P2.41
Paula Galvão Caldas	A.P1.15	Paulo Roberto Bueno	A.OR6.19
Paula Gomes	W.P1.20	Paulo Roberto da Silva Ribeiro	O.P1.30, Z.P1.1, Z.P1.10
Paula Martins da Silva	G.P1.11, G.P1.25, G.P1.26, G.P1.28	Paulo Roberto da Silva Santos	N.P3.82, N.P3.88
Paula Nunes de Oliveira	I.P1.10, I.P1.11	Paulo Roberto dos Santos Salbego	C.P3.118, C.P3.119, F.P2.18, J.P2.25
Paula Peixoto Campos	V.P2.24, Y.P3.92	Paulo Roberto Mei	F.OR6.21, M.OR2.4
Paula Silvia Haddad	C.OR6.20, T.OR1.3, T.OR2.6	Paulo Rogério Pinto Rodrigues	Q.P3.60, Q.P3.61
Paul McNaughter	Q.OR5.13	Paulo Sérgio da Silva Junior	I.P1.4, M.P2.68
Paul M Dodd	D.OR2.5, L.OR2.5	Paulo Sérgio Moscon	C.P4.195, M.P3.102
Paulo Alliprandini Filho	C.P2.57	Paulo Soares	W.OR2.5, W.OR6.20, W.P2.29
Paulo Alysso Souza	S.P4.231	Paulo Soledade	B.P2.23
Paulo Antônio Pereira Wendhausen	K.P2.41	Paulo Tambasco De Oliveira	W.P3.76
Paulo Atsushi Suzuki	M.P1.28	Paulo Tambasco Oliveira	W.P1.10
Paulo Augusto Raymundo Pereira	O.P1.24	Paulo Teixeira	D.P3.85, D.P4.138
Paulo Augusto Raymundo-Pereira	K.P2.45	Paulo Trindade Araújo	O.P2.60
Paulo Azevedo Soave	C.P1.22	Paulo Victor Prestes Marcondes	G.P1.27
Paulo Barbeitas Miranda	J.P1.14, WS1.P1.2	Paulo Willian Sarvezuk	M.P1.29, M.P1.33, M.P3.131
Paulo Bodnar	BB.OR3.9	Paulo Wilmar Barbosa Marques	M.P2.68
Paul O'Brien	Q.OR5.13	Pedro Akira Bazaglia Kuroda	W.P1.23, W.P2.24, W.P2.26
Paulo Celso Isolani	WS1.P1.9	Pedro Alpuim	O.P2.69
Paulo César de Camargo	B.OR5.13	Pedro Alves Autreto	D.OR3.9, D.P3.91
Paulo Cesar Moraes	F.P2.24	PEDRO ALVES FONTES NETO	N.P1.15
Paulo Cesar Piquini	G.P2.64	Pedro Antonio Muniz Vazquez	G.P2.57
Paulo Cesar Reis Filho	D.P4.131, S.P3.125	Pedro Augusto de Paula Nascente	A.P4.97, J.OR1.2, J.OR2.5, M.OR4.17, S.P4.162
Paulo César Sousa Filho	N.P2.59, X.P1.15, X.P1.17, X.P1.18, X.P2.69	Pedro Barquinha	A.P2.38, C.P2.96
Paulo de Souza Santos	C.P4.181	PEDRO CUNHA DE LIMA	M.P3.132
Paulo de Tarso Cavalcante Freire	Z.P1.7, Z.P1.8	Pedro de Freitas Façanha Filho	Z.P1.3, Z.P1.5, Z.P1.6
PAULO DONATO FRIGUETTO	M.P3.128	Pedro Emilio Amador Salomão	N.P3.64
Paulo Eduardo Souza	F.P2.24	Pedro Fernandes Santos	W.OR1.1
Paulo Emilio Corrêa Leite	T.OR1.2, T.OR3.10	Pedro G. Demingos	A.OR5.17, K.P1.29
Paulo Ernesto Marchezi	Q.P1.12, Q.P2.35	Pedro Henrique Almeida	K.P1.5
Paulo Filho Marques Oliveira	Y.P3.61	Pedro Henrique Benites Aoki	T.P1.6
Paulo F. P. Fichtner	J.P2.28		
Paulo Freitas Gomes	D.OR6.19		
Paulo George cavalcante	I.P1.12		
Paulo Hebert França Júnior	Q.P1.21, Q.P1.24		



Pedro Henrique Cury Camargo	C.OR1.2, C.OR6.21, C.P4.162, K.OR5.16, P.OR7.21	Pierre Basílio Almeida Fechine	C.P3.127, C.P3.138, I.P1.12, J.P2.37, N.P3.81
Pedro Henrique da Rosa Braun	S.P2.88	Pietro Ciancaglini	W.P2.25
Pedro Henrique de Oliveira Nogueira	Q.P3.72	Pilar Gregory Vianna	C.P3.135
Pedro Henrique Fernandes	K.OR2.6	Pilar Hidalgo Falla	A.P3.51, A.P3.52, A.P4.77, A.P4.79, C.OR7.25, Q.P3.72
Pedro Henrique Sbampato França Raro	O.P1.2	Piotr Kuswik	B.OR3.9
Pedro Iris Paulin Filho	A.P4.97	Piotr Miluski	P.OR5.13
Pedro José Rolim-Neto José Rolim-Neto	Y.P3.95, Y.P3.99	Plamen Stamenov	I.OR2.6
Pedro jose sebastião	C.P2.93	Poliana Lima Rocha	C.P1.1, N.P1.2
Pedro Lana Gastelois	B.OR3.8, B.OR3.9	Poliana Macedo dos Santos	O.P2.47
Pedro L. G. Jardim	C.P1.22	Poliana Pereira Ferreira	Y.P2.34
Pedro L Granja	W.OR5.15	Poliana Pollizello Lopes	S.P4.197, W.P2.28
Pedro Luis Grande	C.OR5.17, C.P2.56, C.P2.69, J.P2.28, Z.OR2.5	Polina Tereshchuk	G.OR2.5, G.OR3.9, G.P1.33
Pedro M. C. L. Pacheco	AA.P1.3	Pollyana de Aragão Trigueiro	S.P4.216
Pedro Mendoza Zelis	B.OR2.5	Pollyana Ferreira da Silva	K.P2.45
Pedro Migowski	Q.P3.57	Polyana Alves Radi Gonçalves	C.OR7.24, D.P2.49, Y.P3.77
Pedro Paulo Modesto Neto	F.P1.6	Prashant V. Kamat	Q.P1.16
Pedro Pires Goulart Guimarães	V.P2.24	Priscila Glaucia Christianini Buzolin	G.P2.56
Pedro Renato Tavares Avila	AA.P1.12	Priscila Candida Duarte Gonçalves	A.P3.52, A.P4.77
Pedro Roberto Goulart	AA.OR3.9	Priscila da Costa Zonetti	C.OR8.27
Pedro Rupf Pereira Viana	G.P1.17, M.P1.16, M.P1.22, M.P1.35, M.P1.36, M.P1.37	Priscila de Araújo Caimi	Y.P3.69, Y.P3.70
Pedro Schio de Noronha Muniz	F.OR3.10	Priscila de Souza Monteiro	S.P4.177
Pedro Toloí Verissimo	A.P4.89	Priscila Eduarda Bussolaro Cândido	WS2.P1.5
Pedro Venezuela	D.P2.69	Priscila Ferrari Silveira Rosa	B.P2.37, Z.OR3.9, Z.P1.13
Pedro Vitor Dixini	S.P2.91	Priscila Ferreira de Oliveira	D.P4.120, S.P4.178
Pedro Yuri Cunha de Santana	C.P1.26, C.P1.43, C.P1.47	Priscila Laviola Sanches	T.P3.15, W.OR5.17
Pei Jen Shieh	D.P3.89, D.P3.90	Priscila Lemes Rachadel	S.P4.180, S.P4.191
Peng Chen	W.OR5.16, W.OR6.21	Priscila Rios Teixeira	C.P4.146
Pengcheng Dai	E.OR2.3, Z.OR2.3	Priscila Rodrigues de Oliveira	M.P3.105
Per Baunegaard With Jensen	O.P1.38, O.P2.48	Priscilla Natalli Stachera	K.OR5.17
Péricles Mendes de Medeiros	M.OR2.7	Priscilla Paiva Luz	N.P3.96
Peter Hammer	K.P2.43, M.P3.127	Priscilla Pereira Cunha	D.P2.68
Peter J. Thomas	A.P1.17	Priscyla Lima de Andrade	E.P1.1
Péter Ludvig	D.P2.70	Priti Tiwana	R.OR4.21
Peter Lund	R.OR2.11	Públio Rwany do Vale	A.P2.31
Peter S. Deimel	J.P1.19		
Peterson Luiz Ferrandini	AA.OR2.5	<b>Q</b>	
Peter William Bryant	G.OR6.16	Qing Li	J.OR3.11
Petra Rudolf	X.OR5.10	Qi SHAO	X.P1.6
Petru Apostol	O.P3.104	Quézia de Angelo Maranezi Camacho	C.OR6.20
Petrus d'Amorim Santa-Cruz	D.OR5.17, N.OR3.11, N.OR6.23, P.OR5.15, P.OR6.19, P.OR9.28, P.OR9.29		
Phabyanno Rodrigues Lima	A.P4.73, A.P4.83, A.P4.93, C.P1.5, D.P3.100, D.P3.103, D.P3.105, O.P3.95, X.P2.64	<b>R</b>	
Philip J. Blowey	J.P1.19	Rabah Boukherroub	K.OR4.13
Philippe Goldner	P.OR3.7	Rachel Barros Sanabio	S.P1.23, S.P2.47
Philippe Guillot	P.P2.15	Rachel Carvalho Goncalves	C.P3.98
Philippe Sainctavit	B.OR5.14	Rachel Faverzani Magnago	S.P2.48, S.P2.71
Philippe Thomas	M.P2.86	Rachel Lee Weckselblatt	A.OR3.11
Philip Sandwell	R.OR2.9	Rachel Vasconcellos Rodrigues	C.P1.15
Pia Homm	D.P2.77	Rafael A. Allão Cassaro	M.P2.79
		Rafaela Chinelatto Flipsen	C.P3.126
		Rafaela da Silva Ferreira	C.P1.18, M.P2.86

