

X Brazilian MRS Meeting



## **Program Book**

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# 10 YEARS OF THE BRAZILIAN MRS (SBPMat)

Dear colleagues and SBPMat members,

The Brazilian Materials Research Society (SBPMat) is celebrating 10 years of existence. During this period, our society has been increasingly recognized in Brazil and abroad. We are now a member of the International Union of Materials Research Societies (IUMRS). Thanks to the support from the community and its scientific leaderships, our success can be credited to the high scientific and technological level of the annual meetings, which are becoming increasingly visible in the international scenario and attracting attendance from all over the planet.

The main objective of the Society is to congregate materials scientists from all areas, in order to stimulate and synergize the development of knowledge and its transfer to the society. For this sake, it is very important to continuously consolidate the SBPMat, improving its infrastructure and enhancing the support for workshops and meetings.

We are now starting our 10<sup>th</sup> meeting, held September 25-29<sup>th</sup> in Gramado-RS. We expect a massive participation of the Brazilian MRS community. This meeting, with its special symbolic character of the SBPMat 10<sup>th</sup> anniversary, is also an opportunity to re-evaluate our actions and suggest new directions in materials research and technology. The engagement of all the community members is very important to support the SBPMat goals and improve its contribution to such interdisciplinary and strategic area so needed for the economical, social and ecologic growth of Brazil.

José Arana Varela

SBPMat President

# WELCOME TO THE MEETING

Dear Participants,

Following its traditional format, the 2011 Brazilian Materials Research Society meeting, held on September 25-29 in Gramado - RS, features 16 dedicated **Symposia** involving a series of topics comprising Materials for Energy and Sustainability, Organic and Bio-Materials, Structural Materials, Electronic, Photonic and Spintronic Materials, as well as a symposia containing only poster contributions on General Materials Science. The meeting congregates about 1400 participants and has more than 1850 accepted abstracts.

To complement the symposia sessions, the program includes nine **Plenary Lectures** presented by world renowned specialists. In addition, the **Exhibit** brings showcase products and instruments of interest to the materials community, and three dedicated **Tutorial Courses** on Materials Investigation using Synchrotron Radiation are offered upon previous subscription.

The Brazilian Materials Research Society (**SBPMat**) staff and board, the hired agencies, the Local and National Scientific Committees and the Symposium Organizers have done a great effort to organize the meeting.

On behalf of this team, we welcome you in the city of Gramado, with its pleasant mountain environment, wishing to accomplish an interesting meeting, stimulating the exchange of scientific information and inspiring new ideas and collaborations.

Paulo F. P. Fichtner and Naira M. Balzaretto

Meeting Chairs

# ORGANIZING COMMITTEE

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## VENUE

# Gramado

Estimated population: 31.655 (IBGE, 2007)

Area of territorial: 237 Km<sup>2</sup>

Altitude: 885m

Colonization: Italian and German Immigrants

Placed in the heart of the Region of Hortênsias, the town was set up to be a touristic polo with the Best business and pleasures in the sector. As a consequence Gramado earned more investments that added to its natural beauty and structure a potential that surprises the people who still do not know the place.

With its fame and prestige, attracts visitors, confirms a high index of satisfaction – more than 90%. A consensus of loyalty that only few places have.

Gramado is that way, so special, unique, that seems a sin not to visit it.



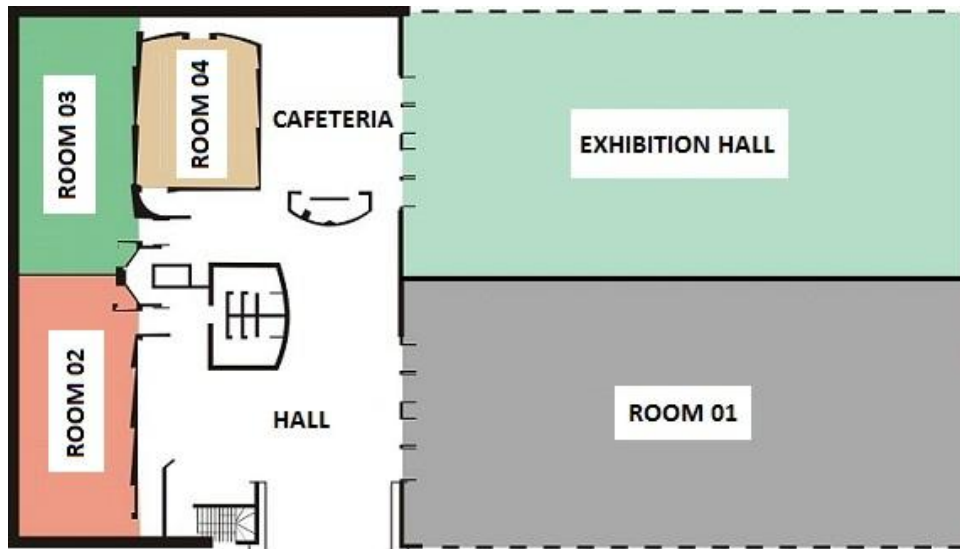
The Meeting will take place at UFRGS Conference Center located at Rua São Pedro, 663 (see Map # 19).





## SITE MAP

### GROUND LEVEL (0)



### FIRST FLOOR (1)



### SECOND FLOOR (2)



## GENERAL SCHEDULE

	25/09 Sunday	26/09 Monday	27/09 Tuesday	28/09 Wednesday	29/09 Thursday
08:30 – 09:25h (50+5 min.)		<b>Plenary Lecture 1</b>	<b>Plenary Lecture 4</b>	<b>Plenary Lecture 5</b>	<b>Plenary Lecture 8</b>
09:30 – 10:30h <b>Symposia</b> (inv=25+5) (oral=12+3)		Inv 9:30-10:00	Inv 9:30-10:00	Inv 9:30-10:00	Inv 9:30-10:00
		Oral 10:00 – 10:15	Oral 10:00 – 10:15	Oral 10:00 – 10:15	Oral 10:00 – 10:15
		Oral 10:15 – 10:30	Oral 10:15 – 10:30	Oral 10:15 – 10:30	Oral 10:15 – 10:30
10:30 – 10:55h		<b>Coffee Break (25 min)</b>	<b>Coffee Break (25 min)</b>	<b>Coffee Break (25 min)</b>	<b>Coffee Break (25 min)</b>
11:00 – 12:30h <b>Symposia</b> (inv=25+5) (oral=12+3)		Inv 11:00-11:30	Inv 11:00-11:30	Inv 11:00-11:30	<b>Plenary Lecture 9</b> 11:00 – 12:00h
		Oral 11:30 – 11:45	Oral 11:30 – 11:45	Oral 11:30 – 11:45	
		Oral 11:45 – 12:00	Oral 11:45 – 12:00	Oral 11:45 – 12:00	
		Oral 12:00 – 12:15	Oral 12:00 – 12:15	Oral 12:00 – 12:15	
		Oral 12:15 – 12:30	Oral 12:15 – 12:30	Oral 12:15 – 12:30	<b>12:00h Awards 12:30h Closing</b>
12:30 – 14:00h		Lunch	Lunch	Lunch	
14:00 – 14:55h (50+5 min.)		<b>Plenary Lecture 2</b>	<b>Poster section Coffee Break Exposition</b> 14:00-16:00h	<b>Plenary Lecture 6</b>	
15:00 – 16:00h <b>Symposia</b> (inv=25+5) (oral=12+3)		Inv 15:00-15:30		Inv 15:00-15:30	
		Oral 15:30-15:45		Oral 15:30-15:45	
		Oral 15:45-16:00		Oral 15:45-16:00	
	14:00 – 19:00h registration	<b>Poster section Coffee Break Exposition</b> 16:00 – 18:00h		<b>Poster section Coffee Break Exposition</b> 16:00 – 18:00h	transfers to Porto Alegre
18:00 – 19:00h		<b>Plenary Lecture 3</b> 18:00 – 19:00h		<b>Plenary Lecture 7</b> 18:00 – 19:00h	
19:00 – 19:30h	<b>Opening</b>		Free		
19:30 – 20:25h	<b>Memorial Lecture Joaquim Costa Ribeiro</b>				
20:30h	<b>Cocktail</b>		<b>Celebration 10 years of SBPMat</b>		



27/09/2011 – Tuesday																	
PLENARY LECTURE 4 – Prof. Paulo P. Freitas – “Spintronic Microsystems: from Lab on Chip to MEMS Applications”																	
8:30 - 9:30h	SYMPOSIA Room	A 21	B 04	C 16	D 03	E	F 02	G	H 17	I 23	J	K 24	L 01	M 12	N 13	O 22	P 11
ORAL SESSION 4 09:30 – 10:30h	09:30 – 09:45	A4.1	B4.1	C4.1	D4.1		F4.1		H4.1	I4.1		K4.1	L4.1	M4.1	N4.1	O4.1	P4.1
	09:45 – 10:00	Invited	Invited	Invited	Invited		Invited		H4.2	Invited		Invited	Invited	Invited	Invited	Invited	Invited
	10:00 – 10:15	A4.2	B4.2	C4.2	D4.2		F4.2		H4.3	I4.2		K4.2	L4.2	M4.2	N4.2	O4.2	P4.2
	10:15 – 10:30	A4.3	B4.3	C4.3	D4.3		F4.3		H4.4	I4.3		K4.3	L4.3	M4.3	N4.3	O4.3	P4.3
10:30 – 10:55h	<b>Coffee Break</b>																
ORAL SESSION 5 11:00 – 12:30h	11:00 – 11:15	A5.1	B5.1	C5.1	D5.1		F5.1		H5.1	I5.1		K5.1	L5.1	M5.1	N5.1	O5.1	P5.1
	11:15 – 11:30	Invited	Invited	Invited	Invited		Invited		H5.2	Invited		Invited	Invited	Invited	Invited	Invited	Invited
	11:30 – 11:45	A5.2	B5.2	C5.2	D5.3		F5.2		H5.3	I5.2		K5.2	L5.2	M5.2	N5.2	O5.2	P5.1
	11:45 – 12:00	A5.3	B5.3	C5.3	D5.4		F5.3		H5.4	I5.3		K5.3	L5.3	Invited	N5.3	O5.3	Invited
	12:00 – 12:15	A5.4	B5.4	C5.4	D5.5		F5.4		H5.5	I5.4		K5.4	L5.4	M5.4	N5.4	O5.4	P5.3
12:15 – 12:30	A5.5		C5.5	D5.6		F5.5		H5.6	I5.5			L5.5	M5.5	N5.5	O5.5	P5.4	
12:30 – 14:00h	<b>Lunch</b>																
14:00 – 16:00h	<b>POSTER SECTION 2 Coffee Break Exposition</b>																
16:00 - 20:30h	<b>FREE</b>																
20:30h	<b>CELEBRATION – 10 YEARS OF SBPMAT</b>																

28/09/2011 –Wednesday																	
PLENARY LECTURE 5– Prof. Terence G. Langdon– “Recent Advances in the Processing and Properties of Ultrafine-Grained Metals Using Severe Plastic Deformation”																	
8:30 - 9:30h	SYMPOSIUM Room	A 21	B 04	C	D 03	E 22	F 02	G 12	H 17	I 23	J 16	K 24	L 01	M	N	O	P 11
ORAL SESSION 6 09:30 – 10:30h	09:30 – 09:45	A6.1	B6.1		D6.1	E6.1	F6.1	G6.1	H6.1	I6.1	J6.1	K6.1	L6.1				P6.1
	09:45 – 10:00	Invited	Invited		D6.2	Invited	Invited	Invited	H6.2	I6.2	Invited	Invited	Invited				Invited
	10:00 – 10:15	A6.2	B6.2		D6.3	E6.2	F6.2	G6.2	H6.3	I6.3	J6.2	K6.2	L6.2				P6.2
	10:15 – 10:30	A6.3	B6.3		D6.4	Invited	F6.3	Invited	H6.4		J6.3	K6.3	L6.3				
10:30 – 10:55h	<b>Coffee Break</b>																
ORAL SESSION 7 11:00 – 12:30h	11:00 – 11:15	A7.1			D7.1	E7.1	F7.1	G7.1	H7.1	I7.1	J7.1	K7.1	L7.1				
	11:15 – 11:30	Invited			D7.2	Invited	Invited	Invited	H7.2	Invited	Invited	Invited	Invited				
	11:30 – 11:45	A7.2			D7.3	E7.2	F7.2	G7.2	H7.3	I7.2	J7.2	K7.2	L7.2				
	11:45 – 12:00	A7.3			D7.4	Invited	F7.3	G7.3	H7.4	I7.3	J7.3	K7.3	L7.3				
	12:00 – 12:15	A7.4			D7.5	E7.3	F7.4	G7.4	H7.5	I7.4	J7.4	K7.4	L7.4				
12:15 – 12:30	A7.5			D7.6	Invited	F7.5					K7.5	L7.5					
12:30 – 14:00h	<b>Lunch</b>																
14:00 - 15:00h	<b>PLENARY LECTURE 6–Prof. Bruce Dunn – “The Design of Materials and Architectures for Capacitive Energy Storage”</b>																
ORAL SESSION 8 15:00 – 16:00h	15:00-15:15	A8.1			D8.1	E8.1	F8.1	G8.1			J8.1	K8.1	L8.1				
	15:15-15:30	Invited			D8.2	Invited	F8.2	Invited			Invited	Invited	L8.2				
	15:30-15:45	A8.2			D8.3	E8.2	F8.3	G8.2			J8.2	K8.2	L8.3				
	15:45-16:00				D8.4	E8.3	F8.4	G8.3				K8.3	L8.4				
16:00 – 18:00h	<b>POSTER SECTION 3 Coffee Break Exposition</b>																
18:00 - 19:00h	<b>PLENARY LECTURE 7 –Prof. Donald Bradley – “The Influence of Film Morphology in High-Mobility Organic Films: Polymer Blend Organic Transistors and Other Devices”</b>																

26/09/2011 – Thursday																	
PLENARY LECTURE 8 – Prof. Gary L. Messing – “Rare Earth-Doped oxide Ceramic Laser Gain Media – Processing, Properties and Challenges”																	
8:30 - 9:30h	SYMPOSIA Room	A 21	B	C	D	E 22	F	G 12	H	I	J 16	K	L 01	M	N	O	P
ORAL SESSION 9 09:30 – 10:30h	09:30 – 09:45	A9.1				E9.1		G9.1			J9.1		L9.1				
	09:45 – 10:00	Invited				Invited		Invited			J9.2		L9.2				
	10:00 – 10:15	A9.2				E9.2		G9.2			J9.3		L9.3				
	10:15 – 10:30	A9.3				Invited		G9.3					L9.4				
10:30 – 10:55h	Coffee Break																
PLENARY LECTURE 9 – Prof. Edson Leite – “Better Nanomaterialsthrough Chemistry: Novel Strategies for the Synthesis of Metal Oxides Nanoparticles”																	
11:00 - 12:00h																	
12:00 – 12:30h	CLOSING																

“School on Techniques for Materials Characterization with Synchrotron Radiation”

Monday 16:00 – 19:00  
 Tuesday 15:00 – 18:00  
 Wednesday 15:00 – 18:00

Courses:  
 i) X-ray absorption fine structure (XAFS) Room 13  
 ii) Small angle X-ray scattering and X-ray reflectometry Room 14  
 iii) Short course on the Rietveld method Room 15

Poster Presentations (Exhibition Hall)																	
SYMPOSIA	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
SP1 Monday 16:00 – 18:00h	✓	✓	✓	✓		✓					✓	✓		✓	✓		
SP2 Tuesday 14:00 – 16:00h	✓	✓		✓		✓			✓		✓	✓	✓			✓	
SP3 Wednesday 16:00 – 18:00h				✓	✓	✓	✓	✓	✓	✓		✓					✓

## TECHNICAL SCOPE

### SYMPOSIUM A - Magnetic and Superconducting Materials

The symposium is intended to bring together scientists and engineers interested in all aspects of experimental and theoretical research in magnetic and superconducting materials, as well as in their technological applications. Contributions are expected in topics ranging from basic properties to recent developments in magnetism and superconductivity at nanoscale. Emphasis will be given on new materials, properties and devices.

Participants are invited to submit abstracts related to the topics listed below. Contributions in other areas of magnetism and superconductivity will also be considered.

- Fundamental magnetic properties
- Hard and soft magnetic materials and applications
- Disordered magnetic materials
- Magnetocaloric materials
- Multiferroics
- Magnetic semiconductors; magnetism in carbon-based materials
- Magnetism in nanoparticles, nanowires, films, multilayers and other nanostructured materials ; molecular magnetism
- Exchange bias
- Magnetization dynamics and micromagnetism
- Spintronics in metals and semiconductors; spin dependent transport
- Applied magnetism and instrumentation; biomedical applications
- Magnetic recording
- Low-Tc superconductors
- Cuprate and iron-pnictide superconductors
- Interaction between magnetism and superconductivity

### SYMPOSIUM B - Biodegradable Polymer Materials

The symposium will cover ongoing research in biodegradable polymeric materials for coating, packaging, automotive, medical and other related

applications. Non-degradable polymeric waste has become a global concern in terms of both cost and ethics. Biodegradable polymers offer alternatives for packaging that minimize environmental pollution at a relatively low cost. Applications of these polymers in the food and biomedical industries have been investigated. For packaging, polymeric materials should function as a barrier for water, oxygen and lipid transfer in food systems and, therefore, should contribute to the extension in the shelf-life of food. For medical applications, the material should repair tissue defects, and be designed to exhibit adequate physical and chemical properties and, at the same time, to enhance cell adhesion, proliferation and differentiation. Although nanostructured reinforced composites are highly recommended for bone implants over the micrometer sized composites for their improved reinforcement efficiency and biological responses, they may also pose toxicological effects. Current trends in polymer science also reflect the fact that synthesis and manufacturing of polymers should be done using environmentally friendly processes. All these aspects of polymer science and technology are hugely demanding in present times.

- Biodegradable polymer nanocomposites
- Materials for biodegradable packaging
- Scaffolds for tissue engineering
- Synthesis, processing and characterization of biodegradable polymers
- Toxicity and biodegradability of polymeric materials

### SYMPOSIUM C - Electronic Materials

This Symposium will cover the fabrication and characterization of materials, interfaces, and devices ranging from advanced silicon technology to novel, unconventional systems. Contributions are welcome in both experimental and theory/simulation areas. Different classes of semiconductors (silicon, organic, wide band gap, high transfer channels etc.) and devices (high performance CMOS, discrete high power devices, flexible electronics etc.) will be addressed.

- Advanced materials in silicon technology
- Semiconductor surface passivation
- Organic semiconductors and devices
- Materials and devices for flexible electronics
- Wide band gap semiconductors and devices
- High transport channel materials
- Novel device structures



- Photo and electroluminescence
- Advanced materials for photovoltaics
- Nanostructured materials and nanoscale electronic devices
- Materials for "More than Moore" and "beyond CMOS" electronics

### **SYMPOSIUM D - Surface Engineering: fabrication, characterization, properties and applications of protective coatings and modified surfaces**

The aim of this symposium is to offer an overview on the frontiers of research, technology and applications of protective coatings and surface modifications by plasma, electron, ion or laser beams. Physicists, chemists, materials scientists, mechanical, material, metallurgical and mining engineers working in the field are the target audience.

- Nanostructured coatings, such as diamond-like carbon films, nanodiamond films, multi-component systems based on transition metal nitrides or oxides, hard nanocomposites and multi-functional nanolaminates, with a wide range of applications (automotive and machinery industries, aeronautic and aerospace industries, mining industry, oil and gas industry, medical implants, decoration, electronic industry, etc.);
- Surface modifications induced by energetic techniques such as ion implantation, laser treatment, plasma processing, etc.;
- Physical and chemical routes of synthesis with emphasis on emerging techniques: hybrid sputtering/CVD techniques, highly ionized sputter deposition, ion enhanced pulsed laser deposition, plasma-assisted chemical vapor deposition, atmospheric plasma, pulsed plasma, plasma-based ion implantation, activated reactive evaporation, cathodic arc, etc.;
- Fundamentals of deposition processes, growth modeling, substrate/surface effects, residual stresses;
- Characterization and properties of protective coatings and modified surfaces, including morphology, microstructure, composition, mechanical and tribological properties, tribochemistry, MEMS/NEMS interfaces and

chemical properties comprising chemical inertness, anti-microbial or self-cleaning finalities.

- Ultra-low friction coatings
- Recent progress in nanoindentation
- Micro and nanotribology
- Super hard coatings
- New deposition techniques
- Coatings for oil and gas industry
- Hydrophobic and hydrophilic coatings
- Nanostructured coatings
- Surface metrology

### **SYMPOSIUM E - Materials with Negative Properties / 8th International Workshop on Auxetic & Related Materials**

The Symposium E on Materials with Negative Properties will provide an unique opportunity for Brazilian and international scientific communities to discuss together the issues regarding to this exiting research field since 8th edition of the prestigious international conference on Auxetic & Related Materials will be held this year in September as a joint site conference with sites in Poland (<http://ifmpan.poznan.pl/auxetics2011/>) and Brazil (hosted at Symposium E).

The Symposium will provide an exciting environment for the discussion of recent theoretical and experimental developments in the general of materials that display unusual negative properties, such as negative thermal expansion, negative Poisson's ratio (auxetics), negative compressibility and negative refractive index (metamaterials).

The first reports on materials exhibiting negative thermal expansion (NTE), i.e., contracting as temperature increases, go back more than 50 years. This property is not restricted to exotic classes of materials. Even familiar compounds such as hexagonal ice and water show NTE, although over a limited temperature range. The field has been growing since the re-discovery of NTE in cubic ZrW<sub>2</sub>O<sub>8</sub> (AM2O8 family) in 1996. Several other classes of open-framework materials, including AO<sub>2</sub>, AMO<sub>5</sub>, AM<sub>2</sub>O<sub>7</sub>, A<sub>2</sub>O and A<sub>2</sub>M<sub>3</sub>O<sub>12</sub> compositions, have emerged as potential sources of crystalline phases displaying low or NTE. These materials have opened up opportunities for the scientific

community to exploit negative thermal expansion for a variety of applications. Negative compressibility materials expand when submitted to isostatic pressure. The emergence of nano science in last 20 years has led to the development and engineering of novel materials and properties through the design of complex architectures with engineered sizes, compositions and morphologies. For example, by controlling the ratio of single wall to multi-wall carbon nanotubes in composites their Poisson's ratio can be tuned from positive to negative values, making possible a biaxial expansion under hydrostatic pressures. Recently, it was experimentally demonstrated, for a certain wavelength range, that it is possible to design materials and systems with negative refractive index (so-called metamaterials), opening a rich research field with many envisioned applications.

The discovery of the materials with negative properties has stimulated the scientific community to pursue the development of models that both enable an understanding of the fundamental mechanisms responsible for these striking properties, and guide the development of novel materials, which could help overcome some of the technological challenges facing modern society.

- Negative thermal expansion materials
- Negative Poisson's ratio (auxetics)
- Negative compressibility
- Negative refractive index (metamaterials)

### **SYMPOSIUM F - Nanostructured Functional Materials for Advanced Energy and Environmental Applications**

While fossil fuels presently provide worldwide over 80% of its energy needs, concerns about long term availability, cost, and emissions has stimulated great interest in identifying a) improved combustion cycles with reduced emissions utilizing catalysts and sensors, b) electrochemical conversion via fuel cells, c) capture of waste heat by thermoelectric devices, d) capture of solar energy via photovoltaic cells, e) storage of electricity via high energy batteries, f) solar assisted splitting of water to generate hydrogen, g) energy conservation via the use of smart electrochromic windows, and h) use of solid state lighting. In all of these active scientific and technological areas, nanostructured functional materials

appear to be playing an ever increasing role. For example, nearly all recent advances in the areas of thermoelectric devices, dye sensitized solar cells and lithium batteries have resulted from the optimization and control of materials on the nanoscale. In this symposium, contributions are invited which describe work directed towards the science and technology of functional materials designed for advanced energy and environmental applications.

- The processing and fabrication of nanostructured functional materials
- Their structural and microstructural characterization
- Their electrical, electrochemical, optical and magnetic characterization
- Modeling of nanostructured materials and devices
- Nanostructured catalysts designed for energy conversion and emissions control
- Nanostructured materials (e.g. cathodes and anodes) for advanced batteries, fuel cells and photoelectrochemical cells
- Nanostructured materials for thermoelectric applications
- Nanostructured materials for solar energy conversion and storage
- Nanostructured materials for advanced sensor applications

### **SYMPOSIUM G - Molecular Modeling Materials Science**

The improving of hardware, software and computational techniques have been utilized in molecular modeling of complex materials including oxides, nitrides, and organic and inorganic semiconductors, paving the way to the development of new technological apparatus. The aim of this symposium will be focused on molecular modeling of materials devices and will cover topics from the fundamental theory and computational studies to modern advances in grid computing.

- Modeling of thin films and nanostructures
- Grid computing of materials properties
- novel molecular modeling methods
- structures-property relationship based on ab initio methods
- Density Functional Theory
- Monte Carlo simulation of materials

- Application of Molecular Dynamics to materials

## **SYMPOSIUM H - Structure-Properties Relationship of Advanced Metallic Materials**

Over the last decades, we have witnessed and benefited from the development of numerous new technological systems. The development of these technologies emphasizes the importance of materials as the primary building blocks for engineering developments. On the one hand, the properties of materials have dictated nearly every design and every useful application that the engineer could devise. On the other hand, with the present sophistication of science and engineering of materials, it is no longer simply a question of being satisfied to design with existing materials. We are now requiring new materials with new properties to fit our designs. This is true in all fields of engineering. This 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. For example, the advents of the scanning tunneling microscope and the atomic force microscope, together with developments in electron microscopy, have opened new ways for the study of structure materials at the nano-scale. Advances in the field of fracture mechanics and its application to structural design and material selection have helped to offset some of the potential dangers posed by increasing technological complexity, and have undoubtedly prevented a substantial number of structural failures. The development of thermo-mechanical processing in steel industry changed the traditional concept of deformation processing, when the single operation to reduce thickness and to provide a desirable shape has been improved to product specific microstructures, with which are associated particular mechanical and physical properties. This Symposium deals with these topics, to show some of the new most important scientific and technological advances in materials science and engineering.

The objective of this Symposium is to discuss the relationships between processing, structure, properties and performance of advanced engineering metallic materials, with emphasis in new fabrication and characterization techniques.

- 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 creep.

## **SYMPOSIUM I - Sol-gel route to prepare new inorganic, hybrid and multifunctional materials**

The progress in obtaining new inorganic, hybrid or multifunctional materials depends on the development of synthesis techniques that allow a structural control at atomic and molecular scale. The sol-gel method, although very old, remains one of the most efficient and versatile techniques for this type of control. This symposium will focus on recent progress in the development of inorganic and organo-inorganic hybrid materials via sol-gel method. These materials present a huge variety of properties and functions, with applications in areas such as optics, electronics, electrochemistry, catalysis, energy among others.

- Inorganic materials made of silica, alumina, titania, zirconia or other oxides
- Hybrid materials made of silica, alumina, titania, zirconia or other oxides
- Nanocomposites
- Polysilsesquioxane
- Porous materials as: zeolites, foams, microporous and mesoporous, hierarchically structured
- Alternative routes for sol-gel method (non aqueous reactions and others)
- Characterization techniques for materials obtained by sol-gel method
- Applications of sol-gel materials in: optics, sensors, catalysis, separation methods, electric materials, energy generation and storage, coatings, films and others

## **SYMPOSIUM J - Solidification of metals and alloys**

This proposal refers to a general symposium covering several topics in solidification science. Solidification is a multidisciplinary field of high importance for comprehension of industrial processing involving molten alloys such as welding, continuous casting, powder metallurgy and foundry. Process limits are still present and are to be overcome. Many groups in Brazil and abroad have carried out valuable research regarding to particular subjects like nucleation, macrostructure, structural transitions, as-cast microstructure, porosity, inverse segregation, metal/mold interface, interdendritic fluid flow, and mechanical properties of as-cast metals. All these topics have been studied following either experimental or modeling approaches, with remarkable complementary aspects between them. Nowadays, complementary research has been developed concerning the evaluation of experimental data from stationary and transient directionally solidified alloys.

- Dendritic and cellular growth
- Correlations between dendritic/cellular arrangement and mechanical properties
- Corrosion resistance of as-cast structures
- Zone melting
- Microsegregation and macrosegregation in binary and ternary alloys
- Porosity in binary and ternary aluminium alloys
- Modeling of heat and mass transfer during solidification
- Laser surface remelting (LSR)
- Eutectic and monotectic growth
- Bridgman technique
- Continuous casting
- Influence of convection on as-cast structures

### **SYMPOSIUM K - Supramolecular organic materials for electronic, photonics and nanotechnology**

This Symposium intends to bring together chemists, materials scientists, physicists, and engineers from both academia and industry to share information on the organic materials for emerging new electronic and photonic technologies. It includes all types of organic molecular and polymeric functional materials, their electronic and photonic properties and device applications. The research topics include all types of molecular, organic, and polymeric functional materials, their nanostructured composites and blends, their synthesis, processing and nanofabrication (molecular

crystals, multilayers, self-assemblies, ultrathin films), spectroscopic characterization, morphology, electronic and photonic properties. In addition, the symposium is equally opened for applications in organic devices as well in organic-inorganic hybrid devices: organic light-emitting diodes (OLEDs), organic field-effect transistors (OFETs), organic photovoltaics (OPVs), integrated circuits, non-volatile memories, sensors & detectors, and single molecule electronics.

- Synthesis of new materials
- Charge Transport and Morphology in organic thin films
- Theory and quantum approaches in conjugated systems and organic devices
- Photophysics and photochemistry of conjugated polymers
- Organic Thin-Film Transistors: Fundamental and Applied Aspects
- Conjugated Polymer Based Solar Cells
- Electroluminescent devices
- Physics and technology of biosensors
- Modelling of electrical transport phenomena in organic devices

### **SYMPOSIUM L - Structure-Property Relationship of Ceramic Materials: Theoretical and Experimental Aspects**

This symposium aims at discussing the impact of joining studies in the theoretical and experimental areas in the control and understanding of intrinsic and extrinsic properties of solid state. The main idea is to promote discussions that involve the fundamental and technological aspects of the materials that may lead to the improvement, understanding and foreseeing of the properties of technological devices.

Following the initial proposal by Prof. E. Longo (Foz do Iguaçu, 2004), the symposium was re-edited in 2006 (Florianópolis), 2007 (Natal) and 2008 (Guarujá) by Profs. J. R. Sambrano and J. B. Lopes Martins and 2009 (ICAM – Rio de Janeiro) coordinated by Prof. Carlton Taft. In its last edition, 2010 (Ouro Preto) the symposium was coordinated by Profs J. R. Sambrano and I. M. G dos Santos. Since its first, edition the symposium attracted an increasing number of contributions, reaching about 500 abstracts in 2010.

- Application of simulation in the understanding of physical and chemical properties of nanostructured materials, surfaces and bulk;
- Theoretical analysis on energetic and dynamic factors in technological materials;
- Development and application of art state methodologies (classic, statistic and quantic) applied to new materials;
- Influence of synthesis and processing in the extrinsic properties controlled by grain boundary, by material structure and by characteristics of inorganic systems;
- Materials with potential application in energy generation and environment;
- Nanomaterials with differential extrinsic properties – theoretical and experimental aspects;
- Transport theory related to devices and electronic structure in molecular scale;
- Processing and applications as biosensors and electronic, chemical and photonic devices.

### **SYMPOSIUM M - Advances and Applications of Electron Microscopy**

The "Advances and Applications of Electron Microscopy" symposium will cover studies in both Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM). SEM and TEM are powerful techniques of materials characterization enabling measurements of local properties, chemical composition, morphology, structure, and so on. Nowadays electron microscopes have received improvements which allowed new insights about growth mechanisms, in-situ studies, thermal stability of materials, etc.

This symposium will be broad enough to accept works from the electron microscopy community in different subareas. So, we encourage the submission of papers using EM techniques to characterize soft and/or hard materials, in-situ studies in both SEM and TEM, electron lithography advances, chemical characterization using different techniques (EDS, WDS, EELS), and so on. Besides, theoretical advances in EM simulation and theoretical/experimental works related to EM are also encouraged.

The symposium is open to students, faculties and industrial researchers with the expectation that the

interactions among attendees will enable new collaborations.

- High resolution SEM;
- In-situ and environmental studies using SEM;
- EDS, WDS, EBSD and EBIC studies in SEM;
- High resolution characterization in TEM;
- Cryo and in-situ studies in TEM;
- EELS and CBED applications;
- Aberration corrected studies;
- TEM theoretical modeling.

### **SYMPOSIUM N - Prospects for materials science with synchrotron radiation in Brazil**

Over the last 30 years synchrotron radiation has become an invaluable tool for several scientific disciplines, specially for materials science. Since 1997, the Brazilian synchrotron light source (LNLS) has been providing the Brazilian and Latin American materials science communities with beam lines dedicated to diffraction, x-ray scattering and spectroscopic techniques. Over these years, the LNLS light source and beam lines have undergone several improvements and upgrades, and now operate with much better performance parameters than initially anticipated in the machine project.

A new multipurpose beam line dedicated to materials science, with optics and instrumentation adequate to applications in spectroscopic, imaging, scattering and diffractions experiments, will be installed and commissioned along 2011 and will be available to users in 2012. This beam line will utilize synchrotron radiation produced by a superconducting wiggler, extending the achievable energy range up to 30 keV and a ~200 and ~1000-fold flux enhancement at 10 and 20 keV, respectively, as compared to the current hard X-ray LNLS beam lines. Moreover, since the LNLS storage ring is reaching its limits for upgrades, the plans for the construction of a new, high brilliance 3rd generation light source in the next decade are in advanced stage. In view of the new potentialities opened up by the new LNLS beam lines and the new light source, the SBPMAT meeting is a timely opportunity to gather the materials science community and discuss the perspectives for materials science with synchrotron radiation in Brazil. The main focus of the discussions will be on new experiments and techniques only feasible with these new facilities. Invited keynote lectures will cover such topics. We will also accept abstracts on

general materials science topics such as catalysis, materials under extreme conditions, magnetism, nanomaterials and so on. Finally, the lectures and discussions will be complemented by 2-3 day data analysis schools on Rietveld Refinement, Small Angle X-Ray Scattering (SAXS) and X-ray Absorption Fine Structure Spectroscopy (XAFS), to be held on the weekend after the SBPMAT meeting.

### **SYMPOSIUM O - 1st Brazilian Symposium in Friction Stir Welding and Processing**

The symposium will cover ongoing research in friction stir welding and processing and other related solid state joining processes applied to low and high melting temperature materials, as Aluminum, Copper, Magnesium, Iron and Nickel-based alloys. Different areas covering from process and tools development, microstructure and performance evaluation, to industrial applications will be covered in this first Brazilian symposium of FSW and FSP.

This meeting will be a great opportunity for the scientific and technical community working on FSW, FSP and related processes to interchange ideas and see some of the new developments in this area in Brazil and the world. This will also be an opportunity to establish fruitful national and international collaborations and coordinated efforts to speed this technology dissemination within the Brazilian industries.

Due to the importance for the Brazilian economy, special emphasis will be given to aerospace, transportation, and oil and gas industries research and industrial applications.

- Friction stir welding process development;
- Friction stir processing and related cladding processes;
- Friction stir spot welding;
- Hydropillar welding and related processes;
- Tools and tools materials development;
- Microstructure evaluation;
- Mechanical and environmental performance of friction stir welded and processed materials;
- Industrial applications for the aerospace, automotive, transportation and energy sectors;
- Process control;
- Non-destructive evaluation for FSW;

- Process modeling and physical simulation;
- Equipment development.

### **SYMPOSIUM P – Graphene**

Graphene was the first two-dimensional material observed. It is composed of carbon atoms arranged in a hexagonal network (honeycomb structure). Although developed very recently, graphene has already found many applications such as solar cells, liquid crystal devices, molecular sensors, and nano-sized transistor prototypes. In the area of basic research, the discovery of this material has also revealed new and interesting physical effects that culminated with the Nobel Prize in Physics 2010 awarded to Andre Geim and Konstantin Novoselov "for groundbreaking experiments regarding the two-dimensional material graphene". This blossoming of graphene research derives from several factors, the most important being that graphene is an easily fabricated material in which fundamental aspects of Physics and Chemistry can be observed. From the fundamental Physics point of view, the fact that graphene is a tabletop system, where a myriad of physical properties of two-dimensional Dirac fermions can be investigated, is perhaps the most compelling. Not to be forgotten is graphene's potential as a technological material, due to its exceptional mechanical and electronic properties, which allow us to envisage the use of this material in a variety of applications. Indeed, the Physics of graphene manifests the uniqueness of carbon among the elements in the periodic table.

The aim of the symposium "Graphene" is to bring scientists in the area of graphene science together to examine our current understanding and to define future trends of this exciting field. The symposium will address progress at the frontiers of fundamental as well as applied research, and will allow participants to exchange ideas and results of their latest work.

- Electronic and optical properties
- Synthesis
- Chemical modification
- Applications

### **SYMPOSIUM Q – Advanced Materials**

This symposium contains only poster contributions on general materials science and is featured to include contributions that do not fit in the dedicated symposia.

## PLENARY LECTURES

### Monday 26th

8:30h - **Prof. Jim de Yoreo**

President of the US Materials Research Society (MRS) Interim Director, Molecular Foundry, Lawrence Berkeley National Laboratory, USA

**Title: Physical Insights into Nature's Way of Making Materials**

14:00h - **Prof. Harry Tuller**

Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge MA, USA

**Title: Electroceramics – Strategic Materials in the Quest to Solve the Energy Crisis**

18:00h - **Dr. Marcus Freitag**

Research Division of IBM T.J. Watson Center, New York, USA

**Title: Graphene Optoelectronics**

### Tuesday 27th

8:30h - **Prof. Paulo P. Freitas**<sup>1,2</sup>

<sup>1</sup>INESC-MN and IN, R. Alves Redol 9, 1000 Lisbon, Portugal

<sup>2</sup>Physics department, IST, Av. Rovisco Pais, 1000 Lisbon, Portugal

**Title: Spintronic Microsystems: from Lab On Chip to MEMS Applications**

### Wednesday 28th

8:30h- **Prof. Terence G. Langdon**

USC Viterbi School of Engineering, Department of Aerospace & Mechanical Engineering, University of Southern California, Los Angeles, CA 90089-1453, U.S.A.

**Title: Recent Advances in the Processing and Properties of Ultrafine-Grained Metals Using Severe Plastic Deformation**

14:00h - **Prof. Bruce Dunn**

Nippon Sheet Glass Chair, Department of Materials Science and Engineering University of California, Los Angeles CA, USA.

**Title: The Design of Materials and Architectures for Capacitive Energy Storage**

18:00h - **Prof. Donald Bradley**

Prof. of Experimental Physics, Imperial College London

**Title: The Influence of Film Morphology in High-Mobility Organic Films: Polymer Blend Organic Transistors and Other Devices**

### Thursday 29th

8:30h - **Prof. Gary L. Messing**

Department of Materials Science and Engineering Pennsylvania State University, University Park, PA USA

**Title: Rare Earth-Doped Oxide Ceramic Laser Gain Media – Processing, Properties and Challenges**

11:00h - **Prof. Edson Leite**

Centro de Ciências Exatas e de Tecnologia, Universidade Federal de São Carlos, São Carlos - SP, Brasil

**Title: Better Nanomaterials through Chemistry: Novel Strategies for the Synthesis of Metal Oxides Nanocrystals.**

## SYMPOSIA SUMMARY

SYMPOSIUM	CHAIRS
A) Magnetic and Superconducting Materials	Renato F. Jardim - Instituto de Física – USP, Rubem L. Sommer – CBPF, Paulo Pureur - Instituto de Física – UFRGS and Julio Guimpel - Centro Atomico Bariloche
B) Biodegradable Polymer Materials	Cristina Tristão Andrade – UFRJ, Marcos Lopes Dias – UFRJ and Antônio Vicente - University of Minho
C) Electronic Materials	Cristiano Krug - Instituto de Física – UFRGS, Cylon Gonçalves da Silva - CEITEC S.A., Antônio L. P. Rotondaro - Centro de Tecnologia Renato Archer and Celso Pinto de Melo - Departamento de Física – UFPE
D) Surface Engineering: fabrication, characterization, properties and applications of protective coatings and modified surfaces	Fernando Lázaro Freire Junior - PUC-Rio and Carlos Alejandro Figueroa - Universidade de Caxias do Sul, RS
E) Materials with Negative Properties / 8th International Workshop on Auxetic & Related Materials	Bojan Marinkovic (PUC-Rio), Antonio Gomes Souza Filho (UFC, Fortaleza), Douglas Soares Galvão (UNICAMP, Campinas) and Angus Wilkinson (School of Chemistry and Biochemistry, Georgia Institute of Technology, USA)
F) Nanostructured Functional Materials for Advanced Energy and Environmental Applications	Harry L. Tuller (Department of Materials Science and Engineering, Massachusetts Institute of Technology, USA) and Reginaldo Muccillo (Center of Science and Technology of Materials, Energy and Nuclear Research Institute S. Paulo)
G) Molecular Modeling Materials Science	Aguinaldo Robinson de Souza - DQ – Unesp and Nelson Henrique Morgon - IQ – UNICAMP
H) Structure-Properties Relationship of Advanced Metallic Materials	Leonardo Barbosa Godefroid – UFOP, Waldek Wladimir Bose Filho – USP, Luiz Carlos Rolim Lopes – UFF, Juan Perez Ipiña – UNCOMA and Pedro Dolabella Portella (BAM)
I) Sol-gel route to prepare new inorganic, hybrid and multifunctional materials	Márcia Russman Gallas (IF-UFRGS), Tania Maria Haas Costa (IQ-UFRGS), Fabiano S. Rodembush (IQ-UFRGS), Leandra F. Campo (IQ-UFRGS), Sandra Helena Pulcinelli (IQ-UNESP), Sidney J. L. Ribeiro (IQ-UNESP), Marcia Carvalho de Abreu Fantini (IF-USP/SP) and Yoshitaka Gushikem (IQ-UNICAMP)
J) Solidification of metals and alloys	José Eduardo Spinelli, DEMa/UFSCar, Brazil, Amauri Garcia, DEMA/FEM/UNICAMP, Brazil, Nathalie Mangelinck-Noël, Institut Matériaux Microélectronique Nanoscience de Provence, France.
K) Supramolecular organic materials for electronic, photonics and nanotechnology	Leni Akcelrud – UFPR, Roberto Mendonça Faria – USP, José Alberto Giacometti – Unesp and Carlos José Leopoldo Constantino - USP
L) Structure-Property Relationship of Ceramic Materials: Theoretical and Experimental Aspects	Carlos Pérez Bergmann – UFRGS, Elson Longo - Unesp Julio Ricardo Sambrano – Unesp, Juan Andrés (Universitat Jaume I, Spain), Wilson Acchar – UFRN, Valerie Bouquet (Université Rennes1, France) and Shay Reboh (CEMES, Toulouse, France)
M) Advances and Applications of Electron Microscopy	Marcelo Ornaghi Orlandi (São Paulo State University) and Conrado Ramos Moreira Afonso (UFSCar)
N) Prospects for materials science with synchrotron radiation in Brazil	Gustavo Azevedo (IF-UFRGS), Eduardo Granado (IF-UNICAMP/LNLS), Guinther Kellermann - DF-UFPR and Fabio Furlan - UFABC
O) 1st Brazilian Symposium in Friction Stir Welding and Processing	Antonio J. Ramirez - Nanotechnology National Laboratory, Fernando Fernandez, Emraer and Maysa Terada, Nanotechnology National Laboratory
P) Graphene	Luiz Gustavo Caçado, Departamento de Física – UFMG and Ado Jorio, Departamento de Física – UFMG



## SYMPOSIUM A

### Magnetic and Superconducting Materials

#### Chairs

Renato F. Jardim (Instituto de Física – USP)  
Rubem L. Sommer (CBPF)  
Paulo Pureur (Instituto de Física – UFRGS)  
Julio Guimpel (Centro Atomico Bariloche)

## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY, SEPTEMBER 26TH

#### SESSION A1

09:30 - 10:30 - Room 21

09:30 - A1.1\*

**Interconversion of charge, heat and spin currents**

Sergio Machado Rezende

10:00 - A1.2

**Study of the degree of order of sputtered  $^{57}\text{Fe}$  tracer layers on exchange biased IrMn/CoFe.**

Luis Eugenio Fernandez Outon<sup>1</sup>, Thatyara Freire de Souza<sup>2</sup>, José Domingos Ardisson, Waldemar Augusto de Almeida Macedo; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Centro de Desenvolvimento de Tecnologia Nuclear

10:15 - A1.3

**Magnetic investigation with structural correlation of  $\text{Fe}_x\text{Co}_{1-x}$  ultra thin films on Pd(100)**

Gustavo Fóscolo de Moura Gomes<sup>1</sup>, Roberto Magalhães Paniago, Hans D.- Pfannes; <sup>1</sup>Universidade Federal de Minas Gerais

#### SESSION A2

11:00 - 12:30 - Room 21

11:00 - A2.1\*

**Thermodynamic model of exchange-bias in ferromagnetic/antiferromagnetic bilayers**

Daniel Reinaldo Cornejo<sup>1</sup>; <sup>1</sup>Instituto de Física

11:30 - A2.2

**Study of magnetostriction properties of  $\text{Fe}_{80}\text{Al}_{20}$  alloys with B addition.**

Mateus Botani<sup>1</sup>, Cristina Bormio Nunes; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

11:45 - A2.3

**Angular dependence of the magnetoelectric and magnetostriction effects in multiferroic composites**

Adilson J A de Oliveira<sup>1</sup>, Alexandre José Gualdi, Fabio L Zabotto, José Antônio Eiras<sup>1</sup>, Duceinei Garcia; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos

12:00 - A2.4

**Effect of B doping and rapid solidification on the magnetostriction of  $\text{Fe}_{80}\text{Al}_{20}$  alloy**

Claudio Teodoro Dos Santos, Cristina Bormio Nunes, Mateus Botani<sup>1</sup>, Mathias Dörr; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

12:15 - A2.5

**Stochastic modeling of hysteresis in single domain particles**

Gabriel Teixeira Landi<sup>1</sup>, Antonio Domingues Santos<sup>2</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Instituto de Física

#### SESSION A3

15:00 - 16:00 - Room 21

15:00 - A3.1\*

**Exchange bias and negative rotatable anisotropy of IrMn/Cr/Co thin films**

Julian Geshev, Sabrina Nicolodi, Luis Gustavo Pereira, João Edgar Schmidt, Cyrile Deranlot, Frederic Petroff

15:30 - A3.2

**Structural and Magnetic Properties of Iron Nanoparticles in Silver Films from Mössbauer Spectroscopy, Muon Spin Rotation and EXAFS**

William H. Trujillo<sup>1</sup>, Isabel C. Souza Dinóla, Mathias Mraken, Elisa Baggio Saitovitch, Jochen Litterst; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

15:45 - A3.3

**Electrodeposited Co doped  $\text{Cu}_2\text{O}$  as a diluted magnetic semiconductor**

Iuri Stefani Brandt, Enio Lima Junior, Milton Andre Tumelero, Jose Javier Saez Acuña, Douglas Langie da Silva, Rafaela Debastiani, Andre Avelino Pasa

**TUESDAY, SEPTEMBER 27TH****SESSION A4****09:30 - 10:30 - Room 21****09:30 - A4.1\***

**Magnetic nanostructures fabricated using chemically anodized template: fabrication and magnetic properties**

Kleber Roberto Pirola

**10:00 - A4.2**

**Thermoelectric Characterization of  $\text{Yb}_{14}\text{MSb}_{11}$  Single Crystals (M = Mn, Zn, Al)**  
Raquel A. Ribeiro<sup>1</sup>, Marcos Abreu Avila, Elio Thizay Magnavita; <sup>1</sup>Universidade Federal do ABC

**10:15 - A4.3**

**Direct measurement of the magnetocaloric effect on metallic gadolinium**

Catalina Salazar Mejía, Angelo Marcio

Gomes, Alexandre Magnus Gomes

Carvalho<sup>1</sup>; <sup>1</sup>Inmetro

**SESSION A5****11:00 - 12:30 - Room 21****11:00 - A5.1\***

**Structural, microstructural, electrical and magnetic properties Ruthenium pyrochlores**

Jose Albino Aguiar

**11:30 - A5.2**

**Magnetic hyperthermia investigation of cobalt ferrite nanoparticles**

Ediron Lima Verde, Marcus Santos Carrião, Thiago Melo Lima<sup>1</sup>, Ernanni D Vieira, Marcelo Henrique Sousa, Andris Figueiroa Bakuzis<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás

**11:45 - A5.3**

**Barocaloric effect and the pressure induced solid state refrigerator**

Nilson Antunes de Oliveira<sup>1</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro

**12:00 - A5.4**

**The One-Pot Synthesis of Amino Acid Surface-Covered Magnetic Nanoparticles**

Joel Camargo Rubim<sup>1</sup>, Vanda Maria de Oliveira, Anderson Mateus Mendonça Medeiros<sup>1</sup>, Kaian Amorim Teles, Alexandre Luis Parize<sup>1</sup>, Brenno Amaro da Silveira Neto; <sup>1</sup>Universidade de Brasília

**12:15 - A5.5**

**Morphological and Magnetic Characterization of Electrospay Polystyrene Microbeads Embedded with Magnetite Nanoparticles**

André Sionek<sup>1</sup>, Diogo Anderson Neves<sup>1</sup>, Valderes

Crespo Drago<sup>2</sup>, Guilherme Dalla Lana Semione<sup>2</sup>, Ney Pereira Mattoso, Cyro Ketzer Saul; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Federal de Santa Catarina

**WEDNESDAY, SEPTEMBER 28TH****SESSION A6****09:30 - 10:30 - Room 21****09:30 - A6.1\***

**Towards ultrafast microelectronics: development and optimization of ion irradiated Josephson nanojunctions.**

Martin Sirena<sup>1</sup>, Nicolas Bergeal, Jerome Lesueur, Rozenn Bernard, Javier Briatico, Denis Créte, Giancarlo Faini; <sup>1</sup>Instituto Balseiro

**10:00 - A6.2**

**Superconductivity and magnetism in  $\text{K}_x\text{MoO}_2$**   
Leandro Marcos da Silva Alves, Carlos Alberto Moreira Dos Santos<sup>1</sup>, Sueh Saboia Benaion, Bruno Sanches de Lima, A. J. S. Machado, M. D. R. Marques, J. A. Aguiar; <sup>1</sup>Escola de Engenharia de Lorena - Usp

**10:15 - A6.3**

**Effect of magnetic nanoparticles on the superconducting transition in superconductor/ferromagnet nano-composites**  
Yutao Xing<sup>1</sup>, William H. Trujillo<sup>2</sup>, Isabel C. Souza Dinóla, Ury Denver Chacón Hernandez, Hans Micklitz, Elisa Baggio Saitovitch; <sup>1</sup>Universidade Federal Fluminense, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas

**SESSION A7****11:00 - 12:30 - Room 21****11:00 - A7.1\***

**Local electronic and magnetic properties of pnictide superconductors**

Yanina Fasano

**11:30 - A7.2**

**Structural and magnetic properties of  $\text{La}_2\text{CoMnO}_6$  produced by combustion synthesis**  
Pedro Linhares da Cunha Filho<sup>1</sup>, Petrucio Barrozo da Silva<sup>2</sup>, Nelson Orlando Moreno, José Albino Aguiar; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Federal de Sergipe

**11:45 - A7.3**

**Frustrated ferromagnetic square lattice family of compounds:  $\text{AA}'\text{VO}(\text{PO}_4)_2$  (A', A = Pb, Ba, Sr, Zn, Cd)**

Enrique Eduardo Kaul<sup>1</sup>, Roman Shpanchenko,

Alexander A. Tsirlin, Ramesh Nath, Nic Shannon, Helge Rosner, Cristoph Geibel; <sup>1</sup>Comision Nacional de Energia Atomica

12:00 - [A7.4](#)

**Magneto-Resistance and Hall Effect of Highly Oriented FeSe<sub>0.5</sub>Te<sub>0.5</sub> Superconductor**

Jorge Luiz Pimentel Jr.<sup>1</sup>, Paulo Pureur; <sup>1</sup>Universidade Federal do Rio Grande do Sul

12:15 - [A7.5](#)

**A novel method for characterizing magnetic viscosity of ultrasoft magnets**

Fanny Béron<sup>1</sup>, Gabriel Soares, Luiz Augusto Sousa de Oliveira<sup>1</sup>, Kleber Roberto Pirota, Marcelo Knobel; <sup>1</sup>Universidade Estadual de Campinas

### SESSION A8

15:00 - 16:00 - Room 21

15:00 - [A8.1\\*](#)

**Phase Separation in Superconducting Ba<sub>0.5</sub>K<sub>0.5</sub>Fe<sub>2</sub>As<sub>2</sub> and Sr<sub>0.5</sub>Na<sub>0.5</sub>Fe<sub>2</sub>As<sub>2</sub> Single Crystals: A Local Probe Study**

Mariella Alzamora, Julian Munevar, Elisa Baggio Saitovitch, N L Wang, G F Cheng, Dalber R Sanchez

15:30 - [A8.2](#)

**Planar fluxgate as a tool for the magnetic monitoring of cardiac valves prosthesis**

Amanda Lopes Oliveira<sup>1</sup>, Tobias Heimfarth, Marcelo Mulato; <sup>1</sup>Ffclrp - Universidade de São Paulo

15:45 - [A8.3\\*](#)

**The New Fe-pnictide Superconductors: Magnetic and Structural Transitions**

Elisa Baggio Saitovitch

## THURSDAY , SEPTEMBER 29TH

### SESSION A9

09:30 - 10:30 - Room 21

09:30 - [A9.1\\*](#)

**Experimental and theoretical studies of ferroelectric, magnetic, structural and electronic properties of Sr<sub>2</sub>ZrMnO<sub>6</sub> material**

Jairo Roa-Rojas, David Arsenio Landinez, Daniel Llamasa Perez, Crispulo Enrique Deluque Toro

10:00 - [A9.2](#)

**Synthesis and surface modification of antiferromagnetic MnO nanoparticles for bioimaging as T<sub>1</sub> contrast agent**

Laudemir Carlos Varanda<sup>1</sup>, Herbert Rodrigo Neves; <sup>1</sup>Instituto de Química de São Carlos

10:15 - [A9.3](#)

**Static and dynamical characterization of magnetic**

**nanoparticles systems for biomedical applications**

Miguel Alexandre Novak, Luiza Amin Marcante, Maria Das Graças Fiaho Vaz, Wellington Wallace Miguel Melo, Vikas Nandwana

## POSTER PRESENTATIONS

### MONDAY , SEPTEMBER 26TH

#### SESSION SP1

16:00 - 18:00 - Exhibition Hall

**SP1-A1 - Anisotropic magnetocaloric effect due to the antiferromagnetic characteristic of the system: Application in EuZrO<sub>3</sub>, EuTiO<sub>3</sub> and Eu(1-x)Ca<sub>x</sub>TiO<sub>3</sub>**

Bruno de Pinho Alho<sup>1</sup>, Alexandre Magnus Gomes Carvalho<sup>2</sup>, Pedro Jorge Von Ranke; <sup>1</sup>Universidade do Estado do Rio de Janeiro, <sup>2</sup>Inmetro

**SP1-A2 - Synthesis and characterization behavior of vortex on nanoparticles of barium hexaferrite**

Sheila Bernhard Galvao<sup>1</sup>, Everlânia Maria da Silva<sup>1</sup>, Susana Nobrega Medeiros, Carlos Alberto Paskocimas; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-A3 - Magnetic Properties and Magnetoimpedance of Ni<sub>81</sub>Fe<sub>19</sub>/Cu Films Electrodeposited on Copper Microwire**

Bruno Gomes Silva<sup>1</sup>, Diego González Chávez<sup>1</sup>, José Gomes Filho, Rubem Luis Sommer<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP1-A4 - Magnetic and hyperfine properties of Fe<sub>86</sub>Co<sub>14-x</sub>Cu<sub>x</sub> alloys**

Patrick Bley Copetti<sup>1</sup>, João Carlos Krause, Jacob Schaf, José Domingos Ardisson, Clederson Paduani; <sup>1</sup>Universidade Regional Integrada do Alto Uruguai E Das Missões

**SP1-A5 - Unusual magnetic field dependence of the blocking temperature in Ni nanoparticles at low magnetic fields**

Sueli Hatsumi Masunaga<sup>1</sup>, Renato de Figueiredo Jardim<sup>2</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Universidade de São Paulo

**SP1-A6 - The role of the structure and the atomic environment in the magnetic behavior of electrodeposited Fe<sub>x</sub>Ni<sub>1-x</sub> ultra-thin films on Au(111)**

Hugo Feitosa Jurca

**SP1-A7 - Study of Co/Pt multilayers for optical detection without applied magnetic field perpendicular magnetization, multilayers, sputtering, Co, Pt, Spin-LED.**

Juliana Zarpellon

**SP1-A8 - Voltage relaxation in uniaxially pressed  $\text{Bi}_{1.65}\text{Pb}_{0.35}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+y}$  ceramic samples**

Iván García-Fornaris, Armando Planas-Verdecia, Ernesto Govea-Alcaide, Pedro Muné-Bandera, Paulo Atsushi Suzuki, Renato de Figueiredo Jardim<sup>1</sup>; <sup>1</sup>Universidade de São Paulo

**SP1-A9 - Magnetic Behavior of Co-Cu Alloys: Simulation of Magnetic Hysteresis Loops**

Vagner Zeizer Carvalho Paes<sup>1</sup>, Adilson J A de Oliveira<sup>2</sup>, Dante Homero Mosca<sup>2</sup>, José . Varalda; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP1-A10 - Synthesis Procedure And Characterization Of Spinel  $\text{Bi}_x\text{Co}_{2-x}\text{MnO}_4$  (X=0.0 And 0.3) Using The Modified Polymeric Precursor Method**

Maria Elenice Santos<sup>1</sup>, Rafael Aparecido Ferreira, Paulo Noronha Lisboa-Filho; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP1-A11 - Synthesis and structural characterization of manganites**

**(Ni,Co,Cu) $\text{Mn}_2\text{O}_4$  by the Rietveld method**  
Melânia Cristina Mazini<sup>1</sup>, Paulo Noronha Lisboa-Filho; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP1-A12 - Morphological and Magnetic Characterization of Nickel Nanoparticles Embedded in Polyvinyl Alcohol Nanowires**

Diogo Anderson Neves<sup>1</sup>, André Sionek<sup>1</sup>, Dante Homero Mosca<sup>1</sup>, José . Varalda, Adilson J A de Oliveira<sup>2</sup>, Cyro Ketzer Saul; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP1-A13 - Use of magnetic markers for non-destructive evaluation of polymer composites Polyester/Barium Ferrite for applications in pipelines to transport oil and natural gas.**

Josy Oliveira<sup>1</sup>, José Daniel Diniz Melo, Carlos Alberto Paskocimas; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-A14 - Characterization of magnetic particles coated with polyaniline for enzyme immobilization**

Jackeline da Costa Maciel<sup>1</sup>, Elaine Martins Moura, Priscyla Lima de Andrade<sup>1</sup>, Valdeene Albuquerque Jansen da Silva<sup>1</sup>, José Albino Aguiar, Maria da Paz Carvalho da Silva, Luiz Bezerra de Carvalho Júnior; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-A15 - Magnetic irreversibility behavior in epitaxial thin films and melt-textured YBaCuO**

**samples**

Fábio Teixeira Dias, Valdemar Das Neves Vieira<sup>1</sup>, Douglas Langie da Silva, Moisés Leonardi de Almeida, Jacob Schaf, Xavier Obradors, Joan Josep Roa Rovira; <sup>1</sup>Instituto de Física E Matemática - Universidade Federal de Pelotas

**SP1-A16 - Microstructural and electrical characteristics of commercial high-critical temperature superconducting tapes**

André Avancini Bernardes<sup>1</sup>, Carlos Alberto Baldan, Jérica Suely Lamas, Ernesto Rupert Filho, Carlos Yujiro Shigue; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP1-A17 - Grain size and magnetic properties in electrical steels**

Frank Patrick Missell, Daniel L Rodrigues Jr., João Ricardo Filipini da Silveira, Marcos Fukuhara, Felipe Schiochet Bertoldo Giroto, Gunther Johannes Lewczuk Gerhardt, Fernando José Gomes Landgraf

**SP1-A18 - Synthesis and Characterization of Magnetic Ionic Liquids**

Anderson Mateus Mendonça Medeiros<sup>1</sup>, Joel Camargo Rubim<sup>1</sup>, Kaian Amorim Teles, Alexandre Luis Parize<sup>1</sup>, Vanda Maria de Oliveira, Brenno Amaro da Silveira Neto; <sup>1</sup>Universidade de Brasília

**SP1-A19 - Synthesis of oxide superconductors by microwave**

Regiane Godoy Lima<sup>1</sup>, Cláudio Luiz Carvalho, Rafael Zadorosny, Silvio Rainho Teixeira<sup>2</sup>, Agda Eunice Souza<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira, <sup>2</sup>Fct-Unesp Campus de Presidente Prudente

**SP1-A20 - Incorporation piplartine in  $\text{Fe}_3\text{O}_4/\text{CL}$  Nanocomposite: Potential system for Drug Delivery**

Rafael Melo Freire, Antonio César Honorato Barreto, Vivian Romero Santiago, Otilia Deusdênio Loiola Pessoa, Nágila Maria Pontes Silva Ricardo, Pierre Basílio Almeida Fechine<sup>1</sup>, Selma Elaine Mazzetto; <sup>1</sup>Universidade Federal do Ceará

**SP1-A21 - Ferrofluids obtained from magnetic spinel nanoparticles and renewable material**

Vivian Romero Santiago, Viviane G. P. Ribeiro, Francisco Jonas M Maia, Antonio César Honorato Barreto, Selma Elaine Mazzetto, Pierre Basílio Almeida Fechine<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará

**SP1-A22 - Characterization of the evolution of recrystallization by fluctuation and fractal analyses of the magnetic hysteresis loop in a cold rolled non-oriented electric steel**

Francisco Estênio da Silva, Francisco Nelio Costa Freitas, Hamilton Ferreira Gomes de Abreu, Lindberg

Lima Gonçalves, Elineudo Pinho de Moura, Manoel Ribeiro da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá  
**SP1-A23 - Monte Carlo study of nanoparticles magnetic behavior**

Fabiana Rodrigues Arantes, Daniel Reinaldo Cornejo<sup>1</sup>; <sup>1</sup>Instituto de Física

**SP1-A24 - Structural analysis by Rietveld method of Ni-Zn nanoferrites synthesized by combustion reaction in a microwave oven**

Débora Albuquerque Vieira, Verônica Cristhina Diniz, Ruth Herta Kiminami, José Marcos Sasaki, Ana Cristina Figueiredo de Melo Costa

**SP1-A25 - Study of phase transformations in a duplex stainless steel by magnetic permeability measurement using Hall effect sensors**

David Domingos Soares Silva<sup>1</sup>, José Luiz Gomes Neto, Ana Caroline Romão Ferreira Feitosa, Edgard Macedo Silva, Josinaldo Pereira Leite; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia da Paraíba

**SP1-A26 - Microstructure of superconductor/ferromagnet Nb/Co multi-layers**

Liyang Liu, Ury Denver Chacón Hernandez, William Alayo, Justiano Quispe, Noemi Raquel Checca<sup>1</sup>, Elisa Baggio Saitovitch, Ivan Guillermo Solórzano-Naranjo; <sup>1</sup>Universidade Federal Fluminense

**SP1-A27 - Structural study of magnetic nanoparticles/Gelatin-Chitosan biocomposite**

Yale Luck Nunes<sup>1</sup>, Antonio César Honorato Barreto, Júlio Cesar Góes, Sonia Duarte Figueiró, Vivian Romero Santiago, Selma Elaine Mazzetto, Pierre Basílio Almeida Fechine<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará

**SP1-A28 - Synthesis and Characterization of Superparamagnetic Iron Oxide Nanoparticles for Biomedical Applications**

Paula Silvia Haddad<sup>1</sup>, Miguel Angel Mosquera Molina<sup>2,3</sup>, Amedea Barozzi Seabra, Rosângela Itri, Marcelo Ganzarolli de Oliveira, Maurício da Silva Baptista; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Instituto de Física

**SP1-A29 - Synthesis of magnetic diatomaceous earth and polyaniline composite for invertase immobilization**

Sílvia Guedes Braga<sup>1</sup>, Mariana Paola Cabrera<sup>1</sup>, Luciana Silveira Lopes, Luiz Bezerra de Carvalho Júnior; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-A30 - Structural and magnetic characterization of bcc-Co thin films deposited by sputtering**

Noemi Raquel Checca<sup>1</sup>, David Goes, William Edgardo Alayo, Yutao Xing<sup>1</sup>, Elisa Baggio