Rafaela de Souza	S.P2.56	Rafael Vieira Perrella	P.P1.5
Rafael Admar Bini	C.P2.81	Rafael Wagner Simon	M.P1.30
Rafaela Fonseca Carvalho	X.OR6.14	Rafael Zadorosny	C.P4.221, G.P2.60, J.P1.1, X.P2.42
Rafaela Guimarães da Rocha	S.P4.168	Raffaele Agostino	D.P4.146
Rafael Alexandre Raimundo	AA.P1.5	Rahul Basu	G.P1.3
Rafael Almeida	I.P1.7	Rahul Gupta	Q.P3.68
Rafaela Luiz Pereira Santos	I.P1.20, K.P2.44	Raiane Valenti Gonçalves	A.P3.67
Rafaela Melo	Y.P3.75	Raigna Augusta da Silva Zadra Armond	O.P2.45, O.P3.96, V.P1.16
Rafaela Moreira Javier Lemos	WS2.P1.1, WS2OR3.13	Raimison Bezerra de Assis	C.P1.30, C.P1.8, C.P4.212, D.P3.79, D.P4.110, D.P4.111, I.P1.20, K.P2.44, M.P2.85, N.P2.56, S.P1.27
Rafael Amoresi Ciola	D.P4.117	Raimunda Figueiredo da Silva Maia	S.P1.29, S.P1.31
Rafaela Nepomuceno e Vidigal	S.P4.203	Raimundo Felipe da Cruz filho	T.P3.14
Rafael Aparecido Ciola Amoresi	A.P2.26, A.P2.43, D.P4.123, D.P4.124, D.P4.125, S.P2.84	Raimundo Lora Serrano	C.P4.147, E.OR2.4, F.P1.13
Rafael Aragão Magalhães	Q.P1.21	RAIMUNDO NONATO RIBEIRO DA SILVA	A.P1.19
Rafael Arenas	EXPOR3.7	Raimundo Ribeiro Passos	C.P2.86, D.P3.108, D.P3.97, F.P2.27, R.P1.6
Rafaela Sanfelice Sanfelice	O.P1.31	Raimundo Rocha dos Santos	G.OR4.11
Rafaela Silveira Andre	O.P1.6	Raimundo Valdan Lopes	S.P2.95, S.P2.96, S.P2.97, S.P2.98
Rafael Assis da Silva	M.P2.54	Raisa Andriele Vasconcelos Lopes	S.P2.74, S.P2.75
Rafael Auras	J.OR5.17	Raisa Crepaldi de Faria	S.P3.153
Rafael Bento Serpa	Q.P2.31, Q.P3.74	Raisa Fernanda Ribeiro de Vasconcelos	O.P1.34
Rafael Besse	G.OR2.4	Raisi Natalia Baldez	G.P2.64
Rafael Bezerra Azevedo Mendes	M.P1.43	Raissa Garces Becker	X.P2.56
Rafael Borges Merlo	Q.P2.29	Raissa Mendes Silva	C.P1.1, N.P1.2
Rafael Cintra Hensel Ferreira	O.P2.66	Raissa Pieroni Vaz	D.P3.96
Rafael Colombo Abruzzi	C.P1.29, S.P3.109	Raissa Santos Figueiredo	S.P3.119
Rafael da Costa Brito	Q.P1.13, Q.P3.59	Rajan Jose	R.OR6.28
Rafael da Silva Sena	K.P1.30, K.P2.50	Raluca Savu	ARTS
Rafael da Silva Souza	C.P4.154, D.P4.134	Ramalinga Viswanathan Mangalaraja	V.P1.8
Rafael Dhalia	C.P4.206	Ramón Raudel Peña Garcia	A.P1.14, B.P1.14, B.P1.16, B.P1.3, B.P1.9, G.P1.16, X.OR5.9
Rafael Di Lazaro Gaspar	N.OR2.8	Raniella Andrade de Brito	WS2.P1.6, WS2.P1.7
Rafael dos Santos Carvalho	O.OR3.10	Ranielle oliveira silva	F.P2.19, Y.P2.41
Rafael Evaristo Caluête	AA.P1.15, AA.P1.7	Ranilson Cameiro Filho	I.P1.21
Rafael Furlan de Oliveira	O.P1.17, O.P2.63	Raouf A.Hamid El-Mallawany	A.OR3.9
Rafael Gallina Delatorre	D.P3.84, J.P1.12	Raphael Antonio Caface	Q.P1.23
rafael Jesus gonçalves Rubira	S.P2.55	Raphaela Regina de Araujo Pereira	Y.P3.101, Y.P3.102, Y.P3.103
Rafael Kenji Nishihora	Y.P3.54, Y.P3.59	Raphael Bianchi de Vicente	M.P3.103
Rafael Leonardo Novak	B.P2.32	Raphael Euclides Prestes Salem	D.P4.113, S.P2.61
Rafael Lima Denaldi	P.P2.13	Raphael Felca Glória	Y.P2.36, Y.P3.48, Y.P3.74
Rafael Lobato Mansur	Y.P3.100	Raphaell Moreira	N.P2.45
RAFAEL MARINHO BANDEIRA	M.OR4.14	Raphael Longuinhos	O.OR2.7
Rafael Melo Freire	C.P3.138, I.P1.12, N.P3.81	Raphael Santos Henrique	X.P2.66
Rafael Morales	B.P1.15	Raphael van Well	K.P2.59
Rafael Oliveira	F.P2.28	Raphael Verdan Curti	D.P1.20, D.P3.109
Rafael Otoniel Cunha	B.P1.1	Raphael Victor Barros Campos	J.P2.26, J.P2.36, J.P2.39
Rafael Ramiro Pereira	P.P2.16, P.P3.18, P.P3.21, P.P3.22, P.P3.23	Raquel Aline d Amorim	P.OR6.19
Rafael Ramos da Silva	D.P4.137	Raquel Aparecida Domingues	O.OR5.18
Rafael Ratto Moraes	Y.P2.35	Raquel da Silva Brito	A.P4.79
Rafael Rodrigues Del Grande	D.P2.43, G.OR6.16	Raquel de Andrade Bessa	C.P1.32, C.P3.142
Rafael Rovatti Pupin	C.P3.111		
Rafael Silva Araújo	D.P4.120, S.P4.178, S.P4.226		
Rafael Silva Nunes	F.P1.4		
Rafael Souza da Costa	O.P1.34, Q.P1.22		
RAFAEL VIDAL ELEUTÉRIO	S.P4.180, S.P4.191		