Saitovitch; <sup>1</sup>Universidade Federal Fluminense  
**SP1-A31 - Characterization of novel magnetic composite: natural diatomite coated with polyaniline (PANI)**

Mariana Paola Cabrera<sup>1</sup>, David Fernando Morais Neri, Fernando Soria, Luiz Bezerra de Carvalho Júnior; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-A32 - Printed circuit boards made of superconductor material**

Gisele A Souza<sup>1</sup>, Cláudio Luiz Carvalho, Guilherme Botega Torsoni, Rafael Zadorosny, Vivian Delmúte Rodrigues<sup>2</sup>, João Borges da Silveira; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP1-A33 - Effects of doping on the electrical, magnetic, morphological and structural properties of BSCCO superconducting system with rare earth element**

Vivian Delmúte Rodrigues<sup>1</sup>, Cláudio Luiz Carvalho, Rafael Zadorosny, Gisele A Souza<sup>2</sup>, Elton José de Souza, Guilherme Botega Torsoni, João Borges da Silveira; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira

**SP1-A34 - Effect of the Zn content in the magnetic properties of Co<sub>1-x</sub>Zn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> mixed ferrites**

Adolfo Franco Jr, Frederico Costa Silva

**SP1-A35 - Characterization of fucan-coated cobalt ferrite nanoparticles and application for immobilization**

Priscyla Lima de Andrade<sup>1</sup>, Jackeline Costa Maciel, Valdeene Albuquerque Jansen da Silva<sup>1</sup>, Nelson Orlando Moreno, Sônia Maria Barreto Pereira, Maraia da Paz Carvalho Silva<sup>1</sup>, José Albino Aguiar; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-A36 - Synthesis of multiferroic thin films of Eu<sub>1-x</sub>Ba<sub>x</sub>TiO<sub>3</sub>**

Marcio Sena Curvello, Daniel Felipe Simião<sup>1</sup>, Alessandra Zenatti<sup>1</sup>, Marcia Tsuyama Escote; <sup>1</sup>Universidade Federal do ABC

**SP1-A37 - Characterization and application of magnetite-fucan nanoparticles**

Valdeene Albuquerque Jansen da Silva<sup>1</sup>, Priscyla Lima de Andrade<sup>1</sup>, Jackeline da Costa Maciel<sup>1</sup>, Maraia da Paz Carvalho Silva<sup>1</sup>, José Albino Aguiar; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-A38 - Effects of Order-Disorder Reactions on Rapidly Quenched Fe-6.5%Si Alloy**

Mário Cezar Alves da Silva, Maria Dorotéia Costa Sobral<sup>1</sup>, Rodrigo Estevam Coelho, Claudemiro

Bolfarini; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia da Bahia

**SP1-A39 - Investigation of some physical properties magnetic graphite nanoparticle for potential application as drug delivery systems**

Rafaella Takehara Paschoalin<sup>1</sup>, Humberto Mello Brandão, Fernando Araujo Moreira, Paulo Sergio de Paula Herrmann<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação

**SP1-A40 - Synthesis and self-assembly of shape-controlled L1<sub>0</sub>-FePt nanoparticles by a temperature-modulated process**

Tiago Luis da Silva, Laudemir Carlos Varanda<sup>1</sup>; <sup>1</sup>Instituto de Química de São Carlos

**SP1-A41 - Iron oxide-coated bimetallic magnetic nanoparticles: improved magnetic properties and functionalization for biomedical applications**

Watson Beck Jr.<sup>1</sup>, Laudemir Carlos Varanda<sup>2</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Química de São Carlos, <sup>2</sup>Instituto de Química de São Carlos

**SP1-A42 - Magnetic particles coated with polymers for enzyme immobilization**

Elaine Martins Moura, Jackeline da Costa Maciel<sup>1</sup>, Priscyla Lima de Andrade<sup>1</sup>, Valdeene Albuquerque Jansen da Silva<sup>1</sup>, Luiz Bezerra de Carvalho Júnior, Maraia da Paz Carvalho Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-A43 - Electrical current influence on resistance and localization length in a Co-Al<sub>2</sub>O<sub>3</sub> granular thin film**

Marco Aurélio Silveira Boff, Bárbara Canto Dos Santos<sup>1</sup>, Ruth Hinrichs, Luis Gustavo Pereira, Fabiano Mesquita, João Edgar Schmidt, Gilberto Luiz Fraga; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-A44 - Morphological properties in partial melt-textured YBaCuO superconductor**

Cristol de Paiva Gouvêa<sup>1</sup>, Fábio Teixeira Dias, Valdemar Das Neves Vieira<sup>1</sup>; <sup>1</sup>Instituto de Física E Matemática - Universidade Federal de Pelotas

**SP1-A45 - Magnetization and magnetoresistance First-Order-Reversal-Curves in spin-valves**

Leonardo Alonso, Daniel Reinaldo Cornejo<sup>1</sup>, Luiz Carlos Camargo Miranda Nagamine<sup>2</sup>; <sup>1</sup>Instituto de Física, <sup>2</sup>Instituto de Física da Universidade de São Paulo

**SP1-A46 - Impedance and Magnetoimpedance of Reentrant Magnetic Alloys σ-FeCr and AuFe**

Reginaldo Barco<sup>1</sup>, Paulo Pureur, Gilberto Luiz Fraga, Stanislaw M. Dubiel; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-A47 - Magnetic properties of BNNTs**

**containing Fe catalysts for bioapplication**

Anderson Augusto Freitas<sup>1</sup>, Tiago Hilário Ferreira<sup>1</sup>, Waldemar Augusto de Almeida Macedo, Edésia Martins Barros de Sousa<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP1-A48 - Structure and magnetism of epitaxial Ni films on Pd(100)**

Diego Pinheiro Aun<sup>1</sup>, Pedro Lana Gastelois, Maximiliano Delany Martins, Waldemar Augusto de Almeida Macedo; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP1-A49 - Magnetite and gold nanoparticles conjugated in a core-satellite nanostructure for biomedical applications.**

Daniel Angeli Moraes, Watson Beck Jr.<sup>1</sup>, Tiago Luis da Silva, Laudemir Carlos Varanda<sup>2</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Química de São Carlos, <sup>2</sup>Instituto de Química de São Carlos

**SP1-A50 - New one-step synthesis of magnetite/alginate acid colloidal dispersion assisted by ultrasonic radiation**

João Batista Pereira Júnior<sup>1</sup>, Walter Mendes de Azevedo; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-A51 - Study of the formation of superconducting MgB<sub>2</sub> in the presence of titanium dioxide**

Marcos Yukio Kussuda, Dayse Iara Dos Santos<sup>1</sup>, Anne Hitomi Yonamine, Nelson Delgado Torrecilha; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp

**SP1-A52 - Morphology Control of Magnetic Iron Oxide Nanoparticles Produced by Co-precipitation**

Geronimo Perez, Maria Paulina Romero, Ivan Guillermo Solórzano-Naranjo, Sonia Renaux Louro

**SP1-A53 - Magnetic properties of Mn<sub>1-x</sub>Al<sub>y</sub>Cu<sub>x+y</sub> alloys in the cubic phase.**

João Carlos Krause, Clederson Paduani, Jacob Schaf, José Domingos Ardisson

**SP1-A54 - Silver concentration influence on magnetic-metallic Ag-Fe<sub>3</sub>O<sub>4</sub> dimer nanopcomposites**

Diego Muraca<sup>1</sup>, Gleyggestone Lopes, Surender Sharma, Leandro M. Socolovsky<sup>2,3</sup>, Abner de Siervo<sup>3</sup>, Kleber Roberto Pirota; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidad de Buenos Aires, <sup>3</sup>Consejo Nacional Investigaciones Científicas Y Tecnológicas

**SP1-A55 - Structural and Magnetic Properties of Ni<sub>2</sub>MnSb and Cu<sub>2</sub>MnSb Heusler Alloys.**

Caroline Barlette da Cunha<sup>1</sup>, Emily Balzan<sup>2</sup>, João Carlos Krause, Clederson Paduani, Jacob Schaf; <sup>1</sup>Universidade Regional E Integrada do Alto Uruguai E Das Missoes, <sup>2</sup>Universidade Regional

Integrada do Alto Uruguai E Das Missões

**SP1-A56 - Study of Mn-Ga System Grown by Molecular Beam Epitaxy on GaAs(111)B**

Alexandre Werner Arins<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná

**SP1-A57 - Functional Nanocomposite Based on the Natural Rubber: an Innovative Material with Potential at Electromagnetic Wave Absorber**

Felipe Silva Bellucci, Claudio Arroca, Miguel Angel Rodríguez-Pérez, Manoel Ribeiro da Silva<sup>1</sup>, Marcos Augusto de Lima Nobre, Aldo Eloizo Job; <sup>1</sup>Universidade Federal de Itajubá

**SP1-A58 - Mechanical stress in FM/NM/FM trilayers grown on flexible polyimide**

Thatyara Freire de Souza<sup>1</sup>, Luis Eugenio Fernandez Outon<sup>2</sup>, Waldemar Augusto de Almeida Macedo; <sup>1</sup>Centro de Desenvolvimento de Tecnologia Nuclear, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP1-A59 - Magnetic and structural properties of alloys of the new series Mn<sub>2-x</sub>Fe<sub>x</sub>Sn**

Sergio Gama, Paula de Oliveira Ribeiro<sup>1</sup>, Adelino de Aguiar Coelho, Julio Cesar Guimarães Tedesco, Taeko Yonamine Fukuhara, Marcos Fukuhara, Alexandre Magnus Gomes Carvalho<sup>2</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro, <sup>2</sup>Inmetro

**SP1-A60 - Magnetic irreversibility in the YBa<sub>2-x</sub>Sr<sub>x</sub>Cu<sub>3</sub>O<sub>7-δ</sub> superconductor**

Ana Paula Aguiar de Mendonça, Valdemar Das Neves Vieira<sup>1</sup>, Rován Fernandes Lopes, Fábio Teixeira Dias, Paulo Pureur, Jacob Schaf; <sup>1</sup>Instituto de Física E Matemática - Universidade Federal de Pelotas

**SP1-A61 - Influence of functionalization in synthesis of magnetic nanoparticles**

Monique Bezerra Holanda de Lima<sup>1</sup>, Segundo Nilo Mestanza Munoz<sup>1</sup>, Anderson Orzari Ribeiro<sup>1</sup>, Manuel Pedro Fernandes Graça; <sup>1</sup>Universidade Federal do ABC

**SP1-A62 - Properties of Superconductor/Ferromagnet (SC/FM) Multilayers**

Ury Denver Chacón Hernandez, Willian Edgardo Alayo, Yutao Xing<sup>1</sup>, Elisa Baggio Saitovitch; <sup>1</sup>Universidade Federal Fluminense

**SP1-A63 - Structural and magnetic properties of LaMnO<sub>3</sub> half-doped with Cr and Fe**

Petrucio Barrozo da Silva<sup>1</sup>, Leanio Moraes Dos Santos, Nelson Orlando Moreno, José Albino Aguiar; <sup>1</sup>Universidade Federal de Sergipe

**SP1-A64 - Study of tunneling in Tunnel Junctions CoFeB/MgO/CoFeB**

Rafael Domingues Della Pace<sup>1</sup>, Thiago José de

Almeida Mori<sup>1</sup>, Paloma Boeck Souza<sup>1</sup>, Matheus Gamino Gomes<sup>1</sup>, Lucio Strazzabosco Dorneles<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Maria

**SP1-A65 - Cobalt related complexes in AlN: Physics properties investigation by first-principles**  
Rolando Larico Mamani<sup>1</sup>, Lucy V. Credidio Assali<sup>2</sup>, Ronei Miotto; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Física da Universidade de São Paulo

**SP1-A66 - Study of structural and magnetic properties of magnetic dilution in the pyrochlore Gd<sub>2</sub>Ru<sub>2</sub>O<sub>7</sub>**

Flávia Santos Portela<sup>1</sup>, Maria Danielle Rodrigues Marques<sup>1</sup>, Daniela Rodrigues Borba Valadão, Petrucio Barrozo da Silva<sup>2</sup>, José Albino Aguiar; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Federal de Sergipe

**SP1-A67 - Study of the normal-superconductor phase transition in a granular**

**Y<sub>0.25</sub>Gd<sub>0.25</sub>Er<sub>0.25</sub>Nd<sub>0.25</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> high temperature superconductor**

Rosângela Menegotto Costa<sup>1</sup>, Alana Roberta Antonieto Kavamoto, Pedro Rodrigues Júnior, Adilson Luiz Chinelatto; <sup>1</sup>Universidade Federal do Rio Grande

**SP1-A68 - Critical current density in the YBa<sub>2-x</sub>Sr<sub>x</sub>Cu<sub>3</sub>O<sub>7-δ</sub> superconductor**

Rovan Fernandes Lopes, Valdemar Das Neves Vieira<sup>1</sup>, Ana Paula Aguiar Mendonça, Fábio Teixeira Dias, Paulo Pureur, Jacob Schaf; <sup>1</sup>Instituto de Física E Matemática - Universidade Federal de Pelotas

**TUESDAY, SEPTEMBER 27TH**

**SESSION SP2**

**14:00 - 16:00 - Exhibition Hall**

**SP2-A69 - Magnetic inductive heating in nanostructured ferrites**

Adriana Silva de Albuquerque, Patrícia Mariana Alves Caetano, Monique Grazielle Cruz, José Domingos Ardisson, Luis Eugenio Fernandez Outon<sup>1</sup>, Waldemar Augusto de Almeida Macedo; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP2-A70 - Effect of Ho doping on the structural, microstructural, electrical and magnetic properties of Ruthenium Pyrochlores Gd<sub>2-x</sub>Ho<sub>x</sub>Ru<sub>2</sub>O<sub>7</sub> (0 ≤ x ≤ 2)**

Maria Danielle Rodrigues Marques<sup>1</sup>, Flávia Santos Portela<sup>1</sup>, Daniela Rodrigues Borba Valadão, Petrucio Barrozo da Silva<sup>2</sup>, José Albino Aguiar; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Federal de Sergipe

**SP2-A71 - Comparison of different methods of synthesis of Bismuth Ferrite- BiFeO<sub>3</sub> and Manganite- BiMnO<sub>3</sub>**

Kamila Felisardo de Farias, Méri Domingos Vieira, João Paulo Sinnecker, Luiz Augusto Sousa de Oliveira<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

**SP2-A72 - Magnetic properties of  $\epsilon$ -Fe<sub>3</sub>N nanoparticles obtained by mechanical alloying**

Francisco José Garanhanj, Marcia Carvalho de Abreu Fantini<sup>1</sup>, Daniel Reinaldo Cornejo<sup>2</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Instituto de Física

**SP2-A73 - Confinement of spin density waves in Cr films**

Enrique Eduardo Kaul<sup>1</sup>, Hernan Pastoriza, Eduardo Jose Osquiuguil; <sup>1</sup>Comision Nacional de Energia Atomica

**SP2-A74 - Effects of Pressure on Clathrate Ce<sub>3</sub>Pd<sub>20</sub>Ge<sub>6</sub>**

Hiroyuki Hidaka<sup>1</sup>, Shinya Otani, Tatsuya Yanagisawa, Hiroshi Amitsuka, Scheilla Maria Ramos<sup>1</sup>, Eduardo Hering<sup>1</sup>, Elisa Baggio Saitovitch; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A75 - Josephson effects in Bi-Pb-Sr-Ca-Cu ceramic superconductor**

Gustavo Quezeza Freitas<sup>1</sup>, Cláudio Luiz Carvalho, Gisele A Souza<sup>1</sup>, Guilherme Botega Torsoni, Regiane Godoy Lima<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira

**SP2-A76 - MFM and AFM measurements of Co/Au multilayers**

Henrique Duarte da Fonseca Filho<sup>1</sup>, Maria Souza, Fernando Pelegrini, Justiniano Quispe-Marcatoma<sup>2</sup>, Willyan Ayalo, Elisa Baggio Saitovitch; <sup>1</sup>Universidade Federal do Amapá, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A77 - Effects of pressure and magnetic field on the in-plane electrical resistivity of Y<sub>1-x</sub>Ca<sub>x</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> single crystals**

Sandra Teixeira Jaeckel, Valdemar Das Neves Vieira<sup>1</sup>, Lutiene Fernandes Lopes, Ana Paula Aguiar Mendonça, Rovann Fernandes Lopes, Leticie Mendonça Ferreira, Sabrina Esperança Nunes; <sup>1</sup>Instituto de Física E Matemática - Universidade Federal de Pelotas

**SP2-A78 - Investigation of the structure and magnetic characteristic of the iron pyrochlore.**

Graciele Berndt, Andrea Paesano, João J. B. M. da Cunha, Olivier Isnard

**SP2-A79 - Doped ZnO obtained from thermal treatment of ZnO + (Mn, Fe or Co) acetate freeze-**

**dried powders**

Antônio Oliveira Souza, Fabio Rogerio Longen, Jusmar Valentin Bellini, Andrea Paesano

**SP2-A80 - The deposition of VO<sub>2</sub> thin films by DC reactive magnetron sputtering: optimizing the deposition parameters**

Paloma Boeck Souza<sup>1</sup>, Thiago José de Almeida Mori<sup>1</sup>, Rafael Domingues Della Pace<sup>1</sup>, Evgeni Svenk Cruz Gracia, Luiz Fernando Schelp; <sup>1</sup>Universidade Federal de Santa Maria

**SP2-A81 - Growth of Ni<sub>81</sub>Fe<sub>19</sub> thin films for anisotropic magnetoresistance applications. isotropic magnetoresistance applications.**

Thiago José de Almeida Mori<sup>1</sup>, Paloma Boeck Souza<sup>1</sup>, Rafael Domingues Della Pace<sup>1</sup>, Lucio Strazzabosco Dorneles<sup>1</sup>, Luiz Fernando Schelp; <sup>1</sup>Universidade Federal de Santa Maria

**SP2-A82 - Investigation of the magnetic vortex configuration in regular arrays of ferromagnetic microstructures**

Sofia Oliveira Parreiras, Maximiliano Delany Martins

**SP2-A83 - Magnetic properties of Co/Au multilayer**

Justiniano Quispe-Marcatoma<sup>1</sup>, Willian Edgardo Alayo, Marcos Antonio de Sousa, Fernando Pelegrini, Elisa Baggio Saitovitch; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A84 - Influence of Co nanoparticles deposited at NiFe/IrMn interface on the magnetic properties**

Luiz Carlos Camargo Miranda Nagamine<sup>1</sup>, Gabriel Teixeira Landi<sup>1</sup>, Julian Geshev, Antonio Domingues Santos<sup>2</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Instituto de Física

**SP2-A85 - Molecular Orbital Calculations On The Superstructure Of Ybco With Delta 0,5**

Jorge Manso Rocha<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe

**SP2-A86 - Extraordinary Hall effect in Co/CoO films grown by sequential deposition**

Matheus Gamino Gomes<sup>1</sup>, Juliano Casagrande Denardin, Luiz Fernando Schelp, Lucio Strazzabosco Dorneles<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Maria

**SP2-A87 - Schottky Emission in Ga<sub>1-x</sub>Mn<sub>x</sub>As Nanocrystalline Films Prepared by Sputtering**

João Carlos Angelico<sup>1</sup>, João Carlos Angelico<sup>1</sup>, José Humberto Dias da Silva; <sup>1</sup>Universidade Paulista

**SP2-A88 - High frequency permeability in NiFe/IrMn/Ta exchange biased multilayers**

Roberta Dutra de Oliveira Pinto<sup>1</sup>, Diego González Chávez<sup>1</sup>, Antonio Marcos H. de Andrade, Rubem Luis Sommer<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas



**SP2-A89 - Development of Microscopic Magnetic Devices by Near Field Optical Lithography**

Jeferson Tiago Silva<sup>1</sup>, Mariana Pojar<sup>2</sup>, Luiz Carlos Camargo Miranda Nagamine<sup>3</sup>, Antonio Domingues Santos<sup>3</sup>; <sup>1</sup>Instituto de Física, <sup>2</sup>Polytechnic School At Universidade de São Paulo (Usp), <sup>3</sup>Instituto de Física da Universidade de São Paulo

**SP2-A90 - The Hall coefficient of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> thin films and effects of strong disorder**

Paula de Azambuja Sobocinski<sup>1</sup>, Paulo Pureur, Fábio Teixeira Dias, Teresa Puig, Xavier

Obradors; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-A91 - Production and characterization of Perovskite compounds Nanowires by Electrospinning**

Daniel Felipe Simião<sup>1</sup>, Alessandra Zenatti<sup>1</sup>, Juliana Alves Pereira Sato, Everaldo Carlos Venancio, Márcia Tsuyama Escote<sup>1</sup>; <sup>1</sup>Universidade Federal do Abc

**SP2-A92 - MgB<sub>2</sub> samples with addition of VB<sub>2</sub>, SiC, graphite, and carbon nanotubes: microstructural characterization**

Vivian Cristina Velloso Metzner<sup>1</sup>, Lucas Barboza Sarno da Silva<sup>2</sup>, Durval Rodrigues Júnior; <sup>1</sup>Escola de Engenharia de Lorena - Usp, <sup>2</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP2-A93 - Engineering Fluorescent Quantum Dots for Potential Biomedical Applications**

Herman Sander Mansur<sup>1</sup>, Alexandra Apisicelli Mansur, Vanessa Schatkoski; <sup>1</sup>Universidade Federal de Minas Gerais

**SP2-A94 - TaB<sub>2</sub> and VB<sub>2</sub> addition in the MgB<sub>2</sub> superconductor, and co-doping with SiC**

Lucas Barboza Sarno da Silva<sup>1</sup>, German Dario Serrano, Adriana Cristina Serquis, Vivian Cristina Velloso Metzner<sup>2</sup>, Eric E. Hellstrom, Durval Rodrigues Júnior; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo, <sup>2</sup>Escola de Engenharia de Lorena - Usp

**SP2-A95 - Evaluation of the precursor reactants for the non-aqueous synthesis of iron oxide nanoparticles**

Fernando Barbosa de Freitas Silva<sup>1,2</sup>, Elaine Cristina Paris, Caue Ribeiro de Oliveira; <sup>1</sup>Embrapa Instrumentação, <sup>2</sup>Universidade de São Paulo - Instituto de Química de São Carlos

**SP2-A96 - Magnetic metal-carbon composite functionalized with acrylic acid for biotechnological application**

Gabriele Campbell Link<sup>1,2</sup>, Andressa de Lima Sievers, Rogério Almeida Gouvêa<sup>3</sup>, Angelo Max Silveira de

Oliveira, Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño; <sup>1</sup>Centro de Ciências Químicas, Farmacêuticas E de Alimentos, <sup>2</sup>Universidade Federal de Pelotas - Centro de Ciências Químicas, Farmacêuticas E de Alimentos, <sup>3</sup>Universidade Federal de Pelotas

**SP2-A97 - Structural and magnetic properties of X<sub>2</sub>YZ-type Heusler alloys in Fe<sub>2+x</sub>V<sub>1-x</sub>Al alloys.**

Walmir Eno Pottker, José Pedro Mansueto Serbena<sup>1</sup>; <sup>1</sup>Universidade Tecnológica Federal do Paraná

**SP2-A98 - A New Biomagnetic Method To Evaluate Gastrointestinal Transit Time And Gastric Emptying In Small Animal Models**

José Ricardo Miranda, Madileine Américo, Marcos Felipe Calebresi, Caio César Quini

**SP2-A99 - Structural Analysis Of Ferrite Mn<sub>0,65</sub>Zn<sub>0,35</sub>Fe<sub>2</sub>O<sub>4</sub>: Determination Crystallite Size**

Rafaela Luiz Pereira Santos<sup>1</sup>, Pollyana Caetano Ribeiro, Débora Albuquerque Vieira, José Marcos Sasaki, Ana Cristina Figueiredo de Melo

**SP2-A100 - Analysis of use magnetic particles of Co/C in removing of oil deposited into superficial waters.**

Gabriele Campbell Link<sup>1,2</sup>, Andressa de Lima Sievers, Angelo Max Silveira de Oliveira, Neftalí Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Rogério Almeida Gouvêa<sup>3</sup>, Marcia Foster Mesko; <sup>1</sup>Centro de Ciências Químicas, Farmacêuticas E de Alimentos, <sup>2</sup>Universidade Federal de Pelotas - Centro de Ciências Químicas, Farmacêuticas E de Alimentos, <sup>3</sup>Universidade Federal de Pelotas

**SP2-A101 - Influence of surfactants on morphology and conducting properties of polypyrrole**

Regiane Aparecida Medeiros Campos, Mirabel Cerqueira Rezende, Roselena Faez

**SP2-A102 - Magneto-plasmonics studies on MO-SNOM**

Fabio Lombardi Maximino<sup>1</sup>, Gabriel Teixeira Landi<sup>1</sup>, Antonio Domingues Santos<sup>2</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo, <sup>2</sup>Instituto de Física

**SP2-A103 - Mossbauer Study of the quase-one-dimensional An+2Con+103n+3 (A=Ca, Sr, Ba; n=1-7,∞)**

Mariella Alzamora, Elisa Baggio Saitovitch, Dalber R Sanchez

**SP2-A104 - Synthesis, Crystal Structure and Magnetism of two newcobalt(II) cubane-like**

**compounds**

Ghilherme Pereira Guedes, Stéphane Soriano, Nadia Maria Comerlato, Miguel Alexandre Novak, Maria Das Graças Fiaho Vaz

**SP2-A105 - Thermal fluctuations near the transition in  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$  films growth over three different substrates**

Omar Ortiz Ortiz-Diaz, David Arsenio Landinez, Jairo Roa-Rojas

**SP2-A106 - Magnetic Nanocolloids based on Mixed Ferrite Nanoparticles**

Renata Aquino<sup>1</sup>, Priscilla Coppola Rodrigues, Dyego Araujo Costa, Francisco Augusto Tourinho<sup>1</sup>, Jerome Depeyrot; <sup>1</sup>Universidade de Brasília

**SP2-A107 - Synthesis of  $\text{NiFe}_2\text{O}_4$  nanoparticles and functionalization with fatty acids found in Andiroba oil (Carapa guianensis Aubl oil)**

Jorge Luis Lopez Aguilar<sup>1</sup>, Tatiane Muniz Silva<sup>1</sup>, Roberto Magalhães Paniago, Hans D.- Pfannes, Jose Higino Dias Filho; <sup>1</sup>Universidade Federal do Acre

**SP2-A108 - Evaluation of austenite transformation from M/A constituent in grade X80 pipeline steel under plastic deformation condition**

Alan Barros Almeida, Fernando José Gomes Landgraf, Rodrigo Magnabosco, Helio Goldenstein<sup>1</sup>; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP2-A109 - Structural ordering of  $\text{Sr}_2\text{CuMnO}_6$  new perovskite by X-ray diffraction studies**

Ximena Elizabeth Puentes, Davian Martínez, Omar Ortiz-Diaz

**SP2-A110 - Superconducting Nb films produced by DC sputtering technique**

Danusa do Carmo<sup>1</sup>, Thiago José de Almeida Mori<sup>1</sup>, Rafael Domingues Della Pace<sup>1</sup>, Fabiano Colauto, Antonio Marcos H. de Andrade, Ana Augusta Mendonça Oliveira; <sup>1</sup>Universidade Federal de Santa Maria

**SP2-A111 - Studies on the ferromagnetic Kondo lattice  $\text{CeTiGe}_3$  under high pressures**

Scheilla Maria Ramos<sup>1</sup>, Eduardo Hering<sup>1</sup>, Hiroyuki Hidaka<sup>1</sup>, Kausik Sengupta, Magda Fontes, Elisa Baggio Saitovitch; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A112 - Substrate influence in the barrier quality of multiferroic tunnel junctions, model and experiments.**

Martin Sirena<sup>1</sup>; <sup>1</sup>Instituto Balseiro

**SP2-A113 - Preparation of nickel magnetic nanoparticles with pulsed laser ablation deposition**

**technique**

Yutao Xing<sup>1</sup>, Juan Lucas Nachez, Stéphane Soriano, Dante Ferreira Franceschini; <sup>1</sup>Universidade Federal Fluminense

**SP2-A114 - Production of  $(\text{Eu,Ba})\text{TiO}_3$  nanotubes**

Alessandra Zenatti<sup>1</sup>, Daniel Felipe Simião<sup>1</sup>, Alexandre José de Castro Lanfredi, Edson Roberto Leite, Elson Longo, Márcia Tsuyama Escote<sup>1</sup>; <sup>1</sup>Universidade Federal do Acre

**SP2-A115 - Possible Reentrant Superconductivity on  $\text{Ce}_2\text{Rh}_{0.75}\text{Ir}_{0.25}\text{In}_8$  Heavy Fermion Compound**

Eduardo Hering<sup>1</sup>, Scheilla Maria Ramos<sup>1</sup>, Hortencio Alves Borges, Magda Fontes, Elisa Baggio Saitovitch, Pascoal G. Pagliuso, Eduardo Bittar; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A116 - Investigation of Ferromagnetism associated to defects in  $\text{SnO}_2$  doped with Fe by means of Perturbed Gamma-Gamma Angular Correlation**

Juliana Marques Ramos<sup>1</sup>, Artur Wilson Carbonari, Thiago Martucci<sup>1</sup>, Messias Souza Costa, Rajendra Narain Saxena; <sup>1</sup>Instituto de Pesquisas Energéticas e Nucleares

**SP2-A117 - Synthesis, Characterization and Funcionalization of  $\text{CoFe}_2\text{O}_4$  Nanoparticles with fatty acids found in Gergelim oil.**

Tatiane Muniz Silva<sup>1</sup>, Jorge Luis Lopez Aguilar<sup>1</sup>, Roberto Magalhães Paniago, Hans D.- Pfannes, Jose Higino Dias Filho; <sup>1</sup>Universidade Federal do Acre

**SP2-A118 - Multi-quantum echoes and coherence selection in  $\text{GdAl}_2$  with zero-field NMR**

Rodrigo de Oliveira Silva<sup>1</sup>, Christian Ascona Rivera, José Roberto Tozoni, Edson Luiz Gea Vidoto, João Teles de Carvalho Neto, Tito José Bonagamba; <sup>1</sup>Instituto de Física de São Carlos

**SP2-A119 - Nanocrystalization of FeSiB-based films**

Marcos José Pereira Alves, José Gomes Filho, Diego González Chávez<sup>1</sup>, Rubem Luis Sommer<sup>1</sup>, Tatiana Lisboa Marcondes; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A120 - Morphology of Conducting Bacterial Cellulose Nanocomposites with Polianiline - A SAXS study**

Bluma Guenther Soares, Jessica Alves Marins<sup>1</sup>, Karim Dahmouche<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP2-A121 - The Influence Of Calcining Ni-Zn Ferrite Doped With  $\text{Cu}^{2+}$**

Polyana Tarciana Araújo Dos Santos, Patrícia Tatiana Araújo Dos Santos, Ana Cristina Figueiredo Melo Costa

**SP2-A122 - Paramagnetic state in manganites: homogenous or clustered picture?**

Fabian Nima Ramirez<sup>1</sup>, Jose Antonio Souza; <sup>1</sup>Universidade Federal do ABC

**SP2-A123 - High field paramagnetic Meissner effect in hole doped YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> single crystals**

Valdemar Das Neves Vieira<sup>1</sup>, Augusto Falck, Fábio Teixeira Dias, Paulo Pureur, Jacob Schaf; <sup>1</sup>Instituto de Física E Matemática - Universidade Federal de Pelotas

**SP2-A124 - Magnetization dynamics damping in CoFeSiB microwires**

Dieivase Chrischon, Kelly Sossmeier, João Paulo Gazola, Marcos Carara

**SP2-A125 - An investigation of a small resistive fault current limiting device based on superconducting materials**

Carlos Augusto Cardoso Passos<sup>1,2</sup>, Marcos Tadeu D'azeredo Orlando, Jose Luis Passamai Jr, Humberto Belich Jr, Valdi Antonio Rodrigues Jr, Jussara Farias Fardin, Domingos Savio Simonetti; <sup>1</sup>Universidade Federal do Espírito Santo, <sup>2</sup>Carlos Passos

**SP2-A126 - Study of electrical resistivity under high pressures of compound Ce<sub>3</sub>Ir<sub>4</sub>Sn<sub>13</sub>**

Jackeline Rosario Collave Garcia<sup>1</sup>, Hortencio Borges, Scheilla Maria Ramos<sup>2</sup>, Eduardo Hering<sup>2</sup>, Magda Fontes, Elisa Baggio Saitovitch, P Pagliuso; <sup>1</sup>Rio, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A127 - High frequency permeability and magnetoimpedance measurements of Py/Ag multilayered films by vector network analyzer magnetometry.**

Diego González Chávez<sup>1</sup>, Tatiana Lisboa Marcondes, Antonio Marcos H. de Andrade, Rubem Luis Sommer<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A128 - A new superconductor-ferromagnet nano-composite: Co clusters in an amorphous Bi film**

William H. Trujillo<sup>1</sup>, Isabel C. Souza Dinóla, Yutao Xing<sup>2</sup>, Elisa Baggio Saitovitch, Hans Micklitz; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Universidade Federal Fluminense

**SP2-A129 - Structural and superconducting properties of Sr<sub>4</sub>A<sub>2</sub>O<sub>6</sub>Fe<sub>2</sub>As<sub>2</sub> ( A=Sc, V ) and EuFe<sub>2</sub>As<sub>1.4</sub>P<sub>0.6</sub> crystals studied through local probe techniques**

Julian Andres Munevar Cagigas

**SP2-A130 - Location of Fe aggregates in Yb films**

Chachi Rojas-Ayala, Wiliam Trujillo, Isabel C. Souza Dinóla, Edson Passamani, Mathias Mraken, Elisa Baggio Saitovitch, Jochen Litterst

**SP2-A131 - Location of Fe aggregates in Yb films**

Chachi Rojas Ayala, William H. Trujillo<sup>1</sup>, Isabel C. Souza Dinóla, Mathias Mraken, Elisa Baggio Saitovitch, Jochen Litterst; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A132 - Magnetic and Electric Properties of Cadmium Films Containing Nanometer Size Clusters of Iron**

William H. Trujillo<sup>1</sup>, Pablo Munayco, Chachi Rojas Ayala, Isabel Cristina Souza Dinóla<sup>1</sup>, Mathias Mraken, Elisa Baggio Saitovitch, Jochen Litterst; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-A133 - Synthesis and characterization of iron oxide nanorods for biomedical applications**

Adriana Linhares Drummond<sup>1</sup>, Tiago C. A. F. Rodrigues, Andris Figueiroa Bakuzis<sup>2</sup>, Luciano Paulino Silva, Marcelo Henrique Sousa, Maria José Araujo Sales; <sup>1</sup>Universidade de Brasília, <sup>2</sup>Universidade Federal de Goiás

**SP2-A134 - The influence of urea in the synthesis of iron oxide nanoparticles**

Adriana Linhares Drummond<sup>1</sup>, Tiago C. A. F. Rodrigues, Andris Figueiroa Bakuzis<sup>2</sup>, Luciano Paulino Silva, Marcelo Henrique Sousa, Maria José Araujo Sales; <sup>1</sup>Universidade de Brasília, <sup>2</sup>Universidade Federal de Goiás

## SYMPOSIUM B

### Biodegradable Polymer Materials

#### Chairs

Cristina Tristão Andrade (UFRJ)

Marcos Lopes Dias (UFRJ)

António Vicente (University of Minho)

## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY, SEPTEMBER 26TH

#### SESSION B1

09:30 - 10:30 - Room 04

09:30 - **B1.1\***

**Scale and stakes of mass transfer in materials development for novel food packaging technologies**

Nathalie Gontard<sup>1</sup>; <sup>1</sup>Université Montpellier Ii Sciences Et Techniques Du Languedoc

10:00 - **B1.2**

**Cytotoxicity of soft relene resins in murine**

**macrophage line RAW264.7**

Carolina de Andrade Lima Chaves, Ana Lucia Machado<sup>1</sup>, Carlos Alberto de Souza Costa, Carlos Eduardo Vergani, Pedro Paulo Chaves de Souza; <sup>1</sup>Faculdade de Odontologia de Araraquara-Unesp

**10:15 - B1.3****Preparation and characterization of nanocellulose obtained at different conditions**

Maria de Fátima Vieira Marques<sup>1</sup>, Juliana Nascimento Lunz, José Carlos Freitas Mota; <sup>1</sup>Macromolecules Institute - Federal University Of Rio de Janeiro

**SESSION B2****11:00 - 12:30 - Room 04****11:00 - B2.1\*****Electrosinching of Biopolymers: Applications**

Jose Maria Lagaron<sup>1</sup>; <sup>1</sup>Spanish Council For Scientific Research

**11:30 - B2.2****Development of chitosan membranes with cationic porphyrins incorporated to eliminate microbial contaminants in water supply**

Cintia Ramos Camargo<sup>1</sup>, Wanessa de Cássia Martins Antunes Melo, Virginia da Conceição Amaro Martins, Ana Maria de Guzzi Plepis, Janice Rodrigues Perussi; <sup>1</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**11:45 - B2.3****Physicochemical parameters of oil and polymer influence the supramolecular structure of nanocapsules**

Fernanda Poletto<sup>1</sup>, Luana Almeida Fiel, Gabriela Schaab<sup>2</sup>, Silvia Guterres, Adriana Raffin Pohlmann; <sup>1</sup>Institute Of Chemistry - Federal University Of Rio Grande do Sul, <sup>2</sup>Federal University Of Rio Grande do Sul

**12:00 - B2.4****Recycling and performance of saw-dust reinforced polypropylene composites obtained using reactively extruded maleated polypropylene.**

Lucas Pereira Santos<sup>1</sup>, Thais Sydenstricker Flores-Sahagun, Kestur G. Satyarayana; <sup>1</sup>Universidade Federal do Paraná

**12:15 - B2.5****Rheological properties of regenerated silk fibroin (RSF):glycerol solutions**

Marcelo Henrique Kravicz<sup>1</sup>, Virginia da Conceição Amaro Martins, Ana Maria de Guzzi Plepis, Sergio Akinobu Yoshioka<sup>1,2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Química de São Carlos

**SESSION B3****15:00 - 16:00 - Room 04****15:00 - B3.1\*****Eco-friendly extracted agars: physicochemical and rheological characterisation and prospective applications**

Maria Pilar Gonçalves<sup>1</sup>, Ana Margarida Sousa; <sup>1</sup>Faculdade de Engenharia da Universidade do Porto

**15:30 - B3.2****The use of biocompatible and biodegradable scaffolds to promote tissue engineering through the association of nanotechnology and stem cells**

Daniela Steffens, Michelle Lersch, Cristiane Regina Scher, Rafael Otoniel Cunha, Michele Greque de Moraes, Jorge Alberto Vieira Costa, Patricia Pranke<sup>1</sup>; <sup>1</sup>Federal University Of Rio Grande do Sul

**15:45 - B3.3****Polymeric nanoparticles loaded local anesthetic articaine**

Nathalie Ferreira Silva de Melo<sup>1</sup>, Estefania Vangelie Ramos Campos, Eneida de Paula, André Henrique Rosa, Leonardo Fernandes Fraceto; <sup>1</sup>Universidade Estadual de Campinas

**TUESDAY, SEPTEMBER 27TH****SESSION B4****09:30 - 10:30 - Room 04****09:30 - B4.1\*****Controlled release of pimaricin by nanohydrogels of poly(N-isopropylacrylamide) inhibits yeast growth**

Clara Fucinos, Lorenzo Pastrana Castro, Nelson Pérez Guerra, Issa Katime, María Luisa Rua, Lorenzo Pastrana Castro

**10:00 - B4.2****Ropivacaine encapsulated in alginate-chitosan nanoparticles for topical anesthesia**

Sheila Maria Stoco<sup>1</sup>, Renato Grillo, Marcelo Lancellotti, Viviane Aparecida Queiroz, Leonardo Fernandes Fraceto, Eneida de Paula, Daniele Ribeiro de Araujo; <sup>1</sup>Universidade Estadual de Campinas

**10:15 - B4.3****Effects of material hydrophilicity and emulsification process on entrapment of bovine hemoglobin**

Felipe Fortes Lima<sup>1</sup>, Cristina Tristão Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

## SESSION B5

11:00 - 12:30 - Room 04

11:00 - **B5.1\***

### **Electrospinning Of Biodegradable Nanofibers And Nanocomposite Fibers: A Review Of Applications In Agriculture**

Caue Ribeiro de Oliveira, Rodrigo Guerreiro Fontoura Costa, Juliano Elvis Oliveira, Gustavo de Paula, Luiz Caparelli Mattoso

11:30 - **B5.2**

### **Low field nmr characterization of biodegradable polymer nanocomposites**

Emerson Oliveira Silva<sup>1</sup>, Antonio Pádua Castello Branco Cunha, Mariana Sato de S. B. Monteiro, Mariana Bruno Rocha Silva, Cíntia Legramanti; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano

11:45 - **B5.3**

### **Viscoelastic properties of poly(lactic acid)/synthetic mica composites**

Diego de Holanda Saboya Souza, Marcos Lopes Dias, Cristina Tristão Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

12:00 - **B5.4**

### **Preparation of PLLA/PDLA Stereocomplexes Using a Biocompatible Catalyst**

Alexandre Carneiro Silvino<sup>1</sup>, Priscila S Correa, Marcos Lopes Dias; <sup>1</sup>Universidade Federal do Rio de Janeiro

## WEDNESDAY, SEPTEMBER 28TH

### SESSION B6

09:30 - 10:30 - Room 04

09:30 - **B6.1\***

### **Natural hydrocolloids for nanotechnological applications in foods**

Antônio Augusto Vicente<sup>1</sup>, Mafalda Aguiar Quintas, Miguel A. Cerqueira, Hélder D. Silva, Ana Cristina Pinheiro, Ana Isabel Bourbon, Maria da Graça Carneiro-Da-Cunha; <sup>1</sup>Universidade do Minho

10:00 - **B6.2**

### **Chemical stability of cotrimoxazole in front of it's insertion method in composites of PLGA and maghemite.**

Emiliane Daher Pereira<sup>1</sup>, Fernando Sousa Júnior; <sup>1</sup>Universidade Federal do Rio de Janeiro

10:15 - **B6.3**

### **In vivo study of blends composed by poly(vinylidene fluoride - trifluoroethylene) P(VDF-TrFE) and corn starch**

João Domingos Augusto Dos Santos Pereira<sup>1</sup>, Rebeca Delatore Simões, Carlos José Leopoldo Constantino, Mariza Akemi Matsumoto, Leonardo Marques, Ângela Otta Mitie Kinoshita; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

## POSTER PRESENTATIONS

### MONDAY , SEPTEMBER 26TH

#### SESSION SP1

16:00 - 18:00 - Exhibition Hall

### **SP1-B1 - The Effect of Gamma Radiation on Mechanical Properties of the Biodegradable Polymer poly(3-hydroxy butyrate) and poly(3-hydroxy butyrate-co-3-hydroxy valerate)**

Leticia Maria Oliveira<sup>1</sup>, Patricia Lopes Araújo, Elmo Silvano Araújo; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco

### **SP1-B2 - Mechanical Behavior of Sisal Treated Fiber-Reinforced Sand**

Gislene Aparecida Santiago, Vagner Roberto Botaro, Nilo Cesar Consoli

### **SP1-B3 - Biodegradable polymer reinforced with *Agave silana***

Leticia Maria Oliveira<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco

### **SP1-B4 - Viability Study of the use of Sisal Treated Fibers in Pavement Structures**

Rodrigo Pires Leandro, Gislene Aparecida Santiago, Vagner Roberto Botaro

### **SP1-B5 - Formation of cobalt-Prussian blue nanoparticles on to bacterial cellulose membrane**

Vagner Sargentelli, Hernane Silva Barud, Sidney José Lima Ribeiro

### **SP1-B6 - Ecobras<sup>tm</sup>/Attapulgitte Composites: Part I**

Tatianny Soares Alves<sup>1</sup>, Renata Barbosa, Laura Hecker de Carvalho, Eduardo Luis Canedo; <sup>1</sup>Universidade Federal de Campina Grande

### **SP1-B7 - Recycled polypropylene matrix composite reinforced with sugarcane bagasse fiber**

Janaina Leite Howarth<sup>1</sup>, Écio José Molinari<sup>1</sup>, Bruno C. Silveira; <sup>1</sup>Sociedade Educacional de Santa Catarina - Ito Joinville

### **SP1-B8 - Thermal stability of extruded feed based on starch, albumin, and linseed**

Fabiana Lindenberg Dos Santos<sup>1</sup>, Kátia Gomes de Lima Araújo, Cristina Tristão

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

### **SP1-B9 - Development and characterization of aliphatic polyurethane and hydroxyapatite scaffold**

**for bone tissue regeneration**

Sabina da Memória Cardoso de Andrade<sup>1</sup>, Carmen Gilda Barroso Tavares Dias, Cecília Amélia de Carvalho Zavaglia; <sup>1</sup>Universidade Estadual de Campinas

**SP1-B10 - Synthesis and characterization of chitosan-gelatin composites with hydroxyapatite**

Davino Machado Andrade Neto<sup>1</sup>, Júlio Cesar Góes, Sonia Duarte Figueiró, Nágila Maria Pontes Silva Ricardo, Pierre Basílio Almeida Fechine<sup>1</sup>; <sup>1</sup>Universidade Federal do Ceará

**SP1-B11 - Gelatin-based electrolyte with SiO<sub>2</sub> nanoparticles**

Natália Hadler Marins<sup>1</sup>, Ellen Raphael, Neftalí Lenin Villarreal Carreño, Fabrício Ogliari, Agnieszka Pawlicka, César Antonio Oropesa Avellaneda; <sup>1</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

**SP1-B12 - Study and characterization of PVA electrospinning nanofibers**

Fábio Gaino Curcio<sup>1</sup>, Ligia Maria Manzine Costa, Mariselma Ferreira; <sup>1</sup>Fundação Universidade Federal do Abc

**SP1-B13 - Evaluation of parameters of electrospinning to produce PCL membranes for drug delivery systems.**

Fábio Gaino Curcio<sup>1</sup>, Ligia Maria Manzine Costa, Mariselma Ferreira; <sup>1</sup>Fundação Universidade Federal do Abc

**SP1-B14 - Application of the method EWF (Essential Work of Fracture) in evaluation of fracture toughness of PP composites with wood particles**

Zora Ionara Gama Dos Santos, Marcelo Massayoshi Ueki, Marcelo Silveira Rabello, Rômulo Freitas Farias, Joyce Batista Azevedo

**SP1-B15 - Comparison of release profiles of praziquantel from Solid Dispersion of 70-kDa Dextran and Sodium Starch Glycolate**

Flávio Dos Santos Campos<sup>1</sup>, Samanta Mansano Siqueira, Ana Luiza Ribeiro de Souza, Ana Doris de Castro, Maria Palmira Daflon Gremião; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP1-B16 - The use of the Bionics methodology in composite materials in Product Design: Case Study**

Camila Loricchio Veiga<sup>1</sup>, Mary Mitsue Yokosawa, Nelson Tavares Matias, Jorge Luiz Rosa, George Jackson de Moraes Rocha, Rosinei Batista Ribeiro; <sup>1</sup>Faculdades Integradas Teresa D'Ávila

**SP1-B17 - Characterization of the mechanical properties of wood of Araucaria angustifolia****(Bertol.) Kuntze**

Matheus Lemos Peres<sup>1</sup>, Darci Alberto Gatto, Diego Martins Stangerlin, Leandro Calegari, Clovis Roberto Haselein, Rômulo Trevisan, William Gamino Güths<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas

**SP1-B18 - Electrospinning process, parameters and applicability.**

Sânia Maria Belísio Andrade<sup>1</sup>, Rasiah Ladchumanandasivam; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-B19 - Preparation and characterization of Agar-based electrolyte with nickel oxide nanoparticles**

Dalal Jaber Audeh<sup>1</sup>, César Antonio Oropesa Avellaneda, Neftalí Lenin Villarreal Carreño, Ellen Raphael, Agnieszka Pawlicka; <sup>1</sup>Universidade Federal de Pelotas

**SP1-B20 - Preparation and characterization of sodium risedronate-loaded polymeric blend microparticles**

Aline de Arce Velasquez<sup>1</sup>, Luana Motta Ferreira, Juliane Mattiazzi, Clarice Madalena Bueno Rolim, Letícia Cruz; <sup>1</sup>Universidade Federal de Santa Maria

**SP1-B21 - Microencapsulation and characterization of a natural pigment using OSA starch as matrix material**

Thaís Souza Passos<sup>1</sup>, Marcelo Henrique Prado da Silva, Kátia Gomes de Lima Araújo, Maria Helena Rocha Leão; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP1-B22 - Preparation and properties of starch nanocomposites**

Adriane Medeiros Ferreira<sup>1</sup>, Alessandra Luzia da Róz<sup>2</sup>, Antonio Jose Felix Carvalho; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal de São Carlos, Campus Sorocaba

**SP1-B23 - Evaluation of morphological characteristics of chitin and chitosan obtained by Litopenaus vanammei and Ucides cordados.**

Sânia Maria Belísio Andrade<sup>1</sup>, Rasiah Ladchumanandasivam; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-B24 - Spectroscopic and Thermal Study of Materials Obtained by N-Benzoylation of Chitosan**

Fernanda Stuaní Pereira<sup>1</sup>, Heliara Lopes do Nascimento, Alviclérr Magalhães, Deuber Lincon Agostini, Martin Peter, Marcos Eberlin, Eduardo Pérez González; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP1-B25 - Estimation of mechanical properties of wood of Araucaria angustifolia**

André Luiz Missio<sup>1</sup>, Michael Weiler, Darci Alberto

Gatto, Diego Martins Stangerlin, Leandro Calegari,  
Clovis Roberto Haselein, Rômulo  
Trevisan; <sup>1</sup>Universidade Federal de Pelotas

**SP1-B26 - Characterization of wood quality  
of *Pinus taeda* L.**

Michael Weiler, André Luiz Missio<sup>1</sup>, Darci Alberto  
Gatto, Diego Martins Stangerlin, Leandro Calegari,  
Clovis Roberto Haselein, Rômulo  
Trevisan; <sup>1</sup>Universidade Federal de Pelotas

**SP1-B27 - Determination of specific gravity  
weighted by volume of wood of three tree species**

Tainise Vergara Lourençon<sup>1</sup>, Bruno Dufau Mattos,  
Darci Alberto Gatto, Diego Martins Stangerlin,  
Leandro Calegari, Rafael Beltrame; <sup>1</sup>Universidade  
Federal de Pelotas

**SP1-B28 - Influence of density on mechanical  
properties of MOR and MOE for wood of *Pinus  
elliottii* Engelm.**

William Gamino Güths<sup>1</sup>, Matheus Lemos Peres<sup>1</sup>,  
Darci Alberto Gatto, Diego Martins Stangerlin, Clovis  
Roberto Haselein, Leandro Calegari, Rômulo  
Trevisan; <sup>1</sup>Universidade Federal de Pelotas

**SP1-B29 - Characterization of wood *Araucaria  
angustifolia* attacked for wood decay agents by  
ultrasound**

Tainise Vergara Lourençon<sup>1</sup>, Bruno Dufau Mattos,  
Darci Alberto Gatto, Diego Martins Stangerlin,  
Leandro Calegari, Rafael Beltrame; <sup>1</sup>Universidade  
Federal de Pelotas

**SP1-B30 - Silver nanoparticles and  
carboxymethylcellulose nanocomposites: Synthesis  
and surface properties**

Marcia Regina de Moura<sup>1</sup>, Luiz Caparelli Mattoso,  
Valtencir . Zucolotto; <sup>1</sup>Instituto de Física de São  
Carlos

**SP1-B31 - Development of bactericidal  
nanocomposites for food packaging**

Marcia Regina de Moura<sup>1</sup>, Luiz Caparelli Mattoso,  
Valtencir . Zucolotto; <sup>1</sup>Instituto de Física de São  
Carlos

**SP1-B32 - Effect of palmitic acid on structural  
properties of amylose-nimesulid complexes**

Fernanda Mansano Carbinatto<sup>1</sup>, Beatriz Ferreira Cury,  
Raul Cesar Evangelista; <sup>1</sup>Universidade Estadual  
Paulista - Araraquara

**SP1-B33 - Respirometric study of PHB and PHBV  
films**

Suely Patricia Costa Gonçalves<sup>1</sup>, Adriano Uemura de  
Faria, Thayse Marques Passos, Jose Carlos  
Marconato, Sandra Mara Martins-  
Franchetti; <sup>1</sup>Universidade Estadual Paulista

**SP1-B34 - Comparative study on two methods of  
MCC surface modification: Grafting and wetting.**

Luciana Dos Santos Galvão, Amélia Severino Ferreira  
Santos

**SP1-B35 - Evaluation of the thermal stability of  
chitin and chitosan.**

Sânia Maria Belísio Andrade<sup>1</sup>, Rasiah  
Ladchumanandasivam, Alcione Olinto Galvão<sup>1</sup>,  
Débora Damasceno Belarmino, Luciene Mendes  
Ribeiro; <sup>1</sup>Universidade Federal do Rio Grande do  
Norte

**SP1-B36 - Polyols formed from babassu oil and  
derivatives anhydride**

Edson Cavalcanti da Silva Filho<sup>1</sup>, Fernando Borges,  
Sergio H. B. Leal, N. C. Batista, N. C. Batista, N. C.  
Batista, N. C. Batista; <sup>1</sup>Universidade Federal do Piauí

**SP1-B37 - Optimization of Ring Opening Mass  
Polymerization of  $\epsilon$ -Caprolactone**

Katiusca Wessler Miranda<sup>1</sup>, Karilen Endler, Gabriela  
Patricio Nunes, Sérgio Henrique Pezzin; <sup>1</sup>Pontifícia  
Universidade Católica de Minas Gerais

**SP1-B38 - Pea protein isolate as wall material in  
nutraceutical delivery system for sports nutrition**

Camila Sousa Campos da Costa<sup>1</sup>, André Mesquita  
Costa, Cristiana Melo Pedrosa, Maria Helena Rocha  
Leão, Anna Paola Trindade Rocha  
Pierucci; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP1-B39 - Polymeric nanocapsules containing  
hydrolyzed starches as surfactant in sunscreens  
formulations**

Ester Pinheiro Santos<sup>1</sup>, Jayne Carlos de Souza  
Barboza; <sup>1</sup>Escola de Engenharia de Lorena -  
Universidade de São Paulo

**SP1-B40 - Determination of the encapsulation  
percentage by liquid-liquid extraction and UV/Vis  
spectroscopy techniques in polymeric nanocapsules  
formulations**

Ester Pinheiro Santos<sup>1</sup>, Jayne Carlos de Souza  
Barboza; <sup>1</sup>Escola de Engenharia de Lorena -  
Universidade de São Paulo

**SP1-B41 - Polyurethanes obtained from mamona,  
babassu and buriti oils in absence of solvent**

Rafael Marinho Bandeira<sup>1</sup>, Germana Maria Santos  
Paiva, Nougá Cardoso Batista, Sergio H. B. Leal, José  
Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Universidade Federal do  
Piauí

**SP1-B42 - Mucoadhesive properties of starch  
sodium glycolate/zidovudine solid dispersion**

Liliane Neves Pedreiro<sup>1</sup>, Beatriz Ferreira Cury, Maria  
Palmira Daflon Gremião; <sup>1</sup>Universidade Estadual  
Paulista - Araraquara

**SP1-B43 - Development Of Nanoparticles Ionically Crosslinked Of Chitosan With Tripolyphosphate For Nasal Administration Of Albumin**

Liliane Neves Pedreiro<sup>1</sup>, Charlene Priscila Kiill, Maria Palmira Daflon Gremião; <sup>1</sup>Universidade Estadual Paulista - Araraquara

**SP1-B44 - Synthesis and thermal characterization of blends pectin+latex of Hancornia speciosa plasticized by glicerol**

Juranez Dantas, Carmem Milkas Corbellini Souza, Tiago Bruno Reis Araujo, Jair Marques Junior, Marcelo Freitas Lima, Aline Margarete Furuyama Lima<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP1-B45 - Antimicrobial Membrane Cellulose Acetate Containing Ionic Liquid and Metal Nanoparticles**

Carla Weber Scheeren<sup>1</sup>, Jairton Dupont; <sup>1</sup>Universidade Federal do Rio Grande

**SP1-B46 - The influence of polymer molecular weight on the drug encapsulation in lipid core nanocapsules**

Catiúscia Padilha Oliveira, Cristina de Garcia Venturini<sup>1</sup>, Silvia Guterres, Adriana Raffin Pohlmann; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-B47 - Thermoplastic starch-polyethylene blends**

Gisela Kloc Lopes, Mario Marques Figueira-Junior, Diego de Holanda Saboya Souza, Cristina Tristão Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP1-B48 - Inclusion of pigments from red pepper in beta-cyclodextrin: comparison between magnetic and ultrasonic stirring**

Lidiane Mendes Gomes<sup>1</sup>, Nicolly Petitto, Francine Albernaz Lobo, Deborah Quintanilha Falcão<sup>1</sup>, Kátia Gomes de Lima Araújo; <sup>1</sup>Universidade Federal Fluminense

**SP1-B49 - UV light irradiation on poly (lactic acid): surface modifications**

Franciele Nicole Dos Santos<sup>1</sup>, Walter Ruggeri Waldman, Antonio Jose Felix Carvalho; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP1-B50 - Potential evaluation of extraction whiskers from natural fiber of the Typha domingensis**

Natália Reigota César<sup>1</sup>, Paola Mulazani, Natali Dandara de Jesus, Fabio Lima Leite, Vagner Roberto

Botaro, Aparecido Junior de Menezes; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP1-B51 - The effect of the molecular weight of the polymer on the imiquimod release from lipid core nanocapsules**

Cristina de Garcia Venturini<sup>1</sup>, Franciele Aline Bruinsmann<sup>1</sup>, Renata Platcheck Raffin, Adriana Raffin Pohlmann, Silvia Guterres; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-B52 - Partial characterization of polyssacharides microbeads loaded with antibiotic**

Gizele Cardoso Fontes, Hans Fernando Rocha Dohmann, Maria Helena Rocha Leão, Alexandre Malta Rossi

**SP1-B53 - Suitability of vegetable oils as pharmaceutical ingredient for lipid core nanocapsules**

Franciele Aline Bruinsmann<sup>1</sup>, Cristina de Garcia Venturini<sup>1</sup>, Adriana Raffin Pohlmann, Silvia Guterres; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-B54 - A kinetic study on thermal degradation in corn straw cellulose**

Maria Inez Graf Miranda<sup>1</sup>, Simone Leal Rosa, Noor Rehman, Vinicius Martins, Sonia M B Nachtigall, Clara I D Bica; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-B55 - Bioadhesive force of hydrogels containing C971P® and C974P® carbomer polymers**

Mariane Hiromi Hirata<sup>1</sup>, Gabriela Marielli da Luz, Hilris Rocha E Silva, Maria Palmira Daflon Gremião; <sup>1</sup>Universidade Estadual Paulista - Araraquara

**SP1-B56 - Obtaining organoclay for use in biodegradable polymer nanocomposites**

Dayanne Diniz de Souza Morais<sup>1</sup>, Renata Barbosa, Keila Machado de Medeiros, Edcleide Maria Araújo, Tomás Jeferson Alves de Mélo; <sup>1</sup>Federal University Of Campina Grande

**SP1-B57 - Bacterial Cellulose/Polycaprolactone "Green" Composites.**

Hernane Silva Barud, Carlos L. P Carone, Rosane Ligabue, Jeane Dullius, Sandra Einloft, Sidney José Lima Ribeiro

**SP1-B58 - Synthesis of polymer-metal nanocomposites**

Josivandro do Nascimento Silva<sup>1</sup>, Jamil Saade, Patrícia Maria de Albuquerque Farias; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-B59 - Controlled desorption of potassium from**



**polysaccharide hydrogels**

Adriel Bortolin<sup>1</sup>, Fauze Ahmad Aouada<sup>2</sup>, Caue Ribeiro de Oliveira, Luiz Caparelli Mattoso; <sup>1</sup>Embrapa-Cnpdia, <sup>2</sup>Instituto de Química de Araraquara-Unesp

**SP1-B60 - X-ray diffraction study on crystallinity degree of chitin treated by two different processes**

Laidson Paes Gomes, Eduardo Mere Del Aguila<sup>1</sup>, Cristina Tristão Andrade<sup>1</sup>, Joab Trajano Silva, Vania M Flosi Paschoalin; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP1-B61 - Edible films based on over-ripe bananas, pectin and chitosan nanoparticles**

Milena Martelli Tosi<sup>1</sup>, Marcia Regina de Moura<sup>2</sup>, Tais Teo de Barros, Odilio Assis; <sup>1</sup>Embrapa-Cnpdia, <sup>2</sup>Instituto de Física de São Carlos

**SP1-B62 - Synthesis and characterization of nanocomposite of cornstarch and titanium dioxide by low field NMR**

Roberto Neto<sup>1</sup>, Leonardo Augusto Moreira, Maria Inês Tavares; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano

**SP1-B63 - In vitro characterization of encapsulation of DNA by chitosan particles**

Juliana Baiense, Nara Oliveira Borges, Laidson Paes Gomes, Eduardo Mere Del Aguila<sup>1</sup>, Cristina Tristão Andrade<sup>1</sup>, Joab Trajano Silva, Vania M Flosi Paschoalin; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP1-B64 - Preparation of nanostructured hydrogels based on montmorillonite, polyacrylamide and methylcellulose: hydrophilic and spectroscopic characterization**

Elaine Inácio Pereira<sup>1</sup>, Caue Ribeiro de Oliveira, Adriel Bortolin<sup>2</sup>, Luiz Caparelli Mattoso, Fauze Ahmad Aouada<sup>3</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Embrapa-Cnpdia, <sup>3</sup>Instituto de Química de Araraquara-Unesp

**SP1-B65 - Comparative study between the compatibilization of PP homopolymer and high impact PP with natural fibers**

Priscila Ferreira Oliveira, Maria de Fátima Vieira Marques<sup>1</sup>; <sup>1</sup>Macromolecules Institute - Federal University Of Rio de Janeiro

Palova Santos Balzer<sup>1</sup>, Alessandra Pereira<sup>2</sup>, Airon Rosa, Maurus Joenk, Leandro Apolinário; <sup>1</sup>Pontifícia Universidade Católica de Minas Gerais, <sup>2</sup>Universidade Federal de Santa Catarina

**SP2-B67 - Replacement Study of Dioctyl Phthalate (DOP) formulation of Stretch Film of Poly(Vinyl Chloride) by Polycaprolactone**

Palova Santos Balzer<sup>1</sup>, Cristiano Dias, Fabio Murilo Garcia, Daniela Becker, Valdir Soldi; <sup>1</sup>Pontifícia Universidade Católica de Minas Gerais

**SP2-B68 - In vitro release and skin permeation studies of retinyl palmitate nanocapsules containing bioactives**

Wandeberg Aranha Diniz, Zaine Teixeira

**SP2-B69 - Thermal and mechanical characterization of starch-cellulose matrices prepared via hot melt extrusion**

Karine Modolon Zepon<sup>1</sup>, Luiz Fernando Vieira, Gean Vitor Salmoria, Luiz Alberto Kanis; <sup>1</sup>Universidade Federal de Santa Catarina

**SP2-B70 - Relevance of the phosphorous and nitrogen in the Polyhydroxyalkanoates structure**

Diana Marcela Vanegas Hernández<sup>1</sup>, Margarita Enid Ramírez Carmona; <sup>1</sup>Universidad Pontificia Bolivariana

**SP2-B71 - Development Of A Porous Plga Conduit For Biomedical Applications**

Mariane Giacomini ScharDOSim, Rúbia Young Sun Zampiva, André Luís Marin Vargas, Roberto Hübler

**SP2-B72 - Characterization of chemically modified biofilms of gelatin/galactomannan**

Nataly Machado Siqueira, Ítalo Ribeiro Barros, Ricardo Vinicius Bof de Oliveira, Rosane Michele Duarte Soares

**SP2-B73 - Tensile properties of poly(glycerol succinate-co-maleate) nanocomposites reinforced with cellulose nanowhiskers**

Eliton Souto Medeiros<sup>1</sup>, William J. Orts, Luiz Caparelli Mattoso; <sup>1</sup>Universidade Federal da Paraíba

**SP2-B74 - A New Product From The Papaya Tree Shafts**

Uine Lima Oliveira, Jorge Fernando Silva de Menezes, José Gilberto da Silva, Regilany P Colares, Rodrigo de Paula, Aluísio Marques da Fonseca, Camila Grossi Vieira

**SP2-B75 - Studies of polymer micro and nanofibers obtained by Solution Blow Spinning**

Eliton Souto Medeiros<sup>1</sup>, Walter W. B. Pessoa, Gabriel Ferraz, Rolmualdo Rodrigues Menezes, Luiz Caparelli Mattoso, Thamyscira H. S. Silva; <sup>1</sup>Universidade Federal da Paraíba