Raquel de Moraes Lobo	M.P3.117, M.P3.120	Renata Carvalho	V.OR2.5, W.OR5.17
Raquel Dosciatti Bini	IP1.10, I.P1.11	Renata Costa Souza	Q.P3.54
Raquel Gomes da Rocha	N.OR3.10	Renata Cristina de Lima	A.P3.61, D.P1.31
Raquel Guilherme Carvalho	C.P4.207	Renata Cristina Kiatkoski Kaminski	F.OR2.5, F.P2.22
Raquel Milani	Y.P3.98	Renata da Silva Magalhães	C.P4.163, C.P4.167, C.P4.168, C.P4.201, D.P1.37
Raquel Piletti	BB.P1.3	Renata de Faria Barbosa	F.P2.29
Raquel Pires Gonçalves	C.P2.64	Renata de Lima	T.OR2.6
Raquel Silva Thomaz	G.P2.52, Q.P3.57	Renata Fernanda Loddi	S.P4.161
Raquel von Hohendorff	T.OR2.7	Renata Ferreira Sousa	C.P1.30, I.P1.20, S.P1.27, S.P4.212
Rasihah Ladchumananandasivam	A.P4.92, C.P4.183	Renata Gomes Carvalho	J.OR2.4
RAULIM DE OLIVEIRA GALVÃO	S.P1.33	Renata Lilian Ribeiro Portugal Fagury	S.P4.205
Raul José da Silva Camara Mauricio da Fonseca	N.P2.55	Renata Maria Rosas Garcia Almeida	X.P2.58
Raul Lima Guimarães	Q.P2.53	Renata Martins Braga	D.P3.102, D.P3.107
Raul Oliveira de Araújo	W.P2.24, W.P2.27	Renata Martins Parreira	W.P1.17, W.P2.47, W.P3.63
Raul Quijada	D.P1.5, D.P1.6, D.P2.73	Renata Nome	WS2OR2.6
Ravichandran K	X.P1.30	renata nunes oliveira	Y.P1.1
RAWLINSON MEDEIROS IBIAPINA	O.P1.20	Renata Oliveira Domingues	B.P1.14, B.P1.16, B.P1.3, B.P1.9, X.OR5.9
Rayany Kelly Vieira dos Santos	N.P2.39	Renata Simao	K.P1.4, V.P2.19
Rayssilane Cardoso de Sousa	S.P3.145, S.P3.147, V.P1.17, Y.P3.96	Renata Travassos	V.OR2.5
Raz Muhammad	I.OR1.4	Renata Vilela	T.P2.12
Rebeca Bacani	C.P2.90	Renato Altobelli Antunes	AA.OR2.6, M.P1.40
Rebeca Delatore Simões	S.P1.13	Renato Batista Santos	J.OR4.14
REBECA TIBAU AGUIAR	C.P4.203	Renato Carvalho Resende	C.P2.50
Rebecca Faggion Albers	D.P1.34	Renato de Figueiredo Jardim	B.OR2.6, B.P2.43, M.P3.123
Rebecca Malzac Pontes	AA.P1.15	Renato Figueira da Silva	C.P4.216
Rebeka Oliveira Domingues	B.P1.3	Renato Garcia Freitas	S.P2.70
Regiane Godoy Lima	BB.P1.8, Y.P3.56	Renato Grigolon Capelo	G.P2.62
Regina Aparecida Capeli	C.P3.116	Renato Inácio Matos	F.P2.17, Z.P1.5
Regina Araújo Vieira	M.OR2.8	Renato Luiz Siqueira	N.P1.32, W.P1.9
Regina Cély Barroso	F.P1.5	Renato Massaharu Hassunuma	G.P1.11, G.P1.25, G.P1.26
Regina de Fátima Peralta Muniz Moreira	C.P3.133	Renato Neiva Sampaio	O.P2.56
Regina Estevam Alves	P.P1.4	Renato Panegaci dos Santos	C.P4.144
Reginald Avery	V.OR1.2	Renato Pereira da Silva	M.P1.1
Reginaldo Barco	B.P1.6	Renato Silvio Siqueira	C.P3.131
Reginaldo Toshihiro Konatu	W.OR3.11, W.P2.44, W.P3.62	René Lyng Eriksen	O.P1.38
Regina Luschtinetz	K.OR2.4	Renivaldo José dos Santos	A.P1.11, A.P3.59, BB.P1.1, S.P4.207
Regina Maria Geris dos Santos	D.P4.116	Rennan Normando de Andrade Silva	C.P1.36
Regis Schiavon de Oliveira	D.P1.7	Rero Marques Rubinger	M.P2.66, M.P2.69
Reinaldo M Ferreira	N.P1.18	Reydezel Torres-Martínez	A.OR6.22
Reinaldo Souza Miranda	G.P1.11, G.P1.25, G.P1.26	Reza Shahbazian-Yassar	BB.OR1.2, C.OR3.9
Reinhold Horst Dauskardt	R.OR7.38	Rhauane Almeida Galvão	Q.OR8.21, Q.P3.56
Renan Caldeira de Andrade	S.P4.223	Rian Esteves Aderne	N.OR1.3, O.P3.103
Renan Colucci	O.P1.14	Ricardo Adriano dos Santos	G.P1.27
Renan da Silva Fernandes	C.P3.108	Ricardo AF Machado	F.OR1.2, K.OR3.10
Renan Marucci	W.P3.74	Ricardo Alexandre Amar de Aguiar	AA.P1.3
renan neres santos	D.P1.23	Ricardo Alexandre Galdino da Silva	M.OR6.26, M.OR6.27
RENAN NORMANDO MAIA	S.P2.98	Ricardo Alexandre Lannes Couto	C.P1.31
Renata Antoun Simão	C.OR2.4	Ricardo Antonio de Simone Zanon	J.OR2.6
Renata Aquino	C.P2.55, C.P4.160, J.P2.30, L.OR2.3	Ricardo Antônio Francisco Machado	WS1.P1.6, WS1.P1.8
Renata Callegaro	C.P4.155	Ricardo Assunção Santos	K.P1.17
Renata Cardoso Roncoleta	Q.P3.72	Ricardo Bortoletto-Santos	S.P1.2

Ricardo Cotrin Teixeira	WS2.P1.8	Roberta Ferreti Bonan	WS1.P1.7
Ricardo Cunha Michel	O.P1.37	Roberta Ramponi	P.OR4.11
Ricardo de Sousa Ferreira Junior	Z.P1.1, Z.P1.10, Z.P1.6	Roberta Sessoli	B.OR5.14
Ricardo de Souza Magini	W.OR6.22, W.P3.57	Roberta Silva Pugina	N.P2.49
Ricardo Diego Torres	W.OR2.5	Roberta Viana Ferreira	Y.P3.84
Ricardo E. Marotti	A.P2.29	Roberta Yonara Nascimento Reis	C.P4.182
Ricardo Ferreira	WS1OR2.3	Robert Hurt	T.OR3.11
Ricardo Francisco Alves	M.P3.119, S.P4.154	Robert Mauricot	P.P2.15
Ricardo Freitas Cabral	D.P2.78	Roberto Alves de Sousa Luz	C.P1.16
Ricardo Henrique Gonçalves	Q.OR7.18	ROBERTO ARRUDA LIMA SOARES	V.P1.17, Y.P3.96
Ricardo Henriquez	D.P1.24, K.P2.64	Roberto Bernal Correa	Q.P2.32, Q.P2.33, Q.P2.50
Ricardo Jimenez	A.P1.21	Roberto Braga Figueiredo	W.P2.43
Ricardo López Medina	C.P4.149	Roberto Carlos Ambrosio-Lázaro	A.P1.1
Ricardo López-Medina	C.P2.62, C.P4.225	Roberto Carlos Sales	G.P1.12, G.P1.13
Ricardo Marques e Silva	A.P1.24, C.P3.102, D.P2.64, I.P1.2, I.P1.8, S.P4.199, Y.P1.10, Y.P3.68	Roberto Daniel Zysler	B.OR3.10
Ricardo Meurer Papaléo	G.P2.52, Y.OR3.10, Y.P3.69, Y.P3.70	Roberto Dias Lins	D.OR5.17
Ricardo O Freire	N.OR4.13	Roberto Dos Reis	D.P2.65
Ricardo Paupitz	D.P3.91	Roberto Hubler	J.OR2.4
Ricardo Peixoto Suassuna Dutra	S.P4.154, X.P2.40, Z.P1.14	Roberto Hübler	C.OR4.12
RICARDO RANGEL	D.P2.41, D.P2.41	Roberto Jakomin	A.P1.15
Ricardo Rodrigues Urbano	Z.P1.12, Z.P1.13	Roberto Koji Onmori	O.P2.44
Ricardo Salvador Boldrini	M.P1.16	Roberto Luiz Moreira	I.P1.7
Ricardo Santana Lima	Y.P2.34	Roberto Magalhães Paniago	B.P2.38, I.P1.7
Ricardo Santos Baltieri	P.P2.10	Roberto Mendonça Faria	C.P2.67, O.OR3.8, O.P1.10, O.P1.27, O.P1.9, O.P2.42, O.P2.43, O.P2.61, O.P3.73, O.P3.86, O.P3.88, O.P3.89, Q.P1.18, Q.P2.39, R.OR7.39
Ricardo Shindi Hosokawa	K.P1.22	Roberto O. Azoy	D.P2.59
Ricardo Soares dos Santos	Y.OR6.19, Y.P3.85	Roberto Pablo Talamntes-Soto	C.OR9.36
Ricardo Stefani	G.P1.30, S.P1.22, S.P1.9, Y.P3.104	Roberto Paulo Barbosa Ramos	M.P1.3, M.P1.4
Ricardo Tadeu Lopes	M.P1.2	Roberto Ramos Júnior	A.P1.4, A.P1.5
Ricardo Yoshimitsu Miyahara	I.P1.14	Roberto R de Avillez	C.OR7.23, C.OR8.27, C.P2.80, C.P2.94, D.P1.4
Ricardo Zottis	X.P2.41	Roberto Rivelino	J.OR4.14
Richard Allen Souza	BB.OR1.1	Roberto Rodríguez Suárez	B.P1.1
Richard Caraballo	C.P4.210	Roberto Tetsuo Fujiyama	D.P4.129, S.P1.14, S.P1.15, S.P1.16, S.P1.21
richard KOUITAT-NJIWA	AA.OR1.2	Roberto Vaz	N.P2.42
Richard Landers	J.OR1.2, J.OR3.9, S.P4.162, WS1.P1.9	Roberto Zenhei Nakazato	W.P2.37, W.P3.58, W.P3.62, W.P3.69
Richard Mayet	M.P2.86	Robert P.H. Chang	BB.OR2.4
Richard Theodore Scalettar	G.OR4.11	Robert Schulz	AA.OR1.3
Rickard Hansson	R.OR3.15	Robinson Carlos Dudley Cruz	J.P2.33
Rilton Alves de Freitas	Y.P1.6	Robson Alves Silva Simões	A.P4.100
Rita Cortesi	Y.P3.101, Y.P3.102, Y.P3.103	Robson Guimarães Sanabio	G.P2.44, S.P1.23, S.P2.47
Rita de Cássia da Silva	D.P4.115, S.P1.30, S.P4.213	Robson Pinheiro da Silva Junior	S.P4.187
Ritchelli Ricci	V.P2.33	Robson Rosa da Silva	C.P4.193
Rivaldo Leonn Cabral	A.P4.92	Rocio del P. Bendezu Hernandez	M.OR3.10, M.P3.112
Rivaldo Lins Rocha Filho	M.P3.119, S.P4.154	Rocío María Tamayo Calderón	C.P1.23
R Nirmala	Z.OR2.4	Rocio M. M. Dip	S.P4.232
Róber Freitas Bachinski	V.OR1.3	Rodinei Medeiros Gomes	AA.OR1.2, AA.P1.17, AA.P1.7
Roberta Alves Gomes Matos	M.P2.80, M.P3.90, M.P3.91, M.P3.92, M.P3.95	Rodion Yu. Iliashenko	K.OR6.18
Roberta Araujo Cavalcante de Menezes	M.P3.101	Rodolfo Albuquerque Buarque Assunção	AA.P1.5
Roberta De Oliveira Resende Ribeiro	F.P2.29	Rodolfo Bezerra Da Silva	B.P1.19, B.P1.20
Roberta Dutra de Oliveira Pinto	B.P2.30		

Rodolfo Bonoto Estevam	S.P3.117, WS1.P1.12	RODRIGO RIBEIRO RESENDE	W.P3.73
Rodolfo Debone Piazza	C.P1.21	Rodrigo Sávio Pessoa	C.OR7.24, C.P3.98, Q.P2.34, Y.P3.77
Rodolfo Fini	X.P1.19	Rodrigo Segura	A.OR2.5
Rodolfo Goetze Fiorot	N.P3.96	Rodrigo Silva	J.P1.6, M.P1.30, M.P3.106, M.P3.111
Rodolfo Minto de Moraes	Y.P1.27, Y.P3.60	Rodrigo Silveira Vieira	S.P4.209, Y.OR5.17, Y.P2.43, Y.P2.47, Y.P3.97
Rodolfo Salazar Perez	D.P2.59, S.P1.19	Rodrigo Szostak	Q.P3.73, Q.P3.76, R.OR8.40
Rodolfo Thiago Ferreira	S.P3.117, WS1.P1.12	RODRIGO VIEIRA RODRIGUES	N.P1.33
Rodolphe Clérac	M.P2.82	Rodrigo Villares Portugal	F.OR2.6
Rodrigo Andrés Espinoza-Gonzalez	A.P1.13, A.P2.33, C.P1.23, D.P2.54	Rodrigo Villegas Salvatierra	A.P3.60, D.OR5.15, D.P2.60
RODRIGO ARAUJO MENDES	O.P1.23	Roger C. Hiorns	A.OR1.3, O.OR4.14, R.OR7.37, R.P2.10
Rodrigo Azevedo Reis	F.OR1.2	Rogéria Rocha Gonçalves	P.OR4.10, P.OR4.11, P.OR9.25, P.P2.14, P.P2.16, P.P3.18, P.P3.21, P.P3.22, P.P3.23, P.P3.25, W.P2.25
Rodrigo Barbosa Hilario	WS2.P1.3	Rogério Antônio Xavier Nunes	Q.P2.47, Q.P2.51
Rodrigo Barreto Caldas	K.P1.5	Rogério Barbosa da Silva	S.P1.22
Rodrigo B Capaz	D.P1.17, D.P2.43, D.P2.69, D.P2.75, O.OR3.10, S.OR5.14	Rogério José Costa	G.P1.5
Rodrigo Bezerra Vasconcelos Campos	D.P1.14	Rogério Magalhaes Paniago	D.OR1.2, F.OR6.22
Rodrigo Botan	D.P4.112	Rogério Miranda Morais	BB.P1.15, O.P1.17, O.P1.19, O.P1.21
Rodrigo Cardoso de Oliveira	W.P1.14, W.P1.21	Rogério Navarro Correia Siqueira	C.OR7.23, D.P3.94
Rodrigo Costa	D.P3.80	Rogério Santejano	C.P4.170, C.P4.224
Rodrigo Costa Marques	P.OR2.6	Rogério Valaski	A.P4.76, O.P2.52, O.P2.54, O.P2.68
Rodrigo Costa Puerari	T.OR2.5	Roger M Macfarlane	P.OR3.7
Rodrigo Costa Silva	B.P1.4	Roisin Owens	O.P3.90
Rodrigo Cristiano	O.P2.70	Roland Hany	A.OR2.7, A.OR4.13
Rodrigo Daneil da Silva Oliveira	S.P3.115	Roland Weingärtner	N.OR5.18, Q.P3.66
Rodrigo de Matos Oliveira	S.P4.218	Rolindes Balda	N.P3.71
Rodrigo de Santis Neves	D.P4.139	Romain Meulle	C.OR8.28
Rodrigo Duarte Silva	D.P3.83, D.P4.130	Román Alvarez Roca	J.P2.20, J.P2.34, S.P2.85
Rodrigo Fernando Bianchi	C.P4.143, N.P3.70, O.P3.78, O.P3.79, O.P3.81, O.P3.84, O.P3.85, O.P3.91, O.P3.94, O.P3.98, S.P4.172, S.P4.176, Y.P2.46	Roman Gorbachev	A.OR2.6
Rodrigo Ferrão de Paiva Martins	A.P2.38, C.P2.96	Romildo Jerônimo Ramos	O.P1.23
Rodrigo Ferreira Gouvêa	C.P2.64	Romina Zaruhi Keuchkerian	Q.P2.42
Rodrigo Galvão dos Santos	N.P2.48	Romulo Augusto Ando	C.OR6.21
Rodrigo Gribel Lacerda	A.P4.75, D.OR6.19	Romulo Heringer	G.P2.39
Rodrigo Guerreiro	C.P2.67	Rômulo Ribeiro Magalhães de Sousa	K.P2.36, M.P2.64, O.P1.26
Rodrigo Guerreiro Fontoura Costa	D.P4.140	Rômulo Simões Angélica	N.P2.52
Rodrigo Hiroaki Ideyama	C.OR8.30	Ronald Beyner Mejia Sanchez	D.P1.4
Rodrigo José de Oliveira	B.P1.16, X.P2.68	Ronald Izidoro Reis	D.P2.55, D.P2.67
Rodrigo Kenji de Oliveira	C.P4.219	Ronaldo Crosio Gennari	Q.P3.62
Rodrigo Lambert Oréfiçe	S.P1.10, Y.P1.16	Ronaldo Giro	G.OR6.16, WS2OR1.2
Rodrigo Lassarote Lavall	D.P1.29	Ronaldo José Farias Corrêa do Amaral	V.OR3.9
Rodrigo Mero Sarmento da Silva	D.P3.81	Ronaldo Junio Campos Batista	A.P4.85, G.P1.2, Y.P3.79
Rodrigo Morais Menezes dos Santos	F.P2.31	Ronaldo Pereira de Melo Júnior	C.OR9.32, W.P3.75
Rodrigo Moreno	K.P2.58	Ronaldo Santos da Silva	N.P2.35, N.P3.85, N.P3.86
Rodrigo Nogueira de Codes	S.P2.104	Ronaldo Sérgio de Biasi	C.P2.88
Rodrigo Perito Cardoso	K.OR3.9, K.P1.20, K.P2.54, M.OR3.12	Ronaldo Shiguero Sasaki	C.P4.158
Rodrigo Prioli Menezes	A.P1.15	Ronald Tararam	M.P2.70
Rodrigo Queiros Almeida	R.P1.2	Ronan Lebullenger	Q.P1.17
Rodrigo Queiroz de Albuquerque	G.P2.62	Rondinelle Ribeiro Castro	G.P2.44
Rodrigo Ramirez-Tagle	T.P3.13	Rondinelli Donizetti Herculano	W.OR3.9, Y.OR2.5, Y.OR6.19,
Rodrigo Ramos da Silva	O.OR1.2		