**TUESDAY , SEPTEMBER 27TH  
SESSION SP2**

**14:00 - 16:00 - Exhibition Hall**

**SP2-B66 - Composites of Polyolefins with Wood Powder from Furniture Industry – Mechanical Properties**

**SP2-B76 - Structural analysis of the composites produced by mixture of waste bovine leather with natural rubber**

Elton Aparecido Prado Reis<sup>1</sup>, Renivaldo José Dos Santos, Eduardo Roque Budemberg, Aldo Eloizo Job; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP2-B77 - Natural rubber latex thin films produced by spray using Layer-by-Layer (LbL) technique**

Luiz Fernando Magri Dias Galdino<sup>1</sup>, Christiane Pinto Davi, Mariselma Ferreira; <sup>1</sup>Fundação Universidade Federal do Abc

**SP2-B78 - Gliadin conformation analysis by FTIR**  
Andresa da Costa Ribeiro<sup>1</sup>, Rosane Michele Duarte Soares, Nádyá Pesce da Silveira; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-B79 - Synthesis and characterization of chitosan modified with cetremide for copper adsorption**

Guilherme Leocárdio Lucena, Luzia Maria Castro Honório, Jefferson Maul<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Antônio Gouveia Souza, Afranio Gabriel da Silva, Vandeci Dias Santos; <sup>1</sup>Universidade Federal da Paraíba

**SP2-B80 - Mechanical properties of mixed retrograded starch/pectin films.**

Andréia Bagliotti Meneguim<sup>1</sup>, Beatriz Ferreira Cury, Raul Cesar Evangelista; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP2-B81 - Functional characterization of activity human colostrum phagocytes immunostimulated with melatonin adsorbed on microspheres poly(ethylene glycol) by flow cytometry**

Cristiane de Castro Pernet Hara<sup>1</sup>, Danny Laura Gomes Fagundes<sup>1</sup>, Paulo Celso Leventi Guimarães<sup>1,2</sup>, Silvia Hannah Bilotti Ratto, Rosa Maria Jacinto Volpato, Adenilda Cristina Honório França, Eduardo Luzia França; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças, <sup>2</sup>Instituto de Ciências da Saúde E Biológicas

**SP2-B82 - Thermoplastic Starch/ Polyethylene blends prepared with terpolymers of poly(ethylene-co-vinyl acetate-co-vinyl alcohol)**

Adriane de Medeiros Ferreira, Alessandra Luzia da Róz<sup>1</sup>, Fábio Minoru Yamaji, Antonio José Felix de Carvalho; <sup>1</sup>Universidade Federal de São Carlos, Campus Sorocaba

**SP2-B83 - Poly(lactic acid) films plasticized with oligoesters**

Evelise Fonseca Santos<sup>1</sup>, Raul Quijada, Ricardo

Vinicius Bof de Oliveira, Sonia M B Nachtigall; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-B84 - Biocompatibility of chitosan nanostructured matrix: clinical evaluation of the implant in mice**

Valcinir Aloisio Scalla Vulcani<sup>1</sup>, Vanessa Sobue Franzo, Maria Trindade M Bizarria, Marco Akira D'ávila, Lucia Helena Innocentini Mei; <sup>1</sup>Universidade Federal de Goiás

**SP2-B85 - Fibroblast activity in rats implanted with nanostructures chitosan matrices**

Valcinir Aloisio Scalla Vulcani<sup>1</sup>, Vanessa Sobue Franzo, Maria Trindade M Bizarria, Marco Akira D'ávila, Lucia Helena Innocentini Mei; <sup>1</sup>Universidade Federal de Goiás

**SP2-B86 - Biocomposite Treaty in Surface: Sisal and Polyester**

Jayna Dionisio Santos, Ricardo Alex Dantas Cunha, Renata Santos Felipe, Raimundo Nonato Felipe, Maria Rosimar Sousa

**SP2-B87 - Evaluation of biodegradable polymers as compatibilizers for PP/PA6 blend**

Bruno de Paula Amantes, Maria de Fátima Vieira Marques<sup>1</sup>, Sirpa Vuorinen, Iryna Grafova, Markku Leskela, Andriy Grafov; <sup>1</sup>Macromolecules Institute - Federal University Of Rio de Janeiro

**SP2-B88 - Preparation and aging of starch-based blends compatibilized by organically-modified clay**

Cristina Tristão Andrade<sup>1</sup>, Natália Ferreira Magalhães, Karim Dahmouche<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP2-B89 - Synthesis and Characterization of Nanocomposites for Biomedical Applications: Poly(vinyl alcohol)/Multi-walled carbon nanotubes**  
Herman Sander Mansur<sup>1</sup>, Alexandra Apisiciteli Mansur, Joyce Cruz Santos<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

**SP2-B90 - Synthesis of Phthaloyl Chitosan Labeled with Rhodamine B**

Claudio Ciulik, Leni Campos Akcelrud

**SP2-B91 - Controlled release of Imiquimod from lipid core nanocapsules containing vegetable oil**

Franciele Aline Bruinsmann<sup>1</sup>, Cristina de Garcia Venturini<sup>1</sup>, Renata Platchek Raffin, Adriana Raffin Pohlmann, Silvia Guterres; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-B92 - Effects of sterilization methods in physico-chemical properties on biodegradable nanofiber scaffolds, to be used for tissue engineering**

Daikelly Iglesias Braghirolli, Mariana do Conto Fin, Daniela Steffens, Douglas Gamba, César Petzhold, Patricia Pranke<sup>1</sup>; <sup>1</sup>Federal University Of Rio Grande do Sul

**SP2-B93 - Poly(lactic acid): synthesis with the conventional method and with the microwave irradiation**

Thalita Ferreira Menegassi de Souza<sup>1</sup>, Anderson Orzari Ribeiro<sup>1</sup>; <sup>1</sup>Universidade Federal do ABC

**SP2-B94 - Analysis in vitro of the adhesion capacity and viability of dental pulp stem cells seeded onto biodegradable scaffolds.**

Gerson Arisoly Xavier Acasigua, Lisiane Bernardi, Daikelly Iglesias Braghirolli, Patricia Pranke<sup>1</sup>, Anna Christina Medeiros Fossati; <sup>1</sup>Federal University Of Rio Grande do Sul

**SP2-B95 - morphology and hydrophobicity of blends of pectin with latex *Hancornia speciosa***

Juranez Dantas, Douglas José Correia Gomes<sup>1</sup>, Jackeline Barbosa Brito<sup>1</sup>, Marcelo Freitas Lima, Aline Margarete Furuyama Lima<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-B96 - Characterization of collagen and fibroin microspheres for tissue engineering applications**

Sergio Akinobu Yoshioka<sup>1,2</sup>, Vanessa Camila Montanha, Nelson Ferreria Silva Junior; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Química de São Carlos

**SP2-B97 - Design of medical implants manufactured by injection molding of biodegradable polymers: importance, modeling and measuring of residual stresses**

Luiz Fernando Vieira, Gean Vitor Salmoria, Eduardo Alberto Fancello

**SP2-B98 - Behavior studies of mefenamic acid with pectin**

Renato Bosco Moreira Oliveira<sup>1</sup>, Aline Margarete Furuyama Lima<sup>1</sup>, Rodrigo Pereira, Ailton José Terezo, Bruna Vieira Guimarães, Francisco Xavier de Campos, Adriano Buzutti Siqueira; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-B99 - Preparation and physico-chemical characterization of polymeric nanoparticles containing baicalein.**

Gislane de Jesus Oliveira<sup>1</sup>, Ana Paula Pereira Santos<sup>1</sup>, Zaine Teixeira; <sup>1</sup>Universidade Federal de Sergipe

**SP2-B100 - Polyhydroxybutyrate-co-hydroxyvalerate (PHBV) nanospheres prepared by spontaneous solvent-evaporation method using tetrahydrofuran**

Ana Paula Pereira Santos<sup>1</sup>, Gislane de Jesus Oliveira<sup>1</sup>, Zaine Teixeira; <sup>1</sup>Universidade Federal de Sergipe

**SP2-B101 - Conductive polyaniline/pectin composite: preparation and characterization**

Marcelo F. Lima<sup>1</sup>, Adriana Paula Cardoso<sup>1</sup>, Wilhan Donizete Gonçalves Nunes, Jomar Dias da Silva, Aline Margarete Furuyama Lima<sup>2</sup>, George Barbosa da Silva; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-B102 - Superabsorbent hydrogels based on chitosan and vermiculite clay**

Kamilla Barreto Costa<sup>1</sup>, Flávia de Miranda Leão Leite Costa, Ana Paula Dantas de Lima, Bruno de Castro Amoni, Nágila Maria Pontes Silva Ricardo; <sup>1</sup>Universidade Federal do Ceará

**SP2-B103 - Evaluation of mechanical properties of epoxy resin/ random mat vegetal fibers composites after conditioning**

Andressa Bella Darros<sup>1</sup>, Jane Maria Faulstich Paiva; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP2-B104 - Cellulose Nanocrystal as Reinforcement For Biodegradable Films**

Francieli Borges de Oliveira<sup>1</sup>, Leandro Renato Cardili, Luiz Caparelli Mattoso; <sup>1</sup>Embrapa Instrumentação

**SP2-B105 - Polyurethane biopolymer made of frying oil**

Luiz Gustavo Ferraro, Maria Virginia Gelfuso, Daniel Thomazini

**SP2-B106 - Effect of Reprocessing of PPMA through reactive extrusion on production of polypropylene- sawdust composites**

Ernani Trombetta, Thais Sydenstricker Flores-Sahagun, Kestur G. Satyarayana

**SP2-B107 - Poly(ethylene glycol) (PEG)**

**Microspheres Adsorbed with Cortisol Hormone Present Anti-inflammatory Effect in Colostrum Phagocytes**

Danny Laura Gomes Fagundes<sup>1</sup>, Cristiane de Castro Pernet Hara<sup>1</sup>, Silvia Hannah Bilotti Ratto, Gabriel Triches Nunes, Eduardo Luzia França, Adenilda Cristina Honório França; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-B108 - Human colostrum phagocytes immunostimulated with Poly(ethylene glycol) microspheres adsorbed with cortisol hormone offer protection of intestinal mucosa.**

Danny Laura Gomes Fagundes<sup>1</sup>, Cristiane de Castro Pernet Hara<sup>1</sup>, Paulo Celso Leventi Guimarães<sup>1,2</sup>, João Vítor Silva Ormonde, Eduardo Luzia França,

Adenilda Cristina Honório França; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças, <sup>2</sup>Instituto de Ciências da Saúde E Biológicas

**SP2-B109 - Evaluation of the degradability of poly(lactic acid) under different oil industry conditions**

Jaciene Jesus Freitas Cardoso<sup>1</sup>, Yure Gomes de Carvalho Queirós, Elizabete Fernandes Lucas; <sup>1</sup>Macromolecules Institute - Federal University Of Rio de Janeiro

**SP2-B110 - Poly (Ethylene Glycol) Adsorbed With Glycine Reflect On Microbicidal Activity By Colostrum Phagocytes**

Paulo Celso Leventi Guimarães<sup>1,2</sup>, Cristiane de Castro Pernet Hara<sup>2</sup>, Danny Laura Gomes Fagundes<sup>2</sup>, Silvia Hannah Bilotti Ratto, Adenilda Cristina Honório França, Eduardo Luzia França; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças, <sup>2</sup>Instituto de Ciências da Saúde E Biológicas

**SP2-B111 - A new process for the preparation of nanocomposites of cellulose fiber/microfibrils and thermoplastic starch**

José Eduardo Penteado Zago<sup>1</sup>, Antonio Jose Felix Carvalho; <sup>1</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**SP2-B112 - Thermal, structural and morphological investigation of the castor oil polyurethanedoped with 60%SiO<sub>2</sub>-36%CaO-4% P<sub>2</sub>O<sub>5</sub>:**

**xAg<sub>2</sub>O<sub>e</sub> bioactive glass**

Pollianna Daniella Candelorio, José Renato Jurkevicz Delben<sup>1</sup>, Seila Silva Rojas, Angela Sanches Tardivo Delben, Antonio Carlos Hernandez<sup>2,3</sup>; <sup>1</sup>Universidade Federal de Mato Grosso do Sul, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Instituto de Física de São Carlos

**SP2-B113 - Interactions and Miscibility in Polymer Blends Obtained by Solution Blow Spinning**

Eduardo Aparecido Moraes<sup>1</sup>, Juliano Elvis Oliveira, Eliton Souto Medeiros, Luiz Caparelli Mattoso; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP2-B114 - Synthesis of Microspheres Composites Composed by Crystalline Poly(vinyl alcohol) and Magnetite for Biomedical Applications**

Vinícius Ladeia Semenzim<sup>1</sup>, Aryane Tofanello Tofanello, Glaucia Grazielli Basso, Juliana Bergamasco, Maria Irene Bartolomeu Raposo, Domingo Marcolino Braile, José Geraldo Nery; <sup>1</sup>Universidade Estadual Paulista Campus São José do Rio Preto

**SP2-B115 - High density polyethylene composites reinforced by natural wood fiber for use in household wire accessories**

Sônia Maria Assunção Veroneze<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná

**SP2-B116 - Reactive Extrusion of Thermoplastic Starch: Preparation of Mixed Esters from Anhydride Acetic and C-18 Acids**

Lucíola Lucena de Sousa<sup>1</sup>, Antonio Jose Felix Carvalho; <sup>1</sup>Universidade de São Paulo

**SP2-B117 - Thermoplastics Blends of Starch Modified and Poly (lactic acid) by Reactive Extrusion**

Tamires de Souza Nossa<sup>1</sup>, Antonio Jose Felix Carvalho; <sup>1</sup>Universidade de São Paulo - Materias - Eesc

**SP2-B118 - An electrospun nanofiber carrier for bacterial inoculant.**

Rafael Vargas, Eliane Villamil Bangel, Cláudio Nunes Pereira<sup>1</sup>; <sup>1</sup>Tecnano Pesquisas E Serviços Ltda.

**SP2-B119 - Comparative of mechanical properties of polyester matrix composites reinforced with hybrid system of curauá fiber and waste.**

Thiago Augusto de Sousa Moreira, Jean Silva Rodrigues, Alan Amaral Brandão

**SP2-B120 - Histologic evaluation of highly crystalline poly(vinyl alcohol) microspheres for chemoembolization therapy**

Danilo Antonio Silva, Vinícius Ladeia Semenzim<sup>1</sup>, Glaucia Grazielli Basso, Maria Cecília Rui Luvizotto, Alexandre Lima de Andrade, Domingo Marcolino Braile, José Geraldo Nery; <sup>1</sup>Universidade Estadual Paulista Campus São José do Rio Preto

**SP2-B121 - Development and characterization of multi-wall nanoparticles funcionalized with different molecules**

Márcia Duarte Adorne, Eduardo André Bender, Letícia Marques Colomé, Marcela Cavalcante, Dulcinéia Abdalla, Silvia Guterres, Adriana Raffin Pohlmann

**SP2-B122 - Microhardness of dental composite resin containing zirconia nanostructured**

Viviane Figueiredo de Souza<sup>1</sup>, Angela Sanches Tardivo Delben, José Renato Jurkevicz Delben<sup>1</sup>, Danilo Zanello Guerisoli; <sup>1</sup>Universidade Federal de Mato Grosso do Sul

**SP2-B123 - Effect of nanoclay type on the morphology and thermal stability of biopolymer-clay nanocomposite based on chitosan**

Kirlyane Christinne Vital Santos, Nadie Katyllie Silva Diniz, Carla Ramalho Costa Braga, Marcus Vinícius Lia Fook, Suédina Maria Lima Silva

**SP2-B124 - Hydrogels Derivated of Cellulose Acetate: Synthesis and Thermogravimetric Analyzer.**

Patrícia Allue Dantas<sup>1</sup>, Vagner Roberto Botaro, Leonardo Fernandes Fraceto; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP2-B125 - Shear bond strength to dentin of the dental restorative polymeric system of low shrinkage**

Vitor César Dumont<sup>1</sup>, Rafael Menezes Silva<sup>1</sup>, Cíntia Tereza Pimenta de Araújo, Karine Taís Aguiar Tavano, Adriana Maria Botelho, Maria Helena Santos; <sup>1</sup>Universidade Federal Dos Vales do Jequitinhonha E Mucuri

**SP2-B126 - Biodegradable Films based on PLA/PLGA blends and Organoclay**

Fernanda Abbate Dos Santos, Maria Inês Tavares, Paulo Henrique Machado Cardoso, Luisa de Almeida Ribeiro

**SP2-B127 - Cassava Starch based films Crystallinity**

Helia Bibiana León Molina<sup>1</sup>, Jairo Ernesto Perilla; <sup>1</sup>Escuela Colombiana de Carreras Industriales

**SP2-B128 - Fibers of alginate, chitosan and hybrid alginate/chitosan for medical applications.**

Silgia Aparecida da Costa, Sirlene Maria da Costa, Giovanna Rodrigues Melin, Paula Rindeika Acs de Oliveira, Jordana Rodrigues de Castro, Júlia Baruque Ramos, Silgia Aparecida da Costa

**SP2-B129 - Characterization of natural fibers applied in clean up of oily waters**

Roberta Paye Bara<sup>1</sup>, Thais Sydenstricker Flores-Sahagun, Teoli Rodrigues Annunciado; <sup>1</sup>Universidade Federal do Paraná

**SP2-B130 - Polypropylene/clay nanocomposites with biodegradable polymers as compatibilizers**

Maria de Fátima Vieira Marques<sup>1</sup>, Rafael Silva Araújo<sup>2</sup>, Andriy Grafov, Vinícius Oliveira Aguiar, Iryna Grafova; <sup>1</sup>Macromolecules Institute - Federal University Of Rio de Janeiro, <sup>2</sup>Universidade Federal do Rio de Janeiro

## SYMPOSIUM C

### Electronic Materials

#### Chairs

Cristiano Krug (Instituto de Física – UFRGS)  
Cylon Gonçalves da Silva (CEITEC S.A.)  
Antônio L. P. Rotondaro (Centro de Tecnologia)  
Renato Archer and Celso Pinto de Melo  
(Departamento de Física – UFPE)

## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY, SEPTEMBER 26TH

#### SESSION C1

09:30 - 10:30 - Room 16

09:30 - C1.1\*

**Novel high-k materials and epitaxial silicides for high mobility strained Si(Ge) MOSFETs**

Dan Mihai Buca, Wenjie Yu, Bo Zhang, Bernhard Holländer, Jürgen Schubert, Qing-Tai Zhao, Siegfried Mantl

10:00 - C1.2

**Thermal stability of HfO<sub>2</sub> and GeO<sub>2</sub> gate stacks deposited on Ge(001) and Si(001)**

Gabriel Vieira Soares, Cristiano Krug, Israel Jacobi Baumvol, Leonardo Miotti, Karen Paz Bastos, Gerry Lucovsky, Claudio Radtke

10:15 - C1.3

**Physico-chemical properties of Al<sub>2</sub>O<sub>3</sub>/Ge structures**

Nicolau Molina Bom<sup>1</sup>, Mateus Dalponte, Cristiano Krug, Gabriel Vieira Soares, Claudio Radtke; <sup>1</sup>Universidade Federal do Rio Grande do Sul

#### SESSION C2

11:00 - 12:30 - Room 16

11:00 - C2.1\*

**Novel Materials and Devices for Flexible Electronics**

Manuel A Quevedo-Lopez

11:30 - C2.2

**Nanoimprint of AZ1518 photoresist and microcontact printing of PEDOT electrodes for low cost electronics**

Marco Roberto Cavallari, Vinicius Ramos Zanchin,

Leandro Augusto Silveira Artese, Marcelo de Assunção Pereira da Silva<sup>1</sup>, Roberto Mendonça Faria<sup>1</sup>, Fernando Josepetti Fonseca<sup>2</sup>, Adnei Melges Andrade; <sup>1</sup>Instituto de Física de São Carlos, <sup>2</sup>Escola Politécnica da Universidade de São Paulo

11:45 - **C2.3**

**Energy storage elements based on hybrid organic/inorganic nanomembranes**

Carlos Cesar Bof Bufon<sup>1</sup>, Jose David Cojal Gonzales, Dominic J. Thurmer, Martin Bauer, Daniel Grimm, Oliver G. Schmidt; <sup>1</sup>Ifw Dresden

12:00 - **C2.4**

**Structure of and strain in rolled-up nano-membranes**

Christoph Deneke<sup>1</sup>, Angelo Malachias, Suwit Kiravittaya, Oliver G. Schmidt; <sup>1</sup>Laboratório Nacional de Luz Síncrotron

12:15 - **C2.5**

**3-dimensional hybrid organic/inorganic heterojunctions based on rolled-up nanomembranes**

Carlos Cesar Bof Bufon<sup>1</sup>, Juan Arias, Dominic J. Thurmer, Christoph Deneke<sup>2</sup>, Oliver G. Schmidt; <sup>1</sup>Ifw Dresden, <sup>2</sup>Laboratório Nacional de Luz Síncrotron

## TUESDAY, SEPTEMBER 27TH

### SESSION C4

09:30 - 10:30 - Room 16

09:30 - **C4.1\***

**Passivation of silicon surface for high efficiency solar cells**

Joel Pereira de Souza, Harold J. Hovel, Eric Marshall

10:00 - **C4.2**

**Optical microscopy and micro-manipulation methods to build Carbon Nanotube electrical nano-devices**

Benjamin Fragneaud, Victor Carozo, Braulio Soares Archanjo<sup>1</sup>, Carlos Alberto Achete<sup>2</sup>; <sup>1</sup>Inmetro, <sup>2</sup>Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

10:15 - **C4.3**

**Mid-IR laser oscillation in Cr<sup>2+</sup>:ZnSe planar waveguide structures fabricated by pulsed laser deposition**

Renato P. Camata, Jonathan E. Williams, Dmitry V. Martyshkin, Igor S. Moskalev, Sergey B. Mirov, Vladimir V. Fedorov

### SESSION C5

11:00 - 12:30 - Room 16

11:00 - **C5.1\***

**Integrating hybrid Memristor-CMOS circuits**

Gilberto Medeiros-Ribeiro

11:30 - **C5.2**

**An Amorphous Conterpart of c-SiC deposited by PECVD**

Rogério Junqueira Prado<sup>1</sup>, Jones Willian Soares de Queiróz, Evandro França, Marcelo Nelson Paez Carreño, Marcia Carvalho de Abreu Fantini<sup>2</sup>, Inês Pereyra; <sup>1</sup>Universidade Federal de Mato Grosso, <sup>2</sup>Instituto de Física da Universidade de São Paulo

11:45 - **C5.3**

**Investigating the decay of photoinduced conductivity of SnO<sub>2</sub> thin films**

Luis Vicente de Andrade Scalvi<sup>1</sup>, Emeson Aparecido Floriano, Leandro Piaggi Ravaro, Evandro Augusto de Moraes; <sup>1</sup>Universidade Estadual Paulista "júlio de Mesquita Filho"

12:00 - **C5.4**

**Density functional theory study on the electronic properties of defects in SnO<sub>2</sub> grain**

Daniel Lohmann<sup>1</sup>, Carlo Requião

Cunha; <sup>1</sup>Universidade Federal de Santa Catarina

12:15 - **C5.5**

**Evaluation of Semiconductor Thin Films of Doped Tin Oxide as Ion Detector**

Raphael Aparecido Sanches Nascimento<sup>1</sup>, Marcelo Mulato; <sup>1</sup>Universidade de São Paulo

## POSTER PRESENTATIONS

### MONDAY, SEPTEMBER 26TH

#### SESSION SP1

16:00 - 18:00 - Exhibition Hall

**SP1-C1 - Investigation of electrical and optical properties of semiconductor compound BiVO<sub>4</sub>**

Marcelo Rodrigues Silva<sup>1</sup>, Leandro Piaggi Ravaro, Aluisio Andrade, Luiz Henrique Dall'antonia, Luis Vicente de Andrade Scalvi<sup>2</sup>, Lígia Oliveira Ruggiero<sup>3</sup>; <sup>1</sup>Universidade Estadual

Paulista, <sup>2</sup>Universidade Estadual Paulista "júlio de Mesquita Filho", <sup>3</sup>Universidade Estadual Paulista "júlio de Mesquita Filho"

**SP1-C2 - Effects of oxidation temperature on thermal oxide layer and interface of n- and p-type SiO<sub>2</sub>/4H-SiC structures**

Rodrigo Palmieri<sup>1</sup>, Cláudio Radtke, Henri Ivanov

Boudinov, Eronides Felisberto da Silva

Jr.; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-C3 - Evidence of EDMR signal dependence with spin-lattice relaxation processes in doped Alq3 based OLEDs**

Augusto Batagin Neto<sup>1</sup>, Jorge A. Gómez, Fernando A. Castro, Frank Nüesch, Libero Zuppiroli, Carlos F. O. Graeff; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP1-C4 - Electrically Detected Magnetic Resonance spectroscopy as a powerful tool to study Spin Dependent Transport phenomena.**

Oswaldo Nunes Neto<sup>1</sup>, Carlos F. O. Graeff; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho - Posmat

**SP1-C5 - Molecular modeling of a conjugated polymer/fullerene photovoltaic complex**

Cleber Fabiano Marchiori, Marlus Koehler

**SP1-C6 - Trends on electronic and chemical properties of rare-earth lanthanoids in gallium nitride and zinc oxide.**

Glaura Caroenza Azevedo de Oliveira, Wanda Valle Marcondes Machado, Joao Francisco Justo Filho, Lucy V. Credidio Assali<sup>1</sup>; <sup>1</sup>Instituto de Física da Universidade de São Paulo

**SP1-C7 - Theoretical study of the oxygen interaction with BC<sub>2</sub>N nanotubes**

Caroline Jaskulski Rupp<sup>1</sup>, Rogério José Baierle; <sup>1</sup>Universidade Federal de Santa Maria

**SP1-C8 - Interface Formation of Nanostructured Heterojunction SnO<sub>2</sub>:Eu/GaAs and PhotoInduced Electronic Transport**

Luis Vicente de Andrade Scalvi<sup>1</sup>, Cristina F. Bueno<sup>2</sup>, Tatiane F. Pineiz; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Faculdade de Ciências de Bauru - Unesp

**SP1-C9 - Growth and characterization of TiO<sub>2</sub> thin films prepared by DC reactive magnetron sputter at room temperature**

Jair Fernandes de Souza, Milena A. Moreira, Ioshiaki Doi, José Alexandre Diniz, Peter Jürgen Tatsch

**SP1-C10 - Physcial and Chemical characterization of PANI/ZrO<sub>2</sub> composite**

Rafael Marinho Bandeira<sup>1</sup>, Ángel Alberto Hidalgo, José Milton Elias de Matos<sup>1</sup>, Helder Nunes da Cunha<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí

**SP1-C11 - Polyaniline and poly(acrylonitrile-butadiene-styrene) blends for ESD applications**

Fernando Henrique Cristovan<sup>1</sup>, Ernesto Chaves Pereira; <sup>1</sup>Universidade Federal de São Paulo

**SP1-C12 - Development of sensor chamber to detect ethanol vapor in SnO<sub>2</sub> thin films**

Tania Regina Giraldi<sup>1</sup>, Kleper de Oliveira Rocha<sup>2</sup>, Christhiano Peres, Sonia Maria Zanetti<sup>2</sup>, Adenilson José Chiquito, Caue Ribeiro de Oliveira; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Sencer Sensores Cerâmicos

**SP1-C13 - Electromagnetic performance of a composite material coated with microwave absorbent paint**

Luiza de Castro Folgueras<sup>1</sup>, Mauro Angelo Alves<sup>2</sup>, Mirabel Cerqueira Rezende; <sup>1</sup>Departamento de Ciência E Tecnologia Aeroespacial/instituto de Aeronáutica E Espaço/divisão de Materiais, <sup>2</sup>Instituto de Aeronautica E Espaco

**SP1-C14 - Periodic diameter modulation and defect formation in InP Nanowire growth: catalyst instability**

Douglas Soares Oliveira<sup>1</sup>, Thalita Chiamonte, Luiz Henrique Galvão Tizei, Daniel Mario Ugarte, Monica Alonso Cotta; <sup>1</sup>Universidade Estadual de Campinas

**SP1-C15 - Light induced Electron Spin Resonance studies in FIRpic-TCNB**

Andrei Paulo de Assis<sup>1</sup>, Augusto Batagin Neto<sup>2</sup>, Liang Yan, Ming Shao, Bin Hu, Carlos F. O. Graeff; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho - Posmat, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP1-C16 - Investigation of Interface Formation of SnO<sub>2</sub>:Ce<sup>3+</sup>/GaAs thin films heterojunction**

Luis Vicente de Andrade Scalvi<sup>1</sup>, Diego H.O. Machado<sup>2</sup>, Tatiane F. Pineiz, Lígia Oliveira Ruggiero<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Faculdade de Ciências de Bauru - Unesp, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP1-C17 - The influence of substrate conditions on Raman measurements of polycrystalline GaN prepared by Reactive Magnetron Sputtering**

Guilherme Ferreira<sup>1</sup>, Ziani de Souza Schiaber, Douglas Marcel Gonçalves Leite, José Humberto Dias da Silva, José Brás Barreto de Oliveira<sup>2</sup>, Américo Sheitiro Tabata; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus de Bauru, <sup>2</sup>Faculdade de Ciências de Bauru - Unesp

**SP1-C18 - Preparation and characterization of electrically conductive polymer composites based on Polypropylene.**

Nilda Martins<sup>1</sup>, Guilherme Mariz de Oliveira Barra; <sup>1</sup>Universidade Federal de Santa Catarina

**SP1-C19 - Probing Monoatomic Layers In Nanostructured Devices With Compact X-Ray Sources**

Gaspar Darin<sup>1</sup>, Sergio Luiz Morelhaio; <sup>1</sup>Instituto de Física

**SP1-C20 - Site-Selective Luminescence Spectroscopy of Eu<sup>3+</sup> in a Structure Type Inverse Spinel**

Andreza Cristina Souza Silva<sup>1</sup>, Josiane Aparecida Sobrinho<sup>2</sup>, Marcos Augusto de Lima Nobre, Marco Aurélio Cebim, Marian Rosaly Davolos, Ana Maria Pires<sup>3</sup>; <sup>1</sup>Instituto de Química - Universidade Estadual Paulista, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>3</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP1-C21 - Deposition of aluminum-doped zinc oxide film by electron beam evaporation for solar cell applications**

Vivienne Falcao, Diego Oliveira Miranda, Thiago Daniel Oliveira Moura, Milena Emerenciano Luz Sabino, Antonia Sonia Alves Cardoso Diniz, Jose Roberto Branco

**SP1-C22 - Transparent Conductive Oxides of SnO<sub>2</sub>:F**

Marcos de Castro Carvalho<sup>1</sup>, Jéssica Zaroubin, Willian Alayo, Elisa Baggio Saitovitch; <sup>1</sup>Brazilian Center For Physical Research

**SP1-C23 - Influence of deposition rate on the optical properties of Si<sub>1-x</sub>Ge<sub>x</sub> thin films obtained by LPCVD**

Melissa Mederos Vidal<sup>1</sup>, Segundo Nilo Mestanza Munoz<sup>1</sup>, Ioshiaki Doi, José Alexandre Diniz; <sup>1</sup>Universidade Federal do ABC

**SP1-C24 - Investigations of microcantilever surface functionalization as potential applications to nanobiosensors**

Alexandra Manzoli<sup>1</sup>, Clarice Steffens<sup>1</sup>, Juliano Elvis Oliveira, Paulo Sergio de Paula Herrmann<sup>1</sup>; <sup>1</sup>Embrapa Instrumentação

**SP1-C25 - Electrical characterization of bulk hetero-junction P3HT/N2200 active layer**

Alan Victor Andrade<sup>1</sup>, Paulo Henrique Moura, Cristhyano Bruzzi, Artemis Marti Ceschin; <sup>1</sup>Universidade de Brasília

**SP1-C26 - Backbone induced semiconducting behavior in DNA wires**

Carlos Jose Paez, Peter Alexander Schulz

**SP1-C27 - Thick film laser sintering: An evidence for two-step process**

Eduardo Antonelli, Marcello Barsi Andreetta<sup>1</sup>, Antonio Carlos Hernandez<sup>2</sup>; <sup>1</sup>Instituto de Física de São

Carlos, <sup>2</sup>Universidade de São Paulo

**SP1-C28 - Space charge limited current in bipolar polymer/C<sub>60</sub> devices with a spatial distribution of traps**

Deize Corradi Grodniski<sup>1</sup>, Natasha A. D. Yamamoto, Lucimara Stolz Roman, Marcos Gomes Eleutério da Luz, Marlus Koehler; <sup>1</sup>Universidade Federal do Paraná

**SP1-C29 - Absolute photoluminescence quantum yield of P3HT measured by Photothermal Spectroscopy**

Renato Antonio Cruz<sup>1</sup>, Tomaz Catunda, Osvaldo Novais Oliveira Jr, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos, <sup>2</sup>Instituto de Física de São Carlos

**SP1-C30 - Spectroscopic Ellipsometry Study of Manganese Doped Cadmium Telluride Thin Films**

Thiago Henrique Rodrigues da Cunha<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

**SP1-C31 - Preparation and electrical properties of non-Pb piezoelectric ceramic system**

**Ba(Ti<sub>0.75</sub>Zr<sub>0.15</sub>)O<sub>3</sub>-(Ba<sub>0.77</sub>Ca<sub>0.23</sub>)TiO<sub>3</sub>**  
Eduardo Antonelli, Ludmilla Barros Nobre, Antonio Carlos Hernandez<sup>1,2</sup>; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Física de São Carlos

**SP1-C32 - Analysis of Anomalous Evolution of the Specific Surface Area of Niobate Nanopowder: an Electric Resistance Measurement Approach**

Felipe Silva Bellucci, Leandra Oliveira Salmazo, Douglas Gouvea, Marcos Augusto de Lima Nobre

**SP1-C33 - Determination of Charge-carrier Mobility in Organic Metal-Insulator-Semiconductor Capacitors comprising Conjugated Polymers and Ionic Conducting Polymers Blends.**

Clayton José Pereira<sup>1</sup>, Lucas Fugikawa Santos, Giovanni Gozzi, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Instituto de Biociências, Letras E Ciências Exatas., <sup>2</sup>Instituto de Física de São Carlos

**SP1-C34 - Synthesis and Characterization of CdSe-CdS core-shell Colloidal Nanostructures**

Herman Sander Mansur<sup>1</sup>, Alexandra Apisicelli Mansur, Fábio Pereira Ramanery; <sup>1</sup>Universidade Federal de Minas Gerais

**SP1-C35 - SnO<sub>2</sub> based ceramics with high density and low electrical resistivity**

Natalia Jacomaci<sup>1</sup>, Gisane Gasparotto<sup>2,3</sup>, Maria Aparecida Zaghete<sup>4</sup>, Miguel Ruiz, Ederson Carlos de Aguiar, José Arana Varela<sup>5</sup>, Leinig Antonio Perazolli; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Universidade Estadual Paulista - Araraquara, <sup>3</sup>Instituto de



Química, <sup>4</sup>Instituto de Química de Araraquara-  
Unesp, <sup>5</sup>Sociedade Brasileira de Pesquisa Em  
Materiais - Sbpmat

**SP1-C36 - Synthesis and characterization of strontium titanate nano powders obtained by sol-precipitation and hydrothermal method**

Tina Setinc<sup>1</sup>, Matjaz Spreitzer, Danilo Suvorov; <sup>1</sup>Jozef Stefan Institute

**SP1-C37 - Growth and Characterization of Silicon Oxide Nanowires via a Solid-Liquid-Solid Route**

José Joaquim Melo<sup>1</sup>, Rene Chagas da Silva, José Pedro Mansueto Serbena<sup>2</sup>, Jose Javier Saez Acuña, Andre Avelino Pasa; <sup>1</sup>Instituto Federal do Maranhão, <sup>2</sup>Universidade Tecnológica Federal do Paraná

**SP1-C38 - Electronic properties of polypyrrole-bacterial cellulose conducting membranes**

Jonathan Faraco França<sup>1</sup>, Daliana Muller<sup>1</sup>, Guilherme Mariz de Oliveira Barra, Carlos Renato Rambo<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP1-C39 - Field Effect Sensors for Biochemical Applications**

Jessica Colnaghi Fernandes<sup>1</sup>, Joana Paula Mota Pinto, Marcelo Mulato; <sup>1</sup>Ffclrp - Universidade de São Paulo

**SP1-C40 - Synthesis and electrical properties of PEDOT-Bacterial Cellulose conducting membranes**

Daliana Muller<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>, Luismar Marques Porto, Guilherme Mariz de Oliveira Barra; <sup>1</sup>Universidade Federal de Santa Catarina

**SP1-C41 - Development of a organic pressure sensor based on KDP/PEDOT:PSS mixture**

Hesddras Franco Gomes<sup>1</sup>, Artemis Marti Ceschin; <sup>1</sup>Universidade de Brasília

**SP1-C42 - Pressure flexible device based in XNBR/PANi blend**

Taís Moreira<sup>1</sup>, Roberto Onmori; <sup>1</sup>Polytechnic School At Universidade de São Paulo (Usp)

**SP1-C43 - Sintering and microstructure studies of ZrO<sub>2</sub>-8Y<sub>2</sub>O<sub>3</sub>/Co<sub>3</sub>O<sub>4</sub> ceramics**

João Paulo Freitas Grilo, Paulo Pereira Neto, Grazielle Lopes Souza, Daniel Araujo de Macedo, Igor Jefferson Araújo<sup>1</sup>, Carlos Alberto Paskocimas, Rubens Maribondo do Nascimento; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-C44 - Optimization and Characterization of the Etching Process for FinFET Transistors by Reactive Ion Etching Technique**

Mariana Pojar<sup>1</sup>, Antonio Carlos Seabra, João Antonio Martino; <sup>1</sup>Polytechnic School At Universidade de São

Paulo (Usp)

**SP1-C45 - Optical studies of InAs self-assembled quantum dots confined in InGaAs quantum wells**

Katielly Tavares Santos<sup>1</sup>, Matheus Correa Oliveira<sup>1</sup>, Américo Sheitiro Tabata, Mark Hopkinson, José Brás Barreto de Oliveira<sup>1</sup>; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp

**SP1-C46 - Study of carrier dynamics in self-assembled quantum dots embedded in quantum well systems**

Matheus Correa Oliveira<sup>1</sup>, Katielly Tavares Santos<sup>1</sup>, Américo Sheitiro Tabata, Mark Hopkinson, José Brás Barreto de Oliveira<sup>1</sup>; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp

**SP1-C47 - Organic Photovoltaic Devices: ZnO instead PDOT/PSS**

Elvo Calixto Burini Junior, Gerson Santos, Vinicius Ramos Zanchin, Telma Nagano de Moura, Emerson Roberto Santos, Fernando Josepetti Fonseca<sup>1</sup>, Adnei Melges Andrade; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP1-C48 - Organic semiconductor CuPc thin film deposited on glass substrate in open system**

Victor Ciro Solano Reynoso<sup>1</sup>, Oswaldo Morales Morales<sup>2</sup>, Hermes Adolfo Aquino, Cláudio Luiz Carvalho, Ednilton Morais Cavalcante; <sup>1</sup>Faculdade de Engenharia - Campus de Ilha Solteira, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira

**SP1-C49 - Electrical behavior and microstructural analysis of varistors prepared with nanostructured ZnO powder**

Felipe Antonio Lucca Sánchez<sup>1</sup>, Diego Pereira Tarragó<sup>1</sup>, Vânia Caldas de Sousa<sup>1</sup>, José Ramon Jurado Egea, Carlos Pérez Bergmann; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-C50 - Stability and electronic properties of Cd and Zn doped InAs nanowires**

Cláudia Lange Dos Santos<sup>1,2</sup>, Paulo Cesar Piquini, Tomé Mauro Schmidt; <sup>1</sup>Universidade Federal de Santa Maria, <sup>2</sup>Centro Universitário Franciscano

**SP1-C51 - Synthesis and characterization of electronics ceramics LaMO<sub>4</sub> (M = Nb and Ta)**

Kisla Prislén Siqueira<sup>1</sup>, Anderson Dias; <sup>1</sup>Universidade Federal de Ouro Preto

## SYMPOSIUM D

### Surface Engineering: fabrication, characterization, properties and applications of protective coatings and modified surfaces

#### Chairs

Fernando Lázaro Freire Junior (PUC-Rio)  
Carlos Alejandro Figueroa (Universidade de Caxias do Sul)

## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY, SEPTEMBER 26TH

#### SESSION D1

09:30 - 10:30 - Room 03

09:30 - **D1.1\***

**Recent advances on MEIS (Medium-Energy Ion Scattering) for near surface analysis**

Pedro Luis Grande<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

10:00 - **D1.2**

**Estimative of impregnation deepness of SnO<sub>2</sub> films on glass surface**

Thiago Sequinel<sup>1</sup>, Evaldo Toniolo Kubaski, Samara Schmidt<sup>2</sup>, Graciela Aparecida Dos Santos Silva, Renata Martins Silva, Sergio Mazurek Tebcherani, José Arana Varela<sup>3</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Universidade Estadual de Ponta Grossa, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

10:15 - **D1.3**

**Surface Functionalization of PDMS for Microfluidics Application**

Leandro de Bispo Carneiro<sup>1</sup>, Jacqueline Ferreira, Emerson Marcelo Giroto; <sup>1</sup>Instituto de Química Unesp

#### SESSION D2

11:00 - 12:30 - Room 03

11:00 - **D2.1**

**Study of semispherical cathodic cage in active screen plasma nitriding**

Luiz Francisco Rodrigues Venturini<sup>1</sup>, Inácio da

Fontoura Limberger, Cristiane de Souza Javorsky, Flávia Belló Artuso<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Maria

11:15 - **D2.2**

**The Study Of The Effect Of Plasma Nitriding And Carbonitriding On The Creep Resistance Of Ti-6Al-4V Alloy.**

Cátia Gisele Pinto, Miguel Justino Ribeiro Barboza, Verônica Oliveira, Mariane Silva, Paulo Atsushi Suzuki, João Paulo Machado, Francisco Piorino Neto

11:30 - **D2.3**

**Influence of previous heat treatment on the AISI 420 steel low temperature nitriding kinetics**

Thiago Fernandes Amaral, Fernando Irto Zanetti, Cristiano José Scheuer, Silvio Francisco Brunatto, Rodrigo Perito Cardoso<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná

11:45 - **D2.4**

**Hydrogen Embrittlement in Nitrided SAF2101 Duplex Stainless Steel**

Angela Maria Cordeiro de Oliveira<sup>1</sup>, Carlos Mauricio Lepiensi, Carlos Eugenio Foerster<sup>2</sup>, Neide Kazue Kuromoto; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Universidade Estadual de Ponta Grossa

12:00 - **D2.5**

**Corrosion behavior of plasma nitrided and post-oxidised ferrous alloys**

Carlos Alejandro Figueroa, Ângela Elisa Crespi<sup>1</sup>, Fernando G. Echeverrigaray, Eliena J. Birriel, Cláudia E. B. Marino, Santiago C. Gallo, Israel Jacobi Baumvol; <sup>1</sup>Universidade de Caxias do Sul

12:15 - **D2.6**

**Characterization and assessment of mechanical properties and wear of Hadfield steel and nodular cast iron.**

Fabício Xavier Faustino<sup>1</sup>, Jose Rubens Gonçalves Carneiro, Natália Cristina Barbosa de Matos, Jose Roberto Branco; <sup>1</sup>Fundação Centro Tecnológico de Minas Gerais

#### SESSION D3

15:00 - 16:00 - Room 03

15:00 - **D3.1**

**Characterization of TiZrV metallic films to be used in ultra-high-vacuum**

Marcelo Juni Ferreira<sup>1</sup>, Rafael Molena Seraphim, Antonio J. Ramirez<sup>2</sup>, Manfredo Harri Tabacniks, Pedro Augusto de Paula Nascente<sup>3</sup>; <sup>1</sup>Brookhaven National Laboratory, <sup>2</sup>Brazilian Nanotechnology National Laboratory, <sup>3</sup>Universidade Federal de São Carlos

**15:15 - D3.2**

**Nanostructures characterization using the MEIS technique**

Maurício Sortica, Pedro Luis Grande<sup>1</sup>, Cláudio Radtke; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**15:30 - D3.3**

**Thermal redistribution and solid state reactions in Pb and Se sequentially implanted**

**SiO<sub>2</sub>/Si/SiO<sub>2</sub> heterostructures**

Zacarias Eduardo Fabrim<sup>1</sup>, F. Kremer, F. P. Luce, Dario Ferreira Sanchez, Paulo F. P.

Fichtner<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**15:45 - D3.4**

**Deposition and Characterization of HfO<sub>x</sub> Thin films Deposited by PVD**

André Luís Marin Vargas, Fabiana Ribeiro de Araújo, Roberto Hübler

**TUESDAY, SEPTEMBER 27TH**

**SESSION D4**

**09:30 - 10:30 - Room 03**

**09:30 - D4.1\***

**Surface nanoscience with atmospheric pressure plasmas**

Thierry Belmonte<sup>1</sup>, Thomas Gries, Gérard Henrion<sup>1</sup>; <sup>1</sup>Institut Jean Lamour, Ecole Des Mines de Nancy, Cnrs, Umr7198

**10:00 - D4.2**

**Properties of ceramic coatings produced by Plasma Electrolytic Oxidation of aluminum alloy**

Nilson Cristino Cruz, César A Antonio, Rita C. C. Rangel, Elidiane Cipriano Rangel

**10:15 - D4.3**

**Carbon fiber surface modification by dielectric barrier discharge (DBD) at near atmospheric pressure using different gases**

Jossano Saldanha Marcuzzo<sup>1</sup>, Liana Alvares Rodrigues, Choyu Otani, Heitor Aguiar Polidoro, Satika Otani; <sup>1</sup>Instituto Tecnológico de Aeronáutica

**SESSION D5**

**11:00 - 12:30 - Room 03**

**11:00 - D5.1**

**Large-Area Nanocrystalline Diamond Film deposition on silicon substrate**

Kenya Aparecida Alves<sup>1</sup>, João Roberto Moro, Evaldo José Corat, Raonei Alves Campos, Vladimir José Trava-Airoldi; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais

**11:15 - D5.2**

**Tribology of rubber composites coated with Diamond-Like Carbon films.**

Juan Lucas Nachez, Dante Ferreira Franceschini, Fagner Marçal Andrade

**11:30 - D5.3**

**High resolution mechanical characterization of DLC coatings**

Thomas Chudoba<sup>1</sup>; <sup>1</sup>Advanced Surface Mechanics Gmbh

**11:45 - D5.4**

**Diamond-like carbon thin films with improved properties produced by a magnetron sputtering device**

Adão Felipe Oliveira Skonieski<sup>1,2,3</sup>, Alexandre da Silva Rocha, Helge Decho, Thomas Hirsch, Heinz-Rolf Stock; <sup>1</sup>Federal University Of Rio Grande do Sul, <sup>2</sup>Institut Für Werkstofftechnik, <sup>3</sup>Programa de Pós-Graduação Em Engenharia de Minas Metalúrgica E de Materiais

**12:00 - D5.5**

**The influence of microwave post-discharge plasmas surface treatment on carbon fiber mechanical properties**

Mauro Santos Oliveira Jr.<sup>1</sup>, Lúcia Vieira Santos, Jossano Saldanha Marcuzzo<sup>1</sup>, Choyu Otani, Marcos Massi, Argemiro Soares da Silva Sobrinho; <sup>1</sup>Instituto Tecnológico de Aeronáutica

**12:15 - D5.6**

**Development of catalytic membrane reactor with Pt/carbon hollow fiber for hydrogen generation**

Francisco Batista Dos Santos Segundo, Joel Santana do Nascimento<sup>1</sup>, Cristiano Piacsek Borges, Vera Maria Martins Salim; <sup>1</sup>Universidade Federal do Rio de Janeiro

**WEDNESDAY, SEPTEMBER 28TH**

**SESSION D6**

**09:30 - 10:30 - Room 03**

**09:30 - D6.1**

**Friction behavior of different systems at the nanoscale**

Carlos Alejandro Figueroa, Vânia Sonda, Caroline Luvison<sup>1</sup>, Marcelo Maia da Costa, Eduardo Kirinus Tentardini<sup>2</sup>, Maria Cristina Farias, Israel Jacobi Baumvol; <sup>1</sup>Universidade de Caxias do Sul, <sup>2</sup>Universidade Federal de Sergipe

**09:45 - D6.2**

**Multilayered thin films analysis by minimization of deformation energy**

Julio Miranda Pureza<sup>1</sup>, Monica Mesquita Lacerda,

Grazielle Bortolini; <sup>1</sup>Universidade do Estado de Santa Catarina

**10:15 - D6.3**

**Characterization of hydroxyapatite nanoparticles with surface modified by stearic acid.**

Thiago Augustus Remacre Munareto Lima, Mario Ernesto Giroldo Valerio, Alyne Dantas Lima, Nataly Silva Brito, Rodrigo Mendonça Bispo, Rogéria Souza Nunes

**10:30 - D6.4**

**Apatite Coating On The Uhmwpe Surface: Evaluation Of The Influence Of Surface Modification By Treatment With H<sub>2</sub>O<sub>2</sub> Solution On Its Mechanical Properties And Ability To Form An Apatite Coating**

Anahi Herrera Aparecida, Marcus Vinícius Lia Fook, Antonio Carlos Guastaldi

### SESSION D7

**11:00 - 12:30 - Room 03**

**11:00 - D7.1**

**Producing crystalline bioceramic thin coatings, with pulsed lasers and dual sputtering at room temperature.**

Fabrcio Frizzera Borghi<sup>1</sup>, Elvis Lopez Meza, Ricardo Magnus Osório Galvão, Alexandre Malta Rossi, Alexandre Mello de Paula Silva; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**11:15 - D7.2**

**Preparation and characterization of calcium-phosphorus surface coatings on commercially pure titanium**

Bruno Ramos Chrcanovic<sup>1</sup>, Nathalia Lorryne Costa Leão, Maximiliano Delany Martins; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**11:30 - D7.3**

**Coulometry and Voltammetry of Ultrasmall Colloids: Introduction to a new Field**

Francisco Augusto Tourinho<sup>1</sup>, Epitacio Pinto Marinho, Cleber Lopes Filomeno<sup>1</sup>, Tais Augusto Pitta Garcia Cota, Jerome Depeyrot; <sup>1</sup>Universidade de Brasília

**11:45 - D7.4**

**Ultrasonic Production Of Nano-Size Dispersions And Emulsions**

Kathrin Hielscher

**12:00 - D7.5**

**Polyvinyl butyral (PVB) from laminated-glass waste forencapsulating photonic devices**

Diana Raquel Siqueira da Silva<sup>1</sup>, Petrus D'amorim Santa-Cruz; <sup>1</sup>Universidade Federal de Pernambuco

**12:15 - D7.6**

**Comparsion Of Colagen Coated Phbv Nanofiber By Chemical And Phsical Methods**

Esmacil Biazar<sup>1</sup>, Saeed Heidari K, Khalil Pourshamsian; <sup>1</sup>Islamic Azad University- Tonekabon Branch

### SESSION D8

**15:00 - 16:00 - Room 03**

**15:00 - D8.1**

**Pitting Corrosion in Supermartensitic Stainless Steels Welded using the Electrochemical Cell-Pen**

Cesar Augusto Duarte Rodrigues<sup>1</sup>, Germano Tremiliosi-Filho, Josias Falararo Pagotto, Artur Jesus Motheo; <sup>1</sup>Instituto de Química de São Carlos

**15:15 - D8.2**

**Pack aluminization of a commercial nickel Superalloy**

Ana Sofia Clímaco Monteiro D'oliveira, Rafaela Lopes da Silva<sup>1,2</sup>, Edson H. Takano; <sup>1</sup>Universidade Federal do Paraná, <sup>2</sup>Instituto de Tecnologia Para O Desenvolvimento

**15:30 - D8.3**

**A review on the formation of nanostructured alumina by Al ultra-thin film anodization**

Adriano Friedrich Feil<sup>1</sup>, Pedro Migowski, Livio Amaral, Sergio Ribeiro Teixeira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**15:45 - D8.4**

**Effect of some process parameters on the resulting characteristics of oxide layers grown by the plasma electrolytic process**

Gérard Henrion<sup>1</sup>, Amer Melhem, Julien Martin, Teresa Toll-Duchanoy, Thierry Czerwiec, Thierry Belmonte<sup>1</sup>; <sup>1</sup>Institut Jean Lamour, Ecole Des Mines de Nancy, Cnrs, Umr7198

## POSTER PRESENTATIONS

**MONDAY , SEPTEMBER 26TH**

**SESSION SP1**

**16:00 - 18:00 - Exhibition Hall**

**SP1-D1 - Living Free Radical Polymerization (LFRP) in Emulsion: the effect of different operating conditions on the performance of the process**

Eduardo Galhardo<sup>1</sup>, Liliane M.f. Lona; <sup>1</sup>Universidade Estadual de Campinas

**SP1-D2 - kraft paper industry by-product as a potential protective product for fast growing wood.**

Kelly Bossardi<sup>1</sup>, Ricardo Marques

Barreiros; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Experimental de Itapeva

**SP1-D3 - Autodeposition to replace the electrodeposition process.**

Kelly Bossardi<sup>1</sup>, Pelayo Munhoz Olea; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Experimental de Itapeva

**SP1-D4 - pHEMA hydrogels coatings on UHMW substrates for applications as articular cartilage**

Marcele Fonseca Passos, Vanessa Petrilli Bavaresco, André Luiz Jardim Munhoz, Rubens Maciel Filho

**SP1-D5 - Formation of protective ZrN/TiN coatings on Nitinol by duplex treatment**

Juliane Carla Bernardi, Carla Daniela Boeira<sup>1</sup>, Cíntia Lugnani Amorim, Israel Jacobi Baumvol, Fernando Silvio Ramone, Almir Spinelli, Rodrigo Leonardo Basso; <sup>1</sup>Universidade de Caxias do Sul

**SP1-D6 - Microstructural Characterization Of A Superficially Quenched Cut Instrument From Of Palm Oil**

Evaldo Júlio Ferreira Soares<sup>1</sup>, Elielson Alves Dos Santos, João Luis Pereira, Tainã Fernandes Rodrigues, Tatianne Cristine de Oliveira Nunes; <sup>1</sup>Federal Institute Of Education, Science And Technology Of Pará

**SP1-D7 - Application Of The Films Polymerized By Plasma From Hmdso For Corrosion Protection Of Aisi 304 Steel**

Nazir Monteiro Dos Santos<sup>1</sup>, Elidiane Cipriano Rangel, Jayr Amorim Filho, Nilson Cristino Cruz, Bianca O. Pelici, Célia Marina A.

Freire; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" (Unesp Sorocaba) - Laptec

**SP1-D8 - Influence of deposition parameters on morphology and structure of nanocrystalline diamond films grown by CVD (Chemical Vapor Deposition)**

Lívia Elisabeth Vasconcellos de Siqueira Brandão<sup>1</sup>, Rafael Gustavo Torres Leal, Naira Maria Balzaretto<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-D9 - Plasma nitriding of nickel-titanium alloy and its corrosion resistance**

Carla Daniela Boeira<sup>1</sup>, Juliane Carla Bernardi, Cintia Lugnani Gomes Amorim, Israel Jacobi Baumvol, Fernando Silvio Ramone, Almir Spinelli, Rodrigo Leonardo Basso; <sup>1</sup>Universidade de Caxias do Sul

**SP1-D10 - The relationship between cellular adhesion and surface roughness for modified polyurethane by microwave – plasma radiation**

Majid Taghiof<sup>1</sup>, Esmaeil Biazar<sup>1</sup>, S.neda

**Ajdadi; <sup>1</sup>Islamic Azad University- Tonekabon Branch SP1-D11 - Formation of titania nanotubes by anodization of titanium**

Jorge Luiz Rosa, Marcello Pederiva Piassa, Alain - Robin, Roberto Zenhei Nakazato

**SP1-D12 - Surface layer characterization of Plasma sintered unalloyed iron samples enriched with Mo and nitrided.**

Tatiana Bendo<sup>1</sup>, Ana Maria Maliska, Henrique Cezar Pavanati, Keila Christina Kleinjohann<sup>1</sup>, Euclides Alexandre Bernardelli; <sup>1</sup>Universidade Federal de Santa Catarina

**SP1-D13 - Evaluation of Stryphnodendron sp release using natural rubber latex membrane as carrier**

Rondinelli Donizetti Herculano<sup>1</sup>, Regildo Márcio Gonçalves da Silva, Karoline Romeira Mansano; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP1-D14 - Study of the behavior of filling flow polymer in a symmetrical geometric distribution system applied in an injection molding.**

Écio José Molinari<sup>1</sup>, Bruno Mickael Böhr de Oliveira, Juliana Graunke; <sup>1</sup>Sociedade Educacional de Santa Catarina - Ist/joinville

**SP1-D15 - TiN/ZrN Multilayer Coatings on P/M-Ti-35Nb-7Zr-5Ta substrates**

Vinicius Rodrigues Henriques, Octávio Camargo Schichi, Carlos Alves Cairo, Cosme Moreira Silva

**SP1-D16 - Characterization of dielectric films thermally grown on single-crystalline silicon carbide and the solid interface formed**

Aline Tais da Rosa<sup>1</sup>, Silma Alberton Corrêa, Cláudio Radtke, Gabriel Vieira Soares, Cristiano Krug, Daniel Lorscheitter Baptista, Fernanda Chiarello Stedile; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-D17 - The morphology, chemical composition, and mechanical properties of TiO<sub>2</sub>, Nb<sub>2</sub>O<sub>5</sub>, ZrO<sub>2</sub>, and TixNbyZrz thin films deposited by magnetron sputtering on Si (111)**

Denise Tallarico, Angelo Gobbi, Pedro Iris Paulin Filho, Marcelo Maia da Costa, Anouk Galtayries, Pedro Augusto de Paula Nascente<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos

**SP1-D18 - Electrochemical behavior of anodized titanium at different phosphoric acid concentrations**

Carlos Eduardo Valdés de Freitas<sup>1</sup>, Lucas Gomes Almeida, Luize Jardim, Eduardo Norberto Codaro, Heloisa Andréa Acciari; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP1-D19 - Corrosion resistance of anodized titanium at different electrochemical conditions**

Carlos Eduardo Valdés de Freitas<sup>1</sup>, Lucas Gomes Almeida, Luize Jardim, Eduardo Norberto Codaro, Heloisa Andréa Acciari; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP1-D20 - Surface treatments based on self-assembling molecules for corrosion protection of AA1100**

Daniel Sierra Yoshikawa, Maysa Terada<sup>1</sup>, Sérgio Luiz de Assis, Isolda Costa<sup>2</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia, <sup>2</sup>Instituto de Pesquisas Energéticas E Nucleares

**SP1-D21 - Attachment of 2,2-Bipyridine onto a silica gel for application as a sequestering agent for copper ions from an aqueous medium**

Alexandre de Oliveira Jorgetto<sup>1</sup>, Elton José de Souza, Pedro Magalhães Padilha, Rafael Innocenti Vieira Silva, Sônia Maria Alves Jorge, Gustavo Rocha de Castro, Marco Antonio Utrera Martines; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Bauru

**SP1-D22 - Influence of loss mass and friction coefficient for cleaning of debris sliding system**

Ane Cheila Rovani<sup>1,2</sup>, Vanessa - Seriacopi<sup>3</sup>, Izabel Fernanda Machado, Amilton - Sinatora; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Departamento de Engenharia Mecânica, <sup>3</sup>Escola Politécnica de Universidade de São Paulo

**SP1-D23 - Finite element analysis of stresses field in the pin on disc test**

Vanessa - Seriacopi<sup>1</sup>, Ane Cheila Rovani<sup>2,3</sup>, Amilton - Sinatora, Izabel Fernanda Machado; <sup>1</sup>Escola Politécnica de Universidade de São Paulo, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Departamento de Engenharia Mecânica

**SP1-D24 - Synthesis of carbon-based coatings obtained by a Segmented Hollow Cathode arrangement**

Felipe Cemin, Ângela Elisa Crespi<sup>1</sup>, Eliena Jonko Birriel, Marcelo Maia da Costa, Santiago Corujeira Gallo, Israel Jacobi Baumvol, Carlos Alejandro Figueroa; <sup>1</sup>Universidade de Caxias do Sul

**SP1-D25 - Technological development of chitosan microparticles by spray-dryer for pulmonary administration of dapson**

Manoel ORtiz<sup>1</sup>, Denise Jornada, Adriana Raffin Pohlmann, Silvia Guterres; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-D26 - Comparative study of the fatigue behavior of the ABNT 4340 steel covered with**

**electroplated cadmium and aluminum by ion vapor deposition (IVD)**

Mauro Pedro Peres<sup>1</sup>, Herman Jacobus Voorwald, Lucas Cruz Amarante, Maria Odila Cioffi, Midori Yoshikawa Costa; <sup>1</sup>Universidade Estadual Paulista

**SP1-D27 - Effect of different abrasive materials and processes in adhesion of PVD coatings**

Caroline Luvison<sup>1</sup>, Santiago Corujeira Gallo, Israel Jacob Rabin Baumvol, Carlos Alejandro Figueroa; <sup>1</sup>Universidade de Caxias do Sul

**SP1-D28 - AFM and SEM analysis of different Al<sub>2</sub>O<sub>3</sub> blasting surface treatments on titanium**

Bruno Ramos Chrcanovic<sup>1</sup>, Maximiliano Delany Martins; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP1-D29 - The Shot- Peening Influence in Mechanical Behavior of Fillet Welded Joints in a Dual Phase Steel**

Caio de Paula Camargo Pisano<sup>1</sup>, Marco Colosio, Jose Castillo, Daniel Benitez Barrioz, Felipe Rezende, Antônio Mello, Jan Vatauvuk; <sup>1</sup>Universidade Presbiteriana Mackenzie

**SP1-D30 - Laser Cladding of NiCrAl and NiCrAlY powders in MAR-M247(Nb) superalloy**

Renato Baldan<sup>1</sup>, Carlos Angelo Nunes, Rui Mario Correia da Silva Vilar, Amélia Almeida; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP1-D31 - Parameterization of the reflectivity of Al thin films at microwave frequencies**

Mauro Angelo Alves<sup>1</sup>, Luiza C. Folgueras, Viviane L. Soethe, Evandro L. Nohara, Mirabel Cerqueira Rezende; <sup>1</sup>Instituto de Aeronautica E Espaço

**SP1-D32 - Physicochemical and structural properties of CrN thin films obtained by DC reactive magnetron sputtering**

Aline Luísa Bandeira, Ronaldo Echer Trentin, Carlos Alejandro Figueroa, Israel Jacobi Baumvol, César Aguzzoli, Maria Cristina Farias

**SP1-D33 - Improvement in fatigue life of AISI 9254 steel springs by multiple shot-peening**

Larissa Vilela Costa, Jose Rubens Gonçalves Carneiro, Pedro Brito

**SP1-D34 - Mechanical Properties of LDX2101 Duplex Stainless Steel Submitted to Glow**

**Discharge Nitriding at Low Temperatures and Different Nitrogen Atmospheres**

Carlos Eugenio Foerster<sup>1</sup>, Andre Assmann, Francisco Carlos Serbena, Carlos Mauricio Lepienski; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP1-D35 - Comparison between experimental curves of resistivity for thin films of Aluminium**

**and predictions with semiclassical models**

Samuel Leal da Silva, Raphael Barata Kasal<sup>1</sup>, Carlos Luiz Ferreira; <sup>1</sup>Centro Tecnológico do Exército

**SP1-D36 - Surface patterning of low carbon steel: the influence of grid composition and geometry**

Keila Christina Kleinjohann<sup>1</sup>, Ana Maria Maliska, Frederico Sellos Mattoso, Tatiana Bendo<sup>1</sup>, Euclides Alexandre Bernardelli; <sup>1</sup>Universidade Federal de Santa Catarina

**SP1-D37 - Wear rate of carbon black coating applied by laser process on 4340 steel**

Getulio de Vasconcelos, Daniele Cristina Chagas, Eder Alves Monteoliva

**SP1-D38 - Biocorrosion of the AISI 300M steel**

Sabrina Moura Rovetta<sup>1</sup>, Antonio Jorge Abdalla, Sônia Khouri, Walter Miyakawa; <sup>1</sup>Instituto de Estudos Avançados

**SP1-D39 - Montmorillonite clay/PEO based macro RAFT agent in water dispersion: Evaluation of pH, temperature and concentration influence on the macro RAFT adsorption and colloidal stability through a 2<sup>4-1</sup> factorial design.**

Rafael Caetano Jardim Pinto da Silva, Alexandre Isalino Dos Santos, Messias Borges Silva, Maria Lucia Caetano Pinto da Silva, Elodie Bourgeat-Lami, Amilton Martins Dos Santos

**SP1-D40 - Microstructure and Properties of CoCrMoSi Alloy**

Adriano Scheid<sup>1</sup>, Ana Sofia Clímaco Monteiro D'oliveira; <sup>1</sup>Universidade Federal do Paraná

**SP1-D41 - Plasma Enhanced Chemical Vapor Deposition Of Organic Films Containing Aluminum Oxide**

Guilherme Fernandes Nielsen, Elidiane Cipriano Rangel, Leonardo Arruda Duarte Bandeira, Luiz Henrique Ferreira Silva

**SP1-D42 - Carburization resistance of aluminized Ni-based coating**

Breno Syriani Veluza<sup>1</sup>, Ana Sofia Clímaco Monteiro D'oliveira; <sup>1</sup>Universidade Federal do Paraná

**SP1-D43 - Study Of The Microstructural By Raman Spectroscopy Of Films Of W-Alloyed Dlc: H Subjected To Scratch Tests.**

Fabrcio Xavier Faustino<sup>1</sup>, Fernanda Blandina Dos Santos, Carlos Wagner Moura E Silva, Jose Roberto Branco; <sup>1</sup>Fundação Centro Tecnológico de Minas Gerais

**SP1-D44 - Effect Of The Silane Concentration Onthe Selected Properties Of Anexperimental Dental Composite Resin**

Ricardo Marques E Silva<sup>1</sup>, Cesar Henrique Zanchi,

Rafael Guerra Lund, Heloisa Helena Machado, Fabrício Ogliari, Neftalí Lenin Villarreal Carreño, Evandro Piva; <sup>1</sup>Universidade Federal de Pelotas - Cdtex - Laboratório da Engenharia de Materiais

**SP1-D45 - Electrochemical behavior of thin films applied on titanium and Ti-6Al-4V alloy.**

Juan Guilherme Martim<sup>1</sup>, Bruna Rossi, Maria Teresinha Serrão Peraçolli, Ramon Kaneno, Cristiane Barbieri Rodella, Ariovaldo Oliveira Florentino, Margarida Juri Saeki; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho - Posmat

**SP1-D46 - Plasma carbonitrided and post-oxidized of plain steels for applications in ethanol fuel engine**

Rosiana Boniatti, Stevan Tomiello, Santiago Corujeira Gallo, Eliena J. Birriel, Carlos Alejandro Figueroa, Israel Jacobi Baumvol

**SP1-D47 - Chemical Deposition of Thin Films of Polyaniline on AA7075 and AA8006 aluminum alloys**

Leandro Duarte Bisanha<sup>1</sup>, Rodrigo de Santis Neves, Ivana Cesarino, Sergio Antonio Spinola Machado, Artur Jesus Motheo; <sup>1</sup>Universidade de São Paulo

**SP1-D48 - Influence Of Sigma Phase In The Corrosion Resistance Of The Austenitic-Ferritic Stainless Steel Sew 410 Nr 14517 Used In The Petrochemistry Industry**

Wandercleiton da Silva Cardoso<sup>1</sup>, Rafael Agrizzi Souza, André Itman Filho; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia do Espírito Santo

**SP1-D49 - Tribological properties of a-C:H coating on 16MnCr5 alloy steel grown by plasma immersion ion implantation and deposition (PIID) technique**

Ronaldo Junior Dos Santos<sup>1</sup>, Lucia Vieira Santos, Elidiane Cipriano Rangel, Nilson Cristino Cruz, José R. Ribeiro Bortoleto, Pérciles Lopes Sant'ana<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "julio de Mesquita Filho" - Posmat, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP1-D50 - Effects of implantation time on tribological properties of a-C:H films on 16MnCr5 alloy steel grown by plasma immersion ion implantation and deposition (PIID)**

Ronaldo Junior Dos Santos<sup>1</sup>, Lucia Vieira Santos, Elidiane Cipriano Rangel, Nilson Cristino Cruz, José R. Ribeiro Bortoleto, Pérciles Lopes Sant'ana<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "julio de Mesquita Filho" - Posmat, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP1-D51 - Evaluation of the tribological behavior**

**of steel microalloyed GG38MnSi5**

Pamela Seixas Peruzzo<sup>1</sup>, Marcio Roberto da Rocha, Angela Beatriz Coelho Arnt, Tomaz Barreto da Silva, Cleber Pereira Fenili; <sup>1</sup>Universidade do Extremo Sul Catarinense

**SP1-D52 - IR reflectance analysis of SnO<sub>2</sub> thin films by high pressure**

Thiago Sequinel<sup>1</sup>, Evaldo Toniolo Kubaski, Gabriele Scheidt, Samara Schmidt<sup>2</sup>, Sidnei Antonio Pianaro, Sergio Mazurek Tebcherani, José Arana Varela<sup>3</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Universidade Estadual de Ponta Grossa, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-D53 - Growth of silica nanowire bunches with atmospheric micro-afterglow**

Gregory Arnout, Ayman Al Taweel, Thomas Gries, Thierry Belmonte<sup>1</sup>; <sup>1</sup>Institut Jean Lamour, Ecole Des Mines de Nancy, Cnrs, Umr7198

**SP1-D54 - Fracture toughness and crack morphology in glass ceramics of lithium disilicate**

Sara Blunk Massardo<sup>1</sup>, Carlos Mauricio Lepienski; <sup>1</sup>Universidade Federal do Paraná

**SP1-D55 - Fluorinated silicon oxide composite materials useful for harsh environments**

Leonardo Frois Hernandez<sup>1</sup>, Alexandre Alves de Jesus, Alisson Rodolfo Leite, Estevan Rosim Fachini, Roberto da Rocha Lima, Maria Lúcia Pereira da Silva; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP1-D56 - Composite plasma thin films for surface protection and adsorption of organic compounds**

Alexandre Alves de Jesus, Leonardo Frois Hernandez<sup>1</sup>, Alisson Rodolfo Leite, Estevan Rosim Fachini, Roberto da Rocha Lima, Maria Lúcia Pereira da Silva; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP1-D57 - Structure, composition, and mechanical characterization of dc sputtered TiN-MoS<sub>2</sub> nanocomposite thin films**

Eduardo Kirinus Tentardini<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe

Correia, Bruno Barreto, Flavio Horowitz; <sup>1</sup>Institute Of Physics - Ufrgs

**SP2-D59 - Oxidation resistance of aluminides coatings Fe-Al deposited by PTA**

Gustavo Bonfim Kapusta<sup>1</sup>, Ana Sofia Clímaco Monteiro D'oliveira; <sup>1</sup>Universidade Federal do Paraná

**SP2-D60 - Protein determination using polyaniline FET-based device**

Nirton Vieira, Edson Giuliani Ramos Fernandes, Alessandra Figueiredo, Valtencir . Zucolotto, Francisco E.g. Guimaraes<sup>1</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos

**SP2-D61 - Analysis of the osseointegration in dental implants of Ti-30Ta alloy after biomimetic surface treatment**

Lu Luciana Carvalho, João Augusto Guedes Oliveira, Sandra Giacomini Schneider, Maria Cristina Rosifini Alves Rezende, Ana Paula Rosifini Alves Claro

**SP2-D62 - Effect of purification on electrospun galactomannan nanofibers**

Adriana Freire Lubambo, Rilton Alves de Freitas, Bruno Morais Serafim, Neoli Lucyszyn, Maria- Rita Sierakowski, Cyro Ketzer Saul

**SP2-D63 - Active metals for the mechanical metallization of oxide technical ceramics**

Tarcisio Eloi de Andrade Junior<sup>1</sup>, Antonio Eduardo Martinelli<sup>2</sup>, Sonja Michaela Gross, Rubens Maribondo do Nascimento; <sup>1</sup>Universidade Federal Rural do Semi, <sup>2</sup>Universidade Federal do Rio Grande do Norte

**SP2-D64 - Wettability of hydrogenated amorphous carbon films: deposition temperature dependence**

Douglas Natan Dias Gomes<sup>1</sup>, Marcio José Particheli<sup>1</sup>, Ricardo Antonio de Simone Zanon, Julio Miranda Pureza<sup>2</sup>, Monica de Mesquita Lacerda, Erlon Henrique Martins Ferreira, Carlos Alberto Achete<sup>3</sup>; <sup>1</sup>Fundação Universidade do Estado de Santa

Catarina, <sup>2</sup>Universidade do Estado de Santa Catarina, <sup>3</sup>Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

**SP2-D65 - Influence Of Radiation On Hydrogenated Amorphous Carbon Films Structure And Wettability**

Marcio José Particheli<sup>1</sup>, Douglas Natan Dias Gomes<sup>1</sup>, José Fernando Fragalli, Ricardo Antonio de Simone Zanon, Monica de Mesquita Lacerda, Carlos Alberto Achete<sup>2</sup>; <sup>1</sup>Fundação Universidade do Estado de Santa Catarina, <sup>2</sup>Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

**SP2-D66 - Substrate surface modification in Ar plasma improves antibiofilm activity of microbial extracts**
**TUESDAY, SEPTEMBER 27TH**
**SESSION SP2**
**14:00 - 16:00 - Exhibition Hall**
**SP2-D58 - Aging investigation of Ag-doped waveguides produced by ion-exchange**

Patrícia Loren, Marcelo Barbalho Pereira<sup>1</sup>, Ricardo



Susana de Oliveira Elias<sup>1</sup>, Igor Stelmach Pessi,  
 Fernando Bonatto, Cristiano Krug, Alexandre José  
 Macedo; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-D67 - Multifunctional nanocomposites  
 between iron-filled carbon nanotubes and acrylic  
 latex: preparation, characterization and  
 properties.**

Carolina Ferreira de Matos<sup>1</sup>, Fernando Galembeck,  
 Aldo J.g. Zarbin<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná

**SP2-D68 - Silver nanoparticles synthesized on  
 cellulosic supports**

Bruna da Silva Pereira<sup>1</sup>, Ana Adelina Winkler  
 Hechenleitner, Edgardo Alfonso Gómez Pineda,  
 Marcela Fernandes Silva<sup>1</sup>, Michele Karoline Lima,  
 Saulo Renan Ferreira Sottoriva; <sup>1</sup>Universidade  
 Estadual de Maringá

**SP2-D69 - Determination And Characterization  
 Of The Content Of Salts Presents In Water  
 Samples Of Oil Production**

Isaac Daniel Guitolini Silva<sup>1</sup>, Vinicius Guilherme  
 Celante, Eustáquio Vinicius Ribeiro de Castro, Maria  
 Fatima Fontes Lelis; <sup>1</sup>Universidade Federal do  
 Espírito Santo

**SP2-D70 - Implementation and calibration of an  
 instrumented indenter**

Francisco Carlos Serbena, Fabiane de Fatima  
 Carvalho, Carlos Eugenio Foerster<sup>1</sup>, Carlos Mauricio  
 Lepiensi; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP2-D71 - Interaction of Chlorhexidine with  
 Biomembrane Models on Glass Ionomer by using  
 the Langmuir-Blodgett Technique**

Bruno Luis Possani Costalonga<sup>1</sup>, Renata Cristiane da  
 Silva, Luciano Caseli<sup>2</sup>, Celso Molina<sup>2</sup>; <sup>1</sup>Universidade  
 Federal de São Paulo (Unifesp), <sup>2</sup>Universidade Federal  
 de São Paulo

**SP2-D72 - Electrochemical study of the  
 polymerization of 3-hidroxybenzoic acid on  
 graphite electrodes surface**

José Manuel Rodrigueiro Flauzino<sup>1</sup>, Isabela Lemos de  
 Lima, Heden da Costa E Silva Alves, Ana Graci Brito-  
 Madurro, João Marcos Madurro; <sup>1</sup>Universidade  
 Federal de Uberlândia

**SP2-D73 - Helium Plasma Effect on Starch Films  
 Surface**

Marta Duarte da Fonseca<sup>1</sup>, Daniele Cruz Bastos, Tania  
 Mara Garcia, Renata Antoun Simão; <sup>1</sup>Universidade  
 Federal do Rio de Janeiro

**SP2-D74 - Microstructure And Microhardness Of  
 The Superalloy Hastelloy C 276 Applied To The  
 Internal Coating Of Pipes For Carbon Steel Process  
 Mig-Cw**

Marcio Wagner Santos, Henrique Fernando Pinheiro  
 Espirito Santo, Diego Almir Silva da Silva, Carlos  
 Alberto Mendes Mota

**SP2-D75 - Determination of crystallinity by X-ray  
 Diffraction (XRD) and differential scanning  
 calorimetry (DSC) as tools for monitoring the PA-  
 11 aged in distilled water at different temperatures.**

Eloilson Domingos, Thieres Magaive Pereira, Josué  
 Alves de Queiróz Júnior<sup>1</sup>, Eustaquio Vinicius Ribeiro  
 de Castro, Wanderson Romão, Geovane Lopes de  
 Sena; <sup>1</sup>Universidade Federal do Espírito Santo

**SP2-D76 - Study By Eis Of Coatings Of Silanes  
 Btse Or Vs On Films Containing With Rare Earth  
 Salts For Corrosion Protection Of Tha Iron-Zinc  
 Alloy**

Márcia Cristina Gonçalves Santos<sup>1</sup>, Célia Marina A.  
 Freire; <sup>1</sup>Universidade Estadual de Campinas

**SP2-D77 - Application of Electronic Conducting  
 Polymers to Epoxy-based Coatings for Protection  
 Against Corrosion of Metals**

Alessandra Fiorini Baldissera<sup>1</sup>, Luana S. Oliveira,  
 Carlos Arthur Ferreira; <sup>1</sup>Universidade Federal do Rio  
 Grande do Sul

**SP2-D78 - Incorporation of itraconazole in  
 nanostructured systems using propoxyl ethoxyl  
 cethyl alcohol as surfactant**

Gabriela Marielli da Luz, Mariane Hiromi Hirata<sup>1</sup>,  
 Hilris Rocha E Silva, Maria Palmira Daflon  
 Gremião; <sup>1</sup>Universidade Estadual Paulista -  
 Araraquara

**SP2-D79 - Obtaining of bactericidal ceramics using  
 the forced impregnation method**

Juliana de Oliveira Pimenta<sup>1</sup>, Evaldo Toniolo  
 Kubaski, Thiago Sequinel<sup>2</sup>, Luiz Ricardo  
 Olchanheski, Marcos Pileggi, Sergio Mazurek  
 Tebcherani, José Arana Varela<sup>3</sup>; <sup>1</sup>Universidade  
 Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Instituto  
 de Química Unesp, <sup>3</sup>Sociedade Brasileira de Pesquisa  
 Em Materiais - Sbpmat

**SP2-D80 - Characterization and Evaluation of  
 Corrosion Coatings for Food Packaging**

Luciana Machado Rodrigues, Gabriel Porto Quadros<sup>1</sup>,  
 Éric da Cruz Severo; <sup>1</sup>Fundação Universidade Federal  
 do Pampa

**SP2-D81 - Electrogenation of polymeric films  
 derived from 3-aminothiophenol for  
 immobilization of DNA fragments of meningitis**

Vinicius de Rezende Rodovalho<sup>1</sup>, Ana Cristina  
 Honorato Castro<sup>1</sup>, Ana Graci Brito-Madurro, João  
 Marcos Madurro, Roney Santos Coimbra, Sara  
 Cuadros Orellana; <sup>1</sup>Universidade Federal de

Uberlândia

**SP2-D82 - Study of alternative raw-materials for obtaining of powder used in thermal spraying**

Gabriela de Bastos<sup>1</sup>, Gian Paganotto, Luiz Gilberto Konrath Júnior<sup>1</sup>, Neftalí Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Sergio da Silva Cava; <sup>1</sup>Universidade Federal de Pelotas - Cdtex - Laboratório da Engenharia de Materiais

**SP2-D83 - Steel Pickling**

Ana Paula Simões Bondioli<sup>1</sup>, Roberta Piffer Teixeira, Fernando Vernilli Júnior; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP2-D84 - Elastic modulus and hardness of metallic interfaces**

André Luiz Costa, Yuri Melo Alves, Paulo Mário Machado Araújo

**SP2-D85 - Plasma nitriding of powder metallurgy steels**

Thiago Marques Ivaniski, Carlos Alejandro Figueroa, Israel Jacobi Baumvol, Santiago Corujeira Gallo

**SP2-D86 - Titanium diboride films: The effects of the substrate bias and the deposition pressure**

Carlos Sanchez Tasayco, Fernando Lazaro<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro

**SP2-D87 - Improvement of the corrosion resistance of titanium alloy implanted by nitrogen PIII at high temperature in different heating systems**

Graziela da Silva Savonov<sup>1</sup>, Mário Ueda, Rogério Moraes Oliveira, Choyu Otani; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais

**SP2-D88 - Corrosion of silver in natural and artificial sea water**

Carlos Alberto Picon<sup>1</sup>, Frederico Augusto Pires Fernandes<sup>2</sup>, Carlos Alberto Picon<sup>2</sup>, Germano Tremiliosi-Filho, Luiz Carlos Casteletti; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira, <sup>2</sup>Universidade de São Paulo

**SP2-D89 - Microstructural And Mechanical Comparison Of The Multipass Welding of The Astm A-516 Grade 70 Steel By The Processes Smaw And Fcaw**

Mariana Cabral de Souza<sup>1</sup>, Carlos Roberto Xavier, Rogério da Silva Carolino<sup>1</sup>, Rosinei Batista Ribeiro; <sup>1</sup>Centro Universitário de Volta Redonda

**SP2-D90 - Preparation and characterization of Polystyrene film with highly ordered pores**

Elisângela Silva Pinto<sup>1</sup>, Adriana Madalena de Araújo Faria, Bernardo Ruegger Almeida Neves; <sup>1</sup>Instituto Federal de Minas Gerais

**SP2-D91 - Fractal Dimension Determination for Digital Speckle Patterns in Roughness Control of Metallic Surfaces**

Carlos Roberto de Sousa Santos, João Batista Meireles, José Augusto Oliveira Huguenin, Dilson P. Caetano, Ladário da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense

**SP2-D92 - Nanostructured iron oxide thin films produced by sol-gel spin-coating.**

Maurício A. C. de Melo, Otavio A, Capeloto, Otavio A Protzek, Gustavo Sanguino Dias, Ivair Aparecido Santos, Ana Adelina W. Hechenleitner, Edgardo Alfonso Gómez Pineda

**SP2-D93 - Colouring Anodizing of Al pure**

Natal Nerímio Regone, Ricardo Marques Barreiros, Guilherme Macedo Silva

**SP2-D94 - Effect of supramolecular ultrathin films formed on copper phthalocyanine and a natural polysaccharide with applications in sensor neurotransmitter**

Silvio Lima de Moura<sup>1</sup>, Ionara Nayana Gomes Passos, José Aroldo Viana Dos Santos, Jose Ribeiro Santos Junior; <sup>1</sup>Universidade Federal do Piauí

**SP2-D95 - The control of apatite mineralization by self-assembled monolayers**

Vilany Santos Carvalho<sup>1</sup>, Cristiane Xavier Resende, Euler Araujo Dos Santos; <sup>1</sup>Universidade Federal de Sergipe

**SP2-D96 - Evaluation and comparison of corrosive processes between systems: metal packaging/cupuaçu sweet and metal packaging/food simulant.**

Bianca Oliveira Pelici, Célia Marina A. Freire, Maria Teresa Freire, Augusta Felipe

**SP2-D97 - Innovative use of ultrasound in the manufacture of paints and coatings**

Kathrin Hielscher

**SP2-D98 - Order increase of a self-ordered PAA ultra-thin films by two-step anodization process**

José Ricardo Borba<sup>1</sup>, Louise Potrich, Adriano Friedrich Feil<sup>1</sup>, Sergio Ribeiro Teixeira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-D99 - Effect of clay purification and organic modification on the mechanical and barrier properties of LLDPE/Bentonite films**

Eduardo Mello Silva, Laura Carvalho, Eduardo Luis Canedo, Arthur R. Albuquerque Araújo, Maria Goretti Coutinho, Raquel Bezerra Costa

**SP2-D100 - Montmorillonite-KSF modified with 1-dodecylammonium as adsorbent for remazol blue R**

Maria Gardennia Fonseca<sup>1</sup>, Marcia Maria Silva, Jose Geraldo Espinola, Ramon Kenned de Sousa Almeida<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>University Of Campinas

**SP2-D101 - Evaluation of glucose oxidase immobilization using organosilanes for biosensor application**

Marco Elisio Marques<sup>1,2</sup>, Alexandra Apisiciteli Mansur, Herman S. Mansur; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Departamento de Engenharia Metalúrgica E Materiais

**SP2-D102 - Microchannels plate construction: A surface comparison between DMLS and wet chemical etching**

Aulus Bineli, Maria Ingrid Rocha Barbosa<sup>1</sup>, Ana Paula Peres, André Luiz Jardini Munhoz, Rubens Maciel Filho; <sup>1</sup>Universidade Estadual de Campinas

**SP2-D103 - Characterization and thermal stability of triethanolamine and SDS as corrosion inhibitors in oil industry.**

Isaac Daniel Guaitolini Silva<sup>1</sup>, Amanda de Angelis Vitoi, Vinicius Guilherme Celante, Eustáquio Vinicius Ribeiro de Castro, Marcos Benedito Jose de Freitas; <sup>1</sup>Universidade Federal do Espírito Santo

**SP2-D104 - Effect of surfactant in the entrapment efficiency of praziquantel in nanostructured lipid carriers**

Fernanda Kolenyak Dos Santos<sup>1</sup>, Maria Palmira Daflon Gremião; <sup>1</sup>Universidade Estadual Paulista - Araraquara

**SP2-D105 - Preliminary studies concerning 5083 aluminum alloy deposition in a substrate of 2024 using friction surfacing process**

Claudio Javier Almirón<sup>1</sup>, Matthias Beyer, Jorge Dos Santos, Pedro Pereira da Cunha, Cleber Lima Lessa, Telmo Roberto Strohaecker; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-D106 - Thermal oxidation of p-type silicon at low temperatures by reactive plasma**

Saulo Alonso Silva<sup>1</sup>, Jose Roberto Branco, Bill Willian Fadgen; <sup>1</sup>Fundação Centro Tecnológico de Minas Gerais

**SP2-D107 - Spin-assembly multilayered light emitting organic structures**

Mike Melo do Vale<sup>1</sup>, Patrícia B. Catandi, Roberto Mendonça Faria<sup>2</sup>, Francisco E.g.

Guimaraes<sup>3</sup>; <sup>1</sup>Interunidades - Materiais - Eesc/ifsc/iqsc, <sup>2</sup>Instituto de Física de São Carlos, <sup>3</sup>Universidade de São Paulo - Instituto de Física de São Carlos

**SP2-D108 - MEIS analysis of buried**

**nanostructured materials**

Dario Ferreira Sanchez, F. P. Luce, Cristiane Marin<sup>1</sup>, F. Kremer, Z. E. Fabrim, Jérôme Leveneur, Maurício Sortica; <sup>1</sup>Post-Graduation Course In Material Science

**SP2-D109 - Drilling granite with laser light**

Luiz Carlos Guedes Valente, Maria Angélica Acosta, Paula M. P. Gouvea, Cicero Martelli, Arthur M. B. Braga

**SP2-D110 - MEIS analysis of buried Pb nanoislands**

Frâncio Souza Berti Rodrigues, Dario Ferreira Sanchez, Maurício Sortica, F. P. Luce, Z. E. Fabrim, Cristiane Marin<sup>1</sup>, F. Kremer; <sup>1</sup>Post-Graduation Course In Material Science

**SP2-D111 - Tsallis Entropy for Images of Digital Speckle Patterns in Roughness Control of Metallic Surfaces**

Ronaldo Dias Correa, João Batista Meireles, Daniel Girardi, José Augusto Oliveira Huguenin, Ladário da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal Fluminense

**SP2-D112 - comparative study of the morphology surfaces of TiO2 deposited by air plasma spray**

Pedro Ivo Polak, Ramón S. Cortés Paredes, Lucas Alan de Aguiar, Gustavo Bavaresco Sucharski, Ana Paula Vaz

**SP2-D113 - Epoxy resin modified with silane as corrosion protection coating to carbon steel**

Victor Cangussu Cardoso<sup>1</sup>, Maria Eliziane Pires de Souza, Gislene Custódio; <sup>1</sup>Universidade Federal de São João Del Rei

**SP2-D114 - Study on the adhesion of polyurethane derivate from castor oil varying the ratio polyol/prepolymer**

Elaine Cristina Azevedo, Stefanie Hanel Antonizzi, Marina Cardoso Vasco, Eduardo Mauro Nascimento, Salvador Claro Neto

**SP2-D115 - Analysis of capsaicin in the wood preservation to attack the Paecilomyces variotti fungus**

Analine Crespo Ziglio<sup>1</sup>, Débora Gonçalves; <sup>1</sup>Instituto de Física de São Carlos

**SP2-D116 - High temperature wear behavior of Stellite 1 and Stellite 6 PTA coatings**

Rafael José Nowacki Gomes<sup>1</sup>, Ana Sofia Clímaco Monteiro D'oliveira; <sup>1</sup>Universidade Federal do Paraná

**SP2-D117 - Evaluation of shear strength before and after corrosion test in aluminium-steel and aluminium-aluminium joints linked by two-component structural adhesive**

Paula Emília de Souza Prates<sup>1</sup>, Milvia Oliveira Dos Reis<sup>1</sup>, Juliana Lopes Hoehne, Bruno Barreira

Fragoso; <sup>1</sup>Fiat Automóveis S.a.

**SP2-D118 - Deposition Of Tin Film On Carbon Steel Bandsaw Blades By The Cold Plasma Tecnique**

Tiéldy Lima, Gabriel Lima, Washington Magalhães, Neide Kazue Kuromoto

**WEDNESDAY, SEPTEMBER 28TH**

**SESSION SP3**

**16:00 - 18:00 - Exhibition Hall**

**SP3-D119 - Surface hardness evaluation of plasma nitrided Ti-6Al-4V**

Eduardo Blando<sup>1</sup>, Saulo C. Lima, Ruth Hinrichs, Marcos A. Z. Vasconcellos; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-D120 - Depth profiles of hardness, phase and elemental composition of AISI H13, D2 and M2 steels, submitted to DC plasma treatment**

Saulo Davila Jacobsen<sup>1</sup>, Eduardo Blando<sup>2</sup>, Ruth Hinrichs, Marcos A. Z. Vasconcellos; <sup>1</sup>Post-Graduation Course In Material Science, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP3-D121 - Contact fatigue behavior of plasma nitrided or nitrocarburized AISI 316L stainless steel**

Frederico Augusto Pires Fernandes<sup>1</sup>, Luiz Carlos Casteletti, Luis Llanes, Juno Gallego; <sup>1</sup>Universidade de São Paulo

**SP3-D122 - Deposition of silica coatings on carbon fiber by TEOS pyrolysis for carbon nanotube growth**

Erica Freire Antunes<sup>1</sup>, Viviane Queiroz da Silva, Evaldo José Corat; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais

**SP3-D123 - Fabrication of transition metal oxide films by direct oxidation of pure metal films deposited by thermal evaporation**

Ronaldo Pereira de Melo Júnior<sup>1</sup>, Antônio Azevedo da Costa, Cid Bartolomeu de Araújo; <sup>1</sup>Universidade Federal de Pernambuco

**SP3-D124 - Modifications in calcium containing films deposited onto titanium after soaking in simulated body fluid**

Rita C. C. Rangel, Elidiane Cipriano Rangel, Rogério M Oliveira, Mário Ueda, Wido H Schreiner, Nilson Cristino Cruz

**SP3-D125 - Mechanical and tribological characterization of fluorinated and hydrogenated amorphous carbon films on stainless steel**

Erika Ochoa<sup>1</sup>, Danny Araucano Holgado, Dante Ferreira Franceschini, Fernando Alvarez, Fernando

Lazaro<sup>1</sup>, Marcelo Maia da Costa; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro

**SP3-D126 - Biocompatibility studies of diamond-like carbon films with incorporated nanocrystalline diamond particles**

Cleber A Nunes, João Anderson Ferreira Irineu, Cristina Pacheco-Soares, Vladimir José Trava-Airoldi, Anderson O Lobo, Fernanda Roberta Marciano

**SP3-D127 - Corrosion study of Titanium-Silicon (Ti-4Si) alloy.**

Gleyce Tavares Ruel<sup>1</sup>, Rafaela Bonifacio Dantas<sup>1</sup>, Haroldo Marques Gonçalves, Rafael Toshio Sakai, Ivan Ramires; <sup>1</sup>Universidade Federal da Grande Dourados

**SP3-D128 - Hot corrosion and oxidation by organic waste Biomass Fuel**

Alexander Eduardo Caytuero<sup>1</sup>, Isaias Alves, Erica Romão, Daltro Pinatti, Ruben Rosenthal; <sup>1</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro

**SP3-D129 - Influence of growth temperature on strainrelaxation on diluted nitride InGaAsN/GaAs single quantum well**

Carlos Alberto Zanutto Bassetto Junior<sup>1</sup>, Jonatas Silva Cavalcante<sup>2</sup>, Américo Sheitiro Tabata, José Brás Barreto de Oliveira<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>3</sup>Faculdade de Ciências de Bauru - Unesp

**SP3-D130 - Multicomposites of Dendrimers and Vanadium Pentoxide Nanostructures: application as pH sensorsA.**

Alessandra Figueiredo, Nirton C. S. Vieira, Waldir Avansi, Caue Ribeiro de Oliveira, Valmor Roberto Mastelaro<sup>1</sup>, Valtencir . Zucolotto, Francisco Eduardo Gontijo Guimarães; <sup>1</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**SP3-D131 - Organofunctionalized Kaolinite for the removal of Reactive Blue 15 in aqueous solution.**

Ana Lucia Santos<sup>1</sup>, Rúbia Ribeiro Viana, Claudio Airoldi; <sup>1</sup>Universidade Estadual de Campinas

**SP3-D132 - Employment of systems like nanoshells for drug carriers photosensitizers**

Mainã Portella Garcia<sup>1</sup>, Anderson Orzari Ribeiro<sup>1</sup>, Segundo Nilo Mestanza Munoz<sup>1</sup>; <sup>1</sup>Universidade Federal do Abc

**SP3-D133 - Construction and analysis of surface images by using confocal laser scanning.**

Andre Rezende de Figueiredo Oliveira<sup>1</sup>, José Daniel Biasoli de Mello, Adamo Ferreira Gomes do Monte; <sup>1</sup>Universidade Federal de Uberlândia

**SP3-D134 - Thickness measurement of multilayer thin films by reflectance data using LabVIEW**

Gustavo Marcati Alves, Ricardo Cardoso Rangel, Ronaldo Domingues Mansano

**SP3-D135 - Similarities of a-C:H films prepared by PIID and by PECVD with subsequent ion beam bombardment**

Elidiane Cipriano Rangel, José F Martinatti, Rita C. C. Rangel, Nilson Cristino Cruz

**SP3-D136 - Surface patterning by DC plasma nitriding: a comparison between low carbon steel and sintered unalloyed iron**

Keila Christina Kleinjohann<sup>1</sup>, Ana Maria Maliska, Frederico Sellos Mattoso, Tatiana Bendo<sup>1</sup>, Euclides Alexandre Bernardelli; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-D137 - Characterization of a Nb-Si-B alloy coated by Fe, Cr, Si and B through Halide Activated Pack Cementation process**

Douglas Vanderley Nanes Schimidt, Renan Freitas Gral, Fernando Graber, Antonio Augusto Araujo Pinto Silva, Alvaro Guilherme Junqueira Santos, Gilberto Carvalho Coelho, Carlos Angelo Nunes

**SP3-D138 - Internal wettability of porous titanium used as bone implants**

Giuseppe Zanella Sampaio<sup>1</sup>, Anderson Moreira, Marize Oliveira, Celso Peres Fernandes, Iara Mantovani; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-D139 - Effect of diffusion treatment on the hardening depth after plasma nitriding of ductile cast iron**

Daniela Wollmann, Giuseppe Pintaúde, Julio Cesar Klein Neves, Guilherme Melo, Lucas Biazon Cavalcanti

**SP3-D140 - Synthesis and characterization of mesoporous deposit of Prussian Blue.**

Karen Martins Crivellaro<sup>1</sup>, Roseli Hiromi Sato, Pablo Alejandro Fiorito; <sup>1</sup>Fundação Universidade Federal do Abc

**SP3-D141 - Surface morphology of interference thin films grown on stainless steel by an electrochemical process**

Rosa Maria Rabelo Junqueira<sup>1</sup>, Célia Regina Oliveira Loureiro, Vicente Tadeu Lopes Buono; <sup>1</sup>Fundação Centro Tecnológico de Minas Gerais

**SP3-D142 - Hot corrosion and oxidation by Burner Rig combustion of gasified biomass**

Alexander Eduardo Caytuero<sup>1</sup>, Ruben Rosenthal, Isaias Alves, Daltro Pinatti; <sup>1</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro

**SP3-D143 - A simple system for thin film**

**deposition of CdTe by sublimation**

Oswaldo Morales Morales<sup>1</sup>, Hermes Adolfo Aquino, Cláudio Luiz Carvalho, Victor Ciro Solano Reynoso<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira, <sup>2</sup>Faculdade de Engenharia - Campus de Ilha Solteira

**SP3-D144 - Voltage Oscillations During Galvanostatic Anodization of Magnesium**

Gerhard Hans Knornschild, Luiz Roberto Broilo<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-D145 - Influence the pH of the solution precursor hybrid films obtained on the tin coated steel**

Érika Nishi Basho<sup>1</sup>, Rafael Toshio Sakai, André Murilo de Souza, Fabiola Munhoz Di Loreto da Cruz, Assis Vicente Benedetti, Celso Valentim Santilli<sup>2</sup>, Patrícia Hatsue Suegama; <sup>1</sup>Universidade Federal da Grande Dourados, <sup>2</sup>Universidade Estadual Paulista - Araraquara

**SP3-D146 - Oxygen diffusion in oxide films grown on the AISI 304 austenitic stainless steel**

Antonio Claret Soares Sabioni, Roberto Paulo Barbosa Ramos<sup>1</sup>, Vincent Ji, François Jomard; <sup>1</sup>Universidade Federal de Ouro Preto

**SP3-D147 - Influence of proton and UV irradiation on the formation of nanoporous polycarbonate surfaces**

Raquel Silva Thomaz<sup>1</sup>, Daniela Govoni Sotelo<sup>1</sup>, Leonardo da Cunha Santos, Claudia Telles de Souza, Ricardo Meurer Papaléo; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul

**SP3-D148 - Analysis of the role of the oxygen diffusion on the oxidation mechanism of the AISI 439 ferritic stainless steel**

Antonio Claret Soares Sabioni, Emiliane Advincola Malheiros<sup>1</sup>, Vincent Ji, François Jomard; <sup>1</sup>Universidade Federal de Ouro Preto

**SP3-D149 - Composite of TiO<sub>2</sub>/Si/C evaluated as catalyst for effluent treatment**

Rafael Mello Lattuada<sup>1</sup>, João Henrique Zimnoch Dos Santos<sup>1</sup>, Maria do Carmo Ruaro Peralba; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-D150 - Corrosion study of Titanium-Silicon (Ti-12Si) alloy**

Rafaela Bonifacio Dantas<sup>1</sup>, Ivan Ramires, Janice Kottwitz, Gleyce Tavares Ruel<sup>1</sup>; <sup>1</sup>Universidade Federal da Grande Dourados

**SP3-D151 - Use of galvanic sludge for application on the technique of thermal spraying plasma**

Gian Francesco Dos Reis Paganotto<sup>1</sup>, Gabriela Bastos, Neftalí Lenin Villarreal Carreño, Margarete Regina

Freitas Gonçalves, Sergio da Silva Cava, Edilson Nunes Pollnow<sup>2</sup>, Evandro Piva; <sup>1</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, <sup>2</sup>Universidade Federal de Pelotas

**SP3-D152 - Electrodeposition of ZnO thin film on copper substrate**

Israel Freitas Bezerra<sup>1</sup>, Rui Carlos Barros da Silva<sup>1</sup>, Lutero Carmo de Lima; <sup>1</sup>Universidade Estadual do Ceará

**SP3-D153 - Sodium diclofenac release using natural rubber latex biomembrane as support**

Patricia Businaro Aielo<sup>1</sup>, Regildo Márcio Gonçalves da Silva; <sup>1</sup>Unesp - Faculdade de Ciências E Letras de Assis

**SP3-D154 - Influence of Localized Plasmon Resonance at riboflavin singlet oxygen generation**

Luciana Santos Afonso de Melo, Sybele Saska, Karina Nigoghossian, Anderson S. L. Gomes, Younes Messaddeq, Sidney José Lima Ribeiro, Renato E. de Araujo

**SP3-D155 - Study of Surface obtained by SMAT in Commercially Pure Titanium**

Ana Paula Vaz, Neide Kazue Kuromoto, Carlos J. de Mesquita Siqueira

**SP3-D156 - Study of metal enhanced fluorescence on Water dispersion CdTe/CdS Quantum dots**

Luciana Santos Afonso de Melo, Claudilene Ribeiro Chaves<sup>1</sup>, Sybele Saska, Beate Saegesser Santos, Anderson S. L. Gomes, Adriana Fontes, Renato E. de Araujo; <sup>1</sup>Universidade Federal de Pernambuco

**SP3-D157 - Study of the analytical efficiency of a hepatitis B virus genosensor on poly(4-aminophenol) matrix**

Erick Guimarães França<sup>1</sup>, Ana Cristina Honorato Castro<sup>1</sup>, Ana Graci Brito-Madurro, João Marcos Madurro; <sup>1</sup>Universidade Federal de Uberlândia

**SP3-D158 - Mechanical Properties of asphalt binders evaluated by Atomic Force Microscopy**

Érico Rodrigues Dourado<sup>1</sup>, Renata Antoun Simão, Leni Figueireiro Leite; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP3-D159 - Study of the influence of MMA concentration on MPTS/MMA hybrid coating on tin coated steel in 3.5 wt.% NaCl solution.**

Rafael Sakai<sup>1</sup>, Érika Nishi Basho<sup>1</sup>, Celso Valentim Santilli<sup>2</sup>, Assis Vicente Benedetti, Patrícia Hatsue Suegama; <sup>1</sup>Fundação Universidade Federal da Grande Dourados, <sup>2</sup>Universidade Estadual Paulista - Araraquara

**SP3-D160 - Surface Interaction of Gold Nanorods by Self-assembly Using Thiols Groups**

Ábner Magalhães Nunes<sup>1</sup>, Monique Gabriella Angelo da Silva<sup>1</sup>, Carla Gonçalves Albuquerque, Mario Roberto Meneghetti, Simoni Margareti Plentz Meneghetti; <sup>1</sup>Universidade Federal de Alagoas

**SP3-D161 - Mechanical properties of bioactive Ti obtained by anodic oxidation with posterior heat treatment using Ca/P-based solutions**

Gabriel Goetten de Lima<sup>1</sup>, Bruno Leandro Pereira, Gelson Biscaia de Souza, Carlos Mauricio Lepiensi, Neide Kazue Kuromoto; <sup>1</sup>Universidade Federal do Paraná

**SP3-D162 - Poly(m-phenylene isophthalamide) modified with iodoacetic acid**

Irene Teresinha Santos Garcia<sup>1</sup>, Lara Fernandes Loguercio, Michael Ramos Nunes, Eliana Weber de Menezes<sup>2,3</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Instituto de Química, <sup>3</sup>Institute Of Chemistry

**SP3-D163 - Microstructural**

**Characterization of annealed 4340 steel and treated in salt bath**

Carolina Reinaldi Koga, Cristina Carvalho Elisei

**SP3-D164 - Analysis of Ti-25Ta alloy after biomimetic surface treatment**

Mariana Gomes Moura Costa, Maria Cristina Rosifini Alves Rezende, Sandra Giacomini Schneider, Ana Paula Rosifini Alves Claro

**SP3-D165 - Synthesis of aminated derivative of chitosan and their application in the removal of textile dyes from aqueous solutions.**

Cintia Dos Santos Oliveira<sup>1</sup>, Claudio Airoidi; <sup>1</sup>Universidade Estadual de Campinas

**SP3-D166 - Analysis of Ti-7.5Mo experimental alloy surface after hydrothermal treatment**

Rubia Eri Teruya<sup>1</sup>, Maria Cristina Rosifini Alves Rezende, Sandra Giacomini Schneider, Ana Paula Rosifini Alves Claro; <sup>1</sup>Faculdade de Engenharia de Guaratingueta

**SP3-D167 - Influence Of Current Of Welding In Constitutionals Diagrams, Microstructure And Microhardness.**

Diogo Rocha de Castro<sup>1</sup>, Arildomar Peixoto, Eduardo Magalhães Braga, Tércio Santos Cabral, Everton Maciel Mendonça; <sup>1</sup>Universidade Federal do Pará

**SP3-D168 - Evaluation Of Microhardness On Quenching And Tempering Sae 1045 Steel**

Diogo Rocha de Castro<sup>1</sup>, Everton Maciel Mendonça, Tércio Santos Cabral, Eduardo Magalhães Braga, Aline Moreira; <sup>1</sup>Universidade Federal do Pará

**SP3-D169 - Electrochemical and Morphological Analysis on the Titanium Surface Modified by Shot Blasting and Anodic Oxidation Processes**

Eduardo Mioduski Szesz, Bruno Leandro Pereira, Claudia Marino, Paulo Cesar Soares, Neide Kazue Kuromoto

**SP3-D170 - Structural analysis of plasma nitrated AISI 316 steel samples: synchrotron radiation and scanning electron microscopy**

Marcelo de Almeida Carvalhal<sup>1</sup>, Mariana Zicari Di Monte, Antonio Augusto Couto, Juan Alfredo Guevara Carrió, Jan Vataavuk; <sup>1</sup>Universidade Presbiteriana Mackenzie

**SP3-D171 - Detection of phenolic compounds using PPID/Tyrosinase FET-based devices**

Reginaldo Aparecido Ferreira, Nirton C. S. Vieira, André Brisolari<sup>1</sup>, Francisco E.g. Guimaraes<sup>2</sup>, Alvaro A A de Queiroz; <sup>1</sup>Instituto de Física de São Carlos, <sup>2</sup>Universidade de São Paulo - Instituto de Física de São Carlos

**SP3-D172 - Surface analysis of Ti-30Ta alloy - an in vitro study**

Maria Isabel Eboli Kimaid<sup>1</sup>, Ana Lucia do Amaral Escada<sup>2</sup>, João Paulo Barros Machado, Sandra Giacomini Schneider, Ana Paula Rosifini Alves Claro; <sup>1</sup>Faculdade de Engenharia de Guaratingueta, <sup>2</sup>Universidade Estadual Paulista - Guaratingueta

**SP3-D173 - Microstructure and microanalysis of biocorroded of AISI 4340 steel**

Sabrina Moura Rovetta<sup>1</sup>, Antonio Jorge Abdalla, Sônia Khouri, Walter Miyakawa; <sup>1</sup>Instituto de Estudos Avançados

**SP3-D174 - Comparative testing of wear in the aluminum-silicon alloy in presence of diesel and biodiesel**

Carlos Alexandre Dos Santos<sup>1</sup>, Josué Verdi, Sérgio Barbosa Rahde, Ronaldo Silvestre da Costa; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul

**SP3-D175 - Oxidation resistance of a Nb-Si-B alloy coated by Fe, Cr, Si and B through Halide Activated Pack Cementation process**

Renan de Freitas Gral, Douglas Vanderley Nanes Schmidt, Fernando Graber, Antonio Augusto Araujo Pinto Silva, Alvaro Guilherme Junqueira Santos, Carlos Angelo Nunes, Gilberto Carvalho Coelho

**SP3-D176 - Hardening in low carbon steels through solar cookers concentration as alternative energy source**

Salomão Sávio Batista, Luis Guilherme Meira de Souza, Janaína Karla de Medeiros Penha, Mozer de Meneses Mozer Meneses<sup>1</sup>, Marcos Inácio da Rocha, Raimison Bezerra de Assis<sup>1</sup>; <sup>1</sup>Universidade Federal do

Rio Grande do Norte

**SP3-D177 - Si-DLC growth on metallic substrates by PECVD**

Pedro Santana Teixeira, Divani Carvalho Barbosa, Evaldo José Corat, Vladimir José Trava-Airoldi, Márcio Celso Fredel, Patricia R P Barreto<sup>1</sup>; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais

## SYMPOSIUM E

### Materials with Negative Properties / 8th International Workshop on Auxetic & Related Materials

#### Chairs

Bojan Marinkovic (PUC-Rio)

Antonio Gomes Souza Filho (UFC, Fortaleza)

Douglas Soares Galvão (UNICAMP, Campinas)

Angus Wilkinson (School of Chemistry and

Biochemistry, Georgia Institute of Technology, USA)

## ORAL PRESENTATIONS

\* Invited Lecture

### WEDNESDAY, SEPTEMBER 28TH

#### SESSION E6

**09:30 - 10:30 - Room 13**

**09:30 - E6.1\***

**Thermal expansion, compressibility, phase transitions and local structure of materials with a "ReO3" structure**

Angus Paul Wilkinson<sup>1</sup>, Cody Morelock, Benjamin Greve, Leighanne Gallington, Karena Chapman, Peter Chupas; <sup>1</sup>Georgia Institute Of Technology

**10:00 - E6.2\***

**Thermal Expansion Behavior of Porous Inorganic Materials: A Comparative Study of Small and Medium Pore Zeolites and Pharmacosiderites**

Deu Soudagar Bhange

#### SESSION E7

**11:00 - 12:30 - Room 13**

**11:00 - E7.1\***

**Constraint induced materials of negative Poisson's ratio**

Krzysztof Witold Wojciechowski<sup>1</sup>; <sup>1</sup>Institute Of Molecular Physics, Polish Academy Of Sciences  
**11:30 - E7.2\***

**Negative poisson's ratio in a wide range of densities**  
Sócrates de Oliveira Dantas<sup>1</sup>, Douglas Soares Galvão, Ray H. Baughman, Vitor Rafael Coluci; <sup>1</sup>Universidade Federal de Juiz de Fora

**12:00 - E7.3\***

**Materials and structures with anomalous 'negative' thermo-mechanical behaviour**  
Joseph N. Grima

### SESSION E8

**15:00 - 16:00 - Room 13**

**15:00 - E8.1\***

**Effect of pressure on selected negative thermal expansion materials**

Paulo de Tarso Cavalcante Freire, Waldeci Paraguassu<sup>1</sup>, Antonio Gomes Souza Filho, Francisco Erivan Melo, Josue Mendes-Filho, Miroslaw Maczka, Jerzy Hanuza; <sup>1</sup>Universidade Federal do Pará

**15:30 - E8.2**

**Synthesis and investigation of mixed molybdate compounds as low (positive and negative) thermal expansion materials**

Kimberly J Miller<sup>1</sup>, Mary Anne White, Bojan Marinkovic<sup>2</sup>, Monica Ari; <sup>1</sup>Dalhousie University, <sup>2</sup>Pontifícia Universidade Católica do Rio de Janeiro

**15:45 - E8.3**

**On the effect of negative Poisson's ratio in contact properties**

Nizar Aouni<sup>1</sup>, Peter Wriggers, Roger Sauer; <sup>1</sup>Institute Of Continuum Mechanics, Hannover Leibniz University

### THURSDAY, SEPTEMBER 29TH

#### SESSION E9

**09:30 - 10:30 - Room 13**

**09:30 - E9.1\***

**Far Infrared Negative Refraction and Slab Lensing Effects from Natural Crystals**

Thomas Dumelow<sup>1</sup>, Rízia Rodrigues da Silva, Rair Macêdo da Silva, Renato Estevâm da Silva, José Alzamir Pereira da Costa, Sara Braga Honorato, Alejandro Pedro Ayala; <sup>1</sup>Universidade do Estado do Rio Grande do Norte

**10:00 - E9.2\***

**Negative thermal expansion materials and pressure-induced amorphization**

Claudio Antonio Perotoni<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul

## POSTER PRESENTATIONS

### WEDNESDAY, SEPTEMBER 28TH

#### SESSION SP3

**16:00 - 18:00 - Exhibition Hall**

**SP3-E1 - Minimum optical path length at negative index of refraction.**

Aguinaldo Robinson de Souza<sup>1</sup>, Edvaldo Lima da Silva; <sup>1</sup>Universidade Estadual Paulista "júlio de Mesquita Filho"

**SP3-E2 - Crystal Structure and Thermal Expansion of Monoclinic Al<sub>2</sub>Mo<sub>3</sub>O<sub>12</sub> from 10K to 450K**

Bojan Marinkovic<sup>1</sup>, Roberto R de Avillez<sup>1</sup>, Monica Ari, Luciana Prates Prisco<sup>1</sup>, Fernando Rizzo; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro

**SP3-E3 - Low Temperature Synthesis of Nanometric Negative Thermal Expansion Al<sub>2</sub>Mo<sub>3</sub>O<sub>12</sub> Phase by the Sol-Gel Process Using PVA**

Luciana Prates Prisco<sup>1</sup>, Bojan Marinkovic<sup>1</sup>, Fernando Rizzo; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro

**SP3-E4 - Luminescence and phonon properties of nanocrystalline Al<sub>2</sub>(WO<sub>4</sub>)<sub>3</sub>:Cr<sup>3+</sup> prepared by co-precipitation method**

Miroslaw Robert Maczka, Velin Nikolov, Krzysztof Hermanowicz, Maciej Ptak, A Yordanova, Waldeci Paraguassu<sup>1</sup>, Jerzy Hanuza; <sup>1</sup>Universidade Federal do Pará

**SP3-E5 - Evidence of H<sub>2</sub>O transparency to 2.45 GHz microwaves by a modification of its phase.**

Julio Flemming<sup>1</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP3-E6 - All-Angle Negative Refraction in Antiferromagnets at Terahertz Frequencies**

Rair Macêdo da Silva, Renato Estevâm da Silva, Thomas Dumelow<sup>1</sup>, José Alzamir Pereira da Costa; <sup>1</sup>Universidade do Estado do Rio Grande do Norte

**SP3-E7 - Auxetic Properties of Carbon Nanotube Sheets**

Vitor Rafael Coluci, Lee J. Hall, Mikhail E. Kozlov, Mei Zhang, Sócrates de Oliveira Dantas<sup>1</sup>, Douglas Soares Galvão, Ray H. Baughman; <sup>1</sup>Universidade Federal de Juiz de Fora

**SP3-E8 - Auxetic to non-auxetic transition in**



**porous carbon networks**

Pedro Alves Autreto, Vitor R Coluci, Douglas Soares Galvão

**SP3-E9 - Modelling of liquid crystalline polymers with anomalous mechanical properties**

Joseph N. Grima, Anselm C Griffin

**SP3-E10 - On the auxeticity of zeolites and aluminophosphates**

Joseph N. Grima

**SP3-E11 - Transmission Spectra for TE and TM Waves in Peel's Photonic Multilayers with Negative Refractive Index**

Carlos Humberto Oliveira Costa, Edi Rozembergh Brasileiro da Silva Brandão<sup>1</sup>, Manoel Silva de Vasconcelos, Eudenilson Lins de Albuquerque; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SYMPOSIUM F**

**Nanostructured Functional Materials for Advanced Energy and Environmental Applications**

Chairs

Harry L. Tuller (Department of Materials Science and Engineering, Massachusetts Institute of Technology, USA)

Reginaldo Muccillo (Center of Science and Technology of Materials, Energy and Nuclear Research Institute S. Paulo)

**ORAL PRESENTATIONS**

\* Invited Lecture

**MONDAY , SEPTEMBER 26TH**

**SESSION F1**

**09:30 - 10:30 - Room 02**

**09:30 - F1.1\***

**Towards the next generation of solid oxide fuel cells based on chemically stable proton conducting oxides**

Enrico Traversa

**10:00 - F1.2**

**Application of electrophoretic deposition in preparation of LaMnO<sub>3</sub> based cathode-supported solid oxide fuel cells**

Goran Brankovic<sup>1</sup>, Ivana Krkljus, Zorica Brankovic; <sup>1</sup>Instituto de Química Unesp

**10:15 - F1.3**

**Study of the cathodic reaction of LSCF films for IT-SOFCs**

Daniel Marinha<sup>1</sup>, Elisabeth Djurado, Laurent

Dessemond; <sup>1</sup>Universidade Federal de Santa Catarina

**SESSION F2**

**11:00 - 12:30 - Room 02**

**11:00 - F2.1\***

**Recent Advances to Prepare Hematite Ceramics Thin Films for Photoelectrochemical Water Splitting**

Edson Roberto Leite

**11:30 - F2.2**

**Development of Hybrid CGO/YSZ Electrolyte Materials for Intermediate Temperature Solid Oxide Fuel Cells**

Renato P. Camata, Alex W. Skinner, Eric H.

Remington, Daniel Zanetti de Florio, Murilo Nicolau

**11:45 - F2.3**

**Electrical responses of Nanocrystalline Rare Earth Oxides synthesized by Composite Mediated Hydrothermal Method**

Ali Abdullah, Muhammad Anis-Ur -Rehman

**12:00 - F2.4**

**XRD and TEM investigation of disorder in irradiated and unirradiated quartz nanoparticles**

Igor Alessandro Silva Carvalho, Eduardo Perini

Muniz<sup>1</sup>, Fernando Soares Lameiras, Jose Roberto

Branco; <sup>1</sup>Universidade Federal do Espírito Santo

**12:15 - F2.5**

**Ion beam synthesis of PbSe nanocrystals in SOI substrates**

Zacarias Eduardo Fabrim<sup>1</sup>, F. Kremer, F. P. Luce,

Dario Ferreira Sanchez, Paulo F. P.

Fichtner<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SESSION F3**

**15:00 - 16:00 - Room 02**

**15:00 - F3.1**

**Nano Structured Material Prepared by Laser Ablation at the solid-liquid interface**

Walter Mendes de Azevedo, Diego L da Cunha,

Eronides Felisberto da Silva Jr, José Albino Aguiar

**15:15 - F3.2**

**Synthesis and optical characterization of water-soluble Mn-doped ZnS and ZnS:Mn/ZnS core-shell semiconductor nanocrystals**

John Fitzgerald Cury<sup>1</sup>, Livia Cristina de Souza Viol, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei

**15:30 - F3.3**

**Investigation of Transport Properties of Hydrogen and Sodium Titanate Nanotubes**

Diego Cb Alves, Brillian A Fernandes, Fabio C Fonseca, Andre S Ferlauto<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

**15:45 - F3.4**

**Electrochemistry assisted laser ablation in liquid : A general strategy for fabricating polyoxometalate nanostructures**

G.w. Yang<sup>1</sup>, P. Liu, Y. Liang, X.z. Lin; <sup>1</sup>Sun Yat-Sen University

## TUESDAY, SEPTEMBER 27TH

### SESSION F4

**09:30 - 10:30 - Room 02**

**09:30 - F4.1\***

**In-situ study of the crystal growth of a catalyst during its synthesis under hydrothermal conditions**

Rose-Noelle Vannier

**10:00 - F4.2**

**Titanate nanobelts-metallic nanoparticles nanocomposites for photo-catalytic applications**  
Ines Bracko<sup>1</sup>, Manca Logar, Boštjan Jančar, Danilo Suvorov; <sup>1</sup>Jozef Stefan Institute

**10:15 - F4.3**

**Photocatalytic conversion of NO<sub>x</sub> by TiO<sub>2</sub>-based nanomaterials and the effect of Anatase crystal morphology**

Bojan Marinkovic<sup>1</sup>, Marco Antonio Santos de Abreu, Edison Morgado Jr., Paula Mendes Jardim; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro

### SESSION F5

**11:00 - 12:30 - Room 02**

**11:00 - F5.1\***

**Challenges of PEM Fuel Cell Technology and the Brazilian Fuel Cell Program**

Marcelo Linardi

**11:30 - F5.2**

**Morphological Study of Nafion based Composites by Small Angle X-ray Scattering and Dielectric Spectroscopy**

Bruno Ribeiro Matos<sup>1</sup>, Alexandre José de Castro Lanfredi, Elisabete Inácio Santiago, Marcelo Linardi,

José Fernando Queiruga Rey, Fabio C Fonseca; <sup>1</sup>Instituto de Pesquisas Energéticas E Nucleares

**11:45 - F5.3**

**Carbon membrane for hydrogen separation**

Joel Santana do Nascimento<sup>1</sup>, Cristiano Piacsek Borges, Vera Maria Martins Salim; <sup>1</sup>Universidade Federal do Rio de Janeiro

**12:00 - F5.4**

**Anodic electrodeposition of Na<sup>+</sup> intercalated V<sub>2</sub>O<sub>5</sub> nanofibers and their evolution to high crystalline Na<sub>0.33</sub>V<sub>2</sub>O<sub>5</sub> nanorods**

Douglas Langie da Silva, Alexandre da Cas Viegas, Jose Javier Saez Acuña, Andre Avelino Pasa

**12:15 - F5.5**

**Synthesis of biocompatible colloidal gold nanoparticles by sputtering deposition onto castor oil**

Sergio Ribeiro Teixeira<sup>1</sup>, Jairton Dupont, Pedro Migowski, Adriano Friedrich Feil<sup>1</sup>, Heberton Wender; <sup>1</sup>Universidade Federal do Rio Grande do Sul

## WEDNESDAY, SEPTEMBER 28TH

### SESSION F6

**09:30 - 10:30 - Room 02**

**09:30 - F6.1\***

**Hollow and Porous Metal-Oxide Nanostructure Synthesized by Polymeric Templating Route, Application Toward Chemical Sensors**

Il-Doo Kim

**10:00 - F6.2**

**Gas sensing properties of SrTi<sub>1-x</sub>Fe<sub>x</sub>O<sub>3</sub> thin films**  
Valmor Roberto Mastelaro<sup>1</sup>, Sergio C Zilio, Khalifa Aguir, Jacques Guerin, François Flory, Luís Fernando da Silva<sup>2</sup>, Pedro Ivo Batistel Galiote Brossi Pelissari<sup>2</sup>; <sup>1</sup>Universidade de São Paulo - Eesc/ifsc/iqsc, <sup>2</sup>Physics Institute Of São Carlos

**10:15 - F6.3**

**Nanostructured Tungsten Trioxide thin films by Aqueous Chemical Growth: Structural, Optical and hydrogen sensing characteristics**

Bertrand Tumbain Sone, Malik Maaza

### SESSION F7

**11:00 - 12:30 - Room 02**

**11:00 - F7.1\***

**Quantum-confined metal oxide rods & dots nanostructures**

L. Vayssieres

**11:30 - F7.2**

**Unveiling the early stages of formation and growth of Ge nanoparticles with in situ, time-resolved Dispersive X-ray Absorption Spectroscopy (DXAS)**

Antonio Augusto Malfatti Gasperini, Flávio Garcia, Angelo Malachias, Gustavo de Medeiros Azevedo<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**11:45 - F7.3**

**Lithium Migration and Nanostructures of TiO<sub>2</sub> polymorphs**

Thiago Peixoto, Stephen Charles Parker, Mario Ernesto Valerio<sup>1</sup>, Corinne Arrouvel<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe

**12:00 - F7.4**

**Study of the evolution of structural and chemical properties of GeSi nanoparticles by combined synchrotron radiation techniques**

Angelo Malachias<sup>1</sup>, Antonio Augusto Malfatti Gasperini, Angelo Gobbi, Gustavo de Medeiros Azevedo<sup>2</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**12:15 - F7.5**

**Carbon nanotubes - metal porphyrin supramolecular complexes for the oxygen reduction reaction: Density functional calculations**

Walter Orellana<sup>1</sup>; <sup>1</sup>Universidad Andrés Bello

**SESSION F8**

**15:00 - 16:00 - Room 02**

**15:00 - F8.1**

**Titanate nanotube catalyst activated by hydrogen peroxide: structural modification, defect formation and catalytic properties**

Klaus Krambrock<sup>1</sup>, Eudes Lorençon, Frederico Dias Brandão, Renata Figueredo Martins, Mauricio Veloso Brant Pinheiro, Luiz Orlando Ladeira; <sup>1</sup>Universidade Federal de Minas Gerais

**15:15 - F8.2**

**Synthesis, characterization and photocatalytic activity of composites of TiO<sub>2</sub> and Zinc Phthalocyanine**

Paulo Dos Santos Batista<sup>1</sup>, Maria Rita de Cássia Santos, Danilo Rodrigues de Souza, Danielle Fernanda de Melo Oliveira, Marcela Dias França, Paulo Souza Muller Jr, Antonio Eduardo da Hora Machado; <sup>1</sup>Universidade Federal de Goiás

**15:30 - F8.3**

**Reduction of NO<sub>2</sub> in functionalized MWCNT for nanostructured biodevices**

Elaine Cavalcanti Rodrigues Vaz<sup>1</sup>, Marcelo Navarro, Petrus D'amorim Santa Cruz Oliveira; <sup>1</sup>Universidade

Federal de Pernambuco

**15:45 - F8.4**

**Antimicrobial activity of Nano ZnO and Pd doped Nano ZnO against fungi, Aspergillus and Candida**

Mohammad Akram Randhawa, Alhosain Jaber Alzahrani, Mohammad Ashraf Gondal

**POSTER PRESENTATIONS**

**MONDAY , SEPTEMBER 26TH**

**SESSION SP1**

**16:00 - 18:00 - Exhibition Hall**

**SP1-F1 - Nanostructural and optical properties of solar absorber surfaces type nickel-zinc deposited by E-beam evaporation and electroplating**

Ricardo Luiz Perez Teixeira, Daniel Correa Guamá, Renata Antoun Simão

**SP1-F2 - La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>-coated STS444 alloy by dip-coating process for metal supported SOFC**

Leandro da Conceição<sup>1</sup>, Laurent Dessemond, Elisabeth Djurado, Mariana M.v.m.