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Rongying Jin	J.OR3.11		
Ronney Rodrigues Agra	S.P3.113		
Ronyclei Raimundo da silva	AA.P1.5		
Roosevelt Droppa Jr.	F.P1.5		
Rosa Corrêa Leoncio de Sá	D.P1.30		
Rosa Dutra	Y.OR3.12		
Rosa Fireman Dutra	A.P2.49, D.P3.93, Y.OR5.16, Y.P3.81, Y.P3.88, Y.P3.94		
Rosalia Krüger de Castro	A.P4.76		
Rosalia Poyato	A.P1.21		
Rosa Mayelin Guerra Breña	W.P2.33		
Rosa Medeiros Marinho	S.P3.123, S.P3.134		
Rosana Alves Gonçalves	C.P2.51, C.P4.156		
Rosana de Fátima Gonçalves	N.P1.10, N.P2.34, S.P2.49		
Rosana Fernandes Antonio	W.P2.39		
Rosana Rocha Cunha	S.OR3.9		
Rosana Zacarias Domingues	W.P2.48, Y.P3.84		
Rosângela Cássia de Sá Silva	X.P2.48		
Rosângela Silva	S.P3.109		
Rosângela Silva Laurentiz	Y.P3.56		
Rosário Benavente	D.P1.6		
Rosario Elida Suman Bretas	Y.P1.13		
Roselaine Silva Oliveira	C.P2.92		
Roselaine S. Oliveira	D.P4.118		
Roselena Faez	O.P2.53		
Roseli Marins Balestra	M.P3.109, S.P4.214, W.P3.76		
Rosely Aparecida Peralta	X.P1.35		
Rosemaire Souza Santana	K.P1.3		
Rosemeire dos Santos Almeida	W.P3.52, W.P3.71		
Rosinei Batista Ribeiro	M.P1.18		
Rosivaldo Xavier Silva	I.P1.7		
Rossana Mara da Silva Moreira Thiré	Y.P1.1		
Rossano Lang	O.P2.59		
Rossemberg Cardoso Barbosa	C.P1.36		
Rousana Ferreira Sousa	S.P4.212		
Rovan Fernandes Lopes	Z.P1.4		
Rozane de Fátima Turchiello Gomez	S.P2.102, S.P2.64, S.P3.112		
rozenn Le Parc	X.OR3.7		
Rubem Luis Sommer	B.OR2.2, B.OR3.7, B.P2.25, B.P2.29, B.P2.30		
Rubén Antonio Llobell Solé	I.P1.18		
Ruben Dario Guerra	G.P1.21		
Ruben Dario Guerra Tamayo	G.P2.40		
Rubén Dario Sinisterra	V.P2.24, Y.P3.92		
Rubens Bernardes-Filho	S.P4.198		
Rubens Chinali Canarim	BB.P1.16, BB.P1.4, W.P2.34, W.P3.61, W.P3.70		
Rubens Maribondo do Nascimento	A.P4.88, C.P3.120, K.P2.44, S.P3.152		
Rubens Santana dos Santos	C.P1.11		
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Saionara Vilhegas Costa		Q.P1.11	
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Sandra Crestani		K.OR4.12	
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Thalita Marcolan Valverde	D.P1.39	Thomas H Bointon	D.OR1.1
Thalles Senna Diógenes	S.P4.209	Thomas M. Brown	R.OR6.28
Thallis Leal Almeida	K.P1.14, S.P2.66, S.P2.79	Thomas Mosciatti	A.OR4.12
Thamasia Fernanda Evangelista	N.OR5.16, Y.P2.34	Thomas Rosenau	Y.OR4.13
Thamires da Silva Ribeiro	A.P4.96, N.OR5.20	Thomas T. M. Palstra	X.OR5.10
Thamires Mariano	D.P4.121	Thuany Maraschin	D.P1.5
Thamires Santos Moreira	O.P2.70	Thuc-Quyen Nguyen	Q.OR2.3
Thangaraj Pandiyarajan	V.P1.8	Tiago Albertini Balbino	F.OR2.6
THARSIA CRISTIANY DE CARVALHO COSTA	C.P1.24	Tiago Almeida Martins	A.P4.99
Thassia Félix Almeida	S.P2.67, S.P2.80	Tiago André Denck Colman	M.P1.11, M.P1.17
Thayrine Bráz Taveira	C.P1.37	Tiago Araújo Neves	G.P2.50
Thayse Marques Passos	Y.P1.1	Tiago Becerra Paolini	O.OR3.10
Thayza Pacheco dos Santos Barros	AA.P1.15, AA.P1.7	Tiago Carneiro Gomes	A.P4.72, BB.P1.15, BB.P1.6, C.P4.190, O.P2.62, O.P3.75, O.P3.77
Thercio Henrique de Carvalho Costa	K.P2.36, M.P2.64	Tiago Cechinel Borges	S.P3.139
Thereza Cristina de Lacerda Paiva	G.OR4.11	Tiago Cesar Gimenes	C.P4.222
Thiago A L Burgo	J.OR2.7	Tiago da Rosa Augustinho	K.OR3.10
Thiago Almeida Silverio	Q.P3.78, Q.P3.78	Tiago dos Santos Pereira De Sousa	W.P2.40
Thiago André Salgueiro Soares	C.P3.132, C.P4.202, C.P4.217, C.P4.226	Tiago Franca Paes	C.P1.38, N.P1.22
Thiago A.S. Cardoso	N.OR4.14	Tiago Kalile	F.P1.12
THIAGO AUGUSTO DE SOUSA MOREIRA	M.OR3.9, S.P4.176, S.P4.185	Tiago Lopes de Araújo	C.P4.179
Thiago Augusto Lodi	N.P1.1, N.P1.11, N.P1.15, N.P1.6	Tiago Melo Freire	C.P3.138
Thiago Barreto da Silva Amaral	M.P2.61	Tiago Mendes Santos	G.OR4.11
Thiago Branquinho de Queiroz	N.P2.47		

Tiago Moy da Silva	L.P1.9
Tiago Pereira Martins da Costa	X.P2.58
Tiago Pinheiro Braga	X.P1.14, Y.P3.87
Tiago Renovato	EXPOR1.2
Tiago Rodrigues	T.OR1.3, V.P1.6
Tiago Sergio Aleixo Barros	S.P4.188
Tiago Silva de Ávila	J.P2.28
Tibério Andrade dos Passos	AA.P1.17, AA.P1.2
Ticiane Vieira de Paula Souza	S.P4.186
Tien-Lin Lee	J.P1.19
Till Leissner	O.P2.48
Tim Wilderspin	R.OR5.26
Tiphane Andrade Figueira	S.P4.227
Tiziana Azario de Medeiros	D.P4.123, D.P4.124
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Tobias Uesbeck	N.P2.45
Tolou Shokuhfar	W.OR2.4, W.OR5.18, W.P2.36
Tomas Calmeiro	A.P2.38, C.P2.96
Tomás Dias	WS1OR2.3
Tomás Jeferson Alves de Mélo	K.P2.49, K.P2.62
Tomas Jungwirth	B.OR6.17
Tomás Nogueira Ribeiro	O.P2.68
Tommaso Del Rosso	C.P4.218, WS1OR2.5
Tonilson de Souza Rosendo	M.OR2.6
Toni Mueller	R.OR4.19
Ton Offermans	R.OR7.35
Tony Maxwell	R.P2.7
Trystan Watson	R.OR5.26
Tufy Kabbas Junior	X.P1.8
Túlio Sérgio de Almeida	L.P1.10
Tumkur Krishnaswamy Gundu Rao	N.P1.18, N.P1.21