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

**SP1-F3 - Enhanced CO tolerance in PEM fuel cell using Pt - doped ceria electrocatalyst system.**

Eliana Maria Arico, Marcelo Linardi, Julio Nardenha

**SP1-F4 - Ce<sub>0.97</sub>Cu<sub>0.03</sub>O<sub>2</sub> nanocatalysts synthesized via microwave-assisted hydrothermal method: characterization and catalytic efficiency**

Vinícius Dantas Araújo<sup>1</sup>, Waldir Avansi, Heloysa M C Andrade, Elson Longo, Maria Ines Basso Bernardi; <sup>1</sup>Universidade de São Paulo

**SP1-F5 - Sintering Ce<sub>1-x</sub>Eu<sub>x</sub>O<sub>2-(x/2)</sub> electrolytes for Intermediate Temperature Solid Oxide Fuel Cells**

Ana Karolina Bezerra Souza, Antonio Eduardo Martinelli<sup>1</sup>, Amanda Lucena de Medeiros, Daniel Araujo de Macedo, Juliana Pivotto Nicodemo, Dulce Maria de Araujo Melo, Rubens Maribondo do Nascimento; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-F6 - Influence of silver on microstructure and photocatalytic activity of nanostructured flame-sprayed zinc oxide**

Rafael Hubert Silva<sup>1</sup>, Rafael Mello Trommer, Carlos Pérez Bergmann; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-F7 - Oxidation of Ethanol using**

**Nanostructured Materials Based on Pt, Sn and Ir, supported on High Surface Area Carbon**

Beatriz Anea<sup>1</sup>, Júlio César Martins da Silva, Rodrigo Fernando Brambila de Souza<sup>2</sup>, Mauro Coelho Dos

Santos; <sup>1</sup>Fundação Universidade Federal do Abc, <sup>2</sup>Universidade Federal do Abc

**SP1-F8 - Electrolyte and anode properties of lanthanum aluminate-based oxides for solid oxide fuel cells**

Taisa Eva Fuziger Gutierrez<sup>1</sup>, José Geraldo de Melo Furtado, Gisele Ezechiello da Silva, Rodrigo Dias, Roberto Furtado, Eduardo Torres Serra; <sup>1</sup>Electric Power Research Center

**SP1-F9 - Development and characterization of solid oxide fuel cell combined electrode-electrolyte membrane ceramic**

Juliana Mesquita de Andrade<sup>1</sup>, José Geraldo de Melo Furtado, Rodrigo Dias, Taisa Eva Fuziger Gutierrez<sup>1</sup>, Roberto Furtado, Eduardo Torres Serra; <sup>1</sup>Electric Power Research Center

**SP1-F10 - Development and characterization of anode-electrolyte bi-layers for ethanol powered solid oxide fuel cells**

José Geraldo de Melo Furtado<sup>1</sup>, Roberto Furtado, Taisa Eva Fuziger Gutierrez<sup>1</sup>, Gisele Ezechiello da Silva, Eduardo Torres Serra; <sup>1</sup>Electric Power Research Center

**SP1-F11 - Optical and structural properties of silver nanoparticles in borosilicate glasses**

Zélia Maria da Costa Ludwig<sup>1</sup>, Lucélia Celes Souza, Júlia Maria Giehl, Delvany Gomes de Castro<sup>1</sup>, Walter Maigon Pontuschka, Luiz Carlos Barbosa, Valdemir Ludwig; <sup>1</sup>Universidade Federal de Juiz de Fora

**SP1-F12 - Effect of Bi and Na on the electrical conductivity of chemically prepared gadolinia-doped ceria**

Eliana Navarro Dos Santos Muccillo<sup>1</sup>, Ana Lucia Horovistiz; <sup>1</sup>Energy And Nuclear Research Institute

**SP1-F13 - Improving the nanostructured anode/electrolyte interface for multi-fuel powered solid oxide fuel cells**

José Geraldo de Melo Furtado<sup>1</sup>, Roberto Furtado, Taisa Eva Fuziger Gutierrez<sup>1</sup>, Gisele Ezechiello da Silva, Eduardo Torres Serra; <sup>1</sup>Electric Power Research Center

**SP1-F14 - Heterogeneous photocatalysis of rhodamine B: influence of surfactant**

Helinando Pequeno de Oliveira, José Joatan Rodrigues Jr., Elisângela Gomes de Lima Oliveira

**SP1-F15 - Nanocrystalline Hydrous Zirconia from Zirconium Tungstate**

Luciana Muller Somavilla<sup>1</sup>, Janete Eunice Zorzi, Giovanna Machado, Gustavo Roberto Ramos, Cintia Gomes de Amorim, Claudio Antonio Perottoni<sup>1</sup>; <sup>1</sup>Universidade de Caxias do Sul

**SP1-F16 - Nanocomposites of PPy-TiO<sub>2</sub>: synthesis and characterization**

Helinando Pequeno de Oliveira, Ariadne Helena P. de Oliveira

**SP1-F17 - Synthesis of vanadium nitrides (VN) by a low temperature route: promising materials as the substitute for the Pt metal group**

Eugenio Furtado Souza<sup>1</sup>, Carlos Alberto Chagas Jr., Teodorico Castro Ramalho, Ricardo Bicca Alencastro; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP1-F18 - Photocatalytic depolluting performance of novel commercial TiO<sub>2</sub> nanopowders**

Bojan Marinkovic<sup>1</sup>, Juliana Viol, Yann Fredholm, Mariana Souza Fortes, Roberto Pires Silveira, Tatiane Militão; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro

**SP1-F19 - Effect of the microwave hydrothermal synthesis on the structural, morphological properties of perovskite bismuth ferrite nanoparticle**

Glenda Biasotto<sup>1</sup>, Alexandre Z. Simões, Cesar Foschini, Maria Aparecida Zaghete<sup>2</sup>, Elson Longo, José Arana Varela<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Instituto de Química de Araraquara-Unesp, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-F20 - Nanocrystalline ZnO thin films prepared by different chemical techniques**

Ariadne Cristina Catto<sup>1</sup>, Luís Fernando da Silva<sup>2</sup>, Maria Ines Basso Bernardi, Paulo Noronha Lisboa-Filho; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Bauru, <sup>2</sup>Physics Institute Of São Carlos

**SP1-F21 - Pressure-induced amorphization in Dy<sub>2</sub>Mo<sub>4</sub>O<sub>15</sub>**

Waldecy Paraguassu, Mirosław Robert Maczka, Antonio Gomes Souza Filho, Paulo de Tarso Cavalcante Freire, J Mendes Filho, Jerzy Hanuza

**SP1-F22 - Co/Mn-doped ZnO for photocatalytic degradation of Rhodamine B (RhB).**

Georgia Virginia da Fonseca Santos, Marcella Auxiliadora de Melo Lucena<sup>1</sup>, Caue Ribeiro de Oliveira, Tania Regina Giraldi<sup>2</sup>, Ingrid Tavora Weber; <sup>1</sup>Universidade Federal de

Pernambuco, <sup>2</sup>Universidade Federal de Alenas

**SP1-F23 - Oxidation of Small Organics Molecules Mixtures on PtCeO<sub>2</sub>/C**

Rodrigo Fernando Brambila de Souza<sup>1</sup>, Júlio César Martins da Silva, Melina D'villa-Silva, Fernando Carmona Simões, Almir Oliveira Neto, Mauro C Santos; <sup>1</sup>Universidade Federal do Abc

**SP1-F24 - Synthesis Studies of Mesoporous ZrO<sub>2</sub> Materials**

Rebeca Bacani<sup>1</sup>, Marcia Carvalho de Abreu Fantini<sup>2</sup>, Tereza Silva Martins; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Física da Universidade de São Paulo

**SP1-F25 - Synthesis of Palladium Nanoparticles**

Everton Carlos Gomes<sup>1</sup>, Maria Auxiliadora Silva de Oliveira; <sup>1</sup>Instituto Tecnológico de Aeronáutica

**SP1-F26 - Metal-Organic Framework for Ibuprofen Adsorption in Wastewater Treatment**

Amanda Lima Barros<sup>1</sup>, Kaline Amaral Wanderley, Severino Alves Junior, Gilberto Fernandes Sá; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-F27 - Synthesis and application of vanadium nanostructured material for electro-synthesis of hydrogen peroxide**

Andre Moraes<sup>1</sup>, Mônica Helena Marcon Teixeira Assumpção, Rodrigo Fernando Brambila de Souza<sup>1</sup>, Robson Silva Rocha, Marcelo Luiz Calegario, Marcos Roberto de Vasconcelos Lanza, Mauro C Santos; <sup>1</sup>Universidade Federal do Abc

**SP1-F28 - Synthesis and characterization of Ni/C and NiFe/C as electro-catalysts for glycerol oxidation in alkaline media**

Vanessa Luciane Oliveira<sup>1</sup>, Germano Tremilios-Filho; <sup>1</sup>Universidade de São Paulo - Instituto de Química de São Carlos

**SP1-F29 - Spectroscopic properties of erbium doped soda lime silica glasses**

Zélia Maria da Costa Ludwig<sup>1</sup>, Aruã Menezes de Aguiar, Júlia Maria Giehl, Walter Maigon Pontuschka, Maria José Valenzuela Bell, Aruã Menezes de Aguiar, Victor Hugo de Oliveira; <sup>1</sup>Universidade Federal de Juiz de Fora

**SP1-F30 - Effect of Zirconia Content on Nanostructure and Properties of Sol-Gel derived Proton-Conducting Zirconia-SPEEK Hybrid Membranes for Direct Alcohol Fuel Cells.**

Florêncio Gomes de Ramos Filho<sup>1</sup>, Karim Dahmouche, Ailton de Souza Gomes, Izamir Rezende Junior, Carla Akimi Kawaguti; <sup>1</sup>Universidade Estadual da Zona Oeste

**SP1-F31 - Hydrothermal synthesis of Ti oxides - SnO<sub>2</sub> in nanometric sizes applied to the photodegradation of rhodamine B**

Henrique Aparecido de Jesus Loures Mourão, Waldir Avansi Junior, Carolina Moreira, Caue Ribeiro de Oliveira

**SP1-F32 - Metal doped carbon nanotube interacting with vitamin C: ab initio study**

Alisson Ronieri Cadore<sup>1</sup>, Vivian Machado de Menezes<sup>2</sup>, Solange Binotto Fagan, Jussane Rossato, Ivana Zanella da Silva<sup>2</sup>; <sup>1</sup>Centro Universitário Franciscano, <sup>2</sup>Universidade Federal de Santa Maria

**SP1-F33 - Alkali Hydrothermal Synthesis of Nanostructured Titanates from Brazilian Natural Ilmenite Sand**

Antonio Mario Leal Martins Costa<sup>1</sup>, Bojan Marinkovic<sup>1</sup>, Sidnei Paciornik<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro

**SP1-F34 - Raman microscopy investigation of structural disorder of progressive milled  $\gamma$ -irradiated quartz nanoparticles**

Igor Alessandro Silva Carvalho, Eduardo Perini Muniz<sup>1</sup>, Jose Roberto Branco; <sup>1</sup>Universidade Federal do Espírito Santo

**SP1-F35 - Obtaining of nanostructured carbon materials from biomass for adsorption of antibiotic.**

Juliana Schultz<sup>1</sup>, Sidnei Antonio Pianaro, Gino Capobianco; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP1-F36 - Nanocrystalization effect on optical properties of Eu<sup>+3</sup>-doped lead borosilicate glasses**

Sidney Alves Lourenço, Noelio Oliveira Dantas, Anielle Christine Almeida Silva, Acácio A Andrade, Edson Laureto

**SP1-F37 - Evaluation of the Influence of Different Nanoparticle Deposition Methods on Ceramic Filtering Structures for Low Cost and Low Pressure drop Filters**

Guillermo Van Erven Cabala<sup>1</sup>, Ilder Bastos Dos Santos, Wilson Acchar; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia da Bahia

**SP1-F38 - Thermoxidation kinetic studies of ferritic stainless steels for applications in fuel cells interconnectors**

Eduardo Etzberger Feistauer<sup>1</sup>, Elisiane Santana Chaves, Helder Prado Santos<sup>1</sup>, Matias Angelis Korb, Celia de Fraga Malfatti, Ledjane Silva Barreto; <sup>1</sup>Universidade Federal de Sergipe

**SP1-F39 - Application of carbon sheets/clay nanocomposites to remove organic contaminants**

Gabriela Borin Barin<sup>1</sup>, Thalita Santos Bispo<sup>1</sup>, Neftalí Lenin Villarreal Carreño, Iara de Fátima Gimenez, Ledjane Silva Barreto; <sup>1</sup>Universidade Federal de Sergipe

**SP1-F40 - Conducting Polymer-Based Nanocomposites**

Hugo Gajardoni de Lemos<sup>1</sup>, Alan Gustavo da Costa Felix, Alessandra Alves Correa, Everaldo Carlos Venancio; <sup>1</sup>Universidade Federal do Abc

**SP1-F41 - Photo-reactive reverse micelles for easy and clean synthesis of nanoparticles**

Gemima Barros Correia<sup>1,2</sup>, Rodrigo José de Oliveira, André Galembeck, Cid Bartolomeu de Araújo; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Pós-Graduação Em Ciência de Materiais

**SP1-F42 - Microwave-hydrothermal synthesis of ZnO nanorods: Structural and luminescence studies**

Ana Paula de Moura<sup>1</sup>, Renata Cristina de Lima, Máximo Sui Li Li, Elson Longo, José Arana Varela<sup>2</sup>; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-F43 - Evaluation of polymeric nanocomposites of layer silicates and polyethylene blends**

Camila Mariana de Oliveira Wolski<sup>1</sup>, Jessica Kimie Akishino, Mário Cabussu, Kleber Franke Portella, Dailton Pedreira Cerqueira, Paulo Cesar Inone, Marilda Munaro; <sup>1</sup>Instituto de Tecnologia Para O Desenvolvimento

**SP1-F44 - PVA membranes modified with silica for use in DMFC**

Liz Contino Vianna de Aguiar<sup>1</sup>, Raquel Duarte de Almeida, Florêncio Gomes de Ramos Filho<sup>2</sup>, Ailton de Souza Gomes; <sup>1</sup>Instituto de Macromoléculas Professora Eloisa Mano, <sup>2</sup>Universidade Estadual da Zona Oeste

**SP1-F45 - Corrosion protection of AA1050 by surface treatment with ceramic zirconium nanoparticles**

Wagner Izaltino Alves Santos, Jesualdo Luiz Rossi<sup>1</sup>, Isolda Costa<sup>1</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas E Nucleares

**SP1-F46 - HTPC electrolyte films deposited by RF-sputtering technique**

Milan Zunic<sup>1</sup>, Cesar Renato Foschini<sup>1,2</sup>, Mario Cilense<sup>3</sup>, Elson Longo, José Arana Varela<sup>4</sup>; <sup>1</sup>Instituto de Química, <sup>2</sup>Instituto de Química Araraquara - Unesp, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>4</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-F47 - Synthesis of Nanostructured Ce<sub>2</sub>(WO<sub>4</sub>)<sub>3</sub> and Evaluation of its Catalytic Activity for Methane Conversion**

Tiago Renovato<sup>1,2</sup>, André L.I Moriyama, Thalles Senna Diógenes, Carlson Pereira Souza, Djalma Ribeiro Silva, Christine Leroux, Madjid Arab; <sup>1</sup>Fundação Norte Riograndense de Pesquisa E Cultura Cnpj:08.469.280/0001 93, <sup>2</sup>Universidade Federal do Rio Grande do Norte

**SP1-F48 - Thermal and dc-ionic conductivity properties of a PEM based on**

**PVAL+H<sub>3</sub>PO<sub>2</sub> +Nafion®**

Maria Elena Fernández<sup>1</sup>, Julian Eduardo Castillo, Carlos Felipe Bedoya, Jesus Evelio Diosa, Paulo Roberto Bueno, Elsa Maria Materon, Rubén Antonio Vargas; <sup>1</sup>Universidad Del Valle

**SP1-F49 - Effect of High Heat Treatment Temperature on Photocurrent Density of Hematite Nanorods Thin Films**

Bruno Henrique Ramos de Lima<sup>1</sup>, Edson Roberto Leite, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos

**SP1-F50 - HgI<sub>2</sub> nanometer size nuclei obtained by the suspension method**

María Eugenia Pérez Barthaburu<sup>1</sup>, Laura Fornaro; <sup>1</sup>Universidad de La República

**SP1-F51 - Hydrothermal synthesis of BiI<sub>3</sub> nanoparticles**

Ivana Aguiar<sup>1</sup>, Heinkel Bentos Pereira, Laura Fornaro; <sup>1</sup>Universidad de La República

**SP1-F52 - Production of Nanoparticles by Spray Drying Technology**

Adriano Marim Oliveira, Natália Neto Pereira Cerize, Kleber Lanigra Guimarães, João Guilherme Rocha Poco

**SP1-F53 - Immobilization of cobalt(II) tetracarboxyphthalocyanine on aminofunctionalized kaolinite**

Tiago Honorato da Silva, Anderson Orzari Ribeiro<sup>1</sup>, Emerson Henrique de Faria, Katia Jorge Ciuffi<sup>2</sup>, Eduardo José Nassar, Marcio Luis Silva, Paulo Sérgio Calefi; <sup>1</sup>Universidade Federal do Abc, <sup>2</sup>Universidade de Franca

**SP1-F54 - Effect of ZnO in SnO<sub>2</sub>-based oxides obtained using hydrothermal microwave synthesis**

Danielle Berger, Evaldo Toniolo Kubaski, José Arana Varela<sup>1</sup>, Sergio Mazurek Tebcherani; <sup>1</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-F55 - Proton conductivity relaxation in the ADP-KDP-TiO<sub>2</sub> nanocomposites**

Jesús Roberto Castillo Chamorro<sup>1</sup>, Manuel Chacón, Rubén Antonio Vargas, Paulo Roberto Bueno; <sup>1</sup>Universidad Del Valle

**SP1-F56 - Obtainment of activated carbon fibers from biomass**

Luiz Cezar Lima<sup>1</sup>, Sergio Rodrigues Luz, Gino Capobianco, Sidnei Antonio Pianaro, Carlos Fernandes Granado; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP1-F57 - Study and application of Carbon**

**nanotubes**

Diogo Alexandre Hahn<sup>1</sup>, Eduardo Luis Schneider; <sup>1</sup>Universidade Feevale

**TUESDAY, SEPTEMBER 27TH**

**SESSION SP2**

**14:00 - 16:00 - Exhibition Hall**

**SP2-F58 - Influence of hydrothermal treatment conditions on the activity of Hydrotalcites Mg,Al-CO<sub>3</sub> in transesterification reaction of soybean oil.**

Natasha Figueiredo Coral, Patricia Magalhães Pereira<sup>1</sup>, Elizabeth Soares Rodrigues, José Roberto Zamian, Geraldo Narciso Filho, Carlos Emmerson Costa; <sup>1</sup>Universidade Federal do Pará

**SP2-F59 - The effect of kaolinite on the kinetics of styrene polymerization in emulsion**

José Costa Macedo<sup>1</sup>, Liliane M.f. Lona; <sup>1</sup>Universidade Estadual de Campinas

**SP2-F60 - Seeds effect on the ceramic varistor SnO<sub>2</sub>- based system**

Mario Cilense<sup>1</sup>, Miguel Angel Ramírez Gil, Cesar Renato Foschini<sup>2,3</sup>, Anderson André Felix, Elson Longo, José Arana Varela<sup>4</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Instituto de Química, <sup>3</sup>Instituto de Química Araraquara - Unesp, <sup>4</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-F61 - Study of the behavior of bulk carbon nanotubes at high pressure**

Pâmela Andréa Mantey Dos Santos<sup>1</sup>, Ivana Zanella da Silva<sup>2</sup>, Solange Binotto Fagan, Tania Maria Haas Costa<sup>2</sup>, Marcia Russman Gallas; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Centro Universitário Franciscano

**SP2-F62 - Effects of dimerization of anionic surfactants on the enhancement of fluorescence of rhodamine B and rhodamine 6G**

Ercleiton Rodrigues Macedo<sup>1,2</sup>, Helinando Pequeno de Oliveira; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco, <sup>2</sup>Instituto Federal de Educação, Ciência E Tecnologia do Sertão Pernambucano

**SP2-F63 - Use of gold nanoparticles dispersed on an organic matrix of castor oil for SERS application**

Lais Henrique Pacheco<sup>1</sup>, Sara Figueredo de A. Morais, Mario Roberto Meneghetti, Simoni Margareti Plentz Meneghetti; <sup>1</sup>Universidade Federal de Alagoas

**SP2-F64 - Study of platinum nanoparticles obtention by low-pressure plasma processes for in fuel cell application.**

Adir Jose Moreira<sup>1</sup>, Nelson Ordonez, Terezinha de

Jesus Andreoli Pinto, Ronaldo Domingues

Mansano; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP2-F65 - Thermomechanical Behavior of clay/epoxy nanocomposites**

Artur Soares Cavalcanti Leal, Zoroastro Torres Vilar, Carlos José de Araújo, Suédina Maria Lima Silva

**SP2-F66 - Synthesis of hexagonal close-packed nanocrystalline nickel by the thermal treatment of face-centered cubic nickel nanoparticles**

Eduardo Guilherme Civinidi Neiva<sup>1</sup>, Aldo J.g. Zarbin<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná

**SP2-F67 - Nickel nanoparticles as a glycerol sensor in alkaline medium**

Eduardo Guilherme Civinidi Neiva<sup>1</sup>, Aldo J.g.

Zarbin<sup>1</sup>, Luiz Humberto Marcolino Junior, Márcio

Fernando Bergamini; <sup>1</sup>Universidade Federal do Paraná

**SP2-F68 - CdTe Quantum Dots Grown by Seed-Assisted Microwave Method**

Raquel Milani<sup>1,2</sup>, Frederico Duarte Menezes, Severino Alves Junior, María de La Mata, Jordi Arbiol, Jose Albino Aguiar, Giovanna Machado; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste

**SP2-F69 - Characterization by DSC of polyamide66/bentonite clay nanocomposites membranes**

Keila Machado de Medeiros, Dayanne Diniz de Souza Morais<sup>1</sup>, Diego de Farias Lima, Edcleide Maria Araújo, Hélio Lucena Lira; <sup>1</sup>Federal University Of Campina Grande

**SP2-F70 - Characterization of organophilic clay to prepare polymeric nanocomposite membranes**

Paula Simone Soares de Medeiros, Elieber Barros Bezerra, Keila Machado de Medeiros, Edcleide Maria Araújo, Hélio Lucena Lira

**SP2-F71 - Electronic and structural properties of metal doped carbon nanotubes**

Alisson Ronieri Cadore<sup>1</sup>, Solange Binotto Fagan, Vivian Machado de Menezes<sup>2</sup>, Jussane Rossato, Ivana Zanella da Silva<sup>2</sup>; <sup>1</sup>Centro Universitário Franciscano, <sup>2</sup>Universidade Federal de Santa Maria

**SP2-F72 - Influence of environment and fuel ratio on urea combustion synthesis of La<sub>0,9</sub>Sr<sub>0,1</sub>MnO<sub>3</sub> powders**

Diego Pereira Tarragó<sup>1</sup>, Celia de Fraga Malfatti, Vânia Caldas de Sousa<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-F73 - Poly(vinylidene fluoride) - PVDF, fibrous films obtained by Solution Blow Spinning**

Luiz Francisco Malmonge<sup>1</sup>, Lincon Zadorosny, Eliton

Souto Medeiros<sup>2</sup>, José Antonio Malmonge; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira, <sup>2</sup>Universidade Federal da Paraíba

**SP2-F74 - Cyclic transformation in the morphology of titanate crystals associated to order-disorder degree of cluster self-assembled**

Agda Eunice Souza<sup>1</sup>, Gleyson Tadeu Almeida Santos, Paulo Eduardo Pedroso de Morais Filho<sup>2</sup>, Mário Lúcio Moreira, Diogo Paschoaline Volanti, Silvio Rainho Teixeira<sup>2</sup>, Elson Longo; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP2-F75 - Characterization of Strontium Titanate Synthesized by Microwave-Assisted Hydrothermal Method**

Paulo Eduardo Pedroso de Morais Filho<sup>1</sup>, Agda Eunice Souza<sup>2</sup>, Gleyson Tadeu Almeida Santos, Silvio Rainho Teixeira<sup>2</sup>, Luis Amaral, Ana Maria Rocha Senos, Elson Longo; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Fct-Unesp Campus de Presidente Prudente

**SP2-F76 - Microwave-Assisted Hydrothermal Method and Characterization of the Manganese Oxide Hausmannite-type**

Lycio Shinji Watanabe<sup>1</sup>, Agda Eunice Souza<sup>2</sup>, Celso Xavier Cardoso, Angela Sanches Tardivo Delben, Silvio Rainho Teixeira<sup>2</sup>, Elson Longo; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Fct-Unesp Campus de Presidente Prudente

**SP2-F77 - Ba<sub>1-x</sub>Ca<sub>x</sub>TiO<sub>3</sub> perovskite: limit for phase crystallization and anomalous behavior for samples with x = 0.75**

Agda Eunice Souza<sup>1</sup>, Gleyson Tadeu Almeida Santos, Paulo Eduardo Pedroso de Morais Filho<sup>2</sup>, Gilberto Campos Fuzari Junior, Walter Katsumi Sakamoto, Silvio Rainho Teixeira<sup>2</sup>, Elson Longo; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP2-F78 - Development of filters for clean water through the use of carbon nanotubes embedded in porous matrices.**

Mariane Cristina Schnitzler<sup>1</sup>, Daniel Aparecido da Silva Rodrigues, Patricia Alejandra Dutenhefner, Líniker Fabrício Souza; <sup>1</sup>Universidade Federal de Ouro Preto

**SP2-F79 - Electrical properties of polyphosphate/polyaniline hybrid materials**

Euzebio Skovroinski<sup>1</sup>, Rodrigo José de Oliveira, Aldo J.g. Zarbin<sup>2</sup>, André Galembeck; <sup>1</sup>Universidade Federal

de Pernambuco, <sup>2</sup>Universidade Federal do Paraná

**SP2-F80 - Catalytic activity of Palladium nanoparticles supported on carbon during NO decomposition**

Marcus Vinicius Castegnaro<sup>1</sup>, Alex Sandre Kilian, Jessica Alexandre, Maria do Carmo Martins Alves, Ione Maluf Baibich, Jonder Moraes; <sup>1</sup>Post-Graduation Course In Material Science

**SP2-F81 - A new synthesis route of doped barium zirconate nanoparticles**

Eduardo Souza, Reginaldo Muccillo

**SP2-F82 - Low temperature synthesis of zinc oxide nanoparticles**

Marivone Gusatti, Gilvan Sérgio Barroso, Carlos Eduardo Maduro Campos, Daniel Aragão Ribeiro Souza, Laura Abreu da Silva<sup>1,2</sup>, Nivaldo Cabral Kuhnen, Humberto Gracher Riella; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Depto. de Eng. Química E de Eng. de Alimentos

**SP2-F83 - Influence of cell wall charge state on enzymatic interaction during hydrolysis of cellulosic fibers studied by optical methodologies**

Vitor Carlos Coletta, Fernando Conceição, Danielli Galan, Igor Polikarpov, Francisco E.g. Guimaraes<sup>1</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos

**SP2-F84 - Hydrogen absorption in thin films composed by palladium and MoO<sub>3</sub> nanostructures**

Donovan Enrique Diaz-Droguett<sup>1</sup>, Rodrigo El Far, Alejandro Cabrera; <sup>1</sup>Pontificia Universidad Católica de Chile

**SP2-F85 - Adsorption of Triclopyr on Magnesium Aluminum Layered Double Hydroxide in different media.**

Priscilla de Cássia Ravagnani<sup>1</sup>, Leonardo Paulo Ribeiro da Silva, José Francisco Naime Filho, João Barros Valim; <sup>1</sup>Ffclrp - Universidade de São Paulo

**SP2-F86 - Optical response of carbon nanotubes functionalized noncovalently with porphyrins and phthalocyanines**

Julian David Correa<sup>1</sup>, Walter Orellana<sup>1</sup>; <sup>1</sup>Universidad Andrés Bello

**SP2-F87 - Photocatalytic Degradation of Polyethylene Films with TiO<sub>2</sub>-based nanomaterials under UV irradiation**

Bruna Maria da Cunha, Sidnei Paciornik<sup>1</sup>, Paula Mendes Jardim; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro

**SP2-F88 - Synthesis of SnOx aerogels for optoelectronic applications**

Cássio Roberto Almeida<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>,



Carlo Requião Cunha; <sup>1</sup>Universidade Federal de Santa Catarina

**SP2-F89 - Rice husk: potential raw material for the in situ generation of supported titania catalysts:**

**Effect of calcination temperature and time**

João Henrique Zimnoch Dos Santos<sup>1</sup>, César Augusto Porfirio Leão<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-F90 - Cell wall interaction versus Cellobiohydrolase I activity during enzymatic hydrolysis of cellulose: an optical methodology**

Fernando Rodrigues Conceicao, Francieli Colussi, Danielli Galan, Igor Polikarpov, Francisco Eduardo Gontijo Guimarães

**SP2-F91 - Influence of Surfactant Presence during Nanophosphor Aminofunctionalization in the Conjugation Protocol for Biological Assays**

Malon Larry Laranja<sup>1</sup>, João Paulo Gelamos, Sabrina Aléssio Camacho<sup>2</sup>, Ana Maria Pires<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP2-F92 - Structural modifications and defect formations in layered titanate nanostructures by different thermal treatments**

Klaus Krambrock<sup>1</sup>, Renata Figueredo Martins, Frederico Dias Brandão, Mauricio Veloso Brant Pinheiro, Ariete Righi, Eudes Lorençon, Luiz Orlando Ladeira; <sup>1</sup>Universidade Federal de Minas Gerais

**SP2-F93 - Optimization of charge transfer processes between luminescent polymers and TiO<sub>2</sub> based photovoltaic cells**

Gustavo Targino Valente<sup>1</sup>, Angelo Danilo Faceto, Francisco Eduardo Gontijo Guimarães; <sup>1</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**SP2-F94 - Study of copper oxide nanowires grown by resistive heating**

Denise Criado<sup>1</sup>, Philippi Greggi de Lima; <sup>1</sup>Universidade Federal do ABC

**SP2-F95 - Mechanical, thermal and transport properties of HDPE/LLDPE blend-based nanocomposites**

Fabio Roberto Passador<sup>1</sup>, Daniel Rocha Travain, Eduardo Henrique Backes, Ana Catarina Gomes, Adhemar Colla Ruvolo Filho, Luiz Antonio Pessan<sup>2</sup>; <sup>1</sup>Programa de Pós Graduação Em Ciência E Engenharia de Materiais da Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal de São Carlos

**SP2-F96 - Polymerizing agent effects in the synthesis, morphology, dielectric and ferroelectric properties of BaTiO<sub>3</sub> thin films**

Cesar Renato Foschini<sup>1,2</sup>, Anderson André Felix,

Diogo Paschoaline Volanti, Elson Longo, José Arana Varela<sup>3</sup>; <sup>1</sup>Instituto de Química, <sup>2</sup>Instituto de Química Araraquara -Unesp, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-F97 - Effects of annealing atmosphere on the electrical properties of CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> films prepared by RF magnetron sputtering**

Cesar Renato Foschini<sup>1,2</sup>, Ronald Tararam<sup>3</sup>, Alexandre Z. Simões, Elson Longo, José Arana Varela<sup>4</sup>; <sup>1</sup>Instituto de Química, <sup>2</sup>Instituto de Química Araraquara -Unesp, <sup>3</sup>Chemistry Institute Of Araraquara, <sup>4</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-F98 - Photoluminescence Quenching Control in Quantum Dot-Carbon Nanotube composites**

Kayo Oliveira Vieira, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei

**SP2-F99 - Tin dioxide nano-structured powders for use in dye-sensitized solar cells**

Eder Carlos Ferreira de Souza<sup>1</sup>, Augusto Celso Antunes, André Vitor Chaves de Andrade<sup>1</sup>, Sandra Regina Masetto Antunes, Christiane Philippini Ferreira Borges; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP2-F100 - Influence of layer thickness and annealing time in the microstructure of TiO<sub>2</sub> films for dye sensitized solar cells**

Guilherme Forbeck<sup>1</sup>, Marilena Valadares Folgueras, Adilson Luiz Chinelatto; <sup>1</sup>Fundação Universidade do Estado de Santa Catarina

**SP2-F101 - Effect of silane treatment on the rheological and dynamic mechanical properties of PA6/HNT nanocomposites**

Juliano Marini<sup>1</sup>, Rosario Elida Suman Bretas; <sup>1</sup>Universidade Federal de São Carlos

**SP2-F102 - CdTe nanocrystals embedded in Silica Aerogel**

Douglas Tambani Flores<sup>1</sup>, Carlos Renato Rambo<sup>1</sup>, Carlo Requião Cunha; <sup>1</sup>Universidade Federal de Santa Catarina

**SP2-F103 - Obtaining High Purity Neodymium Acetate From Mixed Rare Earths Carbonate**

Carlos Alberto da Silva Queiroz<sup>1</sup>, Soraya Maria Rizzo da Rocha, Walter Dos Reis Pedreira Filho, Raquel de Moraes Lobo, Mari Estela de Vasconcellos, José Antonio Seneda; <sup>1</sup>Instituto de Pesquisas Energéticas E Nucleares

**SP2-F104 - The use of natural rubber membranes with nanoparticles of gold and silver in the control of cutaneous leishmaniasis**

Carlos Gomes Barboza-Filho<sup>1</sup>, Flávio Camargo

Cabrera<sup>2</sup>, Caroline Silva Danna, Aldo Eloizo Job; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP2-F105 - Kinetic and equilibrium studies on the removal of Remazol Turquoise Blue G-133 from aqueous solution by adsorption onto CdS/MPS nanocomposites.**

Silvânio Silvério Lopes da Costa<sup>1</sup>, Cintya D'angeles do Espírito Santo Barbosa, George Ricardo Santana Andrade<sup>2</sup>, Cristiane da Cunha Nascimento, Carlos Alexandre Borges Garcia; <sup>1</sup>Universidade Federal de Alagoas, <sup>2</sup>Universidade Federal de Sergipe

**SP2-F106 - Calcium and barium titanate interfering with the metabolism of promastigotes that cause cutaneous leishmaniasis**

Carlos Gomes Barboza-Filho<sup>1</sup>, Agda Eunice Souza<sup>2</sup>, Silvio Rainho Teixeira<sup>2</sup>, Aldo Eloizo Job; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, <sup>2</sup>Fct-Unesp Campus de Presidente Prudente

**SP2-F107 - Preparation and characterization of CdS:Cu/MPS nanocomposites**

George Ricardo Santana Andrade<sup>1</sup>, Cristiane da Cunha Nascimento, Erick Cerqueira Das Neves<sup>1</sup>, Iara de Fátima Gimenez; <sup>1</sup>Universidade Federal de Sergipe

**SP2-F108 - Selective toxicity for human nanoparticles of silver and gold when associated with natural rubber**

Carlos Gomes Barboza-Filho<sup>1</sup>, Caroline Silva Danna, Flávio Camargo Cabrera<sup>2</sup>, Aldo Eloizo Job; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP2-F109 - Studies on photodegradation of rhodamine 6G in aqueous phase using CdS/MMT(thiol) nanocomposites.**

George Ricardo Santana Andrade<sup>1</sup>, Cristiane da Cunha Nascimento, Erick Cerqueira Das Neves<sup>1</sup>, Iara de Fátima Gimenez; <sup>1</sup>Universidade Federal de Sergipe

**SP2-F110 - TiO<sub>2</sub> nanoparticle solid electrode for photocatalysis.**

Gabriela Byzynski Soares, Thomas Schmidt, Ivo Hermans, Caue Ribeiro de Oliveira

**SP2-F111 - Enhanced photocatalytic efficiency: TiO<sub>2</sub> supported on silica.**

Margaret Dawson, Gabriela Byzynski Soares, Caue Ribeiro de Oliveira

**SP2-F112 - Photocatalytic activity of TiO<sub>2</sub> nanoparticles prepared via two different synthesis methods**

Vojka Zunic, Sreco Davor Skapin, Andrijana Sever

Skapin, Danilo Suvorov

**SP2-F113 - Morphology and properties of Polyamide 6/Montmorillonite Nanocomposites**

Amanda Dantas Oliveira<sup>1</sup>, Nelson M. Larocca, Luiz Antonio Pessan<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos

**SP2-F114 - Vanadium pentoxide nanostructures: optical properties and visible-light photocatalytic performance**

Waldir Avansi, Vagner Romito Mendonça, Lauro June Queiroz Maia, Caue Ribeiro de Oliveira, Elson Longo, Valmor Roberto Mastelaro<sup>1</sup>; <sup>1</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**SP2-F115 - Analysis of the Spontaneous Polarization in Highly Non-stoichiometric Ni-Doped Sodium Strontium Niobate Powder: an Approach from Structural Data**

Caroline Polini<sup>1</sup>, Diego Henrique Moreli de Gênova<sup>2</sup>, Alan Rogério Ferreira Lima<sup>3</sup>, Marcos Augusto de Lima Nobre, Sylvania Lanfredi<sup>4</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>Fct-Unesp Campus de Presidente Prudente, <sup>3</sup>Universidade Federal de São Carlos, <sup>4</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP2-F116 - Optimization of synthesis of spinel-type lithium manganese oxide by Microwave-Assisted Hydrothermal Method**

Diego Noé David Parra, Agda Eunice Souza<sup>1</sup>, Silvio Rainho Teixeira<sup>1</sup>, Marcos Fernando de Souza Teixeira; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente

**SP2-F117 - Preparation of rubber powder by spray-drying of rubber lattices**

Lucilene Betega de Paiva<sup>1</sup>, Adriano Marim Oliveira, Renato Rosafa Gavioli; <sup>1</sup>Instituto de Pesquisas Tecnológicas do Estado de São Paulo

**SP2-F118 - Adsorption of Reactive Blue 4 dye from water solutions by Carbon Nanotubos**

Fernando Machado Machado<sup>1</sup>, Carlos Pérez Bergmann, Éder Cláudio Lima, Betina Royer, Solange Binotto Fagan; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-F119 - Enhanced photoluminescence response from aged Sn<sup>+</sup> ion implanted silica films**

F. Kremer, R. C. Lang, F. P. Luce, Z. E. Fabrim, Dario Ferreira Sanchez, F. C. Zawislak, P. F.p. Fichtner

**SP2-F120 - Preparation and characterization of cadmium sulfide quantum dots supported on a thiolated bentonite.**

Erick Cerqueira Das Neves<sup>1</sup>, George Ricardo Santana Andrade<sup>1</sup>, Cristiane da Cunha Nascimento, Iara de Fátima Gimenez; <sup>1</sup>Universidade Federal de Sergipe

**SP2-F121 - Synthesis of**

**TiO<sub>2</sub>/WO<sub>3</sub> heterostructures by the oxidant peroxide method (OPM)**

Isabela Alves Castro, Waldir Avansi Junior, Vagner Romito Mendonça, Caue Ribeiro de Oliveira

**SP2-F122 - Y<sub>2</sub>O<sub>3</sub> transparent ceramics via sintering two-step in a vacuum**

Alan Rodrigo Marinho Gualberto<sup>1</sup>, Adriane Damasceno de Souza, Elderson Cássio Domenicucci, Luis Carlos Caraschi, Manoel Ricardo Roncon, Antonio Carlos Hernandez<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos, <sup>2</sup>Universidade de São Paulo

**SP2-F123 - Engineering Functional Optical-Gap in K<sub>2</sub>Sr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> Nanostructured Powder: An Approach Based on the Lattice-Strain Modulation**

Diego Henrique Moreli de Gênova<sup>1</sup>, Eliane Ayumi Namikuchi, Silvania Lanfredi<sup>2</sup>, Marcos Augusto de Lima Nobre; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP2-F124 - Zinc oxide containing bacterial cellulose membranes**

Mariana Zaghete Bertochi<sup>1</sup>, Maria Aparecida Zaghete<sup>2</sup>, Carolina Bellão, Edison Pecoraro, Maristela Perez, Sidney José Lima Ribeiro, Younes Messaddeq; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Instituto de Química de Araraquara-Unesp

**SP2-F125 - Recent Advances on the Theoretical Analysis of the Polarization Phenomenon in Niobate Ferroelectric: a Trivial Tools For Niobium off-center Magnitude Determination**

Diego Henrique Moreli de Gênova<sup>1</sup>, Eliane Ayumi Namikuchi, Caroline Polini<sup>2</sup>, Silvania Lanfredi<sup>3</sup>, Marcos Augusto de Lima Nobre; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista, <sup>3</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP2-F126 - Crystallographic and electrochemical characterization of lithium manganese oxides synthesized by Modified Pechinni method**

Bianca Akemi Kawata<sup>1</sup>, Alexandre Urbano<sup>1</sup>, Jair Scarminio, Luciana Gomes Chagas, Paulo Rogério Catarini, Antonio Alfaya; <sup>1</sup>Universidade Estadual de Londrina

**SP2-F127 - Creation of metal micro and nanoparticles using discharge arc immersed in liquid**

Bernabe Rebollo Plata, Nicolas Ortega Miranda, Fernando Bravo Barrera, Ramon Madrid Garcia, Gabriela Gallardo Gomez, Miguel Angel Guzman Altamirano, Javier Gustavo Cabal Velarde

**WEDNESDAY, SEPTEMBER 28TH**

**SESSION SP3**

**16:00 - 18:00 - Exhibition Hall**

**SP3-F128 - Microwave-assisted hydrothermal synthesis of iron oxide nanoparticles**

Antonia Alice Macêdo Soares<sup>1</sup>, Ana Cláudia Araújo, Walter Mendes de Azevedo, Severino Alves Júnior; <sup>1</sup>Universidade Federal de Pernambuco

**SP3-F129 - Colloidal iron immobilized in clay used in dye degradation by photo-Fenton process**

Giancarlo Melchior do Prado<sup>1</sup>, Fauze Jacó Anaissi<sup>2</sup>, Juan Carlo Villalba, Sérgio Toshio Fujiwara; <sup>1</sup>Universidade Estadual do Centro Oeste, <sup>2</sup>Universidade Estadual do Centro Oeste do Paraná

**SP3-F130 - Influence of pH and temperature on the photostability of water-soluble ZnS and ZnS:Mn semiconductor nanocrystals**

John Fitzgerald Cury<sup>1</sup>, Livia Cristina de Souza Viol, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei

**SP3-F131 - Enhancement of the charge-storage capacity of nanostructured polymeric electrodes**

Luana Lacy Mattos, Viviane Zurdo Costa<sup>1</sup>, Maria Luisa Sartorelli<sup>1</sup>, Françoise Toledo Reis; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-F132 - Thermophysical properties of boron nitride nanotubes**

Rafael Furquim Werneck Marinho<sup>1</sup>, Edésia Martins Barros de Sousa<sup>1</sup>, Tiago Hilário Ferreira<sup>1</sup>, Anderson Augusto Freitas<sup>1</sup>, Ricardo Alberto Neto Ferreira; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP3-F133 - low-field nmr study and effect of the crystallinity of the eva/TiO<sub>2</sub>/Nb<sub>2</sub>O<sub>5</sub> nanocomposites**

Ana Cláudia da Silva Valentim<sup>1</sup>, Maria Inês Tavares, Emerson Oliveira Silva<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Instituto de Macromoléculas Professora Eloisa Mano

**SP3-F134 - Nano-structured films of SnO<sub>2</sub> obtained by the sol gel technique**

Rodrigo Szostak<sup>1</sup>, Eder Carlos Ferreira de Souza<sup>1</sup>, Sandra Regina Masetto Antunes, Christiane Philippini Ferreira Borges, André Vitor Chaves de Andrade<sup>1</sup>, Paulo Rogério Pinto Rodrigues, Augusto Celso Antunes; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP3-F135 - Formation Of Monodisperse Silica Nanospheres And Films**

Flávia Valério Esteves Dos Reis<sup>1</sup>, Bruna Bergamin<sup>2</sup>, Roberto Bertholdo, Sandra Helena Pulcinelli<sup>3</sup>, Celso

Valentim Santilli<sup>4</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Instituto de Química Unesp, <sup>3</sup>Chemistry Institute Of Araraquara, <sup>4</sup>Universidade Estadual Paulista - Araraquara

**SP3-F136 - Study of preparation of self-ordered anodic porous alumina**

Rafael Lopes de Souza<sup>1</sup>, Jaqueline Alves Almeida, Elisa Marchezni Rodrigues, Maximiliano Delany Martins; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP3-F137 - Development of a stationary phase containing palladium chemically bonded to the silica surface for determination of aromatic sulfur heterocycles in heavy oil**

Edilson V Benvenuti<sup>1</sup>, Maria Elisabete Machado, Eliana Weber de Menezes<sup>2</sup>, Elina Bastos Caramão, Claudia Alcaraz Zini; <sup>1</sup>Institute Of Chemistry, <sup>2</sup>Instituto de Química

**SP3-F138 - Effect of implantation of aluminum ions in tungsten oxide**

Diogo Silva Corrêa<sup>1</sup>, Irene Teresinha Santos Garcia<sup>2</sup>; <sup>1</sup>Universidade Federal de Pelotas - Centro de Ciências Químicas, Farmacêuticas E de Alimentos, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP3-F139 - Synthesis of ZnO nanorods and nanowires on bacterial cellulose**

Juliana Rodrigues Pegos<sup>1</sup>, Saionara Vilhegas Costa<sup>1</sup>, Mariana Zaghe Bertochi<sup>2</sup>, Maria Aparecida Zaghe<sup>3</sup>, Talita Mazon<sup>3</sup>; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer, <sup>2</sup>Instituto de Química Unesp, <sup>3</sup>Instituto de Química de Araraquara-Unesp

**SP3-F140 - Synthesis and characterization of Ce<sub>0.8</sub>Y<sub>0.2-x</sub>La<sub>x</sub>O<sub>1.9</sub> solid electrolyte**

Reginaldo Ferreira, Viviane Tiemi Utumi, Cristiane Gusso, Marcos Antonio Coelho Berton

**SP3-F141 - PDMS membrane modified with 4-methylpyridinium derivatives as a support for gold nanoparticles.**

Mirian Paula Santos Dos, Camila Marchetti Maroneze<sup>1</sup>, Natalia Fattori<sup>1</sup>, Yoshitaka Gushikem<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

**SP3-F142 - Nanostructured CaSrTiFeO polycrystalline materials: synthesis, structural and microstructural characterization**

L. G. Martinez, Vera L. Mazzocchi, Carlos B.r. Parente, J. Mestnik-Filho, J. R. Carmo, Reginaldo Muccillo

**SP3-F143 - Ion beam synthesis of PbSe**

**nanocrystals in TiO<sub>2</sub> substrates**

Zacarias Eduardo Fabrim<sup>1</sup>, Jesum Alves Fernandes<sup>2</sup>, F. Kremer, Marcelo Barbalho Pereira<sup>3</sup>, Ricardo Correia, Jairton Dupont, Paulo F. P. Fichtner<sup>3</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Federal University Of Rio Grande do Sul, <sup>3</sup>Institute Of Physics - Ufrgs

**SP3-F144 - SrTiO<sub>3</sub> Films: Deposition by Electrophoresis with Particle Size Control**

Wagner Dias Macedo Junior<sup>1</sup>, Agda Eunice Souza<sup>1</sup>, Gleyson Tadeu Almeida Santos, Silvio Rainho Teixeira<sup>1</sup>, Elson Longo, Ana Maria Rocha Senos, Angel Fidel Vilche Peña; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente

**SP3-F145 - Two steps in the processing route of nanocomposites based in MgH<sub>2</sub>**

Milton Luis do Lago<sup>1</sup>, Ricardo Floriano, Daniel Rodrigo Leiva, Tomaz Toshimi Ishikawa, Walter José Botta Filho, Valdemar Silva Leal; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP3-F146 - TiO<sub>2</sub> aerogels for dye-sensitized solar cells**

Geneviève Kreibich Pinheiro<sup>1</sup>, Carlo Requião Cunha, Carlos Renato Rambo<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-F147 - Hydrothermal Synthesis of well-aligned TiO<sub>2</sub> nanorod arrays on SiO<sub>2</sub>/Si substrates from seed layer prepared by precursor polymeric method**

Thalita Angélica Destefani<sup>1</sup>, Saionara Vilhegas Costa<sup>1</sup>, Lara Cb Gomes, Talita Mazon<sup>1</sup>; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer

**SP3-F148 - Structural investigation of cobalt oxide nanoparticles supported on zirconia**

Thiago Melo Lima<sup>1</sup>, Camila Messias Barbosa Santos, Sebastião William Silva, Paulo Cesar Morais, Maria do Carmo Rangel, Patrícia Pommé Confessori Sartoratto; <sup>1</sup>Universidade Federal de Goiás

**SP3-F149 - Synthesis Of 1d Coordination Polymer Using Ni(II), Malonic Acid And 4-Aminopyridine As Building Blocks**

Ronaldo Júnior Fernandes<sup>1</sup>, Regina Célia Galvão Frem, Patricia Bento da Silva, Rafael de Sá Freitas, Patrícia Silva, José Alberto Pires Fernandes, Filipe Alexandre Almeida Paz; <sup>1</sup>Instituto de Química Unesp

**SP3-F150 - Synthesis of BaZrO<sub>3</sub> and BaZr<sub>0.8</sub>Y<sub>0.2</sub>O<sub>3-δ</sub> nanoparticles by the spray pyrolysis technique**

Renata Ayres Rocha, Érica Caproni, Eguiberto Galego, Marilene M. Serna, Eliana Navarro Dos Santos Muccillo<sup>1</sup>, Reginaldo Muccillo; <sup>1</sup>Energy And Nuclear Research Institute

**SP3-F151 - Preparation Of Organic Solar Filters Nanostructured Inorganic**

Tamires Andrade Silva<sup>1</sup>, Adriana Libia Nascimento<sup>1</sup>, Gabriela Dantas Camelo, Luciano Meireles Grillo, Camila Braga Dornelas; <sup>1</sup>Universidade Federal de Alagoas

**SP3-F152 - Synthesis and characterization of carbon nanotube/iron oxide hybrids**

Lígia Parreira Souza<sup>1</sup>, Thaís Ferreira, Sérgio Oliveira, Viviany Geraldo, Daiana Sígolo, Andre S Ferlauto<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

**SP3-F153 - Synthesis and characterization of composites made of SEBS polymeric matrix with Ni-P hollow microspheres**

André Messias Teixeira<sup>1</sup>, Valderes Crespo Drago<sup>1</sup>, Cristian Bernardi, Moisés Felipe Teixeira, Gustavo Tontini<sup>1</sup>, Guilherme Mariz de Oliveira Barra, Aloísio Nelmo Klein<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-F154 - The use of linear vicinal diols like dispersants in a solventless synthesis of hexagonal NiS**

Victor Alexandre Veit Schmachtenberg<sup>1</sup>, Junior Antunes Koch<sup>1</sup>, Gustavo Tontini<sup>1</sup>, André Messias Teixeira<sup>1</sup>, Valderes Crespo Drago<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-F155 - Hydrothermal Synthesis of a Ni<sub>x</sub>C – Carbon Hybrid**

Junior Antunes Koch<sup>1</sup>, Cristian Bernardi, Victor Alexandre Veit Schmachtenberg<sup>1</sup>, Valderes Crespo Drago<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-F156 - Hydrothermal Reflux Assisted Synthesis of a Ni – Carbon Hybrid**

Junior Antunes Koch<sup>1</sup>, Cristian Bernardi, Victor Alexandre Veit Schmachtenberg<sup>1</sup>, Valderes Crespo Drago<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-F157 - Carbon xerogel as support to peroxidase immobilization**

Taciana Valéria de Almeida Vieira<sup>1</sup>, Honória de Fátima Gorgulho, Patrícia Benedini Martelli, Mariana Botelho Barbosa<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei

**SP3-F158 - Electrodeposition of ZnO Thin Films**

Natália Pereira Rezende<sup>1</sup>, Maximiliano Luis Munford, Andre Avelino Pasa, Iuri Stefani Brandt; <sup>1</sup>Fundação Universidade Federal de Viçosa

**SP3-F159 - Synthesis and characterization of hybrid materials constituted by PANi and by micro and nanoparticled vanadium oxides.**

Wellington Douglas Guimarães Gonçalves<sup>1</sup>, Genilson Reinaldo da Silva, Larisse Gomes Salazar, Cleiser

Thiago Pereira da Silva, Nelson Luis de Campos Domingues, Gian Paulo Giovanni Freschi, Andrelson Wellington Rinaldi; <sup>1</sup>Fundação Universidade Federal da Grande Dourados

**SP3-F160 - The mechanical effect of carbon nanotube additions on polymeric-cementitious composites**

Marco Antonio Schiavon<sup>1</sup>, Fabio Paiva Cota, Tulio Hallak Panzera, Chris R. Bowen, Andre Luiz Christoforo; <sup>1</sup>Universidade Federal de São João Del Rei

**SP3-F161 - Synthesis insitu of proton conducting titanate into Nafion by conventional and microwave-assisted hydrothermal method**

Bruno Ribeiro Matos<sup>1</sup>, Alexandre José de Castro Lanfredi, Elisabete Inácio Santiago, Marcelo Linardi, José Fernando Queiruga Rey, Fabio C Fonseca; <sup>1</sup>Instituto de Pesquisas Energéticas E Nucleares

**SP3-F162 - Development and characterization of thin films constituted of conventional polymer and nanostructures**

Adalberto Villalba Mezacasa<sup>1</sup>, Sílvia Mendes de Souza<sup>1</sup>, Wellington Douglas Gonçalves, Diogo Duarte Robre, Luis Felipe Moraes, Nelson Luis Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Universidade Federal da Grande Dourados

**SP3-F163 - Study of catalytic and electric properties of Ru-doped manganite-cromite anodes for solid oxidefuel cells**

Natalia Kondo Monteiro, Fabio B Noronha, Lídia Oazem de Oliveira da Costa, Fabio C Fonseca

**SP3-F164 - TiO<sub>2</sub> Nanotubes Morphology Control**

Daniel Amancio Duarte<sup>1</sup>, Paulo Jorge Passos Dos Santos, Raquel Milani<sup>1,2</sup>, Jose Albino Aguiar, Giovanna Machado; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do Nordeste

**SP3-F165 - Production and Characterization of hybrid composites**

Ana Angelica Dos Santos Faro, Camila Santana Cruz<sup>1</sup>, Alexandro Silva Assis, Ledjane Silva Barreto, Fernando Luiz Bastian; <sup>1</sup>Universidade Federal de Sergipe

**SP3-F166 - Production and caracterization of materials of CuCl doped RbCl thin films for application in optical filters in the UV region**

Luíz Gustavo Simão Albano<sup>1</sup>, Dayse Iara Dos Santos<sup>2</sup>, José Humberto Dias da Silva, Lígia Oliveira Ruggiero<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Faculdade de Ciências de Bauru -

Unesp, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP3-F167 - Desulfurization of diesel oil by Iron and Cobalt's catalysts with ligands ionophilic**

Janice Adamski<sup>1</sup>, Jairton Dupont; <sup>1</sup>Post-Graduation Course In Material Science

**SP3-F168 - Effect of processing conditions on thermal properties in Nylon 6/ modified clay nanocomposites**

Eleonora Erdmann, Griselda Flores, María Celeste Carrera, María Antonia Toro, Hugo Alberto Destéfani

**SP3-F169 - Growth of boron nitride nanotubes vertically aligned on silicon substrate**

Tiago Hilário Ferreira<sup>1</sup>, Mario da Silva Araújo Filho, Anderson Augusto Freitas<sup>1</sup>, Waldemar Augusto de Almeida Macedo, Edésia Martins Barros de Sousa<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP3-F170 - Studies on dispersion and purification of polyethylene glycol-functionalized single-walled carbon nanotubes in aqueous media**

Tiago de Mattos Serodre, Lidiane Dal Bosco, Carla Onara Gonçalves<sup>1</sup>, Daniela Martí Barros, Clascídia A. Furtado, Adelina Pinheiro Santos; <sup>1</sup>Centro de Desenvolvimento Nuclear

**SP3-F171 - Opto-electrochemistry and crystallographic characterization of tungsten, vanadium and their mixtures thin films oxides**

Paulo Rogério Catarini, Jair Scarminio, Alexandre Urbano<sup>1</sup>, Luis Henrique Amorin<sup>1</sup>, Airton Lourenço, Lisandro Cardoso; <sup>1</sup>Universidade Estadual de Londrina

**SP3-F172 - Fe<sub>2</sub>O<sub>3</sub> hybrid functionalized nanoparticles application to cell culture**

Adalberto Villalba Mezacasa<sup>1</sup>, A Moroz, S Felisbino, I Rosa, E Deffune, Nelson Luis Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Universidade Federal da Grande Dourados

**SP3-F173 - Synthesis and Characterization of LDH/Ppy composite with layered double hydroxides obtained by urea hydrolysis method**

Marina Paz Hyppólito<sup>1</sup>, Leonardo Luis de Freitas, Ricardo Reis Soares, Sheila Cristina Canobre; <sup>1</sup>Universidade Federal de Uberlândia

**SP3-F174 - Sintering of Zirconia-India Solid Electrolyte By Liquid Phase**

Daniel Zanetti de Florio, Murilo Nicolau

**SP3-F175 - Optical and electrochemical characterization of hybrid material constituted by conductive polymer and Fe<sub>2</sub>O<sub>3</sub>**

Sílvia Mendes de Souza<sup>1</sup>, Luis Felipe Moraes, Persiely Pires Rosa, Vicente Lira Kupfer<sup>1</sup>, Cleiser Tiago Pereira Silva, Nelson Luis Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Universidade Federal da Grande Dourados

**SP3-F176 - Crystallographic and opto-electrochemical evaluation of nanostructured vanadium oxide thin film deposited by electron beam**

Alexandre Urbano<sup>1</sup>, Larissa Martins, Luis Henrique Amorin<sup>1</sup>, Paulo Rogério Catarini, Wido Herwig Schreiner, Jair Scarminio; <sup>1</sup>Universidade Estadual de Londrina

**SP3-F177 - Optical Characterization of an Europium β-Diketonate Complex in the Cast Film form**

Sabrina Aléssio Camacho<sup>1</sup>, Malon Larry Laranja<sup>2</sup>, Sergio Antonio Marques Lima<sup>2</sup>, Carlos José Leopoldo Constantino, Ana Maria Pires<sup>2</sup>; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista

**SP3-F178 - Application of Amphiphilic Magnetic Nanoparticle Based on Nanoparticles of Alumina and Carbon Nanotubes to Promote Reactions in Biphasic Systems**

Ivo Freitas Teixeira, Rochel Montero Lago, Aline Silva Oliveira

**SP3-F179 - Synthesis, characterization and larvicidal activity of the copper (II) complex derivated of N-salicylidenoaniline**

Mirian Yoshiko Matsumoto<sup>1</sup>, Wesley Pereira da Silva, Larisse Gomes Salazar, Keila Batista Dias<sup>1</sup>, Eduardo José Arruda, Nelson Luis de Campos Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Universidade Federal da Grande Dourados

**SP3-F180 - Preparation and Characterization of NiO/Carbon Composites from Biomass**

Thalita Santos Bispo<sup>1</sup>, Gabriela Borin Barin<sup>1</sup>, Iara de Fátima Gimenez, Neftalí Lenin Villarreal Carreño, Ledjane Silva Barreto; <sup>1</sup>Universidade Federal de Sergipe

**SP3-F181 - A novel templated synthesis of a europium-containing compound and its characterization**

Rodrigo da Silva Viana, Eduardo Henrique Falcão, Marcelo de Oliveira Rodrigues, Severino Alves Junior

**SP3-F182 - Effect of the precursors on the morphology of ZnO nanostructures synthesized by hydrothermal synthesis on FTO/Glass substrates**

Saionara Vilhegas Costa<sup>1</sup>, Jorge Tomioka, Talita Mazon<sup>1</sup>; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer

**SP3-F183 - Electrodeposition of Ni Nano-Particles In Alumina Anodic Membranes**

José Flávio Timóteo Júnior<sup>1</sup>, Laura Ximena Lovisa, João José M. Santos, Carlos Alberto Paskocimas; <sup>1</sup>Universidade Federal do Amazonas

**SP3-F184 - Thin films made out of hybrid materials for sensor applications.**

Keila Batista Dias<sup>1</sup>, Persiely Pires Rosa, Mirian Yoshiko Matsumoto<sup>1</sup>, Vicente Lira Kupfer<sup>1</sup>, Wellington Douglas Gonçalves, Nelson Luis de Campos Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Universidade Federal da Grande Dourados

**SP3-F185 - Growth Fe-doped SnO<sub>2</sub> nanostructured thin film by hydrothermal method**

Daniel Belchior Rocha<sup>1</sup>, Allan Moreira Xavier, Flavio Leandro Souza; <sup>1</sup>Universidade Federal do Abc

**SP3-F186 - Photocatalytic activity of two different morphological structures of ZnO**

Felipe Antonio Lucca Sánchez<sup>1</sup>, Luana S. Oliveira, Antonio Shigueaki Takimi, Carlos Pérez Bergmann; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-F187 - Structural and transport properties of Tin oxide doped with Germanium nanowires**

Han Pang Huang<sup>1</sup>, Jose Rey Queiroga, Adenilson José Chiquito, Alexandre José de Castro Lanfredi; <sup>1</sup>Universidade Federal do Abc

**SP3-F188 - Mechanical properties of activated carbon membranes**

Amal Elzubair Eltom, Marcus Paulo Fournier Lessa, Marcelo Jose da Silva, Jose Carlos da Rocha

**SP3-F189 - Investigation of single wall carbon nanotube-surfactant dispersions by experimental design techniques**

Régis Fernandes Gontijo, Flávio Plentz, Cristiano Fantini, Clascídia A. Furtado, Adelina Pinheiro Santos

**SP3-F190 - Production and caracterization óptica of materials of Er<sub>2</sub>O<sub>3</sub> doped CaF<sub>2</sub> thin films**

Luíz Gustavo Simão Albano<sup>1</sup>, Dayse Iara Dos Santos<sup>2</sup>, José Humberto Dias da Silva, Lígia Oliveira Ruggiero<sup>3</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Faculdade de Ciências de Bauru - Unesp, <sup>3</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP3-F191 - Functional Oxides Composites Prepared by a Hybrid Route**

Dayse Iara Dos Santos<sup>1</sup>, Aureo Murador Filho, Marcos Yukio Kussuda, Antonio Carlos Dias Ângelo,

Jaegeun Kim, Dongqi Shi, Shixue Dou; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp

**SP3-F192 - Powder substrates thin films coated using magnetron sputtering deposition.**

Dario Eberhardt<sup>1</sup>, Adriano Friedrich Feil<sup>2</sup>, Pedro Migowski, Sergio Ribeiro Teixeira<sup>2</sup>, Jairton Dupont; <sup>1</sup>Federal University Of Rio Grande do Sul, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP3-F193 - TiO<sub>2</sub> nanotubes decorated with Au nanoparticles for H<sub>2</sub> production**

Guilherme Josué Machado<sup>1</sup>, Adriano Friedrich Feil<sup>1</sup>, Pedro Migowski, Jesum Alves Fernandes<sup>2</sup>, Heberton Wender, Sergio Ribeiro Teixeira<sup>2</sup>, Livio Amaral; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Federal University Of Rio Grande do Sul

**SP3-F194 - Production of high-ordered TiO<sub>2</sub> nanotubes for application in dye-sensitized solar cells (DSSCs)**

Jesum Alves Fernandes<sup>1</sup>, Adriano Friedrich Feil<sup>2</sup>, Pedro Migowski, Guilherme Josué Machado<sup>2</sup>, Sergio Ribeiro Teixeira<sup>2</sup>, Marcos Jose Leite Santos, Jairton Dupont; <sup>1</sup>Federal University Of Rio Grande do Sul, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP3-F195 - Synthesis of Ta<sub>2</sub>O<sub>5</sub> and TiO<sub>2</sub> nanotubes by anodization process for hydrogen production**

Lúcio Sulzbach Silva<sup>1</sup>, Jesum Alves Fernandes<sup>2</sup>, Renato Vitalino Gonçalves<sup>2</sup>, Adriano Friedrich Feil<sup>2</sup>, Guilherme Josué Machado<sup>2</sup>, Pedro Migowski, Sérgio Ribeiro Teixeira<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Federal University Of Rio Grande do Sul

**SP3-F196 - Fabrication of Ta<sub>2</sub>O<sub>5</sub> Nanotubes by Anodization: A Promising Photocatalyst for Hydrogen Production**

Renato Vitalino Gonçalves<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-F197 - Preparation and characterization of a magnetic composite to be applied in environmental remediation processes**

Isabel C. Souza Dinóla, William H. Trujillo<sup>1</sup>, Gabriela Cordeiro; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

## SYMPOSIUM G

### Molecular Modeling Materials Science

#### Chairs

Aguinaldo Robinson de Souza (DQ – Unesp)  
Nelson Henrique Morgon (IQ – UNICAMP)

## ORAL PRESENTATIONS

\* Invited Lecture

### WEDNESDAY, SEPTEMBER 28TH

#### SESSION G6

09:30 - 10:30 - Room 12

09:30 - G6.1\*

**A Theoretical Study on the Pressure-induced Phase Transitions in Inverse Spinel Structure  $Zn_2SnO_4$**

Armando Beltrán, Lourdes Gracia, Juan Andrés

10:00 - G6.2\*

**Photophysical Aspects of Some Photosensitizers with Potential Applications in Photodynamic Therapy**

Antonio Carlos Borin

#### SESSION G7

11:00 - 12:30 - Room 12

11:00 - G7.1\*

**Multiscale modeling and physical chemistry aspects on the milk proteins and polyelectrolytes complexation for biotechnology, food and pharmaceutical science applications**

Fernando Luís Barroso da Silva

11:30 - G7.2

**Theoretical-Computational Study of Drugs Insertions into the Cavity of the CU-BTC MOF Using PM6 and B3LYP Methods**

Flávia Raquel Lucena<sup>1</sup>, Nailton M Rodrigues, Nivan Bezerra da Costa Júnior, Ricardo O Freire, Silene Carneiro do Nascimento, Severino Alves Junior; <sup>1</sup>Universidade Federal de Pernambuco

11:45 - G7.3

**Temperature Control in Green's Function Molecular Dynamics Simulations**

Vitor Rafael Coluci, Sócrates de Oliveira Dantas<sup>1</sup>, Marcelino Cordeiro Neto; <sup>1</sup>Universidade Federal de Juiz de Fora

12:00 - G7.4

**Paralel implementation of relativistic quantum mechanics DIRAC program in a computer cluster**

André Luiz Fassone Canova<sup>1</sup>, Aguinaldo Robinson de Souza<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Julio de Mesquita Filho" - Posmat, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

#### SESSION G8

15:00 - 16:00 - Room 12

15:00 - G8.1\*

**Using a lattice model to study the role of diffusion in protein folding**

Jorge Chahine

15:30 - G8.2

**$C_{70}$  motion analysis in  $H_2O$  solution by molecular dynamics**

Flaviano Williams Fernandes<sup>1</sup>, Renê Keidel Spada, Bruno Cecarelli, Filipe Leôncio Braga; <sup>1</sup>Instituto Tecnológico de Aeronáutica

15:45 - G8.3

**The Study of Non-Harmonic Oscillations**

Angélica Castilho Gasparoto<sup>1</sup>, José Pedro Rino; <sup>1</sup>Universidade Federal de São Carlos

### THURSDAY, SEPTEMBER 29TH

#### SESSION G9

09:30 - 10:30 - Room 12

09:30 - G9.1\*

**GridUNESP: high-performance computational infrastructure in material science**

Ney Lemke

10:00 - G9.2

**Sequential QM/MM Simulation to design an Enzyme-based Nanobiosensor using Atomic Force Microscopy**

Richard André Cunha<sup>1</sup>, Fabio Lima Leite, Osvaldo Novais Oliveira Jr, Eduardo de Faria Franca; <sup>1</sup>Universidade Federal de Uberlândia

## POSTER PRESENTATIONS

### WEDNESDAY, SEPTEMBER 28TH

#### SESSION SP3

16:00 - 18:00 - Exhibition Hall

**SP3-G1 - Using modelling to explain properties of amorphous and crystalline alumina**

Raquel Lizárraga, Erik Holmström, Stephen Charles Parker, Corinne Arrouvel<sup>1</sup>; <sup>1</sup>Universidade Federal de



Sergipe

**SP3-G2 - A theoretical study of gap clusters using B3LYP/LanL2DZ method.**

Nelson H Morgon

**SP3-G3 - Deamination Of Cytosine By N<sub>2</sub>O<sub>3</sub>: A Theoretical Study.**

Nelson H Morgon, Aguinaldo Robinson de Souza<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "júlio de Mesquita Filho"

**SP3-G4 - Stability and Magnetic Structure of Fe-Ir Alloys Transformed Into Substituted Nitrides of Type M<sub>x</sub>Fe<sub>4-x</sub>N.**

Antonio Vanderlei Dos Santos

**SP3-G5 - Theoretical quantum-chemical study of the interaction of Ge<sup>2+</sup>-porphyrin with O<sub>2</sub>**

Cleuton de Souza Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas

**SP3-G6 - Theoretical study of the interaction of Ni<sup>2+</sup>-porphyrin with O<sub>2</sub>**

Cleuton de Souza Silva<sup>1</sup>; <sup>1</sup>Universidade Federal do Amazonas

**SP3-G7 - Nimesulide interaction with carboxylated and pristine carbon nanotubes**

Laura Osmari Vendrame, Ivana Zanella da Silva<sup>1</sup>, Solange Binotto Fagan; <sup>1</sup>Centro Universitário Franciscano

**SP3-G8 - Density Functional Theory calculations of gallium nitride nanoclusters**

Francisco Carlos Lavarda<sup>1</sup>, Leonardo de Conti Dias Aguiar; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp

**SP3-G9 - Elucidation of spectroscopic data of derivatives from Croton ururucana Bail: a theoretical study at level DFT.**

Silvana de Oliveira Silva<sup>1</sup>, Carlos Felipe S. Oliveira, Henrique Fernandes Figueira Brasil, Cláudio Nahum Alves, Davi do Socorro Barros Brasil; <sup>1</sup>Universidade Federal do Pará

**SP3-G10 - Theoretical attainment of NMR data to solve structural problems of a limonoid isolated from Swietenia macrophylla**

Henrique Fernandes Figueira Brasil, Silvana de Oliveira Silva<sup>1</sup>, Kelly Christina Ferreira Castro, Luiz Guilherme Machado de Macedo, Cláudio Nahum Alves, Milton Nascimento da Silva, Davi do Socorro Barros Brasil; <sup>1</sup>Universidade Federal do Pará

**SP3-G11 - Correlations between Electronic Structure and Optical Properties of a Fluorene-Benzothiadiazole Copolymer: A Theoretical and Experimental Study**

Leonardo Schneider, Paula C. Rodrigues, Nestor C. Saavedra, Wido Herwig Schreiner, Leni Campos

Akcelrud

**SP3-G12 - PRODRG: Structural Bioinformatics Protein on topologies with 3<sub>1</sub>**

Paula Martins da Silva<sup>1</sup>, Aguinaldo Robinson de Souza<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista "júlio de Mesquita Filho"

**SP3-G13 - Favorable energy region in the topology 3<sub>1</sub>**

Paula Martins da Silva<sup>1</sup>, Aguinaldo Robinson de Souza<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "júlio de Mesquita Filho", <sup>2</sup>Universidade Estadual Paulista "júlio de Mesquita Filho"

**SP3-G14 - Axial pressure on carbon nanotubes, a first principles approach**

Ivi Valentini Lara<sup>1</sup>, Solange Binotto

Fagan; <sup>1</sup>Universidade Federal de Santa Maria

**SP3-G15 - Analysis of the kinetics of recrystallization of an IF steel by neural networks**

Glaucio Fonseca<sup>1</sup>, José Flávio Feiteira, Adauto Assis, Gerson Inacio, Phablo Carvalho; <sup>1</sup>Universidade Federal Fluminense

**SP3-G16 - Nitrogen Vacancies Effect on the Electronic Properties of the Diluted Magnetic Semiconductor Ga<sub>1-x</sub>Mn<sub>x</sub>N**

Carmen Regina Souza<sup>1</sup>, Marcilene Maluf; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp

**SP3-G17 - estrutura eletrônica e estabilidade do dióxido de titânio**

Matheus Diel Casarin Dias, Maiquele Batirola Malikowski<sup>1</sup>, Jéssica de Vargas Santos<sup>1</sup>, Antonio Vanderlei Dos Santos; <sup>1</sup>Universidade Regional Integrada do Alto Uruguai E Das Missões

**SP3-G18 - Stability and magnetic Properties of fine films of Fe-Cu.**

Maiquele Batirola Malikowski<sup>1</sup>, Jéssica de Vargas Santos<sup>1</sup>, Matheus Diel Casarin Dias, Antonio Vanderlei Dos Santos; <sup>1</sup>Universidade Regional Integrada do Alto Uruguai E Das Missões

**SP3-G19 - Geometrical parameters of HexHy complexes**

Aguinaldo Robinson de Souza<sup>1</sup>, Nelson H Morgon; <sup>1</sup>Universidade Estadual Paulista "júlio de Mesquita Filho"

**SP3-G20 - Study of electronic properties of the substitutional nitrides BeFe<sub>3</sub>N and LiFe<sub>3</sub>N.**

Danielli Jaskulski Gonsiorkiewicz<sup>1</sup>, João Carlos Krause; <sup>1</sup>Universidade Regional Integrada do Alto Uruguai E Das Missões

**SP3-G21 - Boron and Nitrogen doped double wall carbon nanotubes: first-principles calculations**

Renata da Silva Bergoli<sup>1</sup>, Jussane Rossato, Leandro Barros da Silva, Solange Binotto

Fagan; <sup>1</sup>Universidade Federal de Santa Maria

**SP3-G22 - Rotational dynamics of C<sub>70</sub> in C<sub>70</sub>-cubane crystals**

Tatiana Mello da Costa Faro<sup>1</sup>, Vitor Rafael Coluci, Munir Salomão Skaf; <sup>1</sup>Universidade Estadual de Campinas

**SP3-G23 - A TDDFT/ECP Approach To The Study of The Low Lying Electronic States of Organochlorinated Pesticides**

Alamgir Khan<sup>1</sup>, Pedro Antonio Muniz

Vazquez; <sup>1</sup>Universidade Estadual de Campinas

**SP3-G24 - Accurate Gaussian Basis Sets for New Material Quantum Chemical Calculations**

Milena Palhares Maringolo<sup>1</sup>, Alberico Borges Ferreira da Silva; <sup>1</sup>Institute Of Chemistry Of Sao Carlos

**SP3-G25 - Adsorption of Chromium (VI) in carbon nanotubes functionalized with titanium oxide, carboxylic and hydroxyl groups**

Ana Paula Schwarz<sup>1,2</sup>, Renata da Silva Bergoli<sup>3</sup>, Solange Binotto Fagan, Carlos Pérez

Bergmann; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Centro Universitário Franciscano, <sup>3</sup>Universidade Federal de Santa Maria

**SP3-G26 - Determination of the energy diagram of ultrathin films formed with metallophthalocyanines and natural polysaccharides**

Silio Lima de Moura<sup>1</sup>, Ionara Nayana Gomes Passos, Inês Maria de Souza Araújo, José Aroldo Viana Dos Santos, Jose Ribeiro Santos Junior; <sup>1</sup>Universidade Federal do Piauí

**SP3-G27 - Structural characterizations, thermal properties and DFT theoretical studies of PMMA/Fe<sub>3</sub>O<sub>4</sub>**

Marcus Vinícius Juliaci Rocha<sup>1</sup>, Teodorico Castro Ramalho; <sup>1</sup>Universidade Federal de Lavras

**SP3-G28 - Tension and compression of a gold nanowire using molecular dynamics**

Sergio Mejia, Carlos Fernández

**SP3-G29 - Theoretical and experimental studies of the band structure of δ-FeOOH**

Marcus Vinícius Juliaci Rocha<sup>1</sup>, Adilson Cândido da Silva, Márcio César Pereira, Teodorico Castro Ramalho; <sup>1</sup>Universidade Federal de Lavras

**SP3-G30 - Characterization of Attapugite: Pharmaceutical application**

Antonio Carlos Silva da Costa, Paulo Henrique Chibério, Wilson Acchar

**SP3-G31 - Simulation of the microwave attenuation behavior of POMA/carbon black composites in the range of 2 - 40 GHz**

Simone Souza Pinto<sup>1</sup>, Mirabel Cerqueira Rezende; <sup>1</sup>Instituto Tecnológico de Aeronáutica

**SP3-G32 - Theoretical study of the PEDOT:PSS/KDP mixture on aqueous medium**

Felipe Azevedo Rios Silva<sup>1</sup>, Elaine Rose Maia; <sup>1</sup>Universidade de Brasília

**SP3-G33 - Application of chemical calculations on the study of chromium species related to tanning process**

Fernando Dal Pont Morisso<sup>1</sup>, Rejane Menezes de Moraes Paiva, Angela Beatrice Dewes

Moura; <sup>1</sup>Universidade Feevale

**SP3-G34 - Structure of Cu-Zr Amorphous Alloys Studied by Molecular Dynamics Simulation**

Alejandro Zuniga<sup>1</sup>, Javier Wachter, Camilo

Casas; <sup>1</sup>Universidade Federal do Abc

**SP3-G35 - Theoretical study of iron impurities in magnesium oxide**

Rolando Larico Mamani<sup>1</sup>, Lucy V. Credidio Assali<sup>2</sup>, Joao Francisco Justo Filho; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Física da Universidade de São Paulo

**SP3-G36 - Physical properties of rutile SnO<sub>2</sub> nanowires: an ab initio investigation**

Joelson Cott Garcia<sup>1</sup>, Joao Francisco Justo Filho; <sup>1</sup>Polytechnic School Of The University Of São Paulo

**SP3-G37 - Topological Analysis of the Microstructure Generated by Cellular Automata**

Daniel Souto de Souza, Wesley Luiz da Silva Assis, Paulo Rangel Rios, Gláucio Soares da Fonseca

**SP3-G38 - Fullerene interacting with drugs and vitamins: ab initio simulations**

Ivana Zanella da Silva<sup>1</sup>, Elisane Michelin, Jussane Rossato, Solange Binotto Fagan; <sup>1</sup>Centro Universitário Franciscano

**SP3-G39 - Carbon nanotubes interacting with dyes: a first principles approach**

Iuri Jauris<sup>1</sup>, Solange Binotto Fagan; <sup>1</sup>Centro Universitário Franciscano

**SP3-G40 - Cyclodextrins interacting with vitamins via molecular modeling**

Ivana Zanella da Silva<sup>1</sup>, Jaciéli Evangelho de Figueiredo, Thiago Schmeling Fontana, Solange Binotto Fagan; <sup>1</sup>Centro Universitário Franciscano

**SP3-G41 - Interaction Ab Initio Of**

**Carbon Nanotubes With Biotin Molecules**

Daniele Morgenstern Aimi<sup>1</sup>, Solange Binotto Fagan,

Clarissa Piccini Frizzo, Jussane Rossato; <sup>1</sup>Centro  
Universitário Franciscano

**SP3-G42 - Experimental and theoretical studies of  
a hybrid material based on silica and cyclodextrin**

Lucas Bragança de Carvalho<sup>1</sup>, Marcus Vinícius Juliaci  
Rocha<sup>1</sup>, Luciana de Matos Alves Pinto, Teodorico  
Castro Ramalho; <sup>1</sup>Universidade Federal de Lavras

**SP3-G43 - Discrete genetic algorithm applied to Al  
clusters**

Raisi Natalia Lenz Baldez<sup>1</sup>, Alex André Schmidt,  
Paulo Cesar Piquini; <sup>1</sup>Universidade Federal de Santa  
Maria

**SP3-G44 - Structure of poly(3-hexylthiophene) in  
solution**

Francisco Carlos Lavarda<sup>1</sup>, Eliézer Fernando  
Oliveira; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp

**SP3-G45 - On the dynamics of formation of carbon  
nanotube serpentines: a fully atomistic molecular  
dynamics study**

Leonardo Dantas Machado, Sergio Benites Legoas,  
Jaqueline Santos Soares, Nitzan Shadmi, Ado Jorio,  
Ernesto Joselevich, Douglas Soares Galvão

**SP3-G46 - Interaction between gold nanoparticles  
and biomembranes investigated by coarse-grained  
molecular dynamics simulation**

Edroaldo Lummertz da Rocha<sup>1</sup>, Giovanni Finoto  
Caramori, Luismar Marques Porto, Carlos Renato  
Rambo<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-G47 - Doped Assemblies of Gold  
Nanoparticles: Structural and Electronic  
Properties**

Ronaldo Junio Campos Batista<sup>1</sup>, Hélio Chacham<sup>2</sup>,  
Jonathan Martins; <sup>1</sup>Universidade Federal de Ouro  
Preto, <sup>2</sup>Universidade Federal de Minas Gerais

**SP3-G48 - Prediction of polyfluorenes optical  
properties by Support Vector Machines**

Ricardo Stefani<sup>1</sup>, Rogério Barbosa da  
Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra  
do Garças

**SP3-G49 - Theoretical study of substituted  
polyaniline**

Liliana Yolanda Ancalla Dávila<sup>1</sup>, Nilo Mauricio  
Sotomayor, Lino Mendes Barbosa<sup>1</sup>; <sup>1</sup>Fundação  
Universidade Federal do Tocantins

## SYMPOSIUM H

### Structure-Properties Relationship of Advanced Metallic Materials

#### Chairs

Leonardo Barbosa Godefroid (UFOP)

Waldek Wladimir Bose Filho (USP)

Luiz Carlos Rolim Lopes (UFF)

Juan Perez Ipiña (UNCOMA)

Pedro Dolabella Portella (BAM)

## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY , SEPTEMBER 26TH

#### SESSION H1

09:30 - 10:30 - Room 17

09:30 - H1.1

**A study of morphology and martensitic  
transformation of TRIP steel and Fe alloy**

Cláudia Nazaré Dos Santos<sup>1</sup>, Andersan Santos Paula,  
Carlos Sergio da Costa Viana; <sup>1</sup>Centro Universitário  
do Leste de Minas Gerais

09:45 - H1.2

**Sigma Phase Precipitation and its Effects on  
Toughness and Corrosion Resistance of Duplex  
Stainless Steel**

Evaldo Diniz Dias<sup>1</sup>, Thigo Paulino Tranin, Carlos  
Roberto Xavier, Rosinei Batista Ribeiro; <sup>1</sup>Centro  
Universitário de Volta Redonda

10:00 - H1.3

**Multivariant and the oriented martensite structure  
relations in copper based shape memory alloys**

Osman Adiguzel

10:15 - H1.4

**EVALUATION OF HYDROGEN  
EMBRITTLMENT IN API 5LX-80 STEEL  
WELDED JOINTS**

Theophilo Moura Maciel, Antonio Almeida Silva,  
Emanuel Pereira Soares, Bruno Allyson Araújo

#### SESSION H2

11:00 - 12:30 - Room 17

11:00 - H2.1

**Fatigue crack growth of 7475 T7351 under variable  
spectrum loading**

Aline Albuquerque Moreira<sup>1</sup>, Arthur Valadares Santos, Waldek Wladimir Bose Filho, Cassius Terra Ruchert; <sup>1</sup>Universidade de São Paulo - Materias - Eesc

**11:15 - H2.2**

**Fatigue resistance of welded and adhesive bonded metal joints used in automotive applications**

Leonardo Barbosa Godefroid<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto

**11:30 - H2.3**

**Fatigue properties of machined specimens from cast and forged railroad steel wheels**

Syme Regina Souza Queiroz<sup>1</sup>, Renato Lyra Villas Boas, Domingos José Minicucci, André Uehara Yogou, Raimundo Expedito Vasconcelos, Valdir Alves Guimarães, Itamar Ferreira; <sup>1</sup>Universidade Estadual de Campinas

**11:45 - H2.4**

**Effect of rolling condition on the fatigue resistance of an IF steel used in automotive applications**

Leonardo Barbosa Godefroid<sup>1</sup>; <sup>1</sup>Universidade Federal de Ouro Preto

**12:00 - H2.5**

**Design of a Steel with High Abrasive Wear Resistance for Impact Applications from boron additions in a Low Carbon Matrix.**

David Fernando Panche<sup>1</sup>, Jairo Arturo Escobar; <sup>1</sup>Universidad de Los Andes Colombia

## TUESDAY , SEPTEMBER 27TH

### SESSION H4

**09:30 - 10:30 - Room 17**

**09:30 - H4.1**

**Laser beam welding and plasma arc welding of a maraging steel sheet for applications in a rocket engine**

Sheila Medeiros de Carvalho, Milton Sérgio Fernandes de Lima, José A. O. Garcia

**09:45 - H4.2**

**Evaluation of Microstructure and Microhardness of API 5L X80 Steel Welded Joints Using Automated Welding Process in Different Welding Positions**

Siderley Fernandes Albuquerque, Raphael Sousa Silva, Marco Antônio Santos, Theophilo Moura Maciel, Alexandre Queiroz Bracarense

**10:00 - H4.3**

**P/M-Ti-48Al-2Cr-2Nb development for aerospace applications**

Vinicius Rodrigues Henriques, Ana Machado Dutra, Carlos Alves Cairo

### SESSION H5

**11:00 - 12:30 - Room 17**

**11:00 - H5.1**

**Microstructural evaluation of Ti-6Al-4V with bimodal microstructure after creep tests**

Gustavo Fernandes Araujo<sup>1</sup>, Luciana Aparecida Narciso da Silva Briguento, Danieli Aparecida Pereira Reis, Carlos de Moura Neto, Miguel Justino Ribeiro Barbosa, Flávio Briguento; <sup>1</sup>Escola de Engenharia de Lorena - Usp

**11:15 - H5.2**

**Influence of Different Processing Routes on Mechanical Properties of X-750 Superalloy**

Gabriela Regina Xavier de Souza<sup>1</sup>, André Freitas Ribeiro, Sinara Borborema Gabriel, Sinara Borborema Gabriel, Luiz Henrique de Almeida; <sup>1</sup>Universidade Federal do Rio de Janeiro

**11:30 - H5.3**

**Evaluation of the mechanical behavior at 600 to 800°C on Inconel 718 as received**

Karina Martinolli Dos Santos<sup>1</sup>, Danieli Aparecida Pereira Reis, Carlos de Moura Neto, Ana Cláudia de Oliveira Hirschmann; <sup>1</sup>Instituto Tecnológico de Aeronáutica

**11:45 - H5.4**

**Evaluation of hot tensile and creep behavior of superalloy Inconel 718 after double aging.**

Katia Cristiane Gandolpho Candioto, Felipe Caliar, Danieli Aparecida Pereira Reis, Antonio Augusto Couto, Carlos Moura Neto, Carlos Angelo Nunes

**12:00 - H5.5**

**Influence of molybdenum content in model Fe-Cr-Mo alloys (9Cr-xMo, x = 5, 7 and 9 wt.%) and in a commercial P9 (8Cr-1Mo wt.%) alloy at elevated temperatures (between 450°C and 650°C).**

Marcelo José Gomes da Silva, Luis Flávio Gaspar Herculano, Jardel de Souza Belo, José Demontier Vieira, Alex Maia do Nascimento, Hamilton Ferreira Gomes de Abreu

**12:15 - H5.6**

**Creep Behavior Of Ti-6Al-4V With Martensite And Bimodal Microstructures**

Fabírcia Assis Resende<sup>1</sup>, Luciana Aparecida Narciso da Silva Briguento, Danieli Aparecida Pereira Reis, Miguel Justino Ribeiro Barbosa, Roseli de Souza Félix, Carlos de Moura Neto; <sup>1</sup>Demar/eel-Usp, Sp

**WEDNESDAY, SEPTEMBER 28TH**

**SESSION H6**

**09:30 - 10:30 - Room 17**

**09:30 - H6.1**

**Scanning Probe Microscopy (SPM) study of the surface integrity of an AISI 304 austenitic stainless steel**

Thompson Júnior Ávila Reis, Jose Rubens Gonçalves Carneiro, José Mário Carneiro Vilela, Margareth Spangler Andrade

**09:45 - H6.2**

**A study of the mechanical properties of AA6013-T4 aluminum alloy subjected to post-aging heat treatment**

Rafael Humberto Mota de Siqueira, Milton Sergio Fernandes de Lima, Rudimar Riva, Carlos Antonio Reis Pereira Baptista, Antonio Jorge Abdalla

**10:00 - H6.3**

**Structure and Properties of Quenched Ti-(32-4x)%Nb-x%Mo Alloys**

Marilia Santos de Souza, Lioudmila Aleksandrovna Matlakhova<sup>1</sup>, Anatoliy Nikolaevich Matlakhov<sup>1</sup>, Herval Ramos Paes Júnior, Boris Andreevich Goncharenko; <sup>1</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro

**10:15 - H6.4**

**Gold and Silver Nanoshells: Synthesis, Immobilization on SiO<sub>2</sub> Surfaces and SERS Probing**

Antonio Brito Silva<sup>1</sup>, Regivaldo Sobral Filho, Renato Barbosa Silva, Giovanna Machado, Cid Bartolomeu de Araújo, Alexadre Brolo, André Galembeck; <sup>1</sup>Centro de Tecnologias Estratégicas do Nordeste

**SESSION H7**

**11:00 - 12:30 - Room 17**

**11:00 - H7.1**

**Mutual influence of precipitation and of Severe Plastic Deformation by Equal Channel Angular Pressing of a Al-4%Cu alloy: tensile behavior and precipitation kinetics**

Vitor Luiz Sordi, Erika Fernanda Prados<sup>1</sup>, Maurizio Ferrante; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**11:15 - H7.2**

**Improving tensile strength and ductility of grade 2 Ti by two-step severe plastic deformation.**

Vitor Luiz Sordi, Anibal de Andrade Mendes Filho, Megumi Kawasaki, Maurizio Ferrante, Terence G.

Langdon

**11:30 - H7.3**

**Microstructural comparison between two deformation methods applied in 600 nickel alloy**  
Waldemar Alfredo Monteiro<sup>1</sup>, Luciana Ventavele da Silva, Arnaldo Homobono Paes de Andrade, Waldemar Alfredo Monteiro<sup>1</sup>; <sup>1</sup>Instituto de Pesquisas Energéticas E Nucleares

**11:45 - H7.4**

**Quantitative Parameters of Fracture Toughness Analysis by Digital Image Processing**

Pietro Carelli R. O. Caltabiano<sup>1</sup>, Paulo H. S. Rosa, Luis Rogerio de Oliveira Hein; <sup>1</sup>Faculdade de Engenharia de Guaratingueta

**12:00 - H7.5**

**Effects of divider orientation split-out on fracture toughness**

Juan E. Perez Ipiña, Ivan Korin

**POSTER PRESENTATIONS**

**WEDNESDAY, SEPTEMBER 28TH**

**SESSION SP3**

**16:00 - 18:00 - Exhibition Hall**

**SP3-H1 - Fe - C - Mn - Si - Cr Alloy**

**characterization - tempering curve and tempered martensite embrittlement**

José Benedito Marcomini<sup>1</sup>, Helio

Goldenstein<sup>1</sup>; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP3-H2 - Microstructure and mechanical properties of 300M steel after isothermal and intercritical heat treatments**

Roberto Masato Anazawa<sup>1</sup>, Antonio Jorge Abdalla, Tomaz Manabu Hashimoto, Marcelo Dos Santos

Pereira; <sup>1</sup>Instituto de Estudos Avançados do Departamento de Ciência E Tecnologia Aeroespacial

**SP3-H3 - Modeling plastic flow curves of austenitic stainless steel ISO 5832-9 used in orthopedic applications**

Eden Santos Santos<sup>1</sup>, Regina Celia Sousa, Jose Maria Cabrera, Oscar Balancin; <sup>1</sup>Universidade Federal de São Carlos

**SP3-H4 - Evaluation of 2,4-dinitrophenylhydrazine dissolved in microemulsion system in inhibiting corrosion in AISI 1020 steel in saline**

Gineide Conceição Dos Anjos<sup>1</sup>, Cássia Carvalho de Almeida, Ciro José Rodrigues, Dulce Maria Araújo Melo, Carlos Alberto Martínez-Huitile, Maria Aparecida Maciel; <sup>1</sup>Universidade Federal do Rio

Grande do Norte

**SP3-H5 - Kinetics of the Cu<sub>2</sub>AlMn phase formation in the Cu-9% Al alloy with Ag and Mn additions**

Camila Maria Andrade Dos Santos<sup>1</sup>, Antonio Tallarico Vicente Adorno, Thaisa Mary Carvalho, Aroldo Geraldo Magdalena<sup>2</sup>, Ricardo Alexandre Galdino da Silva; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" (Unesp), <sup>2</sup>Instituto de Química Unesp

**SP3-H6 - Gamma prime shape evolution during heat treatments of MAR-M247(Nb) superalloy**

Renato Baldan<sup>1</sup>, Carlos Angelo Nunes, Gilberto Carvalho Coelho, Paulo Ricardo Soares Azevedo Silva; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP3-H7 - Structure and properties of a Cu-13.8%Al-4%Ni alloy submitted to quenching and deformation**

Anatoliy Nikolaevich Matlakhov<sup>1</sup>, Fábio de Oliveira Braga, Lioudmila Aleksandrovna Matlakhova<sup>1</sup>, Carlos José de Araújo; <sup>1</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro

**SP3-H8 - Phase transitions on continuous heating of the martensitic Cu-9wt.%Al-4wt.%Mn alloy with Ag additions**

Aroldo Geraldo Magdalena<sup>1</sup>, Antonio Tallarico Vicente Adorno, Thaisa Mary Carvalho, Camila Maria Andrade Dos Santos<sup>2</sup>, Samarah Vargas Harb, Ricardo Alexandre Galdino da Silva; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" (Unesp)

**SP3-H9 - β phase formation in the Cu-10wt.%Al alloy with Ag additions**

Thaisa Mary Carvalho, Antonio Tallarico Vicente Adorno, Aroldo Geraldo Magdalena<sup>1</sup>, Ricardo Alexandre Galdino da Silva, Camila Maria Andrade Dos Santos<sup>2</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" (Unesp)

**SP3-H10 - Dual phase steels for Stamped Parts**

Marcos Castro<sup>1</sup>; <sup>1</sup>Universidade Presbiteriana Mackenzie

**SP3-H11 - Precipitation Behavior Analysis of Nanostructured Cu-Co Alloys Produced by Chemical Route Synthesis**

Natasha Midori Suguhiro<sup>1</sup>, Ivan Guillermo Solórzano-Naranjo; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro

**SP3-H12 - Cold deformation effect on the microstructures and mechanical properties of AISI 301LN and 316L stainless steels**

Paulo Maria Oliveira Silva, Mairton Cavalcante

Romeu<sup>1,2</sup>, Ronaldo Cristino Mariano, Bruno Sousa Araújo; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia do Ceará, <sup>2</sup>Universidade Federal do Ceará

**SP3-H13 - Characterization of iron-doped CeO<sub>2</sub>-MnOx catalyst synthesized by the method of polymeric precursor**

Erik Benigno Grisi de Araújo Fulgêncio<sup>1</sup>, Ingrid Dantas Silva, André Luiz Araújo Caetano, Cláudia Menegaz Zaccaron Cristiano, Rodrigo Cristiano, Regiane de Cássia Maritan Ugulinode Araújo; <sup>1</sup>Universidade Federal da Paraíba

**SP3-H14 - Computer Simulation In Cylinder Line Of The Centrifugal Casted Aluminum-Silicon Alloy**

Valter Barragan Neto

**SP3-H15 - Design, Construction and Performance of an Equal Channel Angular Pressing Die Dedicated to Texture Alteration of A1AA1050 Sheets**

Phillip Springer<sup>1</sup>, Jose Benaque Rubert, Maurício Ferrante; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP3-H16 - On the application of the classical stress analysis for compliance-based calibration in cracked DC(T) specimens**

Verona Biancardi Oliveira<sup>1</sup>, Jorge Alberto Durán; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP3-H17 - Characterization of porous tungsten obtaining process, applied to the dispenser thermionic cathode for microwave tube technology.**

Artur Guazzelli Leme Silva<sup>1</sup>, Frank Ferrer Sene, Cláudio Costa Motta; <sup>1</sup>Centro Tecnológico da Marinha Em São Paulo

**SP3-H18 - Evaluation of the space holder content in obtaining titanium scaffolds.**

José Luiz Minatti<sup>1</sup>, Gabriel Delaneze Beloque Abib, Durval Rodrigues Júnior; <sup>1</sup>Demar/eel-Usp, Sp

**SP3-H19 - Study of the production of Ti-13Nb-13Zr powder from the solid melted alloy using high energy ball milling.**

José Luiz Minatti<sup>1</sup>, Marília Vasconcellos Agnesini, Douglas Libraiz de Matos, Sandra Giacomini Schneider, Durval Rodrigues Júnior; <sup>1</sup>Demar/eel-Usp, Sp

**SP3-H20 - Influence of Cold Rolling in Rectangular Wires of Austenitic Stainless Steel**

Rodrigo Santos Messner<sup>1</sup>, André Itman Filho; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia do Espírito Santo

**SP3-H21 - Thermomechanical Characterization of**

**a CFRP-NiTi Composite Active**

Zoroastro Torres Vilar, Artur Soares Cavalcanti Leal, Abdias Gomes Dos Santos, Maurilio Beutrão

D'albuquerquea Cavalcante, Carlos José de Araujo

**SP3-H22 - Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass of**

**Cu<sub>56</sub>Zr<sub>31</sub>Ti<sub>13</sub> alloy**

Luis César Rodríguez Aliaga

**SP3-H23 - Secondary Graphitization in Gray Cast Iron**

Amanda Souza Oliveira Pimentel<sup>1</sup>, Wilson Luiz

Guesser, Helio Goldenstein<sup>2</sup>; <sup>1</sup>Universidade do Estado de Santa Catarina, <sup>2</sup>Escola Politécnica da

Universidade de São Paulo

**SP3-H24 - Evaluation of the tribological behavior of sensitized austenitic stainless steel**

Guilherme Alexandre Zeferino<sup>1</sup>, Elaine Manganeli

Guidi<sup>1</sup>, Angela Beatriz Coelho Arnt, Cleber Pereira

Fenili, Marcio Roberto da Rocha; <sup>1</sup>Universidade do Extremo Sul Catarinense

**SP3-H25 - Phase transitions in the Cu-**

**22.49at.%Al-10.01at%Mn-1.53at.%Ag alloy**

Ricardo Alexandre Galdino da Silva, Sergio Gama,

Antonio Tallarico Vicente Adorno, Thaisa Mary

Carvalho, Aroldo Geraldo Magdalena<sup>1</sup>, Camila Maria

Andrade Dos Santos<sup>2</sup>; <sup>1</sup>Instituto de Química

Unesp, <sup>2</sup>Universidade Estadual Paulista "júlio de

Mesquita Filho" (Unesp)

**SP3-H26 - Characterization of oxides formed during hot rolling of steel**

Pedro Henrique Damião Daló<sup>1</sup>, José Milton Gabriel

Lopes, Fernando Vernilli Júnior, Bruno Vidal

Almeida; <sup>1</sup>Escola de Engenharia de Lorena - Usp

**SP3-H27 - Quantification of delta phase present in Inconel 718 subjected to thermomechanical treatment and representation of data by type of triaxial diagrams**

José Eduardo Fonseca, Russel Lysyk, Douglas

Demori, Afonso Reguly

**SP3-H28 - Simulation Of Electrified Three-Dimensional Microstructure Used For Retention Voc'S**

Lilian Marques Silva<sup>1</sup>, Eik Tenório<sup>2</sup>; <sup>1</sup>Universidade

Paulista, <sup>2</sup>Faculdade de Tecnologia de Tatuí

**SP3-H29 - Evaluation of the Corrosivity of Industrial and Urban Environment In the West Zone of Rio de Janeiro**

José Roberto Sá de Oliveira<sup>1,2</sup>, Carlos Alberto Martins

Ferreira<sup>2</sup>; <sup>1</sup>Centro Universitário Estadual da Zona

Oeste, <sup>2</sup>Thyssenkrupp Csa Siderúrgica do Atlântico

**SP3-H30 - Characteristics of passive films growth**

**on shape memory stainless steels**

Carlos Alberto Della Rovere, José Henrique Alano,

Rodrigo Silva, Pedro Augusto de Paula Nascente<sup>1</sup>,

Jorge Otubo, Sebastião Elias Kuri; <sup>1</sup>Universidade

Federal de São Carlos

**SP3-H31 - Forging press beam failure analysis and material selection**

Cristiane Ramos Santos, Davi Costa Campos,

Emerson Andrade Monteiro, Fellipe Maia Souza,

Willem Vieira Nascimento, Sandro Griza, Telmo

Roberto Strohaecker

**SP3-H32 - Microtomography inspection in microalloyed steels**

Inaya Lima<sup>1</sup>, Gabriela Ribeiro Pereira, Edson Moreira

Vasques, Luis Chad, Marcos Ponciano Souza, Robson

Manao, Ricardo Tadeu Lopes; <sup>1</sup>Universidade Federal

do Rio de Janeiro

**SP3-H33 - Corrosion evaluation of austenitic stainless steel 316L microstructures due to different heat treatment conditions**

Marcio Jose Rosales<sup>1</sup>, Renan Henrique Savio, Osmar

Roberto Bagnato; <sup>1</sup>Laboratório Nacional de Luz

Sincrotron

**SP3-H34 - TIG welding processes studies in recrystallized niobium for high vacuum applications**

Ronaldo Gabriel Silva, Marcio Jose Rosales<sup>1</sup>, Osmar

Roberto Bagnato, Felipe Eduardo

Manoel; <sup>1</sup>Laboratório Nacional de Luz Sincrotron

**SP3-H35 - Control of silver nanoparticles morphology using light emission diodes.**

Jamil Saade, Josivandro do Nascimento Silva<sup>1</sup>, Cid

Bartolomeu de Araújo; <sup>1</sup>Universidade Federal de

Pernambuco

**SP3-H36 - The Influence of Copper Phtalocyanine on the Conductivity and Activation Energy of PPS**

Edinilton Morais Cavalcante<sup>1</sup>, Rosmary Alves

Magalhães, Monica Regina Scaramuza

Lima; <sup>1</sup>Universidade Estadual Paulista "júlio de

Mesquita Filho" - Campus Ilha Solteira

**SP3-H37 - One-stepsynthesis of Ag nanoprisms with control of the nanoparticles dimensions**

Jamil Saade, Josivandro do Nascimento Silva<sup>1</sup>,

Patrícia Maria de Albuquerque Farias, Cid Bartolomeu

de Araújo; <sup>1</sup>Universidade Federal de Pernambuco

**SP3-H38 - Dispersion of hydroxyapatite in 316L**

**stainless steel for biomedical applications.**

João Carlos da Silva<sup>1</sup>, Fernando Vernilli Júnior,

Gilbert Silva; <sup>1</sup>Escola de Engenharia de Lorena - Usp

**SP3-H39 - Temper Embrittlement in Carbon and Low Alloy Steels**

Thigo Paulino Tranin, Carlos Roberto Xavier, Rosinei Batista Ribeiro

**SP3-H40 - Microstructural characteristics and corrosion behavior of a Ni-based superalloy in aggressive environments**

José Henrique Alano, Carlos Alberto Della Rovere, Sebastião Elias Kuri

**SP3-H41 - Correlation Of Cooling Rates With The Percentage Ofphases And Mechanical**

**Characteristics Through The Jominy Test**

Saul Luchtemberg Bitencourt<sup>1</sup>, César Rolando Nunura, Jaime Alvares Spim; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-H42 - Analysis Of Influence Of The Temperature Tempering Process Of Heat Treatment Of Steel Sae 5160.**

Patrich Daniel Damasseno<sup>1</sup>, Saul Luchtemberg Bitencourt<sup>1</sup>, Guilherme Tkotz, Jaime Alvarez Spim; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-H43 - Effects of the heating rate in the transformation phase of the alloy Ti-6Al-2Sn-4Zr-6MO in the dilatometry**

Volney Mattos de Oliveira

**SP3-H44 - Use of steel waste in the pavers 's manufacture**

Cinthia Brito Fonseca<sup>1</sup>, Rodrigo Bergami Trevizani<sup>1</sup>, Fabrício Moura Dias; <sup>1</sup>Centro Universitário do Leste de Minas Gerais

**SP3-H45 - Sintering of austenitic steel-reinforced WC-10%Co for applications in drilling tools**

Alessandra Agna Araújo Dos Santos<sup>1</sup>, Marciano Furukava, Márcio Furukava, Uilame Umbelino Gomes, Roberto Cavalcante Menezes, Igor Jefferson Araújo<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP3-H46 - Characterization of precipitate FeyAlx in alloy AA3003 by method of X-ray diffraction**

João Genuíno Júnior, Josy Oliveira<sup>1</sup>, Raphael Félix Rezende, Igor Jefferson Araújo<sup>1</sup>, Sérgio Rodrigues Barra; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP3-H47 - Influence of cooling rate in the interlayer and the Mechanical Properties of Steels Common Perlite**

Ubirajara Domingos Castro<sup>1</sup>; <sup>1</sup>Centro Universitário Newton Paiva

**SP3-H48 - Sputtering onto Liquids: From Nanoparticles to Thin Films**

Heberton Wender, Renato Vitalino Gonçalves<sup>1</sup>, Adriano Friedrich Feil<sup>1</sup>, Pedro Migowski, Jairton Dupont, Sergio Ribeiro Teixeira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-H49 - Liquid phase sintering of self-lubricating Fe-hBN composites**

Gisele Hammes, Aloísio Nelmo Klein<sup>1</sup>, Cristiano Binder, Markus Vinicius Silveira, Rodrigo Pereira Becker<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-H50 - Effect of additions of Si on microstructure and elastic modulus of Ti-Nb-based alloys for biomedical applications**

Andrea Macleybiane Gois Tavares<sup>1</sup>, Dárcio Hersch Gomes de Souza Sá<sup>1</sup>, Sandra Andreia Stewart de Araujo Souza, Wilton Walter Batista; <sup>1</sup>Universidade Federal de Sergipe

**SP3-H51 - Fatigue Strength of alfa + beta and beta Ti-6Al-4V Alloys**

Silvando Vieira Dos Santos, Dárcio Hersch Gomes de Souza Sá<sup>1</sup>, Sandro Griza; <sup>1</sup>Universidade Federal de Sergipe

**SP3-H52 - Structure and properties of quenched and cyclic deformed Ti-(6-15%)Mo alloys**

Márcia Almeida Silva, Lioudmila Aleksandrovna Matlakhova<sup>1</sup>, Anatoliy Nikolaevich Matlakhov<sup>1</sup>, Herval Ramos Paes Júnior, Boris Andreevich Goncharenko; <sup>1</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro

**SP3-H53 - Mechanical Behavior and Fracture of a Monocrystalline Cu-13.7%Al-4.2%Ni Alloy Subjected to 500 Cycles of Thermal Cycling Treatment Under Loads**

Lioudmila Aleksandrovna Matlakhova<sup>1</sup>, Elaine Cristina Pereira Oliveira, Anatoliy Nikolaevich Matlakhov<sup>1</sup>; <sup>1</sup>Universidade Estadual do Norte Fluminense Darcy Ribeiro

## SYMPOSIUM I

### Sol-gel route to prepare new inorganic, hybrid and multifunctional materials

#### Chairs

Márcia Russman Gallas (IF-UFRGS)  
Tania Maria Haas Costa (IQ-UFRGS)  
Fabiano S. Rodembush (IQ-UFRGS)  
Leandra F. Campo (IQ-UFRGS)  
Sandra Helena Pulcinelli (IQ-UNESP)  
Sidney J. L. Ribeiro (IQ-UNESP)  
Marcia Carvalho de Abreu Fantini (IF-USP/SP)  
Yoshitaka Gushikem (IQ-UNICAMP)



## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY , SEPTEMBER 26TH

#### SESSION I1

09:30 - 10:30 - Room 23

09:30 - I1.1\*

**Silica-organic hybrid materials: characterization of energetic heterogeneity and cooperativity effects on the base of surface probing**

Inna Khristenko, Andrey Baraban, Anton Panteleimonov, Yoshitaka Gushikem<sup>1</sup>, Yuriy Kholin<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>V.n. Karazin Kharkiv National University

10:00 - I1.2

**In situ immobilization of cobalt phthalocyanine on the mesoporous carbon ceramic SiO<sub>2</sub>/C prepared by the sol-gel process: application as an oxalic acid sensor**

Abdur Rahim<sup>1</sup>; <sup>1</sup>State University Of Campinas

10:15 - I1.3

**Comparative study of two electrochemical sensors for nitrite based on gold nanoparticles/silsesquioxane dispersed on Al/silica matrix**

Eliana Weber de Menezes<sup>1,2</sup>, Leliz Ticona Arenas, Michael Ramos Nunes<sup>3</sup>, José Ribeiro Gregório, Yoshitaka Gushikem<sup>4</sup>, Silvio Luis Pereira Dias, Irene Teresinha Santos Garcia<sup>4</sup>; <sup>1</sup>Instituto de Química, <sup>2</sup>Institute Of Chemistry, <sup>3</sup>Universidade Federal do Rio Grande do Sul, <sup>4</sup>Universidade Estadual de Campinas

#### SESSION I2

11:00 - 12:15 - Room 23

11:00 - I2.1\*

**Preparation, Structure and Properties of Hybrid Organic-Inorganic Materials for New Applications**

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

11:30 - I2.2

**Functionalization of cubic mesoporous silica with alkoxy silane groups for drug delivery**

Gracielle Ferreira Andrade<sup>1</sup>, Edésia Martins Barros de Sousa<sup>2</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear

11:45 - I2.3

**The effect of bioactive glass nanoparticles on the**

**behavior of human periodontal ligament cells**

Sandhra Maria Carvalho, Agda Aline Oliveira, Lídia Maria Andrade, Maria Fátima Leite, Marivalda Magalhães Pereira

12:00 - I2.4

**Magnesium Oxide Macroporous Sintered Membranes**

Leydi Del Rocío Silva Calpa<sup>1</sup>, Johnny Huerta Flores, Maria Isabel Pais da Silva, Sidnei Paciornik<sup>1</sup>, Roberto R de Avillez<sup>1</sup>; <sup>1</sup>Pontifícia Universidade Católica do Rio de Janeiro

#### SESSION I3

15:00 - 16:00 - Room 23

15:00 - I3.1\*

**Organic-inorganic hybrid materials for nanothermometry, solar energy conversion and integrated optics**

Luis Dias Carlos<sup>1</sup>; <sup>1</sup>University Of Aveiro

15:30 - I3.2

**Energy up-conversion in organic-inorganic hosts containing YVO<sub>4</sub>:Yb:Tm:Ho:Er nanoparticles**

Sidney José Lima Ribeiro

15:45 - I3.3

**H<sub>2</sub>-TPR Characterisation of Cobalt Impregnated MCM-48**

Luana Vohlbrecht de Souza<sup>1</sup>, Marcius Andrei Ullmann<sup>1</sup>, Jose Augusto Dos Santos Junior, Wilhelm Martin Wallau; <sup>1</sup>Universidade Federal de Pelotas

### TUESDAY , SEPTEMBER 27TH

#### SESSION I4

09:30 - 10:30 - Room 23

09:30 - I4.1\*

**Some uses of hydrolytic and non-hydrolytic sol-gel process by the research group of Unifran**

Katia Jorge Ciuffi<sup>1</sup>, Eduardo José Nassar, Emerson Henrique de Faria, Lucas Alonso Rocha<sup>1</sup>, Paulo Sérgio Calefi; <sup>1</sup>Universidade de Franca

10:00 - I4.2

**Surfactants for CNTs dispersion in zirconia-based ceramic matrix obtained by sol-gel method**

Voltaire de Oliveira Almeida<sup>1</sup>, Naira Maria Balzaretto<sup>2</sup>, Tania Maria Haas Costa<sup>2</sup>, Geraldo Beyer Machado<sup>3</sup>, Patrícia Rodrigues da Silva<sup>3</sup>, Marcia Russman Gallas; <sup>1</sup>Federal University Of Rio Grande do Sul, <sup>2</sup>Universidade Federal do Rio Grande do Sul, <sup>3</sup>Institute Of Chemistry

10:15 - I4.3

**Ceria-Zirconia Nanopowder from Sol-Gel Route**

Maria do Carmo Andrade Nono

### SESSION I5

**11:00 - 12:30 - Room 23**

**11:00 - I5.1\***

#### **Ionic silica based hybrid materials**

Edilson V Benvenuti<sup>1</sup>; <sup>1</sup>Institute Of Chemistry

**11:30 - I5.2**

#### **Surfactant-based dispersant for multiwall carbon nanotubes to prepare alumina composites by sol-gel method**

Patrícia Rodrigues da Silva<sup>1</sup>, Giovani Ritta Rodrigues, Tania Maria Haas Costa<sup>2</sup>, Geraldo Beyer Machado<sup>3</sup>, Edilson V Benvenuti<sup>3</sup>, Marcia Russman Gallas; <sup>1</sup>Federal University Of Rio Grande do Sul, <sup>2</sup>Universidade Federal do Rio Grande do Sul, <sup>3</sup>Institute Of Chemistry

**11:45 - I5.3**

#### **Hybrid xerogels catalyst containing gold nanoparticles stabilized by ionic silsesquioxane containing the 1,4-diazoniabicyclo[2.2.2]octane group**

Michael Ramos Nunes<sup>1,2</sup>, Jairton Dupont, Marcelo Barbalho Pereira<sup>3</sup>, Tania Maria Haas Costa<sup>3</sup>, Edilson Valmir Benvenuti, Richard Landers; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Institute Of Chemistry, <sup>3</sup>Institute Of Physics - Ufrgs

**12:00 - I5.4**

#### **Weak polyion multilayer assisted in-situ sol-gel synthesis as a route towards a plasmonic Ag/TiO<sub>2</sub> photocatalyst**

Manca Logar, Boštjan Jančar, Sašo Šturm, Danilo Suvorov

**12:15 - I5.5**

#### **Precursor modification in sol-gel-derived Bi-based thin films**

Asja Veber<sup>1</sup>, Spela Kunej, Danilo Suvorov; <sup>1</sup>Jozef Stefan Institute

## WEDNESDAY, SEPTEMBER 28TH

### SESSION I6

**09:30 - 10:15 - Room 23**

**09:30 - I6.1**

#### **Sol-gel route to prepare well-ordered nanotubes/wires with anodic aluminum oxide template**

Luiz Augusto Sousa de Oliveira<sup>1</sup>, Kleber Roberto Pirota; <sup>1</sup>Universidade Estadual de Campinas

**09:45 - I6.2**

#### **Silicon oxycarbide (SiOC) and titanium oxycarbide(SiTIOC) derived-glasses from polysiloxanes prepared by the Sol-gel process**

Aloízio Geraldo de Araújo Júnior, Breno Ferreira de Sousa<sup>1</sup>, Ana Lúcia Exner Godoy, Tulio Hallak Panzera, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei

**10:00 - I6.3**

#### **Synthesis of fluoroapatite- hydroxyapatite nanoparticles and toxicity investigations**

Khalil Pourshamsian, Rahim Jahandideh, Esmail Biazar<sup>1</sup>; <sup>1</sup>Islamic Azad University- Tonekabon Branch

### SESSION I7

**11:00 - 12:15 - Room 23**

**11:00 - I7.1\***

#### **Unified Mechanism of Formation, Aggregation and Growth of ZnO Quantum Dots**

Celso Valentim Santilli<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Araraquara

**11:30 - I7.2**

#### **New luminescent materials based on iridium complexes incorporated in mesoporous silica hosts: In situ versus topotactic approaches**

Andrea Simone Stucchi de Camargo<sup>1</sup>, Moema de Barros E Silva Botelho, Jesus Miguel Fernández-Hernández, Thiago Branquinho de Queiroz, Hellmut Eckert<sup>1</sup>, Luisa de Cola; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos

**11:45 - I7.3**

#### **Influence of impurities on the luminescence of erbium doped barium titanate nanophosphors**

Geovana Dresch Webler<sup>1</sup>, Maximiliano J. Moreno Zapata, Glauco S. Maciel, Amitava . Patra, Jandir Miguel Hickmann, Márcio André Rodrigues Cavalcanti Alencar; <sup>1</sup>Universidade Federal de Alagoas

**12:00 - I7.4**

#### **Effect of silica surface on luminescence properties of Tb<sup>3+</sup>-glutamic acid**

Juliana Jorge<sup>1</sup>, José Maurício Almeida Caiut, Jeannette Dexpert-Ghys, Marc Verelst, Gustavo Rocha de Castro, Marco Antonio Utrera Martinez; <sup>1</sup>Universidade Federal de Mato Grosso do Sul

## POSTER PRESENTATIONS

**TUESDAY, SEPTEMBER 27TH**

**SESSION SP2**

**14:00 - 16:00 - Exhibition Hall**

**SP2-I1 - High surface area silica/titania materials**

Tania Maria Haas Costa<sup>1</sup>, Carlos Fabiano Alteneta Garss, Edilson Valmir Benvenutti; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-I2 - Preparation and Characterization of Silica-Based Organic-Inorganic Hybrid Sorbents Modified with Iodine**

Júnia Soares Nogueira Chagas<sup>1</sup>, Eduardo Henrique Martins Nunes, Wander Luiz Vasconcelos; <sup>1</sup>Universidade Federal de Minas Gerais

**SP2-I3 - Effect of pore texture on catalytic properties of sulfated zirconia foams prepared by sol-gel process**

Marinalva Aparecida Alves Rosa<sup>1</sup>, Leandro Martins, Celso Valentim Santilli<sup>2</sup>, Sandra Helena Pulcinelli<sup>3</sup>; <sup>1</sup>Instituto de Química Araraquara - Unesp, <sup>2</sup>Universidade Estadual Paulista - Araraquara, <sup>3</sup>Chemistry Institute Of Araraquara

**SP2-I4 - Effect of the Nature of Swelling Solvent on Nanostructure and Properties of Sol-Gel derived Proton-Conducting SPEEK and Zirconia-SPEEK Hybrid Membranes for Direct Alcohol Fuel Cells**

Karim Dahmouche<sup>1</sup>, Carla Akimi Kawaguti, Ailton de Souza Gomes; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP2-I5 - Aynthesis of Al<sub>2</sub>O<sub>3</sub> nanosized powders via sol-gel method y<sub>2</sub>o<sub>3</sub> added to commercial**

Suzana Arleno Souza Santos, Eduardo Sousa Lima, Célio Albano da Costa Neto, Roberto R de Avillez<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio de Janeiro

**SP2-I6 - Effect of Drug Content on Structure and Drug Release Mechanisms of Sol-Gel derived Siloxane-PMMA Hybrids Materials encapsulating Rifampicine**

Karim Dahmouche<sup>1</sup>, Bianca Ferreira, Felipe Siqueira Pais<sup>1</sup>, Caio Marcio Paranhos da Silva<sup>2</sup>, Ailton de Souza Gomes; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Universidade Federal de São Carlos

**SP2-I7 - Surfactants mixture as pores template in the sol-gel processing of zirconia ceramic foams**

Marinalva Aparecida Alves Rosa<sup>1</sup>, Leandro Martins, Celso Valentim Santilli<sup>2</sup>, Sandra Helena Pulcinelli<sup>3</sup>; <sup>1</sup>Instituto de Química Araraquara - Unesp, <sup>2</sup>Universidade Estadual Paulista -

Araraquara, <sup>3</sup>Chemistry Institute Of Araraquara  
**SP2-I8 - Simultaneous determination of hydroquinone, catechol and resorcinol on the Nb<sub>2</sub>O<sub>5</sub> thin film on the carbon ceramic material SiO<sub>2</sub>/C/Nb<sub>2</sub>O<sub>5</sub> used as an electrochemical sensor**  
Thiago da Cruz Canevari, Leliz Ticona Arenas,

Richard Landers, Yoshitaka Gushikem<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

**SP2-I9 - Polymeric precursors for synthesis of inorganic ceramic pigments based on chromium and iron deposited on TiO<sub>2</sub> and their characterizations.**

Everlânia Maria da Silva<sup>1</sup>, Sheila Bernhard Galvao<sup>1</sup>, Dárcia Sâmia Santos Moura<sup>1</sup>, Carlos Alberto Paskocimas; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP2-I10 - Effect of Clay Incorporation on the Structure and Properties of Ureasil-Polyether Hybrids**

Celso Ricardo Nogueira Jesus, Eduardo Ferreira Molina, Sandra Helena Pulcinelli<sup>1</sup>, Celso Valentim Santilli<sup>2</sup>; <sup>1</sup>Chemistry Institute Of Araraquara, <sup>2</sup>Universidade Estadual Paulista - Araraquara

**SP2-I11 - Alumina foams with a hierarchal pore structure**

Aline Ribeiro Passos<sup>1</sup>, Leandro Martins, Sandra Helena Pulcinelli<sup>2</sup>, Celso Valentim Santilli<sup>3</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Chemistry Institute Of Araraquara, <sup>3</sup>Universidade Estadual Paulista - Araraquara

**SP2-I12 - Study of Iron Nanoparticles in Ureasil-Polyether Hybrid Matrix for Controlled Drug Delivery Systems.**

Eduardo Ferreira Molina, Peter Hammer, Sandra Helena Pulcinelli<sup>1</sup>, Celso Valentim Santilli<sup>2</sup>; <sup>1</sup>Chemistry Institute Of Araraquara, <sup>2</sup>Universidade Estadual Paulista - Araraquara

**SP2-I13 - TiO<sub>2</sub> nanoparticles in liquid crystal formulations for sunscreen and drug delivery**

Renata Cristina Kiatkoski Kaminski<sup>1</sup>, Eloísa Berbel Manaia, Marina Paiva Abuçafi, Christiane Pienna Soares, Celso Valentim Santilli<sup>2</sup>, Sandra Helena Pulcinelli<sup>3</sup>, Leila Aparecida Chiavacci<sup>4</sup>; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Universidade Estadual Paulista - Araraquara, <sup>3</sup>Chemistry Institute Of Araraquara, <sup>4</sup>Faculdade de Ciências Farmacêuticas

**SP2-I14 - Efect of complexing and hydrolyses ratios on the nanostructure of sol-gel derived titania**

Renata Cristina Kiatkoski Kaminski<sup>1</sup>, Sandra Helena Pulcinelli<sup>2</sup>, Valérie Briois, Celso Valentim Santilli<sup>3</sup>; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Chemistry Institute Of Araraquara, <sup>3</sup>Universidade Estadual Paulista - Araraquara

**SP2-I15 - Thermal catalytic properties of Mn supported on porous nanostructures and technological applications of them**

Marcus Andrei Ullmann<sup>1</sup>, Andressa da Cruz Schneid<sup>1</sup>, Daniela . Bianchini<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas

**SP2-I16 - Correlation of EDX, RBS and AAS for Mn determination in nanostructures obtained with sol-gel process**

Andressa da Cruz Schneid<sup>1</sup>, Marcus Andrei Ullmann<sup>1</sup>, Adriane Medeiros Nunes, Fernanda Chiarello Stedile, Daniela . Bianchini<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas

**SP2-I17 - Effect of Siloxane Phase Morphology on Structure and Properties of new Epoxy-Siloxane Nanocomposites prepared by Sol-Gel Process**

Karim Dahmouche<sup>1</sup>, Ana Paula Solymossy, Bluma Guenther Soares; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP2-I18 - Preparation and Photochromic Behavior Study of Ormosil-Polyoxometalate Hybrid films doped with ZnO Nanoparticles**

Elias Paiva Ferreira Neto<sup>1</sup>, Ubirajara Pereira Rodrigues Filho; <sup>1</sup>Universidade de São Paulo

**SP2-I19 - Synthesis and characterization of SBA-15 chemically modified with 4,4'-bipyridine alkoxy silane derivatives. Study of the CuCl<sub>2</sub> adsorption from ethanol solution**

Natalia Fattori<sup>1</sup>, Camila Marchetti Maroneze<sup>1</sup>, Hérica Aparecida Magosso, Yoshitaka Gushikem<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

**SP2-I20 - Synthesis and optical properties of polythiophene-silica hybrid materials**

Vanessa Cristina Gonçalves<sup>1</sup>, Celso Valentim Santilli<sup>2</sup>, Sandra Helena Pulcinelli<sup>3</sup>; <sup>1</sup>Instituto de Química, <sup>2</sup>Universidade Estadual Paulista - Araraquara, <sup>3</sup>Chemistry Institute Of Araraquara

**SP2-I21 - Hydrophilic or Hydrophobic, Anti-Reflective Aerogel Coatings**

Kelly Cristine Camargo<sup>1</sup>, Alexandre Fassini Michels, Marcelo Barbalho Pereira<sup>1</sup>, Fabiano Severo Rodembusch<sup>2</sup>, Rafael Otoniel Cunha, Flavio Horowitz; <sup>1</sup>Institute Of Physics - Ufrgs, <sup>2</sup>Federal University Of Rio Grande do Sul

**SP2-I22 - Hybrid Proton Conducting Membrane**

**Based on SPEEK and Modified Silica**

Florêncio Gomes de Ramos Filho<sup>1</sup>, Karim Dahmouche, Patrick Judenstein, Ailton de Souza Gomes; <sup>1</sup>Universidade Estadual da Zona Oeste

**SP2-I23 - MoO<sub>3</sub> thin films prepared by the sol-gel process**

Rafaela Moreira Javier Lemos<sup>1</sup>, Franciani Sentanin, Agnieszka Pawlicka, Gian Paganotto, César Antonio Oropesa Avellaneda, Neftalí Lenin Villarreal Carreño; <sup>1</sup>Universidade Federal de Pelotas

**SP2-I24 - Preparation of modified silica using sol-gel process**

Gilmar Patrocinio Thim, Tiago Moreira Bastos Campos, Luciana de Simone Cividanes Coppio, Deborah Dibbern Brunelli, Kumiko K Sakane

**SP2-I25 - Effect of Drug Content on Structure and Drug Release Mechanisms of Sol-Gel derived Siloxane-PPO Hybrids Materials encapsulating Propranolol Chloride**

Ranielle Oliveira Silva<sup>1</sup>, Karim Dahmouche<sup>2</sup>, Caio Marcio Paranhos da Silva<sup>3</sup>; <sup>1</sup>Universidade Estadual da Zona Oeste, <sup>2</sup>Universidade Federal do Rio de Janeiro, <sup>3</sup>Universidade Federal de São Carlos

**SP2-I26 - SiO<sub>2</sub>, TiO<sub>2</sub> and SiO<sub>2</sub>:TiO<sub>2</sub> matrices functionalized with Eu(btfa) complex**

Wagner Eduardo Silva<sup>1</sup>, Gilberto Fernandes Sá, Mônica Freire Belian<sup>2</sup>, Ana Gabriela da Silva Bezerra<sup>2</sup>, Roberta Felix de Oliveira<sup>2</sup>; <sup>1</sup>Universidade Federal de Pernambuco, <sup>2</sup>Universidade Federal Rural de Pernambuco

**SP2-I27 - One-pot Synthesis of a Novel Crown Ether Polysiloxanes: Promising Solid State Ionophores**

Mônica Freire Belian<sup>1</sup>, Dilmo Marques Leotério, André Galembeck, Gilberto Fernandes Sá, Severino Alves Junior; <sup>1</sup>Universidade Federal Rural de Pernambuco

**SP2-I28 - Structural investigation of Styrene-Butadiene Rubber and Laponite Nanocomposites by solid state <sup>13</sup>C NMR.**

Tatiane Moraes Arantes<sup>1</sup>, Emerson Rodrigues Camargo; <sup>1</sup>Universidade Federal de São Carlos

**SP2-I29 - Protoporphyrin IX - SiO<sub>2</sub>/TiO<sub>2</sub> material prepared by sol-gel process: synthesis, characterization and application in photochemistry.**

Sheila Southgate de Oliveira<sup>1</sup>, Rodrigo José Correa, Emerson Schwingel Ribeiro, Marcela Betta Olimpico Nascimento<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP2-I30 - Morphological transformations onto bioglass immersed in different aqueous media**

Gilderman Silva Lázaro<sup>1</sup>, Silmara Caldas Santos<sup>1</sup>,  
Cristiane Xavier Resende, Ledjane Silva Barreto,  
Euler Araujo Dos Santos; <sup>1</sup>Universidade Federal de  
Sergipe

**SP2-I31 - Catalytic performance of mesoporous silica-coated maghemite compounds .**

Jediel Oliveira Damas, Gustavo Pimenta Ricci,  
Robson Rosa da Silva, Sidney Jose Ribeiro, Marcio  
Luis Silva, Omar Jose de Lima, Lucas Alonso  
Rocha<sup>1</sup>; <sup>1</sup>Universidade de Franca

**SP2-I32 - Formation of TiO<sub>2</sub> ceramic foams from the integration of the sol-gel method and ionic/nonionic surfactants micelles**

Renata Ferreira Lins<sup>1</sup>, Celso Valentim Santilli<sup>2</sup>,  
Sandra Helena Pulcinelli<sup>3</sup>; <sup>1</sup>Instituto de Quimica  
Unesp, <sup>2</sup>Universidade Estadual Paulista -  
Araraquara, <sup>3</sup>Chemistry Institute Of Araraquara

**SP2-I33 - New Bridged polysilsesquioxane for the controlled delivery of Mesalamine**

Fozia Rehman Khan<sup>1</sup>, Pedro Luiz Onófrío  
Volpe; <sup>1</sup>Universidade Estadual de Campinas

**SP2-I34 - Influence of surface modification of mesoporous silica on the photoluminescence of a europium complex**

Roberto Medeiros Silveira<sup>1</sup>, Gustavo Rocha de Castro,  
Marco Antonio Utrera Martines; <sup>1</sup>Universidade  
Federal de Mato Grosso do Sul

**SP2-I35 - Controlled release study of rutin impregnated into mesoporous silica**

Bárbara Medeiros Dantas<sup>1</sup>, Everton Rodrigues de  
Almeida, Fernanda Rodrigues Garcez, Walmir Silva  
Garcez, Gustavo Rocha de Castro, Cristiane Justino do  
Nascimento, Marco Antonio Utrera  
Martines; <sup>1</sup>Universidade Federal de Mato Grosso do  
Sul

**SP2-I36 - Study of organoclay incorporation on dispersion and release kinetics of rifampicine encapsulated in Siloxane-PMMA hybrid materials.**

João Felipe Mathiazi Pereira de Souza, Karim  
Dahmouche<sup>1</sup>, Caio Marcio Paranhos da Silva<sup>2</sup>, Ailton  
de Souza Gomes; <sup>1</sup>Universidade Federal do Rio de  
Janeiro, <sup>2</sup>Universidade Federal de São Carlos

**SP2-I37 - Study of immobilization of the porphyrin in a new SiO<sub>2</sub>/Nb<sub>2</sub>O<sub>5</sub>/ZnO material obtained by sol-gel process for use in photodynamic therapy.**

Marcela Betta Olimpio Nascimento<sup>1</sup>, Sheila Southgate  
de Oliveira<sup>1</sup>, Rodrigo José Correa, Emerson  
Schwingel Ribeiro; <sup>1</sup>Universidade Federal do Rio de  
Janeiro

**SP2-I38 - Development of geopolymers from coal bottom ash alkaline activation**

Rozineide A. Antunes Boca Santa<sup>1</sup>, Adriano Michael  
Bernardin, Humberto Gracher Riella, Nivaldo Cabral  
Kuhnen; <sup>1</sup>Universidade Federal de Santa Catarina

**SP2-I39 - Hybrid mesoporous materials containing 1,4-diureylenebenzene moieties**

Tania Maria Haas Costa<sup>1</sup>, Sílvia Regina Grando,  
Edilson Valmir Benvenuti, Leandra Franciscato  
Campo; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-I40 - Sol-gel Synthesis of Glass Feldspathic Shirleny Fontes Santos**

Shirleny Fontes Santos<sup>1</sup>, Erica Vidaurre Senatore<sup>2</sup>,  
Tsuneharu Ogasawara; <sup>1</sup>Centro Universitário Estadual  
da Zona Oeste, <sup>2</sup>Universidade Federal do Rio de  
Janeiro

**SP2-I41 - TiO<sub>2</sub> anatase nanorods from faceted nanoparticles**

Cleocir José Dalmaschio, Edson Roberto Leite, Elson  
Longo

**SP2-I42 - Influence of molar ratio Tb<sup>3+</sup>:Eu<sup>3+</sup> on the structural and luminescent characteristics of mesoporous silica gel.**

Renan Gustavo Coelho de Souza Reis<sup>1</sup>, José Maurício  
Almeida Caiut, Samuel Leite Oliveira, Sidney José  
Lima Ribeiro, Marco Antonio Utrera  
Martines; <sup>1</sup>Universidade Federal do Mato Grosso do  
Sul