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Ubirajara Pereira Rodrigues Filho	K.OR3.8, K.P1.26, X.OR2.2, X.OR6.12, X.P1.13, X.P1.26, X.P1.31, X.P1.33, X.P1.9, X.P2.52
Ueverson Barros Lima	D.P2.50
Ugo Belini	S.P2.57
Uilame Umbelino Gomes	D.P3.92
Uílame Umbelino Gomes	AA.P1.5, AA.P1.6, D.P3.79, D.P4.110, M.OR1.2, M.P2.85, M.P3.101, S.P2.47, S.P4.215
UILIAN GABALDI YONEZAWA	D.P4.126
Uine Lima Oliveira	N.P2.48
Ulisses Ferreira Kaneko	E.OR2.4
Ulisses Soares do Prado	S.P4.225
Ulrich Abram .	B.P2.41
Ulrike Wolff	B.P2.34
Ursula Maria Mayer	R.OR4.22
Uwe Ritter	R.OR8.41
Uwe Specht	K.OR5.17

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Vadym Prysiaznyi	J.P1.15
Vagner Matos	S.P4.172
Vagner Romito de Mendonça	Q.P1.25
Vagner Zeizer Carvalho Paes	C.P2.56
Valbenilton Pereira de Souza	S.P1.14, S.P1.15, S.P1.16, S.P1.21
Valber Albuquerque Pedrosa	D.P3.106
Valdecir Biondo	B.P2.40, M.P1.29, M.P1.33, M.P1.38, M.P3.131
Valdecir Farias Ximenes	Y.P1.17
Valdecy Rodrigo Nascimento	M.P3.108
Valdemir Ludwig	N.P1.8
Valderes Drago	Y.P1.6
Valderi Duarte Leite	S.OR4.13, X.P2.53, X.P2.68
Valdir Aniceto Pereira Junior	S.P2.83, Y.P3.104, Y.P3.59, Y.P3.78
Valdirlei Fernandes Freitas	I.OR2.8, I.P1.14
Valentim Barao	W.OR2.4
Valeria Del Campo	D.P1.24, K.P2.64
Valéria Spolon Marangoni	O.P1.28, T.P3.24
Valérie Bouquet	J.OR1.3, Q.P1.17
Valérie Briois	F.OR3.11, F.OR3.9, F.OR4.12, F.OR5.16, F.OR5.18, F.OR5.19, F.P1.9, F.P2.22, F.P2.31
Valerie Demange	J.OR1.3, Q.P1.17
Valerio Pruneri	WS2OR2.5
Valesca Donizeti Oliveira	M.P2.66, M.P2.69
Valfrido Furtado Leite Filho	Y.P3.79
Valmir Antonio Chitta	B.P2.42
Valmir B Silva	S.OR5.16
Valmor R Mastelaro	C.OR4.13
Valmor Roberto Mastelaro	F.OR3.8
Valquiria Da Cruz Rodrigues Barrioto	O.P1.13, O.P1.24
Valquiria Rodrigues	A.P4.84
Valquiria Villas-Boas	BB.OR1.3
Valtencir Zucolotto	O.OR2.5, O.P2.65
Valter Bezerra Dantas Dantas	S.P1.23, S.P2.47, S.P4.215
Valter José Fernandes Junior	D.P3.79, D.P4.110
Valter Roberto Brito Celestino	S.P3.151
Valter Stefani	X.OR3.6
Vander Alkmin dos Santos Ribeiro	M.P2.66, M.P2.69
Vanderlan Vieira Santos	S.P3.142
Vanderlei Gageiro Machado	WS1.P1.8
Vanderli Laurindo Junior	A.P3.62
Vanesa Mitchell Ferrari	D.P4.122
Vanessa Argolo Oliveira	N.P2.48
Vanessa Barbosa Andrade	D.P1.39, W.P3.73
Vanessa Bezerra da Silva	Y.P1.19
Vanessa Bezerra Vilela	D.P3.102, D.P3.107
Vanessa Guido Bicudo	S.P2.62
Vanessa L Pool	R.OR6.29
Vanessa Maria Ferreira de Araujo	D.P3.108, D.P3.97
Vanessa Motta Chad	M.P1.28, M.P2.59, M.P2.60

Vanessa Priscila Scagion	C.P3.112, C.P3.114	Vida Engmann	R.OR.8.41
Vanessa Rodrigues de Camargo	C.P4.193	Vilany Santana Pereira	A.P1.10, O.P1.2
Vanessa Santos Borges	A.P4.96	Viliam Sinka	M.P3.122
Vânia Caldas de Sousa	C.P2.63	Vilma Conceição Costa	Q.P2.47, Q.P2.51
Vânia Denise Schwade	B.P2.41	Vinayaraj Ozhukil Kollath	W.P1.13
Vania Emerich Bucco de Campos	C.P2.73, Y.P1.3, Y.P3.52	Vincent Meunier	J.OR3.11
Vânia FREITAS	X.OR3.7	Vincent Vivier	M.OR3.10, M.P3.112
Vanildo Souza Leão Neto	A.P1.2	Vincenzo Palermo	A.OR4.12
Vårin R. A. Holm	A.P1.17	Vinicius Carrillo Beber	K.OR2.6, K.OR3.8, K.P1.26
Varlei Rodrigues	O.P2.66	Vinicius Claudio Zoldan	N.P1.17
Vasco Teixeira	C.P4.187	Vinicius Dias Silva	WS1.P1.7
Vasumathi Valechi	K.OR2.5	Vinicius Di Hipólito	C.P4.209
Vera Lucia da Silva Marinho	D.P3.108, D.P3.97	Vinicius Gomes de Paula	M.OR6.26
Vera Lúcia Scherholz Salgado Castro	T.P3.21	Vinicius Gomide Castro	D.P1.29
Vera Rosa Capelossi	K.P1.13, K.P1.14, K.P1.8, K.P1.9, S.P1.6, S.P2.66, S.P2.67, S.P2.79, S.P2.80	Vinicius Gonçalves Deon	A.P1.24, C.P3.102, D.P2.64, I.P1.2, I.P1.8, S.P4.196, S.P4.199, W.P3.66, Y.P3.68
Verónica Andrea Jimenez	G.P2.36	Vinicius Guilherme Celante	K.P1.31, K.P2.40, S.P2.91
Veronica de Carvalho Teixeira	N.OR3.9	Vinicius Jessé Rodrigues de Oliveira	O.P2.57
Verónica Jiménez	G.P2.35, Y.P3.66	Vinicius Karlinski de Barcellos	G.P2.53
Veronika Obersteiner	O.OR1.1	Vinicius Martins Freire	D.P3.84
Véronique Mignonney	W.OR3.8	Vinicius Mateus Borges	Y.P1.25
Vicente Galber Freitas Viana	K.P2.55, V.P1.17, Y.P3.96	Vinicius Pereira	S.P1.1, S.P2.72
Vicente Galber Freitas Viana Junior	K.P2.55, V.P1.17, Y.P3.96	Vinicius Rodrigues Pimentel	S.P1.31
Vicente Nadal Neto	S.P3.117	Vinicius R Zanchin	R.OR4.20, R.OR7.35, WS2OR2.9
Vicente Sousa Marques	A.P3.57	Vinicius Souza	M.P3.104, M.P3.105
Victor Almeida Araujo	S.P3.115	Vinicius Varandas Volpato	W.P1.15
Victor Anthony Garcia Rivera	I.P1.27, N.P3.92	Vinie Abreu Christino	V.P2.22
Victor Augusto Cavalli	C.P1.40	Virgilio Correcher Delgado	N.OR3.10
Victor Barbosa Campos	X.P1.10	Virgilio de Carvalho dos Anjos	N.P1.8
Victor Buratto Tinti	Q.P1.26	Virginia Bezerra Oliveira Campos	L.P1.1
Victor Ciro Solano Reynoso	G.P2.48, P.P2.12, Q.P2.36	Virginia da Conceição Amaro Martins	V.P1.3, V.P1.5, V.P1.7
Victor Coutinho Bastos	D.P1.39	Virginie Moizan	F.OR4.12
Victor Cunha Castro	S.P4.208	Vitalii Petranovskii	F.P2.30
Victor Emarkov	Q.P1.4	Vitaly V. Chaban	D.P2.46, D.P2.51
Victor Ermakov	D.P3.91	Vitoldo Swinka Filho	O.P1.39
Victor Fan Arcara	M.P2.75	Vitor César Dumont	Y.P3.50, Y.P3.51
VICTOR HUGO RODRIGUES DE SOUZA	D.P2.61, O.P1.39	VITOR CEZAR BROETTO PEGORETTI	S.P4.175
Victor Hugo Vitorino Sarmento	F.P2.23	Vitor de Almeida Assuena	M.P2.72
Victória Vieira Kopp	X.P2.41	Vitor Hugo Oliveira	Y.P1.25
Victor I Klimov	Q.OR4.10	Vitoria Barthem	B.OR2.3
Victor José dos Santos Baldan	S.P4.221, S.P4.222	Vitor Manoel de Araújo Silva	M.OR5.20
Victor Lopez Richard	C.P2.76	Vitor Pires Martinez	X.P1.9
Victor Manuel Prida	B.OR3.7, B.P2.36	Vitor Ramalho de Brito	L.P1.1
Victor M Fuenzalida	D.P2.54	Vitor Rodrigues de Sá	K.P2.51
Victor Moreira da Costa	C.P3.127	Vitor Toshiyuki Abrão Oiko	O.P2.66
Victor Prevost	W.OR6.19	Viviana González Velázquez	D.P3.93, Y.P3.88
Victor Ramón Martínez Zelaya	A.P2.36	Viviane Alves Ferreira	D.P2.50
Victor Raúl Jauja Ccana	D.OR5.16	Viviane Azambuja Favre-Nicolin	G.P1.17, M.P1.16
Victor Rocha da Silva	N.P1.8, S.P2.58	Viviane Cristina Munhoz	C.P2.75, C.P2.89, C.P2.97
Victor Vega	B.OR3.7, B.P2.36	Viviane - Dalmoro	X.P2.50
Victor Viana Oliveira	A.P1.22	Viviane Guimarães Andrade Pires	C.P2.95
Victor X. Mendoza-Escamilla	C.P2.62, C.P4.149, C.P4.225	Viviane Lilian Soehte	D.P4.132

Viviane Lilian Soethe	D.P3.84, J.P1.12		N.P2.51
Vivianna Silva de Oliveira	S.P3.133	Walter Miyakawa	A.P3.62, J.P1.10, J.P2.31, J.P2.35
Vivianne Da Silva Pinheiro	C.P4.207	Walter Orellana	A.OR6.20
Vladan Stevanovic	G.OR6.18	Walter Raysth Martínez	S.P1.20
Vladimir Ivanovitch Monine	M.P1.2	Walter Ricardo	A.P1.14
Vladimir Jerez	P.OR8.24	Walter Ricardo Brito	F.P2.27, R.P1.6
Vladimir Jesus Trava-Airoldi	D.P1.30, D.P4.145, V.P2.21, V.P2.22, V.P2.33	Walter Rodrigues da Silva Filho	K.P2.49, K.P2.62
Vladimir M Fokin	N.P2.58	Wanderleiton da Silva Cardoso	M.P1.47
Vladimir Popov	J.P2.28	Wander Luiz Vasconcelos	W.P3.73
Vladimir Sechovský	Z.P1.2	WANDERSON MARCELLUS PENHA COSTA	D.P3.85, D.P4.138
Vladir Wagner Ribas	A.P4.100	Wanderson Santana da Silva	S.P4.182
V. Neu	B.P2.34	Wanderson Souza	T.P3.15, V.OR2.5, W.OR5.17
Volker Altstädt	S.P3.138	Wanessa de Cássia Martins Antunes Melo	Y.P3.90
Volney Mattos de Oliveira	W.P3.72	Wanessa K R Rocha	V.OR3.9
Volodymyr Zaitsev	K.OR4.13	Wang Feng	D.P1.1
Von Braun Nascimento	J.OR3.11	Wang Shu Hui	O.P2.44, S.P3.133
Von Ivison Mariano Paulo	B.P1.10	Wanison André Gil Pessoa Júnior	S.P4.173
V. Plotnichenko	P.P1.9	Ward Plummer	J.OR3.11
Vsevolod Mymrine	S.P1.25, S.P2.60	Washington da Silva Sousa	O.P1.10, O.P1.27, O.P1.9
		Washington Magalhães	C.P2.59
<b>W</b>		Washington S. Sousa	O.P2.42
Wade Aaron Jensen	A.OR3.11	Wassim Raja El Banna	S.P1.29, S.P1.31
Wade Braunecker	R.OR1.4	Waydson Martins Ferreira	M.OR2.7
Wagner Alves Lopes	A.P4.100	wayne Francis	O.OR2.6
Wagner Cirilo Rodrigues	C.P1.5	Weleubianne Matias Nascimento	Y.P3.96
wagner da silveira	WS2.P1.2	Wei-Fang Su	F.P1.14
Wagner de Mendonça Faustino	N.P1.20	Wei Xia	C.P3.104, W.P2.31
Wagner de Oliveira da Rosa	B.OR3.7	Welber Gianini Quirino	G.OR5.13, O.OR3.11, O.P3.101, O.P3.103
Wagner Dias Macedo Junior	C.P4.163, C.P4.167, C.P4.201	Welchy Leite Cavalcanti	K.OR3.8, K.P1.16, K.P1.26, K.P2.56
Wagner Ferreira da Silva	N.P3.94	Welisson Pontes Silva	O.P2.70
Wagner José Fávoro	T.P2.10, T.P2.11, T.P2.12	Wellerson Davi Dos Santos Deniz	D.P1.33
Wagner Luiz Polito	S.P1.2	Wellington A. de Freitas	S.P4.214
Wagner Mendonça Faustino	N.OR2.7, N.P3.80, N.P3.82, N.P3.87, N.P3.88	Wellington Akira Iwamoto	C.P4.147
Wagner Nunes Rodrigues	P.OR3.9	Wellington Henrique Cassinelli	F.OR5.19
Wagner Rafael Correr	X.P1.26	Wellington Ribamar Sousa	S.P3.127
Wagner Ramos	Y.OR3.9	Welter Cantanhêde	C.P1.16
Wagner Souza Machado	A.P2.31, D.P1.9, D.P2.53	Wendel Andrade Alves	C.P4.223
Waldeci Paraguassu	A.P1.22, O.P1.5, O.P2.60	Wendell Simões Silva	Z.OR3.9, Z.P1.16
Waldeir Amaral Vilela	Q.P3.67	Wender Santana	M.P3.107
Waldemar Alfredo Monteiro	M.P2.63, M.P3.117, M.P3.120	Wendy Luz Alexandre	M.OR3.12
Waldemar Augusto de Almeida Macedo	B.OR2.3, B.OR2.4, B.OR3.9, B.P1.15, B.P1.18, B.P1.2, B.P1.8, C.P1.19	Weslany Silvério Neto	C.P2.85
waldemar macedo	B.OR3.8	Wesley Becari	A.P3.51
Waldomiro Gomes Paschoal Jr.	A.P1.22, C.P4.185	Wesley Bruno da Silva Machini	C.P4.168, D.P1.37
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Wallace Castro Nunes	B.P2.26	Wesley Francisco	D.P2.71, D.P2.72
Wallace de Castro Nunes	B.P2.28	Wesley Nascimento Barros	M.P1.18
Walter Alves da Cruz	X.P2.44	Wesley Renato Viali	C.P1.21, P.OR2.6, P.P2.10
Walter Katsumi Sakamoto	D.P1.33, P.P2.12	Wesley Renzi	O.P3.82
Walter Ladislau Barros Ribeiro	S.P4.223	wesley santos galvao	C.P3.127, I.P1.12
walter mendes de azevedo	A.P2.40, C.P2.66, N.OR2.6,	Wesley Luiz da Silva Assis	G.P2.50, G.P2.51, G.P2.65
		Whellisson da Silva Dias	M.P1.44