**SP2-I43 - Synthesis of ordered mesoporous silica using Pluronic F-127 as structure-directing agent**

Everton Rodrigues de Almeida, Roberto Medeiros  
Silveira<sup>1</sup>, Gustavo Rocha de Castro, Marco Antonio  
Utrera Martines; <sup>1</sup>Universidade Federal de Mato  
Grosso do Sul

**SP2-I44 - Luminescent material based on Eu(TTA)<sub>3</sub>(H<sub>2</sub>O)<sub>2</sub> complex incorporated into modified silica particles for biological applications**

Ana Valéria Santos de Lourenço<sup>1</sup>, Cláudia Akemi  
Kodaira, Eduardo Milton Ramos Sanchez, Maria  
Cláudia Felinto, Hiro Goto, Magnus Gidlund, Hermi  
Felinto Brito; <sup>1</sup>Instituto de Química - Usp

**SP2-I45 - Phenol removal from aqueous solution by carbon xerogel**

Gilmar Patrocinio Thim, Liana A Rodrigues, Manoel  
A Mendes, Aparecido R Coutinho, Maria Lucia  
Caetano Pinto da Silva

**SP2-I46 - Photophysics of aminobenzazole dyes in silica-based hybrid materials**

Fabiano Severo Rodembusch<sup>1</sup>, Sílvia Regina Grando,  
Fabiano da Silveira Santos, Marcia Russman Gallas,  
Tania Maria Haas Costa<sup>2</sup>, Edilson Valmir  
Benvenuti; <sup>1</sup>Federal University Of Rio Grande do  
Sul, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP2-I47 - Influence of the Eu<sup>3+</sup> concentration**

**doped into gadolinium aluminate phosphor**

Marcela Guedes Matos<sup>1</sup>, Lucas Alonso Rocha<sup>1</sup>, Emerson Henrique de Faria, Katia Jorge Ciuffi<sup>1</sup>, Paulo Sérgio Calefi, Eduardo José Nassar; <sup>1</sup>Universidade de Franca

**SP2-I48 - Temperature effect on the photoluminescent properties of the Eu<sup>3+</sup> ion doped into the YVO<sub>4</sub> matrix**

Marcela Guedes Matos<sup>1</sup>, Michelle Saltarelli<sup>1</sup>, Lucas Alonso Rocha<sup>1</sup>, Emerson Henrique de Faria, Katia Jorge Ciuffi<sup>1</sup>, Paulo Sérgio Calefi, Eduardo José Nassar; <sup>1</sup>Universidade de Franca

**SP2-I49 - Influence of precursor type on the preparation of YVO<sub>4</sub>:Eu<sup>3+</sup> by the hydrolytic sol-gel methodology.**

Michelle Saltarelli<sup>1</sup>, Marcela Guedes Matos<sup>1</sup>, Emerson Henrique de Faria, Lucas Alonso Rocha<sup>1</sup>, Katia Jorge Ciuffi<sup>1</sup>, Paulo Sérgio Calefi, Eduardo José Nassar; <sup>1</sup>Universidade de Franca

**SP2-I50 - Platinum Nanoparticles Supported On Ionic Liquids Modified- Silica Gel Applied in Hydrogenation Reactions**

Carla Weber Scheeren<sup>1</sup>, Lucas Foppa, Jairton Dupont; <sup>1</sup>Universidade Federal do Rio Grande

**SP2-I51 - Bacterial cellulose/boehmite organic-inorganic hybrids**

Denise Toledo Bonemer de Salvi<sup>1</sup>, Hernane Silva Barud, José Maurício Almeida Caiut, Younés Messaddeq, Sidney José Lima Ribeiro; <sup>1</sup>Instituto de Química

**SP2-I52 - Cerium doped organic-inorganic hybrid coatings applied for corrosion protection of metallic surfaces**

Fábio Cesar Dos Santos<sup>1</sup>, Peter Hammer, Sandra Helena Pulcinelli<sup>2</sup>, Celso Valentim Santilli<sup>3</sup>; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Chemistry Institute Of Araraquara, <sup>3</sup>Universidade Estadual Paulista - Araraquara

**SP2-I53 - Evaluation of the Photo Stability of Photochromic Ormosil-Polyoxometalate Hybrid films by FTIR**

Luciana Valgas de Souza<sup>1,2</sup>, Elias Paiva Ferreira Neto<sup>3</sup>, Ubirajara Pereira Rodrigues Filho; <sup>1</sup>Universidade de São Paulo - Instituto de Química de São Carlos, <sup>2</sup>Instituto de Química de São Carlos, <sup>3</sup>Universidade de São Paulo

**SP2-I54 - Kinetics study of hydrid of sugarcane bagasse cellulose and hydrous aluminium oxide**

Luciana Pereira Silva<sup>1</sup>, Maria Lucia Caetano Pinto da Silva; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP2-I55 - Photosensitive nano-crystalline compound TiO<sub>2</sub>:Si by sol-gel method and its use as a pollution-fighting agent**

Marcos de Castro Carvalho<sup>1</sup>, Elizabeth Lima Moreira, Eduardo Bessa Azevedo, Joana Mara Teixeira Santos; <sup>1</sup>Brazilian Center For Physical Research

**SP2-I56 - Synthesis and Characterization by XRD and TEM of photochromic films doped with nanoparticles of Ormosils**

Lidiane Patricia Gonçalves<sup>1</sup>, Luciana Valgas de Souza<sup>2,3</sup>, Ubirajara Pereira Rodrigues Filho; <sup>1</sup>Interunidades - Marteriais - Eesc/ifsc/iqsc, <sup>2</sup>Universidade de São Paulo - Instituto de Química de São Carlos, <sup>3</sup>Instituto de Química de São Carlos

**SP2-I57 - Preparation and Characterization of Clay/Alpha-Nickel Hydroxide Nanocomposite**

Marins Danczuk<sup>1</sup>, Fauze Jacó Anaissi<sup>1</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste do Paraná

**SP2-I58 - Comparative study of the preparation of nanoparticles of alpha and beta nickel hydroxide by the sol-gel method**

Marins Danczuk<sup>1</sup>, Fauze Jacó Anaissi<sup>1</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste do Paraná

**SP2-I59 - EIS Evaluation of Sol-gel Coatings for Dental Implants**

Alexandre Galio, Luciana Machado Rodrigues

**SP2-I60 - Aluminium and Boron Modified Mesoporous Silica**

Eduardo Vargas Pereira<sup>1</sup>, Wilhelm Martin Wallau, Isabel Pinheiro Candia, Marcius Andrei Ullmann<sup>1</sup>, Juliana Villela Maciel; <sup>1</sup>Universidade Federal de Pelotas

**SP2-I61 - Synthesis and structural analysis of organic-inorganic hybrid materials using different solvents for controlled drug release**

Leila Aparecida Chiavacci<sup>1</sup>, Juliana Fernandes Mendes, Vanessa Cristina Gonçalves<sup>2</sup>, Celso Valentim Santilli<sup>3</sup>, Sandra Helena Pulcinelli<sup>4</sup>; <sup>1</sup>Faculdade de Ciências Farmacêuticas, <sup>2</sup>Instituto de Química, <sup>3</sup>Universidade Estadual Paulista - Araraquara, <sup>4</sup>Chemistry Institute Of Araraquara

**SP2-I62 - Synthesis of Imines from Aldehydes and Modified Silica**

Lara M.pereira Montenegro<sup>1</sup>, Jordana Borges Griep, Fabiele Collovini Tavares, Daniela . Bianchini<sup>1</sup>, Daniela Oliveira Hartwig, Raquel Guimarães Jacob; <sup>1</sup>Universidade Federal de Pelotas

**SP2-I63 - Photocatalytic degradation of dyes with TiO<sub>2</sub>: efficiency studies**

Gislene Custódio, André Luis Pimenta de Faria,

Amanda Gleice da Silva, Paula Carvalho Corrêa, Reinaldo Trindade Proença, Jose Roberto Branco  
**SP2-I64 - Synthesis and characterization of Mo<sub>2</sub>O<sub>5</sub>-SiO<sub>2</sub>, WO<sub>3</sub>-SiO<sub>2</sub>, Cr<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> supports produced by the non-hydrolytic sol-gel process**  
João Henrique Zimnoch Dos Santos<sup>1</sup>, Arthur Bernardes; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-I65 - Effect of the heat treatment conditions on the synthesis of Sr-hexaferrite**

Ricardo Martínez García, Vitaliy Bilovol, Leandro M. Socolovsky<sup>1,2</sup>; <sup>1</sup>Universidad de Buenos Aires, <sup>2</sup>Consejo Nacional Investigaciones Científicas Y Tecnológicas

**SP2-I66 - Synthesis and application of a sol-gel derived carbon ceramic electrode**

Icaro Ariel Simon<sup>1</sup>, Thiago da Cruz Canevari, Yoshitaka Gushikem<sup>2</sup>, Richard Landers, Clarisse Maria Sartori Piatnicki, Leliz Ticona Arenas, Jacqueline Argüello da Silva; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Universidade Estadual de Campinas

## WEDNESDAY, SEPTEMBER 28TH

### SESSION SP3

16:00 - 18:00 - Exhibition Hall

**SP3-I67 - Syntheses of zeolites containing vanadium octahedral in crystallographic structure**

Alex Silva Paula<sup>1</sup>, Adriano de Vasconcellos, Marcus Vinicius Giotto, José Geraldo Nery; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP3-I68 - Synthesis of molecular sieves containing molybdenum its structure**

Alex Silva Paula<sup>1</sup>, Lívia Maria Vargas, José Geraldo Nery; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP3-I69 - Biocompatibility evaluation of siloxane-polyethylene hybrid membranes for implants by in vivo essays**

Leila Aparecida Chiavacci<sup>1</sup>, Leandro Lopes, Luciano Bertaco Pereira, Gabriel R Mortari, Elcio Marcantonio Jr., Luis Carlos Spolidoro, Rosemary Adriana C. Marcantonio; <sup>1</sup>Faculdade de Ciências Farmacêuticas

**SP3-I70 - Macroscopic analysis of siloxane hybrid matrixes containing different drug concentrations.**

Leandro Lopes, Sandra Helena Pulcinelli<sup>1</sup>, Leila Aparecida Chiavacci<sup>2</sup>, Shayene Cynthia Andrade de Almeida<sup>3</sup>, Valerie Briois, Celso Valentim

Santilli<sup>4</sup>; <sup>1</sup>Chemistry Institute Of Araraquara, <sup>2</sup>Faculdade de Ciências Farmacêuticas, <sup>3</sup>Instituto de Química

Unesp, <sup>4</sup>Universidade Estadual Paulista - Araraquara  
**SP3-I71 - Nanocomposites based in bacterial cellulose and metallic colloids.**

Molíria Vieira Dos Santos<sup>1</sup>, Hernane Silva Barud, Lucas Alonso Rocha<sup>2</sup>, Sidney José Lima Ribeiro; <sup>1</sup>Instituto de Química Araraquara - Unesp, <sup>2</sup>Universidade de Franca

**SP3-I72 - A Microscopic Study of Akaganèite Formation**

Fauze Jacó Anaissi<sup>1</sup>, Juan Carlo Villalba, Koema Cavicciolli, Stephani Berezoski; <sup>1</sup>Universidade Estadual do Centro Oeste do Paraná

**SP3-I73 - Effects of Clay Surfaces on Akaganèite Formation**

Fauze Jacó Anaissi<sup>1</sup>, Juan Carlo Villalba, Koema Cavicciolli, Stephani Berezoski; <sup>1</sup>Universidade Estadual do Centro Oeste do Paraná

**SP3-I74 - Using the sol-gel process for making three-dimensional matrix for bone regeneration**

Alessandra Nogueira Santos, Agda Aline Oliveira, Marivalda Magalhães Pereira

**SP3-I75 - Molecularly imprinted silicas for adsorption/preconcentration of pharmaceuticals**

Everton Cristian Morais<sup>1</sup>, Gabriel Giron Corrêa, João Henrique Zimnoch Dos Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-I76 - Encapsulated K<sub>2</sub>S<sub>2</sub>O<sub>5</sub> via sol-gel route as additive in LDPE films: antioxidant and antibacterial effects on vegetables**

Mara Gn Quadri, Fabiana Bortolini, Nei Fronza, João Henrique Zimnoch Dos Santos<sup>1</sup>, Larissa Brentano Capeletti; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-I77 - Multifunctional nanostructured materials applied in controlled radiopharmaceuticals release**

Raquel Cristina de Sousa Azevedo<sup>1</sup>, Ricardo Geraldo de Sousa, Daniel Cristian Ferreira Soares, Edésia Martins Barros de Sousa<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP3-I78 - Luminescent hexagonal ordered mesoporous Eu:SiO<sub>2</sub>**

Aline Dos Santos Lira Durães<sup>1</sup>, Marcia Carvalho de Abreu Fantini<sup>2</sup>, Hermi Felinto Brito, Ana Valéria Santos de Lourenço<sup>3</sup>, Cláudia Akemi Kodaira; <sup>1</sup>Instituto de Física, <sup>2</sup>Instituto de Física da Universidade de São Paulo, <sup>3</sup>Instituto de Química - Usp

**SP3-I79 - Luminescents mesoporous materials obtained by aerosols pyrolysis – supramolecular arrays and energy transfers**

Rafael Miguel Sábio<sup>1</sup>, José Maurício Almeida Caiuti, Lucas A. Rocha, Sidney José Lima Ribeiro, Marie-Joëlle Menu; <sup>1</sup>Instituto de Química Unesp

**SP3-I80 - PMMA-SiO<sub>2</sub> organic-inorganic hybrid coatings against tin coated steel corrosion in aggressive medium**

Sandra Helena Pulcinelli<sup>1</sup>, Hudson Wallace Pereira Carvalho, Elivelton Alves Ferreira, Ana Flávia Suzana<sup>2</sup>, Assis Vicente Benedetti, Celso Valentim Santilli<sup>3</sup>; <sup>1</sup>Chemistry Institute Of Araraquara, <sup>2</sup>Instituto de Química Unesp, <sup>3</sup>Universidade Estadual Paulista - Araraquara

**SP3-I81 - Antimicrobial films efficiency on the microbiota of vacuum-packed chilled meat**

Mara Gn Quadri, Nei Fronza, Ricardo Af Machado

**SP3-I82 - PMMA based**

**copolymer/montmorillonite clay nanocomposites: mechanisms of thermal stability**

Ana Flávia Suzana<sup>1</sup>, Hudson Wallace Pereira Carvalho, Sandra Helena Pulcinelli<sup>2</sup>, Celso Valentim Santilli<sup>3</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Chemistry Institute Of Araraquara, <sup>3</sup>Universidade Estadual Paulista - Araraquara

**SP3-I83 - Activity and stability studies of Burkholderia cepacia lipase immobilized on organofunctionalized mesoporous silica**

Erika Maria Gouveia Melo<sup>1</sup>, André Leonardo Patrício Silva, Luiza Nobuco Hirota Arakaki, Tomaz Arakaki, Maria Gardennia Fonseca<sup>2</sup>, José Geraldo de Paiva Espínola; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal da Paraíba

**SP3-I84 - Nanosilica-PU Latex composites: in-situ synthesis**

Cesar A. Heck<sup>1</sup>, João Henrique Zimnoch Dos Santos<sup>2</sup>; <sup>1</sup>Post-Graduation Course In Material Science, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP3-I85 - Equilibrium study and kinetic for adsorption of Ni<sup>2+</sup> from aqueous solution onto MCM-41 functionalized with 3-aminopropyl.**

Helenise Almeida do Nascimento<sup>1</sup>, Haryane Ribeiro Morais da Silva, José Geraldo de Paiva Espínola, Maria Gardennia Fonseca<sup>1</sup>, Luiza Nobuco Hirota Arakaki, Ercules Epaminondas de Souza Teotonio; <sup>1</sup>Universidade Federal da Paraíba

**SP3-I86 - Studies of pre-treatment with cationic surfactants on the glass substrate to the growth of V<sub>2</sub>O<sub>5</sub>/PANI thin film**

Elidia Maria Guerra, Mirela de Castro Santos, Rodrigo Fernando Bianchi

**SP3-I87 - Effect of precursors on the formation of vanadium pentoxide gel**

José Batista de Camargo Junior<sup>1</sup>, Eryza de Castro Guimaraes, Fauze Jacó Anaissi<sup>2</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste, <sup>2</sup>Universidade Estadual do Centro Oeste do Paraná

**SP3-I88 - The use of isothermal calorimetry for monitoring the release profiles of antifolate drugs adsorbed on fish scale/alginate composite**

Gracy Karla da Rocha Cortes<sup>1</sup>, Renata Almeida Chagas<sup>1</sup>, Eunice Fragoso da Silva Vieira, Antonio Reinaldo Cestari, Cecilia Santos Silva; <sup>1</sup>Universidade Federal de Sergipe

**SP3-I89 - Structural characterization of nanocomposite materials formed from smectite clays and vanadium pentoxide gel**

José Batista de Camargo Junior<sup>1</sup>, Eryza de Castro Guimaraes, Fauze Jacó Anaissi<sup>2</sup>; <sup>1</sup>Universidade Estadual do Centro Oeste, <sup>2</sup>Universidade Estadual do Centro Oeste do Paraná

**SP3-I90 - Synthesis, Characterization and Application of Films based on Zinc Oxide**

Marlon Nunes da Silva<sup>1</sup>, Sandra Helena Pulcinelli<sup>2</sup>, Celso Valentim Santilli<sup>3</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Chemistry Institute Of Araraquara, <sup>3</sup>Universidade Estadual Paulista - Araraquara

**SP3-I91 - Preparation and thermogravimetry of an amino-functionalized poly(dimethylsiloxane) network**

Fábio Antônio Belinelli Silva<sup>1</sup>, Mariana de Rezende Bonesio, Ricardo Patrick Donizete Silva, Gabriela Emília Souza, Fábio Luiz Pissetti; <sup>1</sup>Universidade Federal de Alfenas

**SP3-I92 - Characterization of Thiol-Functionalized Poly(dimethylsiloxane) Networks**

Fábio Antônio Belinelli Silva<sup>1</sup>, Yoshitaka Gushikem<sup>2</sup>, Inez Valéria Pagotto Yoshida, Fábio Luiz Pissetti; <sup>1</sup>Universidade Federal de Alfenas, <sup>2</sup>Universidade Estadual de Campinas

**SP3-I93 - Synthesis of mesoporous hydroxyapatite: Influence of the surfactant on the structural characteristics**

Ernane de Paula Lopes<sup>1</sup>, Edésia Martins Barros de Sousa<sup>1</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP3-I94 - ITO thin films prepared by non-hydrolytic sol-gel route**

Beatriz Morante de Campos<sup>1</sup>, Eduardo José Nassar, Lucas Alonso Rocha<sup>1</sup>, Paulo Sérgio Calefi, Katia Jorge Ciuffi<sup>1</sup>, Emerson Henrique de Faria, Milton Sérgio Fernandes de Lima; <sup>1</sup>Universidade de Franca

**SP3-I95 - Evaluating the effect of encapsulation**



**route in structural characteristics and antibacterial activity of materials containing antibiotic encapsulated by the sol-gel method**

Gabriel Giron Corrêa, Everton Cristian Morais<sup>1</sup>, Álvaro Vargas Junior, Nei Fronza, João Henrique Zimnoch Dos Santos<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-I96 - Control of particle size of mesoporous silica for biomedical applications**

Gracielle Ferreira Andrade<sup>1</sup>, André Felipe Oliveira<sup>2</sup>, Edésia Martins Barros de Sousa<sup>3</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Centro de Desenvolvimento de Tecnologia Nuclear, <sup>3</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP3-I97 - Development of hybrid multifunctional based on silica - P(N-iPAAm)-magnetic nanoparticles for use in drug delivery and hyperthermia studies**

Paula Maria da Silva Leite<sup>1</sup>, Karynne Cristina de Souza<sup>2</sup>, Ricardo Geraldo de Sousa, Edésia Martins Barros de Sousa<sup>2</sup>; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Universidade Federal de Minas Gerais

**SP3-I98 - Optimization of a synthetic route of the MCM-41 performance in different functions of selective form**

Silvia Caroline Gomes Dos Santos Silva, Yacco Garcia Trindade Barata<sup>1</sup>, Anne Michele Garrido Pedrosa de Souza, Maria Eliane de Mesquita<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe

**SP3-I99 - Synthesis of a mesoporous sieve MCM-41 using sugarcane bagasse as silicon source and incorporation with lanthanide complex**

Yacco Garcia Trindade Barata<sup>1</sup>, Roberta Anjos de Jesus, Maria Eliane de Mesquita<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe

**SP3-I100 - Functionalized polyhedral oligomeric silsesquioxane for incorporation of chemically pendant chains.**

Ali Riaz<sup>1</sup>, Adriane Cherpinski Correa, Hameed Ullah, Jose de Alencar Simoni; <sup>1</sup>Universidade Estadual de Campinas

**SP3-I101 - Study syntheses to obtain mesoporous silica SBA with large pores**

Jeann Diniz Ferreira Lima<sup>1</sup>, Antonia Flávia Justino Uchoa, Luelc Souza da Costa, Luiz Constantino Grombone Vasconcellos, Francisco Santos Dias; <sup>1</sup>Universidade Federal do Ceará

**SP3-I102 - Influence of functionalization in the size, morphology and geometric distribution of the hollow silica nanoparticles**

Carine Santana de Souza Ribeiro<sup>1</sup>, Segundo Nilo Mestanza Munoz<sup>2</sup>, Anderson Orzari Ribeiro<sup>2</sup>; <sup>1</sup>Federal University Of Abc, <sup>2</sup>Universidade Federal do Abc

**SP3-I103 - Mesoporous silica SBA-15 functionalized with 3-aminopropyl-trimethoxysilane (APTMS) and phenyl-isotiocyanate (PIT) for testing of adsorption of heavy metals**

Antonia Flávia Justino Uchoa, Jeann Diniz Ferreira Lima<sup>1</sup>, Luelc Souza da Costa, Francisco Santos Dias, Luiz Constantino Grombone Vasconcellos; <sup>1</sup>Universidade Federal do Ceará

**SP3-I104 - Charged silsesquioxane immobilized on silica matrix used as adsorbent of Cu(II) tetrasulfophthalocyanine to be applied as sensor for oxygen**

Leliz Ticono Arenas, Debora Simone Figueredo Gay, Yoshitaka Gushikem<sup>1</sup>, Silvio Luis Pereira Dias, Celso Camilo Moro, Tania Maria Haas Costa<sup>2</sup>, Edilson V Benvenuti<sup>3</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal do Rio Grande do Sul, <sup>3</sup>Institute Of Chemistry

**SP3-I105 - Ionic silica based hybrid material as textile dye adsorption**

Eliana Weber de Menezes<sup>1,2</sup>, Eder Lima, Betina Royer, Thais Helena Maciel Fernandes, Camila Volf Amavisca, José Ribeiro Gregório, Yoshitaka Gushikem<sup>3</sup>; <sup>1</sup>Instituto de Química, <sup>2</sup>Institute Of Chemistry, <sup>3</sup>Universidade Estadual de Campinas

**SP3-I106 -  $\beta$ -diketonate europium(III) complex covalently bonded to phosphine oxide-functionalized poly(dimethylsiloxane)**

Rafael Di Lazaro Gaspar<sup>1</sup>, Inez Valéria Pagotto Yoshida, Italo Odone Mazali, Fernando Aparecido Sigoli; <sup>1</sup>Universidade Estadual de Campinas

**SP3-I107 - Aggregation studies of mefenamic acid with sodium alginate**

Renato Bosco Moreira Oliveira<sup>1</sup>, Aline Margarete Furuyama Lima<sup>1</sup>, Rodrigo Pereira, Ailton José Terezo, Bruna Vieira Guimarães, Francisco Xavier de Campos, Adriano Buzutti Siqueira; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP3-I108 - Influence of Functionalization in the Synthesis of Silver Nanoparticles**

Ederaldo Ferreira Silva<sup>1</sup>, Segundo Nilo Mestanza Munoz<sup>2</sup>, Thiago Henrique Delfino Santos, Anderson Orzari Ribeiro<sup>2</sup>; <sup>1</sup>Federal University Of Abc, <sup>2</sup>Universidade Federal do Abc

**SP3-I109 - Synthesis of Nanostructured Materials Applied to Controlled Release Drug**

Francisco Welton de Oliveira Amarante<sup>1</sup>, Antonia

Flávia Justino Uchoa, Antonia Daniele S. Bruno Costa<sup>1</sup>, Dulce Maria de Araujo Melo, Luiz Constantino Grombone Vasconcellos, Antonio Sérgio Bezerra Sombra, Nágila Maria Pontes Silva Ricardo; <sup>1</sup>Universidade Federal do Ceará

**SP3-I110 - Synthesis and Characterization of Nanoparticles Magnetic Host for Magnetic Hyperthermia and Drug Delivery System**

Karynne Cristina de Souza<sup>1</sup>, Paula Maria da Silva Leite<sup>2</sup>, Nelcy Della Santana Mohallem, Edésia Martins Barros de Sousa<sup>2</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Centro de Desenvolvimento da Tecnologia Nuclear

**SP3-I111 - Interpenetrating Polymer Networks based on PVP and PDMS: Thermal Characterization**

Marco Antonio Schiavon<sup>1</sup>, Valdir Mano, Rafael Moreira Siqueira; <sup>1</sup>Universidade Federal de São João Del Rei

**SP3-I112 - Synthesis and characterization of erbium doped silica nanoparticles by sol-gel**

Isis Polido Santos<sup>1</sup>, Segundo Nilo Mestanza Munoz<sup>2</sup>, Anderson Orzari Ribeiro<sup>2</sup>; <sup>1</sup>Federal University Of Abc, <sup>2</sup>Universidade Federal do Abc

**SP3-I113 - Optical characterization of the mixed oxide of nanostructured vanadium.**

Wellington Douglas Guimarães Gonçalves<sup>1</sup>, Genilson Reinaldo da Silva, Isabel Cristina Schwingel, Cleiser Thiago Pereira da Silva, Gian Paulo Giovanni Freschi, Nelson Luis de Campos Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Fundação Universidade Federal da Grande Dourados

**SP3-I114 - Development of modified pseudoboehmites for nanosystems to release acyclovir**

Antonio Hortencio Munhoz Jr., Felipe Casseb de Jesus, Karina Cruz, Marcos Vinicius Suarmani Martins, Jan Vatauvuk, Leila Figueiredo de Miranda

**SP3-I115 - A novel anticorrosion hybrid xerogel coating based on a charged bis silane group for copper substrate**

Geraldo Beyer Machado<sup>1</sup>; <sup>1</sup>Institute Of Chemistry

**SP3-I116 - Direct coating of CdS/Cd(OH)<sub>2</sub> nanoparticles with silica**

Claudilene Ribeiro Chaves<sup>1</sup>, Giovannia Araujo Pereira, Patrícia Maria Albuquerque de Farias, Adriana Fontes, Beate Saegesser Santos; <sup>1</sup>Universidade Federal de Pernambuco

**SP3-I117 - Effect of length of polymer chain in photochromic hybrid materials obtained by sol gel process**

Celso Molina<sup>1</sup>, Priscilla Almeida Obara, Sidney José Lima Ribeiro; <sup>1</sup>Universidade Federal de São Paulo (Unifesp)

**SP3-I118 - Microstructure of hybrid silica obtained by sol-gel process investigated by small angle X-ray scattering**

Rafael Mello Lattuada<sup>1</sup>, Larissa Brentano Capeletti, João Henrique Zimnoch Dos Santos<sup>1</sup>, Mateus B. Cardoso; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-I119 - Synthesis of LaNiO<sub>3</sub> perovskite by modified proteic gel method and study of catalytic properties in the syngas production**

José Carlos Dos Santos, Marcelo José de Barros Souza, Maria Eliane de Mesquita<sup>1</sup>, Anne Michele Garrido Pedrosa de Souza; <sup>1</sup>Universidade Federal de Sergipe

**SP3-I120 - Organofunctionalization mesoporous silica SBA-16 with a new silane**

Ramon Kenned de Sousa Almeida<sup>1</sup>, José Ricardo da Costa, Claudio Airoldi; <sup>1</sup>University Of Campinas

**SP3-I121 - Synthesis of hybrid materials constituted by metallic oxide nanostructure functionalized with PVA**

Luís Felipe Ramires Moraes<sup>1</sup>, Adalberto Villalba Mezacasas<sup>2</sup>, Vicente Lira Kupfer<sup>2</sup>, Genilson Reinaldo da Silva, Jaqueline de Carvalho Rinaldi, Nelson Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Fundação Universidade Federal da Grande

**SP3-I122 - Synthesis and application of MCM-41 mesoporous silicate in controlled drug delivery**

Roberta Anjos de Jesus, Alessandra Silva Rabelo, Adriano Antunes de Souza Araujo, Renan Tavares Figueredo, Antonio Reinaldo Cestari, Maria Eliane de Mesquita<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe

**SP3-I123 - Steam reforming of CH<sub>4</sub> on Pd catalysts supported on La<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub> carriers obtained by the sol-gel method**

Wellington Henrique Cassinelli<sup>1</sup>, Clelia Mara de Paula Marques; <sup>1</sup>Instituto de Química Unesp

**SP3-I124 - Synthesis and characterization of polysilsesquioxane functionalized with mercaptan to electrorheological fluids**

Bluma Guenther Soares, Jessica Alves Marins<sup>1</sup>, Karim Dahmouche<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP3-I125 - Structural and Optical characterization of Eu:Doped Barium Silicate from Sol-Gel Route**

Diego Ariça Ceccato, Sergio A Marques Lima<sup>1</sup>, Ana Maria Pires<sup>2</sup>; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP3-I126 - An Approach for Quantifying Dispersion of Carbon Nanotubes in Ceramic Composites Using TEM images**

Alessandro Bof Oliveira, Patrícia Rodrigues da Silva<sup>1</sup>, Pâmela Andréa Mantey Dos Santos<sup>2</sup>, Tania Maria Haas Costa<sup>2</sup>, Marcia Russman Gallas; <sup>1</sup>Federal University Of Rio Grande do Sul, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP3-I127 - Study of adsorption kinetics of Co(II) ion on silica matrix functionalized with N-(3-Trimethoxysilanopropil) diethylenetriamine and modified with EDTA**

Franklin Pessoa Aguiar<sup>1</sup>, Veronica Alves Dos Santos, Monique S Pessoa, Ercules Epaminondas de Souza Teotonio, José Geraldo de Paiva Espínola, Luiza Nobuco Hirota Arakaki, Maria Gardennia Fonseca<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

**SP3-I128 - Siloxane-p(MMA-co-HEMA) hybrid as release system for Diclofenac Diethylamine**

Victor Hugo Vitorino Sarmento<sup>1</sup>, Brena Monalixe Menezes Rezende, Joyce Kelly Marinheiro Gonsalves, Rogéria Souza Nunes; <sup>1</sup>Universidade Federal de Sergipe

**SP3-I129 - Effect of synthesis conditions on the structural features of Siloxane-p(MMA-co-HEMA) hybrids**

Victor Hugo Vitorino Sarmento<sup>1</sup>, Luzia Rejane Lisboa Santos, Cícero Inácio Silva Filho; <sup>1</sup>Universidade Federal de Sergipe

**SP3-I130 - Characterization of the nanostructure of crosslinked epoxy and amino-silanes**

Adriana Dos Anjos Silva<sup>1</sup>; <sup>1</sup>Instituto de Macromoleculas Professora Eloisa Mano

**SP3-I131 - Growth Kinetics and Dynamic Scaling in GPTS-Derived Organic/Silica Hybrids**

Dimas Roberto Vollet<sup>1</sup>, Carlos Miranda Awano, Fabio Simões de Vicente, Dario Antonio Donatti<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Igge - Rio Claro

**SP3-I132 - Reversible Photochromic effect in GPTS-TEOS hybrids films doped with Methyl Red Azo-Dye**

Fabio Simões de Vicente, Evandro Martin Lanzoni, Thiago Braga de Mello, Dimas Roberto Vollet<sup>1</sup>, Dario Antonio Donatti<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista - Igge - Rio Claro

**SP3-I133 - Growth Dynamic Study on Particles Silica Sol-Gel**

Segundo Nilo Mestanza Munoz<sup>1</sup>, Anderson Orzari Ribeiro<sup>1</sup>, Antonio Luis Ribera Hermano, Giorgio Giunta; <sup>1</sup>Universidade Federal do Abc

## SYMPOSIUM J

### Solidification of metals and alloys

#### Chairs

José Eduardo Spinelli (DEMa/UFSCar, Brazil)  
 Amauri Garcia (DEMa/FEM/UNICAMP, Brazil)  
 Nathalie Mangelinck-Noël (Institut Matériaux Microélectronique Nanoscience de Provence, France)

## ORAL PRESENTATIONS

\* Invited Lecture

### WEDNESDAY, SEPTEMBER 28TH

#### SESSION J6

09:30 - 10:30 - Room 16

09:30 - **J6.1\***

**In situ and real-time characterization of dendritic grain structure formation during metallic alloy solidification**

Guillaume Reinhart, Henri Nguyen-Thi, Nathalie Mangelinck-Noël<sup>1</sup>, Bernard Billia, Nathalie Bergeon, Aziz Bogno, Thomas Schenk; <sup>1</sup>Institute For Materials Microelectronics And Nanosciences Of Provence

10:00 - **J6.2**

**Microstructure and Mechanical Properties of Directionally Solidified Ti-Fe Eutectic Alloy**

Rodrigo José Contieri<sup>1</sup>, Eder Lopes, Manolo de La Cruz, Conrado Ramos Moreira Afonso<sup>2</sup>, Rubens Caram, Alex Matos; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal de São Carlos

10:15 - **J6.3**

**Microstructural characterization of modified MAR-M247 superalloy**

Alex Matos Costa<sup>1</sup>, Carlos Angelo Nunes, Gilberto Carvalho Coelho, Rubens Caram; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

#### SESSION J7

11:00 - 12:30 - Room 16

11:00 - **J7.1\***

**Correlation between Solidification Conditions, Mechanical Properties and Heat Treatments of Non-Ferrous Alloys**

Carlos Alexandre Dos Santos<sup>1</sup>; <sup>1</sup>Pontificia Universidade Católica do Rio Grande do Sul

**11:30 - J7.2****Microstructural Characterization of Cobalt-Chromium Odontological Alloys After Successive Recasting**

Elisângela Barros Dantas<sup>1</sup>, Harrison Almeida Dantas, Antonio Eduardo Martinelli<sup>1</sup>, Dulce Maria de Araujo Melo, Dulce Maria Araújo Melo, Auristela Carla Miranda; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**11:45 - J7.3****Study of the cooling curve of molten AA-356: effect of varying the cooling rate of the mold and the use of inoculants system Al-Ti-B**

Cássia Cavalcanti da Silva<sup>1</sup>, Carlos Kiyam; <sup>1</sup>Universidade Estadual Paulista - Guaratinguetá

**12:00 - J7.4****Influence of thermosolutal convection on the columnar to equiaxed transition in unsteady-state directional solidification of Al-9wt%Si alloy**

Antonio Luciano Seabra Moreira, Andréa Moreira Moutinho, Diego de Leon Brito Carvalho, Daniel Joaquim Moutinho, José Marcelino Filho, Otávio Lima da Rocha<sup>1</sup>; <sup>1</sup>Federal Institute Of Education, Science And Technology Of Pará

**SESSION J8****15:00 - 16:00 - Room 16****15:00 - J8.1\*****Relationship Among Heat Transfer, Dendrite Microstructure And Grain Size In Continuous Casting Of Steels**

Jaime Alvares Spim

**15:30 - J8.2****Monotectic Growth During Upward and Downward Transient Directional Solidification of a Hypomonotectic Al-Pb Alloy**

Maria Adrina Paixão de Souza da Silva<sup>1</sup>, Pedro Roberto Goulart, José Eduardo Spinelli<sup>2</sup>, Emmanuelle Sá Freitas, Amauri Garcia<sup>3</sup>; <sup>1</sup>Universidade Federal do Pará, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Universidade Estadual de Campinas

**THURSDAY, SEPTEMBER 29TH****SESSION J9****09:30 - 10:30 - Room 16****09:30 - J9.1****Wetting behaviour of silver-based braze alloys onto ceramic substrates for oil well drill bits application**

Jorge Carlos Pereira, Poliana Rochele Felix Dos Santos, Rubens Maribondo do Nascimento, Antonio Eduardo Martinelli<sup>1</sup>, Luis Augusto Rocha; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**09:45 - J9.2****Simulation of microstructure and mechanical properties of Al-1.5wt%Fe cylindrical castings solidified inwards and outwards**

Felipe Bertelli<sup>1</sup>, Elisangela Dos Santos Meza<sup>1</sup>, Débora de Jesus Bezerra<sup>2</sup>, Pedro Roberto Goulart, Noé Cheung, Amauri Garcia<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Metodista de São Paulo

**10:00 - J9.3****Heat Transfer Coefficient at Metal-Mould Interface During Centrifugal Casting**

Santiago Vacca, Marcelo Martorano, Mário Bocalini Jr., Romulo Heringer

**POSTER PRESENTATIONS****WEDNESDAY, SEPTEMBER 28TH****SESSION SP3****16:00 - 18:00 - Exhibition Hall**

**SP3-J1 - Microstructure and properties of Ti44,8Ni55,2 shape memory alloy rapidly solidified**  
Walman Benicio Castro<sup>1</sup>, George Carlos Santos Anselmo, Carlos José de Araújo; <sup>1</sup>Universidade Federal de Campina Grande

**SP3-J2 - The effect of the growth rate on microsegregation of a directionally solidified Al-0.5wt%Fe alloy casting**

Elisangela Dos Santos Meza<sup>1</sup>, Felipe Bertelli<sup>1</sup>, Débora de Jesus Bezerra<sup>2</sup>, Claudenete Vieira Leal, Noé Cheung, Amauri Garcia<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Metodista de São Paulo

**SP3-J3 - Cellular/dendritic transition and mechanical properties of a Sn-0.7wt%Cu lead-free solder alloy**

Tatiana M Cavalcanti, Itamazeo T Moura, Celina L. M. Silva, Amauri Garcia<sup>1</sup>, José Eduardo Spinelli<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal de São Carlos

**SP3-J4 - Transient directional solidification of a hypoperitectic alloy**

Crystopher Cardoso Brito<sup>1</sup>, Claudio Alves Siqueira<sup>2</sup>, Amauri Garcia<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal da Paraíba

**SP3-J5 - Microstructure influence on corrosion resistance of commercial zamak 5 for industrial applications**

Luciane Tais Führ<sup>1</sup>, Claudia Trindade Oliveira, Felipe Dalla Vecchia, Gustavo Alberto Ludwig, Nímian Flores Lucas; <sup>1</sup>Universidade Feevale

**SP3-J6 - The effect of thermal parameters on the growth of tertiary dendrite arms during solidification of Pb-Sb alloys**

Emmanuelle Sá Freitas Feitosa<sup>1</sup>, José Eduardo Spinelli<sup>2</sup>, Amauri Garcia<sup>2</sup>; <sup>1</sup>Universidade Estadual de Campinas, <sup>2</sup>Universidade Federal de São Carlos

**SP3-J7 - Microstructural features and microhardness of Al-Fe alloys directionally solidified under stationary conditions**

Bismarck Luiz Silva, Igor Jefferson Araújo<sup>1</sup>, Nathalie Mangelinck-Noël<sup>2</sup>, Amauri Garcia<sup>3</sup>, José Eduardo Spinelli<sup>4</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Institute For Materials Microelectronics And Nanosciences Of Provence, <sup>3</sup>Universidade Estadual de Campinas, <sup>4</sup>Universidade Federal de São Carlos

**SP3-J8 - A Theoretical/Experimental Technique to determine Microporosity Formation in Upward Solidified Ternary Al-Cu-Si Alloy**

Mariana Carvalho Landim, Paulo Andre Dias Jácome, Natália Rodrigues Pereira, Laercio Gouvea Gomes, Amauri Garcia<sup>1</sup>, Ivaldo Leão Ferreira; <sup>1</sup>Universidade Estadual de Campinas

**SP3-J9 - Investigation of columnar to equiaxed transition during directional solidification in Al-Cu-Si alloys.**

Thiago Sousa Costa, Antonio Luciano Seabra Moreira, Rafael Hideo Kikuchi, José Marcelino Filho, Otávio Lima da Rocha<sup>1</sup>; <sup>1</sup>Federal Institute Of Education, Science And Technology Of Pará

**SP3-J10 - Mechanical properties and corrosion resistance of Pb-Sn alloy for lead-acid battery applications**

Leandro César de Lorena Peixoto<sup>1</sup>, Wislei Riuper Osório, Amauri Garcia<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

**SP3-J11 - Microstructure and corrosion resistance of a lead-free Sn-Ag solder alloy**

Leonardo Richeli Garcia<sup>1</sup>, Wislei Riuper Osório, Amauri Garcia<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

**SP3-J12 - Mechanical properties of an Al-Si-Mg ribbon**

Carlos Triveño Rios, Claudemiro Bolfarini, Walter Botta, Claudio Shyinti Kiminami

**SP3-J13 - Influence of Ti, V and Mn additions on the rapidly solidified Al91Fe5Cr4 Alloy**

Carlos Triveño Rios, Claudemiro Bolfarini, Walter Botta, Claudio Shyinti Kiminami

**SP3-J14 - Microstructural development in a**

**hypoperitectic Pb-20w%Bi alloy directionally solidified under unsteady-state conditions**

Manuel Antonio Pires Castanho<sup>1</sup>, Pedro Roberto Goulart, Noé Cheung, Amauri Garcia<sup>2</sup>; <sup>1</sup>Instituto de Pesquisas Tecnológicas do Estado de São Paulo, <sup>2</sup>Universidade Estadual de Campinas

**SP3-J15 - Correlation between microstructure and mechanical properties of a magnesium alloy subjected to different temperatures of overheating**

André Gonçalves Garcia<sup>1</sup>, Sergio Luiz Telles Bartex, Carlos Ferreira Frick, Jaime Alvares Spim; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-J16 - Dendritic growth of a ternary Al-9Si-3Cu alloy during transient directional solidification**

Laércio Gouvêa Gomes, Otávio Lima da Rocha<sup>1</sup>, Ivaldo Leão Ferreira, Amauri Garcia<sup>2</sup>; <sup>1</sup>Federal Institute Of Education, Science And Technology Of Pará, <sup>2</sup>Universidade Estadual de Campinas

**SP3-J17 - Evaluation of the metal / mold affinity for Al-0,07%Zr e Al-0,15%Zr alloys solidified in an unidirectional metal mold**

Iramar da Silva Tertuliano<sup>1</sup>, Kazuo de Almeida Kamizono, Alan Tihiro Dias Nakashima<sup>1</sup>, Alberto Luiz Mendes Macapuna, José Maria do Vale Quaresma; <sup>1</sup>Universidade Federal do Pará

**SP3-J18 - Determination of empirical equations between the secondary dendrite spacing and the cooling rates of the special steel billets produced by continuous casting**

Viviane Lopes Gschwenter Dos Santos<sup>1</sup>, Viviane Gschwenter Dos Santos, Carlos Alexandre Dos Santos<sup>2</sup>, Carlos Ferreira Frick, Jaime Alvares Spim; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Pontifícia Universidade Católica do Rio Grande do Sul

**SP3-J19 - Solidification of superalloy Hastelloy C-276 deposited by MIG with cold wire feeding in steel carbon plates.**

Bruno Alberto Cardoso Pignatario<sup>1</sup>, Adriane Lopes Mougou, Anne Alcantara, Bruno Gonçalves Rodrigues, Carlos Alberto Mendes Mota; <sup>1</sup>Universidade Federal do Pará

**SP3-J20 - Determination of surface tension and Gibbs-Thomson coefficient for ternary aluminum alloys**

Paulo Andre Jácome, Ingrid M Salvino, Mariana Carvalho Landim, Amauri Garcia<sup>1</sup>, Ivaldo Leão Ferreira; <sup>1</sup>Universidade Estadual de Campinas

**SP3-J21 - Thermocapillary convection induced by CO<sub>2</sub> laser surface heating**

Márcio Lima Oliveira<sup>1</sup>, Nicolau André Silveira

Rodrigues, Angelo Passaro; <sup>1</sup>Instituto Tecnológico de Aeronáutica

**SP3-J22 - Determination Of Secondary Dendritic Spacing of The Binary Alloy Al 6 % Wt Cu During Horizontal Unidirectional Solidification Under Unsteady State Heat Flow Conditions**

José Marcelino Filho, Rafael Hideo Kikuchi, Mayara Sarisariyama Lima, Fabrício Paiva Silva, Jose Nazareno Silva Silva, Otávio Lima da Rocha<sup>1</sup>; <sup>1</sup>Federal Institute Of Education, Science And Technology Of Pará

**SP3-J23 - Study of thixoformability of Al-4wt%Si-0,5wt%Mg alloy in open die-casting**

Luciano Augusto Lourençato, Eugênio José Zoqui, Luis Vanderlei Torres

**SP3-J24 - Comparative study of hydrogen permeation through voltammetry and magnetic properties of AISI 4340 Steel**

Giselle Barata Costa<sup>1</sup>, Bruno Gitti Bertocco, Itamar Ferreira, Margarita Ballester Cardona, Célia Marina A. Freire; <sup>1</sup>Universidade Estadual de Campinas

**SP3-J25 - Laser modified thin layers in piston rings**

Jesualdo Luiz Rossi<sup>1</sup>, Wagner de Rossi, Felipe de Oliveira; <sup>1</sup>Instituto de Pesquisas Energéticas E Nucleares

**SP3-J26 - Optimization of heat treatment solutioning times under different dendritic arm spacing in as-cast Al-4.0%Cu alloy**

Carlos Alexandre Dos Santos<sup>1</sup>, Rodrigo Paz França, Bernardo Porás Reis, Leandro Disiuta; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul

## SYMPOSIUM K

### Supramolecular organic materials for electronic, photonics and nanotechnology

#### Chairs

Leni Akcelrud (UFPR)  
Roberto Mendonça Faria (USP)  
José Alberto Giacometti (Unesp and Carlos José Leopoldo Constantino - USP)

### ORAL PRESENTATIONS

\* Invited Lecture

## MONDAY , SEPTEMBER 26TH

### SESSION K1

**09:30 - 10:30 - Room 24**

**09:30 - K1.1\***

Memory devices for organic electronic circuits

David Martin Taylor

**10:00 - K1.2**

Low-voltage organic field effect transistor with poly(3-hexylthiophene) channel and polymeric insulator

Wagner Souza Machado<sup>1</sup>, Ivo Alexandre

Hummelgen; <sup>1</sup>Universidade Federal do Paraná

**10:15 - K1.3**

Organic field-effect transistors using P3HT and PMMA as dielectric

Alexandre de Castro Maciel<sup>1</sup>, Roberto Mendonça Faria<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos

### SESSION K2

**11:00 - 12:30 - Room 24**

**11:00 - K2.1\***

Photochemically triggered switching in organic semiconducting materials and structures

Juliusz Sworakowski

**11:30 - K2.2**

The Fluorescence Ellipsometry Technique to Determinethe Molecular Alignment and Phase Transition ofOrganized and Non-Organized Films

Paulo Alliprandini Filho<sup>1</sup>, Ivan Helmuth Bechtold, Rodrigo Cristiano, André Alexandre Vieira, Hugo Alejandro Gallardo Olmedo, Alexandre Marletta<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia

**11:45 - K2.3**

Subpicosecond dynamics of excited-states in solvated [Ru(bpy)<sub>3</sub>]<sup>2+</sup> complexes

Diego Anderson Hoff, Robson da Silva, Luis Guilherme de Carvalho Rego<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**12:00 - K2.4**

Study of the electro-optic activity in PMMA guest-host films using the photoassisted poling technique

Flávio Makoto Shimizu<sup>1</sup>, José Alberto

Giacometti<sup>1</sup>; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente

### SESSION K3

**15:00 - 16:00 - Room 24**

**15:00 - K3.1\***

Polymetallaynes for gamma-Radiation Dosimetry

Maria Vittoria Russo, Carlos F. O. Graeff, Ilaria

Fratoddi, Iole Venditti, Augusto Batagin-Neto, Erika Bronze-Uhle, David M. Fernandes

**15:30 - K3.2**

**Study of poly(amide-imide) thin films through impedance spectroscopy using MIS configuration**

Élder Mantovani Lopes<sup>1</sup>, Ricardo Sussumu Ywata<sup>2</sup>, Flávio Makoto Shimizu<sup>2</sup>, Neri Alves, David Martin Taylor, Antonio Jose Felix Carvalho, José Alberto Giacometti<sup>2</sup>; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, <sup>2</sup>Fct-Unesp Campus de Presidente Prudente

**15:45 - K3.3**

**Temperature Dependent Mobility of Poly(9,9'-dioctylfluorene-co-benzothiadiazole) based-thin-films**

Gregório Couto Faria<sup>1</sup>, Eduardo Ribeiro Deazevedo, Roberto Mendonça Faria<sup>2</sup>, Heinz Von Seggern; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos, <sup>2</sup>Instituto de Física de São Carlos

## TUESDAY, SEPTEMBER 27TH

### SESSION K4

**09:30 - 10:30 - Room 24**

**09:30 - K4.1\***

**Towards low cost and high output fabrication of organic semiconductors devices: from OLEDs to photovoltaics**

Luiz Pereira

**10:00 - K4.2**

**Synthesis, Characterization and Electro-optical Properties of a Conjugated Fluorene and Pyridine Containing Copolymer and its Europium Complex**

Denis Augusto Turchetti, Paula C. Rodrigues, Cristiano Zanlorenzi, Leonardo Schneider, Teresa Dib Zambon Atvars<sup>1</sup>, Wido Herwig Schreiner, Leni Campos Akcelrud; <sup>1</sup>Universidade Estadual de Campinas

**10:15 - K4.3**

**Raman and XRD study on brookite-anatase coexistence in cathodic electrosynthesized titania deposits**

Cristiani Silveira Campos, Edna Regina Spada, Fernando Rogério de Paula, Françoise Toledo Reis, Roberto Mendonça Faria<sup>1</sup>, Maria Luisa Sartorelli<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos, <sup>2</sup>Universidade Federal de Santa Catarina

### SESSION K5

**11:00 - 12:30 - Room 24**

**11:00 - K5.1\***

**Modeling the interactions involved in biosensors madewith organic thin films**

Oswaldo Novais Oliveira Jr

**11:30 - K5.2**

**Thin Films of Lignins Extracted from Sugar Cane: Morphology, Electrical Characterization and Sensing Applications**

Diogo Volpati<sup>1</sup>, Aislan Douglas Machado, Clarissa Olivati, Neri Alves, Carlos José Leopoldo Constantino; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente

**11:45 - K5.3**

**Layer-by-Layer films of magnetic nanoparticles and biocompatible polymers**

Antonio Riul Jr.<sup>1</sup>, Celina Massumi Miyazaki<sup>2</sup>, Mariselma Ferreira, Carlos José Leopoldo Constantino, David Sotero Dos Santos Jr., Marcelo de Assunção Pereira da Silva<sup>3</sup>, Oswaldo Novais Oliveira Jr; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba, <sup>2</sup>Universidade Estadual Paulista "julio de Mesquita Filho" - Posmat, <sup>3</sup>Instituto de Física de São Carlos

**12:00 - K5.4**

**Helical tape as intermediate in nanotubes formation**

Cilãine Verônica Teixeira<sup>1</sup>, Heinz Amenitsch, Takanori Fukushima, Jonathan Hill, Wusong Jin, Takuzo Aida, Mika Linden; <sup>1</sup>Universidade Federal do Rio Grande do Sul

## WEDNESDAY, SEPTEMBER 28TH

### SESSION K6

**09:30 - 10:30 - Room 24**

**09:30 - K6.1\***

**Evolution and harvesting of optically excited triplet states in multi-component organic systems**

Stanislav Balushev

**10:00 - K6.2**

**New europium complexes with mixed organic ligands: potential luminescent markers**

Audrey Nunes de Andrade<sup>1</sup>, Ana Paula Souza, Janaína Versiani Dos Anjos, Oscar Loureiro Malta; <sup>1</sup>Universidade Federal de Pernambuco

**10:15 - K6.3**

**Different characteristics of the emission intensity in blends and bilayers of conjugated polymers induced by distinct excitation geometries**

Roberto Shigueru Nobuyasu Junior<sup>1</sup>, Luiz Alberto Cury<sup>1</sup>, Jean-Pierre Lère-Porte; <sup>1</sup>Universidade Federal de Minas Gerais

**SESSION K7****11:00 - 12:30 - Room 24****11:00 - K7.1\*****Interface process in organic nanostructures**Francisco E.g. Guimaraes<sup>1</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos**11:30 - K7.2****Going beyond the DFT Electronic Structure for Organic/Titanium Dioxide interfaces**Leonardo Matheus Marion Jorge<sup>1</sup>, Marcelo Alves Dos Santos, Marília J. Caldas; <sup>1</sup>Instituto de Física da Universidade de São Paulo**11:45 - K7.3****Reparametrization of non-bonded energies and its application in classical molecular dynamics simulation of amorphous systems**Rodrigo Ramos da Silva<sup>1</sup>, Járlesson Gama Amazonas, Melissa Siqueira Pinto, Marília J. Caldas; <sup>1</sup>Instituto de Física da Universidade de São Paulo**12:00 - K7.4****Complementary rectification effect in single tetraphenylporphyrin molecules**Vinicius Claudio Zoldan<sup>1</sup>, Chunlei Gao, Andre Avelino Pasa, Jürgen Kirschner; <sup>1</sup>Universidade Federal de Santa Catarina**12:15 - K7.5****Structural changes in indium tin oxide substrates during cathodic polarization**Edna Regina Spada, Fernando Rogério de Paula, Cristiani Silveira Campos, Roberto Mendonça Faria<sup>1</sup>, Maria Luisa Sartorelli<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos, <sup>2</sup>Universidade Federal de Santa Catarina**SESSION K8****15:00 - 16:00 - Room 24****15:00 - K8.1\*****Organic ferroelectrics for memory and display applications**Dago M de Leeuw<sup>1</sup>; <sup>1</sup>University Of Groningen / Rijksuniversiteit Groningen**15:30 - K8.2****Write-once-read-many-times memory devices based on N and B doped carbon sphere - polymer composites**Messai Adenew Mamo<sup>1</sup>, Wagner Souza Machado<sup>1</sup>, John Coville Neil, Ivo Alexandre Hummelgen; <sup>1</sup>Universidade Federal do Paraná**15:45 - K8.3****Charge carrier trapping phenomena in aluminum-****oxide polymer interfaces: Application in organic based Resistive Random Access Memories (RRAMs)**Qian Chen<sup>1</sup>, Henrique Leonel Gomes<sup>2</sup>, Neri Alves, José Alberto Giacometti, Stefan C Meskers, Dago M de Leeuw<sup>3</sup>; <sup>1</sup>University Of Algarve, <sup>2</sup>Universidade do Algarve, <sup>3</sup>University Of Groningen / Rijksuniversiteit Groningen**POSTER PRESENTATIONS****MONDAY, SEPTEMBER 26TH****SESSION SP1****16:00 - 18:00 - Exhibition Hall****SP1-K1 - PMMA nanocomposites reinforced with layered double hydroxides intercalated with dodecyl sulfate.**Telma Nogueira<sup>1</sup>, Rodrigo Botan<sup>1</sup>, Fernando Wypych, Liliane M.f. Lona; <sup>1</sup>Universidade Estadual de Campinas**SP1-K2 - Morphology and thermal properties of polymers – layered double hydroxide nanocomposites synthesized via in situ polymerization**Rodrigo Botan<sup>1</sup>, Telma Nogueira<sup>1</sup>, Fernando Wypych, Liliane M.f. Lona; <sup>1</sup>Universidade Estadual de Campinas**SP1-K3 - Photoluminescence quantum yield as a tool to study the energy transfer mechanism in bilayers and blends**Bárbara Brenda de Almeida Costa<sup>1</sup>, Paloma Lays Santos<sup>1</sup>, Karolline Aparecida de Souza Araujo, Luiz Alberto Cury<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais**SP1-K4 - Interchain and intrachain exciton energy migration contributing to the Super Yellow copolymer emission**Paloma Lays Santos<sup>1</sup>, Bárbara Brenda de Almeida Costa<sup>1</sup>, Karolline Aparecida de Souza Araujo, Luiz Alberto Cury<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais**SP1-K5 - Charge injection and mobility of poly(thiophene-****dialkoxyphenylene)/PDMS/SWNT/MWNT nanostructures for solar cells application**Hugo Santos Silva<sup>1</sup>, Marcella Cogo Muniz, Sandra Lúcia Nogueira<sup>1</sup>, Mauricio Foschini<sup>1</sup>, Alexandre Marletta<sup>1</sup>, Newton Martins Barbosa Neto<sup>2</sup>, Raina Augusta da Silva; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Universidade Federal de Minas Gerais**SP1-K6 - Energy Transfer Process of Polyfluorene Blended with Poly(vinylcarbazole)**



Bruna Médici Amorim Bonon<sup>1</sup>, Teresa Dib Zambon Atvars<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

**SP1-K7 - Is the mechanism for donor-acceptor interaction in blends and bilayers of conjugated polymers the same?**

Luiz Alberto Cury<sup>1</sup>, Karolline Aparecida de Souza Araujo, Paloma Lays Santos<sup>1</sup>, Bárbara Brenda de Almeida Costa<sup>1</sup>, Paulo Sérgio Soares Guimaraes<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

**SP1-K8 - XRD and SAXS studies applied to poly(o-methoxyaniline) salt form (ES-POMA)**

Edgar A Sanches<sup>1</sup>, Juliana Coatrini Soares<sup>2</sup>, Graziella Trovati, Edson G. R. Fernandes, Ana Carolina Mafud, Cláudia Lima Nogueira, Yvonne P.

Mascarenhas; <sup>1</sup>Instituto de Física de São

Carlos, <sup>2</sup>Universidade de São Paulo

**SP1-K9 - XRD and SAXS studies applied to emeraldine-salt polyaniline (ES-PANI)**

Edgar A Sanches<sup>1</sup>, Juliana Coatrini Soares<sup>2</sup>, Graziella Trovati, Edson G. R. Fernandes, Ana Carolina Mafud, Cláudia Lima Nogueira, Yvonne P.

Mascarenhas; <sup>1</sup>Instituto de Física de São

Carlos, <sup>2</sup>Universidade de São Paulo

**SP1-K10 - Characterization of ES-PANI/Au nanoparticles complex**

Edgar A Sanches<sup>1</sup>, Juliana Coatrini Soares<sup>2</sup>, Graziella Trovati, Ana Carolina Mafud, Cláudia Lima Nogueira, Valtencir . Zucolotto, Yvonne P.

Mascarenhas; <sup>1</sup>Instituto de Física de São

Carlos, <sup>2</sup>Universidade de São Paulo

**SP1-K11 - Study of new materials for application in memory devices**

Silésia de Fátima Curcino da Silva<sup>1</sup>, Adriano Cesar Rabelo, Raigna Augusta da Silva Zadra Armond, Hugo Santos Silva<sup>1</sup>, Alexandre

Marletta<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia

**SP1-K12 - Photophysical properties of bilayered thin films of MEH-PPV and PMMA doped with a hole transporter compound.**

Tatiana Duque Martins<sup>1</sup>, Henrique Santiago de Camargo<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás

**SP1-K13 - Luminescent Properties of Silicone-polyfluorene hybrid material**

Tatiana Duque Martins<sup>1</sup>, Paulo Alves da Costa Filho<sup>1</sup>; <sup>1</sup>Universidade Federal de Goiás

**SP1-K14 - Synthesis and structural, optical and vibrational characterization of assymetric oligomers and polymer based on thiophene-phenylene sequence**

Marcia Dutra Ramos Silva<sup>1</sup>, Hugo Santos Silva<sup>1</sup>, Sandra Lúcia Nogueira<sup>1</sup>, Françoise Serein Spirau,

Thibaut Jarrosson, Jean Pierre Lère Porte, Alexandre Marletta<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia

**SP1-K15 - Poly(3-alkylthiophenes) Langmuir-Blodgett films for VOC detection**

Clarissa Olivati, Bruno Nunes, Vanessa Gonçalves, Debora Balogh

**SP1-K16 - Electrical measurements of perylene derivative fabricated via physical vapor deposition**

Maria Luisa Braunger<sup>1</sup>, Priscila Alessio Constantino<sup>2</sup>, Carlos José Leopoldo Constantino, Clarissa

Olivati; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista "Júlio de

Mesquita Filho" - Campus Presidente Prudente

**SP1-K17 - Linear and nonlinear optical properties of the thiophene-phenylene-based oligomer and polymer**

Marceçp Gonçalves Vivas, Sandra Lúcia Nogueira<sup>1</sup>, Raigna Augusta da Silva Zadra Armond, Cleber R.