Wieslaw Streck	N.P1.33, P.OR4.10	Yassuko Yamamoto	X.P1.18
Wilhan Donizete Gonçalves Nunes	M.P1.11, M.P1.17	Yasumasa Suzuki	R.P1.4
William Ferreira da Cunha	O.OR5.17	Yelaman Aibuldinov	S.P1.25
Wilker Costa de Oliveira	D.P4.131, M.P2.76, S.P1.33	Yendry Corrales Urena	K.OR4.11, K.OR4.14, K.P1.2, Y.P1.9
William Alan Doolittle	Q.OR8.23	Yésica Di Iorio	Q.P2.41
William Chiappim	Q.P2.34	Yiming Liu	G.P1.31
William Emanuel Silva Santos Viana	A.P4.91, D.P2.47	Yina Julieth Onofre Ramirez	A.P2.44
William Gerson Matias	T.OR2.5, T.OR3.9	Ylla Grasielle dos Santos Alves	N.P3.86
William Guterres Oliveira	D.P4.111	Yohanna Seminovski	G.OR2.5
William Imamura	M.P1.49	Yolanda Andrade Rodrigues	M.P2.71, M.P2.73
William José Valnier	S.P2.81	Yolanda Cavalcante de Miranda	N.P3.87
William Marcondes Facchinatto	Y.P1.18	Yolice Patricia Moreno Ruiz	F.OR1.3, F.P1.3
William Querido	V.P2.34	Yonny Romaguera Barcelay	A.P1.21
William Santos Magalhães	M.P2.87, M.P2.89	Yordanka Reyez Cruz	S.P1.19
William Edgardo Alayo	B.P1.21, B.P1.7	Yoshihiko Nakano	R.OR4.18
William Hermogenes Ferreira	D.P2.42	Yoshitaka Gushikem	X.P2.47
Wilma Eerenstein	R.OR2.8	Yu-Ching Huang	F.P1.14, R.P1.1
wilney de Jesus Rodrigues Santos	A.P4.73, A.P4.83, A.P4.93, D.P3.100, D.P3.103, D.P3.105, O.P3.95, X.P2.64	Yulia Galagan	R.OR3.13
Wilson Aires Ortiz	Z.OR3.7	Yunier Garcia Basabe	A.P2.32, A.P2.47, C.P4.196, J.P1.4
Wilson Alves Ribeiro Neto	Y.P1.13	Yunier Garcia-Basabe	F.P2.27
Wilson Engelmann	T.OR2.7	Yuri Grin	AA.OR1.1
Wilson Irajá Ribas Neto	K.OR5.17	Yuri Hemerly Poyares Café	X.P1.36
Wilson Ricardo Weinand	I.OR2.8	Yuri Kobayakawa	A.OR5.16
Winder A. Moura-Melo	B.P1.4	Yuri Lincoln Marques Bastos	J.P2.21
Wirland Matheus de Melo Costa	S.P4.193	Yurimiler Leyet Ruiz	A.P1.14, A.P1.21
Witor Wolf	AA.OR1.3	Yuri Pusep	A.P1.20
Wivyan Castro Lage	S.P1.28	Yuri Pussep	Q.P1.23
Wladimir Hernandez Flores	S.P3.126, WS2.P1.1, X.P2.41	Yuriy Kholin	K.OR6.18, X.P2.59
Wojciech Pisula	O.OR6.21	Yu Sekiguchi	K.OR6.21
Wolfgang Gries	WS2OR3.11	Yuset Guerra Dávila	B.P1.14, G.P1.16, X.OR5.9
Wyllamanny da Silva Pereira	N.P1.23, N.P3.62	Yusuke Fukuhara	W.OR5.16
		Yusuke TSUTSUMI	W.OR1.3, W.OR5.16, W.OR6.21
		Yutao Xing	B.P2.26, B.P2.28, C.P4.175, C.P4.211
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Xavier Cattoën	X.OR3.7		
Xavier Gratens	B.P2.42		
Xiaobo He	J.OR3.11		
Ximena Elizabeth Puentes	F.OR2.6, F.P2.28		
<b>Y</b>			
Yahia Didane	R.OR1.7, R.P1.5		
Yana Luck Nunes	S.P4.208		
Yanela Mendez Abreu	I.P1.23		
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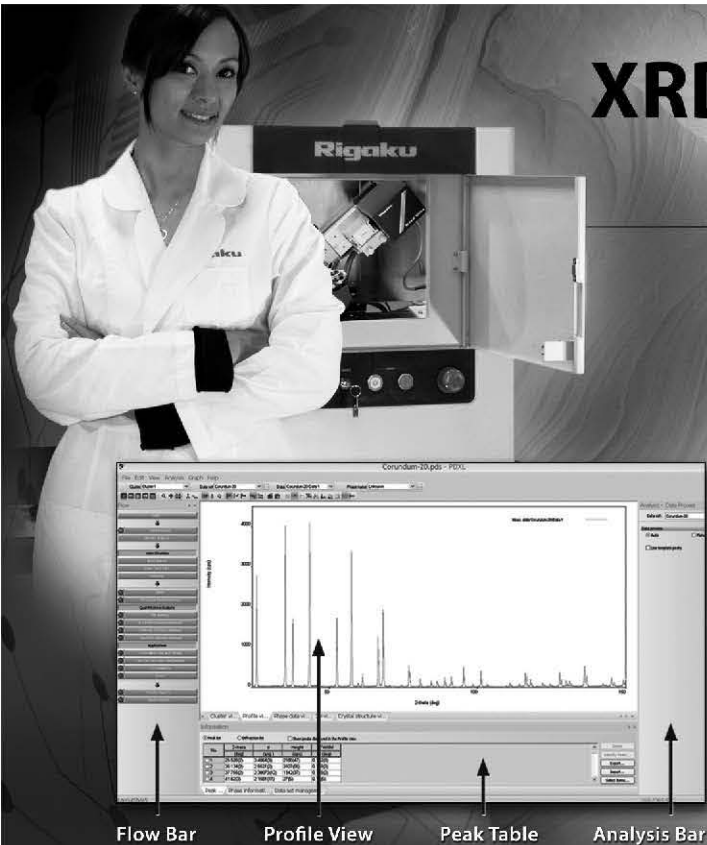
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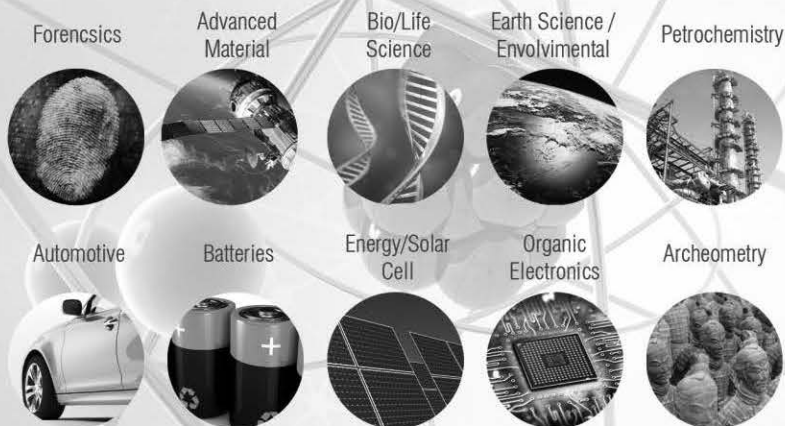


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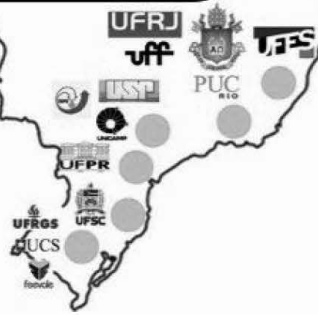


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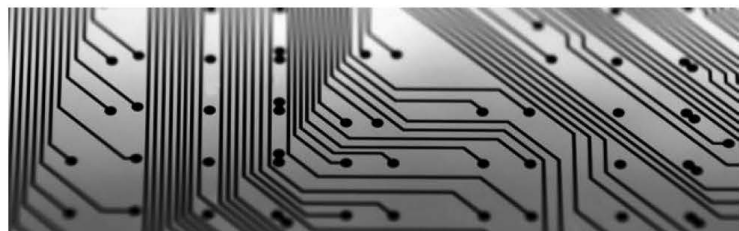
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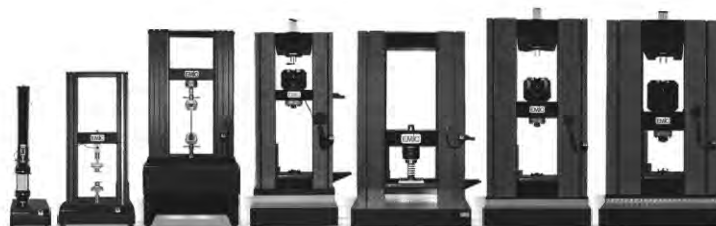
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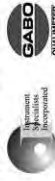


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