Mendonça; <sup>1</sup>Universidade Federal de Uberlândia

**SP1-K18 - Charge Carrier Mobility in Polymeric Materials for Organic Solar Cell Application**

Juliana de Fátima Prestes Souza<sup>1</sup>, Leni Campos Akcelrud, Sandra Melo Casseiro, Edemir Luiz

Kowalski; <sup>1</sup>Universidade Federal do Paraná

**SP1-K19 - Thin films deposited by equipment printing of electronic polymers through electronic injection system to use in dosimeter**

Adriana Diniz Barbosa, Robson Nunes Dal Col, Sávio Augusto Lopes da Silva, Rodrigo Fernando Bianchi

**SP1-K20 - Bulk-Heterojunction Organic Solar Cells: area-dependent parameters fluctuation**

Antônio José Trindade, Mauro Goncalo Santos, Luiz Pereira

**SP1-K21 - Absorption and**

**photoconductivity measurements on MEH-PPV / PCBM bulk heterojunction organic solar cell active layer**

Cláudia Martins, Antônio José Trindade, Luís Rino, Luiz Pereira

**SP1-K22 - Colormodulation in Organic Light Emitting Diodes using complementary color emitters: the search for white emission**

João Costa, João Dinis, Luiz Pereira

**SP1-K23 - Organic White Light**

**Electroluminescent Device: Searching for Fluorescent Material**

Elvo Calixto Burini Junior, Gerson Santos, Emerson Roberto Santos, Wang Shu Hui, Ely Antonio Tadeu

Dirani, Fernando Josepetti Fonseca<sup>1</sup>, Adnei Melges Andrade; <sup>1</sup>Escola Politécnica da Universidade de São

Paulo

**SP1-K24 - Interface effects on optical properties of the active organic layer in OLED's**

Alessandra Pereira<sup>1</sup>, Gilmar Conte, Hugo Alejandro Gallardo Olmedo, Angelo Danilo Faceto, Welber Gianini Quirino, Francisco E.g. Guimaraes<sup>2</sup>, Ivan Helmuth Bechtold; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Universidade de São Paulo - Instituto de Física de São Carlos

**SP1-K25 - Preparation of Si-C by sol-gel method**  
Kaled Charradi Charradi

**SP1-K26 - Organic Field Effect Transistor using polystyrene and poly-3-hexyl thiophene**

Washington da Silva Sousa<sup>1</sup>, Alexandre de Castro Maciel<sup>2</sup>, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos, <sup>2</sup>Instituto de Física de São Carlos

**SP1-K27 - Preparation of gold nanoparticles in the presence of poly [3-(2-hydroxyethyl)thiophene] (PHET) in methoxyethanol**

Rafaela Cristina Sanfelice<sup>1</sup>, Débora Teresia Balogh, Vanessa Cristina Gonçalves<sup>2</sup>, Marcelo de Assunção Pereira da Silva<sup>3</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos, <sup>2</sup>Instituto de Química, <sup>3</sup>Instituto de Física de São Carlos

**SP1-K28 - Thermally stimulated depolarization current studies in thin films of sulfonated polystyrene ionomers**

Washington da Silva Sousa<sup>1</sup>, Alexandre de Castro Maciel<sup>2</sup>, Antonio Jose Felix Carvalho, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos, <sup>2</sup>Instituto de Física de São Carlos

**SP1-K29 - Faster growth processes of sulfonated polyaniline film and its application in vertical transistors**

Keli Fabiana Seidel, Lucieli Rossi<sup>1</sup>, Ivo Alexandre Hummelgen; <sup>1</sup>Universidade Federal do Paraná

**SP1-K30 - Equivalent circuit model for multilayers of PAMAM/SWNT in EIS devices**

Marcos Moura, José Roberto Siqueira Jr, Andrés Vercik, Osvaldo Novais Oliveira Jr

**SP1-K31 - Vertical Organic Field Effect Transistor with polyvinyl alcohol as a gate insulator**

Lucieli Rossi<sup>1</sup>, Keli Fabiana Seidel, Wagner Souza Machado<sup>1</sup>, Ivo Alexandre Hummelgen; <sup>1</sup>Universidade Federal do Paraná

**SP1-K32 - Poly(p-phenylene vinylene) nanostructured film modified with chloride produced by Langmuir-Blodgett technique**

Andrei Sakai<sup>1</sup>, Laura Oliveira Péres, Luciano Caseli<sup>1</sup>; <sup>1</sup>Universidade Federal de São Paulo

**SP1-K33 - Nonlinear Conductivity of Fullerenol Aqueous Solutions**

Roberto Batista Sardenberg<sup>1</sup>, Carlos Teixeira, Mauricio Veloso Brant Pinheiro, José Figueiredo; <sup>1</sup>Universidade Federal de Minas Gerais

**SP1-K34 - New hybrid material of europium complex with PMMA: Photodegradation study under UV-exposure**

Rodolfo Rodrigues Nunes da Silva<sup>1</sup>, Cristiane Kelly de Oliveira, Severino Alves Junior, Ivani Malvestiti; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-K35 - Fluorene, Thiophene and Phenylene Containing Terpolymers: Correlations Between Composition and Physical Properties**

Bruno Nowacki, Gregório Couto Faria<sup>1</sup>, Raquel Domingues, Teresa Dib Zambon Atvars<sup>2</sup>, Leni Campos Akcelrud; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos, <sup>2</sup>Universidade Estadual de Campinas

**SP1-K36 - Electrical and thermal characterization of thin films of polyaniline/cashew nut shell liquid – Pani/CNSL**

Helder Nunes da Cunha<sup>1</sup>, Iran Silva Guimarães, Jose Ribeiro Santos Junior; <sup>1</sup>Universidade Federal do Piauí

**SP1-K37 - Electrical characterization of poly(amide-imide) thin films**

Ricardo Sussumu Ywata<sup>1</sup>, Flávio Makoto Shimizu<sup>1</sup>, Élder Mantovani Lopes<sup>2</sup>, Neri Alves, Antonio Jose Felix Carvalho, José Alberto Giacometti<sup>2</sup>; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP1-K38 - Synthesis and Characterization of Blue Polymer Emitter, Poly[(9,9-dihexylfluorenyl)vinylene-alt-1,4-phenylenevinylene)-co-(9,9-(3-t-butylpropanoate)fluorene-1,4-phenylene)], LaPPS42.**

Bruno Davies Fontes, Gregório Couto Faria<sup>1</sup>, Paula Cristina Rodrigues, Leni Akcelrud; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos

**SP1-K39 - Layer-by-Layer technique foreseeing developments in proton exchange membranes**

Celina Massumi Miyazaki<sup>1</sup>, Tiago Pedroso de Almeida, Cléber Aparecido Rocha Dantas, Antonio Riul Jr.<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Julio de Mesquita Filho" - Posmat, <sup>2</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP1-K40 - Synthesis of Polymeric Microtubes Produced by Self-Assembly Technique**

Andrea Ferreira Silva<sup>1,2</sup>, Raquel Milani<sup>2</sup>, Paulo Jorge

Passos Dos Santos, Daniel Amancio Duarte<sup>2</sup>,  
Giovanna Machado; <sup>1</sup>Universidade Federal de  
Pernambuco, <sup>2</sup>Centro de Tecnologias Estratégicas do  
Nordeste

**SP1-K41 - Theoretical studies of electronic  
properties of the fluorene-based copolymers and  
their model compounds**

José Maximiano F. Pinheiro<sup>1</sup>, Marília J. Caldas,  
Xinguo Ren, Patrick Rinke, Volker Blum, Matthias  
Scheffler; <sup>1</sup>Universidade de São Paulo

**SP1-K42 - Use Hybrid TiO<sub>2</sub>/P3HT active layer for  
photovoltaic organic cells**

Filipe Gonçalves da Silva<sup>1</sup>, Roberto Mendonça Faria<sup>2</sup>,  
Antonio Jose Felix Carvalho; <sup>1</sup>Universidade de São  
Paulo - Materias - Eesc, <sup>2</sup>Instituto de Física de São  
Carlos

**SP1-K43 - Inks based on polyaniline blends for  
printing conductive tracks by inkjet technique**

Josiani Cristina Stefanelo<sup>1</sup>, Bruno Bassi Millan  
Torres<sup>1</sup>, Roberto Mendonça Faria<sup>1</sup>; <sup>1</sup>Instituto de Física  
de São Carlos

**SP1-K44 - Synthesis, structural characterization,  
photo-physical and photovoltaic properties of a  
thiophene-fluorene copolymer**

Isabel Romero Grova, Douglas José Coutinho<sup>1</sup>,  
Roberto Mendonça Faria<sup>1</sup>, Leni Campos  
Akcelrud; <sup>1</sup>Instituto de Física de São Carlos

**SP1-K45 - Energy Transfer Control In P3OT Films  
Synthesized by Electrochemistry**

Eralci M. Therézio<sup>1</sup>, Flavio Franchello<sup>2</sup>, Mauricio  
Foschini<sup>2</sup>, Otávio L. Bottecchia, Henrique de Santana,  
José L. Duarte, Alexandre Marletta<sup>2</sup>; <sup>1</sup>Universidade  
Federal de Uberlândia, <sup>2</sup>Universidade Estadual de  
Londrina

**SP1-K46 - Processing and thermal properties of  
nanocomposites of PET/Multi-walled carbon  
nanotubes**

Gabriela Lamounier Pereira Alves<sup>1</sup>, Isaac Cassio  
Neves de Souza<sup>1</sup>, Valdir Mano, Marco Antonio  
Schiavon<sup>1</sup>; <sup>1</sup>Universidade Federal de São João Del Rei

**SP1-K47 - Synthesis and ordering of polystyrene  
nanospheres**

Viviane Zurdo Costa<sup>1</sup>, Graziâni Candiotta, Edna  
Regina Spada, Tatiana Silva, Maria Luisa  
Sartorelli<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

**SP1-K48 - Au effect on electron-phonon coupling  
of poly(p-phenylenevinylene)**

Eralci M. Therézio<sup>1</sup>, Ángel Alberto Hidalgo, Osvaldo  
Novais Oliveira Jr, Raigna Augusta da Silva Zadra  
Armond, Alexandre Marletta<sup>1</sup>; <sup>1</sup>Universidade Federal  
de Uberlândia

**SP1-K49 - Electrical properties of Polythiophen on  
monolayers self-assembled.**

Ana Claudia Tasinaffo Alves<sup>1</sup>, George Barbosa da  
Silva, Fernando Fabris<sup>1</sup>, Wilhan Donizete Gonçalves  
Nunes, Josmary Rodrigues Silva<sup>1</sup>, Douglas José  
Correia Gomes<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato  
Grosso/ Barra do Garças

**SP1-K50 - Humidity sensor made of PANI strips  
printed on white paper**

Neri Alves, Tiago Carneiro Gomes, Fernando Pereira  
Sabino<sup>1</sup>, José Alberto Giacometti; <sup>1</sup>Faculdade de  
Ciências E Tecnologia, Campus de Presidente  
Prudente

**SP1-K51 - Fabrication and Characterization of  
Bottom-contact Top-gate P3HT FET for sensing  
application**

Rafael Furlan de Oliveira<sup>1</sup>, Neri Alves, Marystela  
Ferreira; <sup>1</sup>Universidade Estadual Paulista "júlio de  
Mesquita Filho"

**SP1-K52 - Photophysical and Photovoltaic  
Properties of a PPV type Copolymer Containing  
Alternated Fluorene and Thiophene Units**

Paula C. Rodrigues, Leni Campos Akcelrud

**SP1-K53 - Electrical Properties of Thin PANI-ITO  
Films**

Gislayne Elisana Gonçalves<sup>1</sup>, Mirela de Castro Santos,  
Rodrigo Fernando Bianchi; <sup>1</sup>Universidade Federal de  
Ouro Preto

**SP1-K54 - Scaling laws applied to LBL ferrofluid  
films**

Marta Elisa Rosso Dotto<sup>1</sup>, Daniel Salvador<sup>1</sup>, Ivan  
Helmuth Bechtold; <sup>1</sup>Universidade Federal de Santa  
Catarina

**SP1-K55 - Study of the conduction processes in  
composites of PANI / ITO below the percolation  
threshold**

Lilian Soares Cardoso<sup>1</sup>, Haroldo Naoyuki  
Nagashima<sup>2</sup>, Darcy Hiroe Fujii Kanda, Gislayne  
Elisana Gonçalves<sup>3</sup>, Rodrigo Fernando  
Bianchi; <sup>1</sup>Universidade Estadual Paulista/faculdade de  
Engenharia de Ilha Solteira, <sup>2</sup>Faculdade de Engenharia  
- Campus de Ilha Solteira, <sup>3</sup>Universidade Federal de  
Ouro Preto

**SP1-K56 - The Influence of Fluorene and  
Phenylene Groups in Alternating Copolymers**

Thays C. F. Santos, Fábio C. Correia, Fábio Santana  
Dos Santos, Wang Shu Hui, Jarem Raul Garcia<sup>1</sup>,  
Laura Oliveira Péres; <sup>1</sup>Universidade Estadual de Ponta  
Grossa

**SP1-K57 - Effect of layer thickness on the  
performance of solar cells based on**

**polymer:fullerene bulk heterojunction (BHJ)**

Douglas José Coutinho<sup>1</sup>, Roberto Mendonça Faria<sup>1</sup>; <sup>1</sup>Instituto de Física de São Carlos

**SP1-K58 - Flow analysis in microfluidic chip**

Cristiane Margarete Daikuzono<sup>1</sup>, Cléber Aparecido Rocha Dantas, Maria Helena Piazzetta, Angelo Gobbi, Antonio Riul Jr.<sup>1</sup>; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP1-K59 - The effect of light in organic MIS capacitor**

Fernando Pereira Sabino<sup>1</sup>, Élder Mantovani Lopes<sup>1</sup>, José Alberto Giacometti, Neri Alves; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP1-K60 - Synthesis and characterization of sulfonated poly-{styrene-co-vinyl acetate}**

Marcos Marques da Silva Paula, João Vitor Lara, Marcio Antonio Fiori, Roberto Benavides Cantu, Barbara Lummertz Santana, Luciano da Silva

**SP1-K61 - Study of electrical conduction processes in conducting polymers near percolation**

Haroldo Naoyuki Nagashima<sup>1</sup>, Roberto Mendonça Faria<sup>2</sup>; <sup>1</sup>Faculdade de Engenharia - Campus de Ilha Solteira, <sup>2</sup>Instituto de Física de São Carlos

**SP1-K62 - Fabrication and electric characterization of aluminum oxide ultra-thin films**

Marcelo Marques da Silva<sup>1</sup>, Neri Alves, Élder Mantovani Lopes<sup>2</sup>, José Alberto Giacometti; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP1-K63 - A Nanocarrier Charge Model for the Transport in Poly(o-alkoxyanilines)**

Fabio Lima Leite, Marcelo L Simões, Mario Oliveira Neto, Pedro Augusto de Paula Nascente<sup>1</sup>, Carlos José Leopoldo Constantino, Luiz Caparelli Mattoso, Osvaldo Novais Oliveira Jr; <sup>1</sup>Universidade Federal de São Carlos

**TUESDAY, SEPTEMBER 27TH****SESSION SP2****14:00 - 16:00 - Exhibition Hall****SP2-K64 - Palladium nanoparticles stabilized with glucose oxidase enzyme incorporated in PPV-Stearic Acid film: implication in luminescent and conducting properties**

Luciano Caseli<sup>1</sup>, Thiago Eichi Goto, Andrei Sakai<sup>1</sup>, Rodrigo M Iost, Frank Nelson Crespilho, Laura Oliveira Péres; <sup>1</sup>Universidade Federal de São Paulo

**SP2-K65 - Characterization of Langmuir films****composed of polyaniline and montmorillonite clay**

Anerise de Barros<sup>1,2</sup>, Mariselma Ferreira, Marystela Ferreira; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Estadual Paulista

**SP2-K66 - Optimized conditions of crystallization in solution for obtaining  $\beta$  phase films of poly(vinylidene fluoride)**

Gustavo Ruivo Salmazzo<sup>1</sup>, Marcio José Rodrigues Amorin, Evaristo Alexandre Falcão<sup>1</sup>, Anderson Rodrigues Lima Caires, Eriton Rodrigo Botero<sup>1</sup>; <sup>1</sup>Fundação Universidade Federal da Grande Dourados

**SP2-K67 - Development of genosensors containing functionalized oligonucleotides and AuNPs for advanced diagnosis of blood hypertension.**

Thalita Verônica Calheiros Rolim<sup>1</sup>, Valtencir Zucolotto; <sup>1</sup>Universidade de São Paulo

**SP2-K68 - Biological Membrane Mimetic Systems Applied as Transducers for Detection of Phenothiazine in Highly Diluted Systems**

Pedro Henrique Benites Aoki<sup>1</sup>, Priscila Alessio Constantino<sup>2</sup>, Antonio Riul Jr.<sup>3</sup>, Carlos José Leopoldo Constantino; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Presidente Prudente, <sup>3</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP2-K69 - Langmuir Monolayers Containing Crude Extract of Urease For Developing Biosensors**

Juliana Coatrini Soares<sup>1</sup>, V P. N. Geraldo, Edgar A Sanches<sup>2</sup>, Osvaldo Novais Oliveira Jr; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Física de São Carlos

**SP2-K70 - Supramolecular Structures Containing Phospholipids for Sensing Applications**

Carlos José Leopoldo Constantino, Pedro Henrique Benites Aoki<sup>1</sup>, Priscila Alessio Constantino<sup>2</sup>; <sup>1</sup>Fct-Unesp Campus de Presidente Prudente, <sup>2</sup>Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Presidente Prudente

**SP2-K71 - Mucin and chitosan nanoassembled in phospholipid Langmuir monolayers and Langmuir-Blodgett films: the role of chitosan in molecular level interactions**

Cristiane Aparecida Silva<sup>1</sup>, Thatyane Morimoto Nobre<sup>1</sup>, Felipe Jose Pavinatto, Osvaldo Novais Oliveira Jr; <sup>1</sup>Instituto de Física de São Carlos

**SP2-K72 - The interaction of metal nanoparticles with cell membrane models for nanotoxicity evaluation**

Thiers Massami Uehara<sup>1</sup>, Paulo Barbeitas Miranda,

Valtencir . Zucolotto; <sup>1</sup>Universidade de São Paulo  
**SP2-K73 - Layer-by-Layer Films Containing Nickel Phthalocyanine and DODAB for Sensing Applications**

Leonardo Negri Furini<sup>1</sup>, Carlos José Leopoldo Constantino, Eloi Feitosa; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP2-K74 - Physical-chemistry studies and biological activity tests of Curcumin-Nanoemulsion as a new nanomaterial to cancer therapy**

Júlia . Martins<sup>1</sup>, Fernando Lucas Primo, Ana Claudia Pavarina, Antonio Claudio Tedesco; <sup>1</sup>Universidade de São Paulo

**SP2-K75 - Interaction of Congo Red with bovine serum albumin**

Izuleide Moraes Rosa<sup>1</sup>, Gleidson Cardoso<sup>1</sup>, Jackeline Barbosa Brito<sup>1</sup>, Romario Justino da Silva<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K76 - Nanostructured films from carbon nanotubes: surface morphology and electrical characterization**

Jackeline Barbosa Brito<sup>1</sup>, Douglas José Correia Gomes<sup>1</sup>, Vanessa D Justina, Aline Margarete Furuyama Lima<sup>1</sup>, Clarissa Olivati, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K77 - Tartrazine dye: the influence of the concentration and pH**

Jackeline Barbosa Brito<sup>1</sup>, Gean P.s Aguiar, Julio C.j. Flores, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K78 - Layer-by-Layer films from BSA and Ferrofluid**

Polliana Rodrigues Coelho<sup>1</sup>, Rafael Roberti Gil Maciel<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K79 - Nanostructured films prepared by spray and LbL techniques: effect of irradiation time on surface morphology**

Gleidson Cardoso<sup>1</sup>, Romario Justino da Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K80 - PVD Films of Perylene Derivatives: Molecular Architecture Comparison**

Priscila Alessio Constantino<sup>1</sup>, Carlos José Leopoldo Constantino; <sup>1</sup>Universidade Estadual Paulista "júlio de

Mesquita Filho" - Campus Presidente Prudente  
**SP2-K81 - Development and characterization of a polymeric nanoemulsion as a drug delivery system for phenylthio zinc phthalocyanine`**

João Marcos Gonçalves<sup>1</sup>, Fernando Lucas Primo, Juliana Campos Junqueira, Antonio Claudio Tedesco; <sup>1</sup>Ffclrp - Universidade de São Paulo

**SP2-K82 - Immobilization of monoamine oxidase encapsulated into liposomes and its application as biosensor**

Marli Moraes, Osvaldo Novais Oliveira Jr, Marystela Ferreira

**SP2-K83 - Investigating Capsaicinoids Non-Neuronal Effects Using Langmuir Monolayers**

Luciano Caseli<sup>1</sup>, Yurika Okamoto Iwaki, Thatyane Morimoto Nobre<sup>2</sup>, Osvaldo Novais Oliveira Jr; <sup>1</sup>Universidade Federal de São Paulo, <sup>2</sup>Instituto de Física de São Carlos

**SP2-K84 - Incorporation and immobilization of Aloe vera into liposomes films for application in drug delivery**

Aline Carla Farrapo Xavier, Marli Moraes, Marystela Ferreira

**SP2-K85 - Spectroscopic study of nanostructured films containing carbon nanotubes and nickel phthalocyanines for biosensing**

Lilian Maria Pessoa da Cruz Centurion<sup>1</sup>, Valtencir . Zucolotto; <sup>1</sup>Universidade de São Paulo

**SP2-K86 - Natural rubber gold nanoparticles with organic electrodes for study of enzymatic catalysis**

Flávio Camargo Cabrera<sup>1</sup>, Edson G. R. Fernandes, Rodrigo M Iost, Valtencir Zucolotto, Frank Nelson Crespilhlo, José Alberto Giacometti<sup>2</sup>, Aldo Eloizo Job; <sup>1</sup>Universidade Estadual Paulista "júlio de Mesquita Filho", <sup>2</sup>Fct-Unesp Campus de Presidente Prudente

**SP2-K87 - Effect of side chain length on Langmuir and Langmuir-Blodgett films of**

**azopolymer/poly(alkyl methacrylate)s mixtures**

Lucineia Ferreira Ceridório<sup>1</sup>, Débora Teresia Balogh, Osvaldo Novais Oliveira Jr; <sup>1</sup>Instituto de Física de São Carlos

**SP2-K88 - Development of Novel Biocomposites Conjugating Gold Nanoparticles and Proteins for biomedical applications**

Valéria Spolon Marangoni, Valtencir . Zucolotto, Ieda Maria Paino

**SP2-K89 - Kinetic study of the PPO enzyme inhibition by benzoic acid for use in electrochemical biosensors**

André Brisolari<sup>1</sup>, Valquiria Rodrigues, Juliana

Coatrini Soares<sup>2</sup>, Débora Gonçalves; <sup>1</sup>Instituto de Física de São Carlos, <sup>2</sup>Universidade de São Paulo

**SP2-K90 - Electronic Tongue System: tainting compounds detection**

Guilherme de Souza Braga, Leonardo Giordano Paterno, Fernando Josepetti Fonseca<sup>1</sup>; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP2-K91 - Crystallization processes of proteins and small organic molecules**

Adriele Aparecida Almeida<sup>1</sup>, Odin G.c Godinho<sup>1</sup>, Jackeline Barbosa Brito<sup>1</sup>, Douglas José Correia Gomes<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K92 - Nanostructured films from erythrosin: the influence of the solution temperature**

Odin G.c Godinho<sup>1</sup>, Jackeline Barbosa Brito<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K93 - Metal-Organic Framework Eu(1,3,5-BTC) as Luminescent Marker for Gunshot Residue**

Marcella Auxiliadora de Melo Lucena<sup>1</sup>, Ingrid Tavora Weber, Adenaule James Geber de Melo, Severino Alves Junior, Marcelo Oliveira

Rodrigues; <sup>1</sup>Universidade Federal de Pernambuco

**SP2-K94 - Synthesis and characterization of natural rubber with bimetallic gold and silver nanoparticles (Au-Ag)**

Leandra Oliveira Salmazo, Flávio Camargo Cabrera<sup>1</sup>, Aldo Eloizo Job; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP2-K95 - Conformational, Optical, and Vibrational Properties of Calix[4]arene and Calix[6]arene**

Valeria Aparecida Mattar Vilas Boas, Valeria Aparecida Mattar Vilas Boas

**SP2-K96 - Optimization of the film production of pepsin for the detection of hemoglobin**

Paulo André Tavares<sup>1</sup>, Marystela Ferreira; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP2-K97 - Development of hydroxyapatite into Pluronic F 127 composites**

Vanessa Danielle de Oliveira Fortes, Zaine Teixeira, Wandemberg Aranha Diniz

**SP2-K98 - Electrochemical synthesis of polyaniline by pulsed deposition and characterization of the films**

Táise Matte Manhobosco<sup>1</sup>, Syro Lacerda, Bruna Postacchini, Iduvirges Lourdes Müller; <sup>1</sup>Universidade

Federal de Ouro Preto

**SP2-K99 - Structural Phase Transition and Fedoped Dipeptide Nanotubes**

Paula Maria Gabriela Leal Ferreira<sup>1</sup>, Bruno Barros Cunha, Fabio Furlan Ferreira<sup>1</sup>, Wendel Andrade Alves, Jose Antonio Souza; <sup>1</sup>Universidade Federal do Abc

**SP2-K100 - Metal Biosensor based on polystyrene sulfonic and Moringa oleifera**

Marcela Félix Chaves Ferreira<sup>1</sup>, Alexandre Marletta<sup>1</sup>, Mauricio Foschini<sup>1</sup>, Franciellen Ferreira, Silésia de Fátima Curcino da Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia

**SP2-K101 - Nanoparticles from ultrasound-processed chitin**

Erika Virginia Raphael de Almeida<sup>1</sup>, Mario Sérgio Mariano, Sérgio Paulo Campana Filho<sup>2</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Química de São Carlos, <sup>2</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**SP2-K102 - Azodye photoisomerization process in luminescent layer-by-layer poly(p-phenylenevinylene) / Congo Red films**

Gustavo Gonçalves Dalkirani<sup>1</sup>, Eralci M. Therézio<sup>1</sup>, Luiz Carlos Poças, José L. Duarte, Edson Laureto, Ivan Dias, Alexandre Marletta<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia

**SP2-K103 - Immobilization of Glucose Oxidase into liposomes for application in amperometric glucose biosensor**

Victor Vieira de Moraes Neto<sup>1</sup>, Marystela Ferreira, Marli Leite Moraes; <sup>1</sup>Universidade Federal de São Carlos - Campus Sorocaba

**SP2-K104 - Study of hemoglobin as electrochemical mediator in LbL films for application to cholesterol biosensor**

Tâmera Tais Lima Souza, Marli Leite Moraes, Marystela Ferreira

**SP2-K105 - Structure-properties relationship and polarization effect on the two-photon absorption of push-pull triarylamine compounds**

Marceçp Gonçalves Vivas, Leonardo de Boni, Cleber R. Mendonça

**SP2-K106 - Adsorption process in layer-by-layer and spray films of erythrosin and BSA**

Rafael Roberti Gil Maciel<sup>1</sup>, Jackeline Barbosa Brito<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K107 - Nanostructured layer-by-layer films from trans-resveratrol and wine: adsorption and morphological properties**

Marcio do Nascimento Gomes<sup>1</sup>, Jackeline Barbosa Brito<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K108 - Incorporation of Chitosan and Human Pancreatic Lipase onto Langmuir monolayer of lipid**

Adriano Lopes de Souza<sup>1</sup>, Felipe Jose Pavinatto, Luciano Caseli<sup>2</sup>, Osvaldo Novais Oliveira Jr; <sup>1</sup>Instituto de Física de São Carlos, <sup>2</sup>Universidade Federal de São Paulo

**SP2-K109 - Optical characterization of E7® liquid crystal doped with 5A chromophore.**

Gustavo Gonçalves Dalkiranis<sup>1</sup>, Ivan Helmuth Bechtold, Alexandre Marletta<sup>1</sup>; <sup>1</sup>Universidade Federal de Uberlândia

**SP2-K110 - Reparametrization of UFF for thiophene oligomers, polymers and derivatives**

Marcelo Alves Dos Santos, Regina Lélis-Sousa, Rodrigo Ramos, Marília J. Caldas

**SP2-K111 - Multifunctional nanostructured films from congo red dye and multi-walled nanotubes: adsorption kinetics, surface morphology, and electrical conductivity**

Romario Justino da Silva<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>, Gleidson Cardoso<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K112 - Nanostructured films from sinapinic acid alternated with PAH: effects of light irradiation on spectroscopic and surface morphology properties**

Cleverson Alves Silva Moura<sup>1</sup>, Nara Cristina de Souza<sup>1</sup>, Josmary Rodrigues Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K113 - Electrical and Optical Properties of Thin Films of Quercetin**

José da Silva, Fernando Fabris<sup>1</sup>, George Barbosa da Silva; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças

**SP2-K114 - Molecular photoinduced orientation in natural rubber**

Douglas José Correia Gomes<sup>1</sup>, Adriana S Cavaliere, Aldo Eloizo Job, José Alberto Giacometti<sup>2</sup>, Osvaldo Novais Oliveira Jr, Nara Cristina de Souza<sup>2</sup>, Josmary Rodrigues Silva<sup>2</sup>; <sup>1</sup>Universidade Federal de Mato Grosso/ Barra do Garças, <sup>2</sup>Fct-Unesp Campus de Presidente Prudente

**SP2-K115 - Biomimetic Sensors Based on Nanostructured Platforms for Phenol Detection**

Edson G. R. Fernandes, Laís C. Brazaca, María Luz

Rodríguez-Méndez, José Antonio de Saja, Valtencir . Zucolotto

**SP2-K116 - Hybrids materials of gold doped amino acids crystals**

Vicente Lira Kupfer<sup>1</sup>, Cleiser Tiago Pereira Silva, Silvia M Souza, Eriton Rodrigo Botero<sup>2</sup>, Nelson Luis Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Universidade Federal da Grande Dourados, <sup>2</sup>Fundação Universidade Federal da Grande Dourados

**SP2-K117 - Immobilization of Phytase encapsulated into liposome for the determination of phytic acid in standard solutions**

Valquiria Rodrigues, Marli Leite Moraes, André Brisolari<sup>1</sup>, Marystela Ferreira, Débora Gonçalves; <sup>1</sup>Instituto de Física de São Carlos

**SP2-K118 - Elastomeric micro/submicron fibers produced by electrospinning method**

Fernanda Stieven Soares, Isabel Roggia, Cláudio Nunes Pereira<sup>1</sup>; <sup>1</sup>Tecnano Pesquisas E Serviços Ltda.

**SP2-K119 - Stimuli-responsive Poly(N-vinylcaprolactam-co-acrylic acid) nanoparticles by nanoprecipitation method**

Bárbara Rezende Lara<sup>1</sup>, Simone de Fátima Medeiros, Amilton Martins Dos Santos; <sup>1</sup>Escola de Engenharia de Lorena - Usp

**SP2-K120 - Development of Biosensors Using Peptide Nanotubes modified with Microperoxidase-11**

Thiago Carvalho Cipriano, Rondes Ferreira Silva, Wendel Andrade Alves

**SP2-K121 - A colorimeter method validation for rodhamine B photodegradation assessment in cellulose acetate nanofibers**

Cândida Raquel Scherer Montero, Sandra Jussara Nunes Silva, Fernanda Stieven Soares, Aline Procedi, Patricia Pranke<sup>1</sup>, Cláudio Nunes Pereira<sup>2</sup>; <sup>1</sup>Federal University Of Rio Grande do Sul, <sup>2</sup>Tecnano Pesquisas E Serviços Ltda.

**SP2-K122 - Theoretical Study of Interactions between Cd and DNA Bases**

Philippe Alexandre Divina Petersen, Helena Maria Petrilli, Marcos Brown Gonçalves

**SP2-K123 - Synthesis and characterization of polyaniline doped with oleic acid**

Vicente Lira Kupfer<sup>1</sup>, Keurison Figueredo Magalhães, Samuel Leite Oliveira, Anderson Rodrigues Lima Caires, Nelson Luis Domingues, Andrelson Wellington Rinaldi; <sup>1</sup>Universidade Federal da Grande Dourados

**SP2-K124 - Porphyrin-Sensitized Polymers for Use**

**in Photovoltaic Cells: Synthesis and Properties**

Angelita Maria Machado, Leni Campos Akcelrud  
**SP2-K125 - Chemical Force Microscopy with Enzymes: Applications for Detecting Herbicides**  
Fabio Lima Leite, Osvaldo Novais Oliveira Jr, Paulo Sergio de Paula Herrmann<sup>1</sup>, Eduardo de Faria Franca, Luiz Gomide Freitas; <sup>1</sup>Embrapa Instrumentação  
**SP2-K126 - Solvent effect on the Q-band shape of cationic porphyrins**

Renato Neiva Sampaio<sup>1</sup>, Erick Piovesan, Marflia Batista Silva, Mariana Oliveira Borges, Antonio Eduardo da Hora Machado, Rodrigo de Paula, Newton Martins Barbosa Neto<sup>2</sup>; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Universidade Federal de Minas Gerais

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**SYMPOSIUM L**


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**Structure-Property Relationship of Ceramic Materials: Theoretical and Experimental Aspects**
Chairs

Carlos Pérez Bergmann - (UFRGS)  
 Elson Longo (Unesp)  
 Julio Ricardo Sambrano (Unesp)  
 Juan Andrés (Universitat Jaume I, Spain)  
 Wilson Acchar (UFRN)  
 Valerie Bouquet (Université Rennes1, France)  
 Shay Reboh (CEMES, Toulouse, France)

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**ORAL PRESENTATIONS**

\* Invited Lecture

**MONDAY, SEPTEMBER 26TH****SESSION L1****09:30 - 10:30 - Room 01****09:30 - L1.1\***

**Interplay of Theory and Experimental Investigations in Solid State Phenomena, Material Science and Nanotechnology**

Lourdes Gracia Edo<sup>1</sup>; <sup>1</sup>Universitat Jaume I

**10:00 - L1.2**

**Mechanical properties and dissolution behavior of c-axis preferentially oriented bioceramic hydroxyapatite thin films**

Renato P. Camata, Yogesh K. Vohra, Hyunbin Kim

**10:15 - L1.3**

**Structural and electrical characterization of Co doped bismuth manganite nanoparticles**

Muhammad Anis-Ur -Rehman, Khush Bakht Akram

**SESSION L2****11:00 - 12:30 - Room 01****11:00 - L2.1\***

**Essential Steps for the Success of a Nanotechnology Joint-Venture Manufacture**

Ademir Zanota<sup>1</sup>; <sup>1</sup>Syngenta

**11:30 - L2.2**

**Analysis of Brazilian quartz supply for flame-fused silica glass production**

Eduardo Ono, Christiano P. Guerra, Murilo F. M. Santos, Delson Torikai, Carlos K. Suzuki

**11:45 - L2.3**

**Load Transfer in Ceramic Matrix Composites: A Simplified Shear-Lag Model**

Joao Gustavo Pereira da Silva, Dachamir Hotza, Rolf Janssen, Hazim Ali Al-Qureshi

**12:00 - L2.4**

**Bone as “Composite Material”**

Ahmet Hikmet Ucisik, Mehmet Hikmet Ucisik, Isil Kutbay, Cuma Bindal, Metin Usta, Ahmet Gul

**12:15 - L2.5**

**Low loading Ti-doped Zr for ethanol sensor**

Kleper de Oliveira Rocha<sup>1</sup>, Sonia Maria Zanetti<sup>1</sup>; <sup>1</sup>Sencer Sensores Cerâmicos

**SESSION L3****15:00 - 16:00 - Room 01****15:00 - L3.1**

**Interaction of small molecules on zinc oxide surfaces: LCAO and plane wave**

João Batista Lopes Martins<sup>1</sup>, Elton A. S. Castro, Ricardo Gargano, Elson Longo, Sergio A. de S. Farias; <sup>1</sup>Universidade de Brasília

**15:15 - L3.2**

**Ozawa method applied in the evaluation thermokinetic of acid sites in lanthanum-doped mesoporous vermiculite**

Marcus Venicio da Silva Fernandes<sup>1</sup>, Sara Regina Moura Figueiredo Porto, Lindomar Roberto Damasceno da Silva; <sup>1</sup>Universidade Federal do Ceará

**15:30 - L3.3**

**Boehmite prepared by sol gel route applied as ethanol sensor**

Kleper de Oliveira Rocha<sup>1</sup>, Sonia Maria Zanetti<sup>1</sup>; <sup>1</sup>Sencer Sensores Cerâmicos



15:45 - L3.4

**Photoluminescence induced by epitaxy in thin films of MSnO<sub>3</sub> (M= Ca or Sr) obtained by CSD**

Mary Cristina F Alves<sup>1</sup>, Paulo Sergio Pizani, Elson Longo, Antônio Gouveia Souza, Maryline Guilloux-Viry, Valérie Bouquet, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

**TUESDAY, SEPTEMBER 27TH**

**SESSION L4**

**09:30 - 10:30 - Room 01**

09:30 - L4.1\*

**Refractory microstructure engineering: Fundamentals, production and imagination**

Victor Carlos Pandolfelli

10:15 - L4.2

**Characterizing permeability and micro- mesopore structure of tight gas sands using transient pulse decay and nitrogen gas adsorption techniques**

Mayka Schmitt, Celso Peres Fernandes, Fabiano

Gilberto Wolf, Giuseppe Zanella

Sampaio<sup>1</sup>; <sup>1</sup>Universidade Federal de Santa Catarina

10:30 - L4.3

**Cation exchange in aqueous clay suspensions with lithium, sodium and potassium-based deflocculants**

Deyse Gonzaga Gomes Delavi<sup>1,2,3</sup>, Agenor de Noni Jr,

Dachamir Hotza; <sup>1</sup>Universidade Federal de Santa

Catarina, <sup>2</sup>Universidade do Extremo Sul

Catarinense, <sup>3</sup>Instituto Maximiliano Gaidzinski

**SESSION L5**

**11:00 - 12:30 - Room 01**

11:00 - L5.1\*

**On the ionic conductivity of ceria/zirconia superlattices: theoretical and experimental approaches**

Enrico Traversa

11:30 - L5.2

**Photoluminescence in the SrSnO<sub>3</sub>:Fe<sup>3+</sup> perovskite**

Fagner Gomes Vieira, Graziela Casali, Paulo Sergio

Pizani, Elson Longo, Ary da Silva Maia<sup>1</sup>, Antônio

Gouveia Souza, Iêda Maria Garcia

Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

11:45 - L5.3

**Ceramic matrix composites derived from TiSi<sub>2</sub>-filled polysiloxane**

Breno Ferreira de Sousa<sup>1</sup>, Aloízio Geraldo de Araújo

Júnior, Tulio Hallak Panzera, Carla Patrícia Lacerda

Rubinger, Marco Antonio Schiavon<sup>1</sup>; <sup>1</sup>Universidade

Federal de São João Del Rei

12:00 - L5.4

**Luminescent properties of Cr<sup>3+</sup> ions in SrGa<sub>2</sub>O<sub>4</sub>**

Ludiane Silva Lima<sup>1</sup>, Raul José da Silva Camara

Mauricio da Fonseca<sup>1</sup>, Ricardo Borges Barthem, Ada

López; <sup>1</sup>Universidade do Estado do Rio de Janeiro

12:15 - L5.5

**Photocatalysts based on pulsed laser deposited SrSn<sub>1-x</sub>Ti<sub>x</sub>O<sub>3</sub> thin films**

Andre Luiz Menezes de Oliveira, Stéphanie Députier,

Valérie Bouquet, Ronan Lebullenger, Antônio

Gouveia Souza, Iêda Maria Garcia Santos<sup>1</sup>, Maryline

Guilloux-Viry; <sup>1</sup>Universidade Federal da Paraíba

**WEDNESDAY, SEPTEMBER 28TH**

**SESSION L6**

**09:30 - 10:30 - Room 01**

09:30 - L6.1\*

**High-K, high-Q microwave dielectrics: What is the compromise today?**

Danilo Suvorov

10:00 - L6.2

**Alkaline activation of Brazilian metakaolin: processing against physical and durability properties**

Paulo H R Borges, Vitor Alencar Nunes, Thiago

Câmara Rodrigues de Souza<sup>1</sup>, Anna Carolina Oliveira

Mendes<sup>1</sup>, Stefan Chaves Figueiredo, Matias Angeletti,

Carlos Thomas<sup>2</sup>; <sup>1</sup>Centro Federal de Educação

Tecnológica de Minas Gerais, <sup>2</sup>University Of

Cantabria

10:15 - L6.3

**Synthesis of Ceramic Fibers for Aerospace Application**

Tiago Delbücke<sup>1</sup>, Rogério Almeida Gouvêa<sup>2</sup>, Sergio

da Silva Cava, Neftalí Lenin Villarreal Carreño,

Margarete Regina Freitas Gonçalves; <sup>1</sup>Universidade

Federal de Pelotas - Cdtec - Laboratório da

Engenharia de Materiais, <sup>2</sup>Universidade Federal de

Pelotas

**SESSION L7**

**11:00 - 12:30 - Room 01**

11:00 - L7.1\*

**Bismuth manganite multiferroics prepared by mechanochemical synthesis**

Goran Brankovic<sup>1</sup>, Zorica Marinković, Zvonko

Jagličić, Marko Jagodič, Lidija Mančić, Aleksander

Rečnik, Zorica Brankovic; <sup>1</sup>Instituto de Química

Unesp

11:30 - **L7.2**
**New Magnetic Resonance Approaches Towards the Structural Characterization of Luminescent Ceramic Materials**

Hellmut Eckert<sup>1</sup>, Heinz Deters, Andrea Simone Stucchi de Camargo<sup>1</sup>, José Fernando de Lima, Cláudio José Magon; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos

11:45 - **L7.3**
**Study of the foundry sand for use on cementitious artifacts**

Elidio Angioletto, Marcio Roberto da Rocha, Fernando Pelisser, Miguel Angelo Mastela, Angela Beatriz Coelho Arnt, Oscar Rubem Klegues Montedo, Alexandre Vargas

12:00 - **L7.4**
**Energy conversion evaluated from structural parameters of BaHfZrO<sub>3</sub>: The convolution of theoretical and experimental insights.**

Mário Lúcio Moreira, Juan Andrés, Valmor Roberto Mastelaro<sup>1</sup>, José Arana Varela<sup>2</sup>, Elson Longo; <sup>1</sup>Universidade de São Paulo - Eesc/ifsc/iqsc, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

12:15 - **L7.5**
**Effect of RHA on the durability performance of cellulose-cement composites reinforced with eucalyptus pulp**

Mariana Arruda Pereira, Stefan Chaves Figueiredo, Conrado Souza Rodrigues

**SESSION L8**
**15:00 - 16:00 - Room 01**
15:00 - **L8.1**
**Influence of production conditions on morphology and size of hydroxyapatite particles produced via controlled precipitation route**

Janaína Alves Peixoto<sup>1</sup>, Mario Ernesto Valerio<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe

15:15 - **L8.2**
**Polycrystalline samples of SrGa<sub>2</sub>O<sub>4</sub>:Ni<sup>2+</sup> - Synthesis, Structural and Optical characterization**

Jéssica Furtado Guimarães<sup>1</sup>, Raul José da Silva Camara Mauricio da Fonseca<sup>1</sup>, Ada López, Ricardo Borges Barthem; <sup>1</sup>Universidade do Estado do Rio de Janeiro

15:30 - **L8.3**
**Simulation of the reaction zinc acetate with water to build zinc oxide nanoparticles**

Sergio Ricardo de Lázaro<sup>1</sup>, Aline M. D. Natal, Daniella Inglês<sup>1</sup>, Renan Augusto Pontes Ribeiro<sup>1</sup>,

Renato Ferras Penteadó<sup>1</sup>, Sergio Mazurek Tebcherani; <sup>1</sup>Universidade Estadual de Ponta Grossa

15:45 - **L8.4**
**Physical and mechanical characterization of calcium phosphate (hydroxyapatite) obtained from the gypsum**

Thiago Álvares, Tales Pereira, Alan Dantas, Andrea Ferraz, Néelson Olivier

**THURSDAY , SEPTEMBER 29TH**
**SESSION L9**
**09:30 - 10:30 - Room 01**
09:30 - **L9.1**
**Presence of excited electronic state in CaWO<sub>4</sub> crystals provoked by a tetrahedral distortion: An experimental and theoretical investigation**

Valeria Moraes Longo, Lourdes Gracia, Laecio S. Cavalcante, Waldir Avansi, Juan Andrés, José Arana Varela<sup>1</sup>, Elson Longo; <sup>1</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

09:45 - **L9.2**
**A study on foundry sand linear thermal expansion and its influency on core and mold hot properties.**

Elaine Carina Carlini<sup>1</sup>, Wilson Luiz Guesser; <sup>1</sup>Fundação Universidade do Estado de Santa Catarina

10:00 - **L9.3**
**Perovskite-type La<sub>1-x</sub>Ce<sub>x</sub>MO<sub>3</sub> (M=Co,Mn) as catalysts: Synthesis and Characterization**

Silvia Salua Maluf<sup>1</sup>, Conrado Ramos Moreira Afonso<sup>2</sup>, Elisabete Moreira Assaf, Pedro Augusto de Paula Nascente<sup>2</sup>; <sup>1</sup>Programa de Pós Graduação Em Ciência E Engenharia de Materiais da Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal de São Carlos

10:15 - **L9.4**
**Soil-cement and conventional masonry: A costs comparative**

Tarcísio Santiago Gomes Filho<sup>1,2</sup>, Sábata Cecília Andrade Rodrigues, Kaline Muriel de Figueiredo Gomes; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Companhia do Desenvolvimento Dos Vales do São Francisco E Parnaíba

**POSTER PRESENTATIONS**
**MONDAY , SEPTEMBER 26TH**
**SESSION SP1**
**16:00 - 18:00 - Exhibition Hall**

**SP1-L1 - Characterization and Behavior of Magnesium Diboride and Boron Carbide Obtained by Metallothermic Reduction Applied in Carbon Containing Refractories**

Karina Silva Campos<sup>1</sup>, Guilherme Frederico Bernardo Lenz E Silva, Eduardo Henrique Martins Nunes, Wander Luiz Vasconcelos; <sup>1</sup>Universidade Federal de Minas Gerais

**SP1-L2 - Optical and morphological properties of Ce-doped TiO<sub>2</sub>-MoO<sub>3</sub> ceramic matrix**

Samara Schmidt<sup>1</sup>, Siara Silvestri, Sergio Mazurek Tebcherani, Evaldo Toniolo Kubaski, Thiago Sequinel<sup>2</sup>, Graciela Aparecida Dos Santos Silva, Renata Martins Silva; <sup>1</sup>Universidade Estadual de Ponta Grossa, <sup>2</sup>Instituto de Química Unesp

**SP1-L3 - Synthesis of Nickel Nitrate Deposited Silica About to Obtain Ceramic Pigments Method for the Forerunners of Polymeric**

Dárcia Sâmia Santos Moura<sup>1</sup>, Everlânia Maria da Silva<sup>1</sup>, Marcio Luis Varela Nogueira Moraes<sup>2</sup>, Carlos Alberto Paskocimas; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

**SP1-L4 - Piezoelectricity of Quartz Rocks and Hessdalen Lights**

Gerson Silv A Paiva, Carlton Antony Taft<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP1-L5 - Influence of raw materials and production process on the properties of Autoclaved Aerated Concrete (AAC)**

Renata Borges Jacóe<sup>1</sup>, Luanna Ribeiro Drumond, Conrado Souza Rodrigues; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais

**SP1-L6 - Synthesis of ceramic pigments based on Fe<sub>2</sub>O<sub>3</sub>-doped SnO<sub>2</sub>.**

Samara Schmidt<sup>1</sup>, Sergio Mazurek Tebcherani, Evaldo Toniolo Kubaski, Thiago Sequinel<sup>2</sup>, Gabriele Scheidt, Sabrina Marinho Kaplum, Thiago Domingues Holzmann; <sup>1</sup>Universidade Estadual de Ponta Grossa, <sup>2</sup>Instituto de Química Unesp

**SP1-L7 - Investigation on sintering behavior and combustion synthesis of nano-crystalline yttria-stabilized zirconia electrolyte**

Taisa Eva Fuziger Gutierrez<sup>1</sup>, José Geraldo de Melo Furtado, Gisele Ezechiello da Silva, Rodrigo Dias, Roberto Furtado, Eduardo Torres Serra; <sup>1</sup>Electric Power Research Center

**SP1-L8 - Stabilities of Double wall nanotubes of SiC and BN with the semi-empirical AM1 and Ab-Initio HF methods**

Rogério José Costa, Jose Divino Dos Santos<sup>1</sup>, João

Batista Lopes Martins<sup>2</sup>, Carlton Antony Taft<sup>3</sup>, Marcos Reis Vargas, Elson Longo; <sup>1</sup>Universidade Estadual de Goiás, <sup>2</sup>Universidade de Brasília, <sup>3</sup>Centro Brasileiro de Pesquisas Físicas

**SP1-L9 - Chemical and thermal treatments of smectite clays**

Tharsia Cristiany de Carvalho Costa<sup>1</sup>, Carlos Alberto Paskocimas, José Daniel Diniz Melo; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-L10 - Continuous synthesis by solution combustion and characterization of nanostructured tin dioxide**

Micheline Dos Reis Araújo, Wilson Acchar, Carlos Alberto Paskocimas, Carlos Pérez Bergmann

**SP1-L11 - Grain boundary effect on the electrical properties of CeO<sub>2</sub>:RE<sub>2</sub>O<sub>3</sub> solid electrolytes for fuel cell applications**

Juliana Pivotto Nicodemo, Antonio Eduardo Martinelli<sup>1</sup>, Reginaldo Muccillo, Eliana Navarro Dos Santos Muccillo<sup>2</sup>, Amanda Lucena de Medeiros, Caroline Gomes Moura, Daniel Araujo de Macedo; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Energy And Nuclear Research Institute

**SP1-L12 - Synthesis of PT and PZT powders by the OPM method analyzed by Raman spectroscopy and X-ray diffraction.**

Lilium Kaori Yamada<sup>1</sup>, Edson Roberto Leite, Elson Longo, Emerson Rodrigues Camargo; <sup>1</sup>Universidade Federal de São Carlos

**SP1-L13 - Nanostructured TiO<sub>2</sub>-based photocatalysts for water splitting hydrogen production**

Juliana Mesquita de Andrade<sup>1</sup>, José Geraldo de Melo Furtado, Rodrigo Dias, Fernando Cosme Rizzo Assunção; <sup>1</sup>Electric Power Research Center

**SP1-L14 - The Influence of Zinc on Productivity of the Process of Catalytic Synthesis of Diamond in the system Ni-Mn-C via High Pressures and High Temperatures**

Simone Souto da Silva Oliveira<sup>1</sup>, Ana Lucia Diegues Skury; <sup>1</sup>State Technical School João Barcelos Martins

**SP1-L15 - The study of pore-forming agents for porous ceramic substrates processing by cold roll pressing**

Laís Koshimizu<sup>1</sup>, Márcio Raymundo Morelli; <sup>1</sup>Universidade Federal de São Carlos

**SP1-L16 - Investigation of microstructure evolution in gadolinia-doped ceria prepared with nanostructured powders**

Rafael Morgado Batista<sup>1</sup>, Eliana Navarro Dos Santos Muccillo<sup>1</sup>; <sup>1</sup>Energy And Nuclear Research Institute

**SP1-L17 - The influence of solvent, pH and surfactant on the synthesis of Bi<sub>2</sub>S<sub>3</sub> nanoparticles through hydro(solvo)thermal decomposition of single source precursor**

Guilherme Oliveira Siqueira<sup>1</sup>, Geraldo Magela de Lima, Arilza de Oliveira Porto; <sup>1</sup>Universidade Federal de Minas Gerais

**SP1-L18 - Synthesis of gray and green Sn<sub>(1-x)Co<sub>x</sub>O<sub>2</sub></sub> ceramic pigments via microwave-assisted hydrothermal method**

Alysson Bruno Barbosa Moreira<sup>1</sup>, Vinícius Dantas Araújo<sup>2</sup>, Maria Ines Basso Bernardi; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos, <sup>2</sup>Universidade de São Paulo

**SP1-L19 - X-ray absorption spectroscopy characterization of SrTiO<sub>3</sub> synthesized by hydrothermal microwave method**

Luís Fernando da Silva<sup>1</sup>, Alexandre Mesquita, Mário Lúcio Moreira, Elson Longo, Valmor Roberto Mastelaro<sup>2</sup>; <sup>1</sup>Physics Institute Of São Carlos, <sup>2</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**SP1-L20 - Rheology of alumina/binders mixture for low-pressure injection molding**

Pedro Antonio Ourique<sup>1</sup>, Matias Lunkes, Sérgio Echeverrigaray, Robinson Cruz, Arthur Susin Neto, Janete Eunice Zorzi; <sup>1</sup>Universidade de Caxias do Sul

**SP1-L21 - Photoluminescence of manganese tungstate nanorods synthesized by microwave-hydrothermal method**

Marcio Aurélio Pinheiro Almeida<sup>1</sup>, Elson Longo, Laecio Santos Cavalcante, Máximo Sui Li Li, José Arana Varela Varela; <sup>1</sup>Universidade Federal de São Carlos

**SP1-L22 - Ni<sup>2+</sup> doping effects on optical transitions in SrAl<sub>2</sub>O<sub>4</sub>**

Raimundo Nonato Silveira Junior<sup>1</sup>, Ada López, Ricardo Borges Barthem, Raul José da Silva Camara Mauricio da Fonseca<sup>1</sup>; <sup>1</sup>Universidade do Estado do Rio de Janeiro

**SP1-L23 - Correlated ionic diffusion and specific heat near the  $\gamma$ -to-  $\beta$  phase transition in RbAg<sub>4</sub>I<sub>5</sub>**

Rubén Antonio Vargas, Hernando Correa, Diego Peña-Lara

**SP1-L24 - Preparation and characterization of Pb<sub>0.5</sub>Ca<sub>0.5-x</sub>Li<sub>x</sub>TiO<sub>3</sub> thin films by chemical solution deposition**

Regina Aparecida Capeli<sup>1</sup>, Fenelon Martinho Pontes, Elson Longo; <sup>1</sup>Universidade Estadual Paulista

**SP1-L25 - Structural and electrical properties of attrition milled strontium- and magnesium-doped lanthanum gallate**

Shirley Leite Reis<sup>1</sup>, Eliana Navarro Dos Santos Muccillo<sup>1</sup>; <sup>1</sup>Energy And Nuclear Research Institute

**SP1-L26 - Sintering with concurrent crystallization: Modeling and experimental test varying the number of surface nucleation sites.**

Anne Jacqueline Barbosa, Raphael M. C. V. Reis<sup>1</sup>, Celso A. Goulart, Miguel O. Prado, Edgar Dutra Zanotto; <sup>1</sup>Universidade Federal de São Carlos

**SP1-L27 - Influence of synthesis time on the structure and morphology of copper oxide**

Jefferson Maul<sup>1</sup>, Graziela Casali, Maria Maurera, Elson Longo, Antônio Gouveia Souza, Dawy Keyson, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

**SP1-L28 - Hematite with different morphologies using the microwave hydrothermal method**

Arnayra Brito<sup>1</sup>, Jefferson Maul<sup>1</sup>, Graziela Casali, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>1</sup>, Dawy Keyson; <sup>1</sup>Universidade Federal da Paraíba

**SP1-L29 - Synthesis and characterization of CaZrO<sub>3</sub> sensor**

Rafaela Silveira André<sup>1</sup>, Sonia Maria Zanetti<sup>2</sup>, Kleper de Oliveira Rocha<sup>2</sup>, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Sencer Sensores Cerâmicos

**SP1-L30 - Photoluminescence properties of CaTiO<sub>3</sub>:Eu powders synthesized by the polymeric precursor method.**

Tatiana Martelli Mazzo<sup>1</sup>, Lucas Mendonça da Rocha Oliveira, Leilane Roberta Macario<sup>2</sup>, Ieda Lúcia Viana Rosa, José Arana Varela<sup>3</sup>, Elson Longo; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Instituto de Química de Araraquara-Unesp, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-L31 - Physical chemistry characterization of the commercial acid clays in the synthesis of biodiesel**

Jakeline Daniela Soares da Silva Nascimento<sup>1</sup>, Natan Pires Sá, Adriana Almeida Cutrim, Francisco Rolando Valenzuela Diaz, Maria Wilma Nunes Cordeiro Carvalho, Antônio Gouveia Souza, Maria Das Graças da Silva Valenzuela; <sup>1</sup>Universidade Federal de Campina Grande

**SP1-L32 - Effect of base in production of titanate nanostructures**

Jardel Meneses Rocha<sup>1</sup>, Francisco Marcos Batista, Bartolomeu Cruz Viana, Edson Cavalcanti da Silva Filho<sup>1</sup>, Luiz Sousa Santos Júnior, Maria Rita Santos, José Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí

**SP1-L33 - Influence of network former in CaSn<sub>1-x</sub>**

**$x\text{Ti}_x\text{O}_3$  system**

Yolanda Cavalcante de Miranda<sup>1</sup>, Jefferson Maul<sup>1</sup>, Márcia Rejane Santos da Silva<sup>2</sup>, Carlos Alberto Paskocimas, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal da Paraíba

**SP1-L34 - Effect of densification on fine particles of zirconia doped yttria compressed at high pressures**

Eleomar Lena<sup>1</sup>, Adilson Luiz Chinelatto, Adriana Scoton Chinelatto, Aldo Przybysz; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP1-L35 - Functionalization of montmorillonite clay with different compatibilizing agents.**

Guilherme Duarte de Barros<sup>1</sup>, Rogério Almeida Gouvêa<sup>1</sup>, Neftali Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Fabrício Ogliari, Sergio da Silva Cava; <sup>1</sup>Universidade Federal de Pelotas

**SP1-L36 - Synthesis of Zinc Selenide (ZnSe) capped by L-cysteine in Aqueous Media**

Alexandre Henrique Pinto<sup>1</sup>, Edson Roberto Leite, Elson Longo, Emerson Rodrigues Camargo; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP1-L37 - Influence of the growth direction on charge density in the tetragonal phase of the  $\text{PbTiO}_3$ .**

Renan Augusto Pontes Ribeiro<sup>1</sup>, Renato Ferras Penteado<sup>1</sup>, Daniella Inglês<sup>1</sup>, Sergio Ricardo de Lazaro<sup>1</sup>, Sergio Mazurek Tebcherani; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP1-L38 - Theoretical simulation of the structural defects in the  $\text{CaSnO}_3$  material**

Renato Ferras Penteado<sup>1</sup>, Renan Augusto Pontes Ribeiro<sup>1</sup>, Daniella Inglês<sup>1</sup>, Aline M. D. Natal, Sergio Ricardo de Lazaro<sup>1</sup>, Sergio Mazurek Tebcherani; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP1-L39 - Phase polymorphic influence of synthetic  $\text{TiO}_2$  in the production of nanostructures**

Jardel Meneses Rocha<sup>1</sup>, Francisco Marcos Batista, Bartolomeu Cruz Viana, Edson Cavalcanti da Silva Filho<sup>1</sup>, Valdemir Dos Santos<sup>2</sup>, Maria Rita Santos, José Milton Elias de Matos<sup>2</sup>; <sup>1</sup>Universidade Federal do Piauí, <sup>2</sup>Universidade Federal de São Carlos

**SP1-L40 - Study of incorporation of foundry sand in soil-cement blocks**

Raquel Folmann<sup>1</sup>, Wendel Malkowski, Luiz Veriano Dalla Valentina, Marilena Valadares Folgueras; <sup>1</sup>Universidade do Estado de Santa Catarina

**SP1-L41 - Influence of aging time on the transformation of zeolite Y in zeolite P**

Aluska do Nascimento Simões, Laédna Souto Neiva<sup>1</sup>, Antonielly Barbosa, Joao Bosco Lucena Oliveira, Meiry Rodrigues, Lucianna Gama; <sup>1</sup>Universidade Federal de Campina Grande

**SP1-L42 - Synthesis of zeolite Y by microwave assisted hydrothermal treatment**

Aluska do Nascimento Simões, Laédna Souto Neiva<sup>1</sup>, Antonielly Barbosa, Joao Bosco Lucena Oliveira, Meiry Rodrigues, Lucianna Gama; <sup>1</sup>Universidade Federal de Campina Grande

**SP1-L43 -  $\text{SrBi}_2\text{Nb}_2\text{O}_9$  ceramic matrix with  $\text{Bi}_2\text{O}_3$  or  $\text{La}_2\text{O}_3$  added**

Emmanuelle Oliveira Sancho<sup>1</sup>, Francisca Martins Pereira, Guilherme Francisco Pires Junior, Juscelino Chaves Sales, Antonio Sérgio Bezerra Sombra; <sup>1</sup>Universidade Federal do Ceará

**SP1-L44 - Photoluminescence properties of  $\text{SrMoO}_4$  obtained under conventional and microwave-hydrothermal conditions**

Júlio César Sczacowski<sup>1</sup>, Maria Das Graças Sampaio Costa, Laecio Santos Cavalcante, Máximo Sui Li Li, Elson Longo, José Arana Varela<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista - Araraquara, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-L45 - Influence of sintering temperature in the average pore diameter of the tubular ceramic membranes**

Rosa do Carmo Oliveira Lima, Hélio Lucena Lira, Gelmires Araújo Neves, Mirele Costa Silva

**SP1-L46 - Optical and electrical properties of  $\text{Pb}_{1-x-y}\text{Ca}_x\text{Sr}_y\text{TiO}_3$  thin films: ab initio study**

Amanda Fernandes Gouveia<sup>1</sup>, Fenelon Martinho Pontes, Elson Longo, Adenilson José Chiquito; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP1-L47 - Effect of aminoacids and quaternary ammonium salts addition in the sodic bentonite organophilization to be used in polymeric nanocomposites**

Ana Flávia Pattaro, Anderson J. Bonon, Maria Ingrid Rocha Barbosa<sup>1</sup>, André Luiz Jardini Munhoz, Maria Carolina Burgos Costa, Rubens Maciel Filho; <sup>1</sup>Universidade Estadual de Campinas

**SP1-L48 - Structural and electrochemical study of  $\text{La}_{0.50}\text{Li}_{0.50}\text{TiO}_3$  / carbon black composite.**

Alejandra Hortencia Miranda González<sup>1</sup>, Beatriz Antoniassi Tavares, Bruna Andressa Bregadiolli<sup>2</sup>, Carlos F. O. Graeff, José Arana Varela<sup>3</sup>, Elson Longo; <sup>1</sup>Universidade Bandeirante de São Paulo, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>3</sup>Sociedade Brasileira de Pesquisa

Em Materiais - Sbpmat

**SP1-L49 - Ammonium polyacrylate action in consolidation-casting association**

Rogério Pinto Mota, Rodrigo Sampaio Fernandes, Elson de Campos, Emerson Ferreira de Lucena

**SP1-L50 - Structural and morphological characterization of ZrO<sub>2</sub> nanoparticles prepared by the polymeric precursor method**

Alejandra Hortencia Miranda González<sup>1</sup>, Claudio Machado Junior, Flávia Pires Rodrigues, Paulo Henrique Perlatti D'alpino, Carlos F. O. Graeff, Elson Longo, Camillo Anauate Netto; <sup>1</sup>Universidade Bandeirante de São Paulo

**SP1-L51 - Obtaining of nanoparticles from a new powder synthesis method using sucrose and isopropanol**

Kayruza Passos Sanches<sup>1</sup>, Rogério Almeida Gouvêa<sup>1</sup>, Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño; <sup>1</sup>Universidade Federal de Pelotas

**SP1-L52 - Theoretical computational studies of doped nanotubes with (SO<sub>2</sub>)**

Vicente Agustín Atoche Espinoza, Javier Gomez Romero, Samuel Gustavo Huamán Bustamante, Carlton Antony Taft<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP1-L53 - Synthesis of bismutite and bismuth oxide plates**

Juliane Zacour Marinho<sup>1</sup>, Fernanda da Costa Romeiro, Camilla Rodrigues Mendonça, Samantha Custódio Silva Lemos<sup>1</sup>, Ana Paula de Moura<sup>2</sup>, Elson Longo, Renata Cristina de Lima; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Instituto de Química de Araraquara-Unesp

**SP1-L54 - Structural changes in a multisubstituted hydroxyapatite**

Mirna Pereira Moreira, Victor Teixeira da Silva Aragão<sup>1</sup>, Luis Eduardo Almeida, Euler Araujo Dos Santos; <sup>1</sup>Universidade Federal de Sergipe

**SP1-L55 - The Influence of Intercalated Graphite on the Mechanical Properties of Phenolic Resins**

Ricardo Ritter Barnasky<sup>1</sup>, Rogério Almeida Gouvêa<sup>2</sup>, Neftalí Lenin Villarreal Carreño, Sergio da Silva Cava; <sup>1</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, <sup>2</sup>Universidade Federal de Pelotas

**SP1-L56 - Study of photoluminescent properties in PZT**

Lucas Lemos da Silva<sup>1</sup>, Margarete Soares da Silva, Máximo Siu Li, Fabiana Villela da Motta, Maria Fernando Cagnin de Abreu, Elson Longo, Maria Aparecida Zaghet<sup>2</sup>; <sup>1</sup>Universidade Estadual de Mato

Grosso do Sul, <sup>2</sup>Instituto de Química de Araraquara-Unesp

**SP1-L57 - Comparative analysis of cement mortar composites reinforced with sisal and mauve fibers**

Mayara Sarisariyama Siverio Lima<sup>1</sup>, Vanessa Pinto Bezerra, Maria Das Neves Pontes Barata Peres, Sandoval Ferreira Martins Neto; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia do Pará

**SP1-L58 - Highly oriented PCST thin films prepared by chemical solution deposition**

Debora Silva Pontes, Fenelon Martinho Pontes, Elson Longo, Lucidio Souza Santos, Adenilson José Chiquito

**SP1-L59 - Synthesis and photoluminescent properties of CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> powders prepared by the polymeric precursor method**

Larissa Helena de Oliveira<sup>1</sup>, Thiago Sequinel<sup>2</sup>, Sergio Mazurek Tebcherani, Miguel Angel Ramírez Gil, Elson Longo, José Arana Varela<sup>3</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Instituto de Química Unesp, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-L60 - Structural refinement and photoluminescence properties of (Ca<sub>1-x</sub>Cu<sub>x</sub>)TiO<sub>3</sub> powders**

Larissa Helena de Oliveira<sup>1</sup>, Ana Paula de Moura<sup>2</sup>, Miguel Angel Ramírez Gil, Laecio Santos Cavalcante, Selma Gutierrez Antonio, Elson Longo, José Arana Varela<sup>3</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Instituto de Química de Araraquara-Unesp, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-L61 - Mechanical behavior of oilwell cementing composites**

Maria Roseane Pontes Fernandes, Petrucia Duarte da Silva, Antonio Eduardo Martinelli<sup>1</sup>, Dulce Maria Araújo Melo, Marcus Antonio Freitas Melo, Júlio César Oliveira Freitas; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-L62 -  $\alpha,\beta$ - NiMoO<sub>4</sub> nanorods obtained from rapid calcination in domestic microwave oven**

Ana Paula de Moura<sup>1</sup>, Mauricio Roberto Bomio Delmonte, Máximo Sui Li Li, Elson Longo, José Arana Varela<sup>2</sup>; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-L63 - Study of exfoliated nanocomposites by SEM and X-ray techniques**

Fauze Ahmad Aouada<sup>1</sup>, Luiz Caparelli Mattoso, Elson Longo; <sup>1</sup>Instituto de Química de Araraquara-Unesp

**SP1-L64 - Optical and structural properties of**

**Eu<sup>3+</sup> doped in BaTiO<sub>3</sub> nanocrystals**

Leilane Roberta Macario<sup>1</sup>, Tatiana Martelli Mazzo<sup>2</sup>, Ieda Lúcia Viana Rosa, Máximo Sui Li Li, Waldir Avansi Junior, Elson Longo; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Instituto de Química Unesp

**SP1-L65 - Improvement in thermal stability of the nanocomposites by adding of the laponite clay**

Fauze Ahmad Aouada<sup>1</sup>, Luiz Caparelli Mattoso, Elson Longo; <sup>1</sup>Instituto de Química de Araraquara-Unesp

**SP1-L66 - Influence of microwave energy on structural, morphology and photoluminescent behavior of CuMoO<sub>4</sub> powders.**

Valdemir Dos Santos<sup>1</sup>, José Milton Elias de Matos<sup>2</sup>, Luciana Natalia Cividatti, Wilian Pereira Santos, João Diniz Junior, Rafael Enrico Bragueto, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal do Piauí

**SP1-L67 - Synthesis and Characterization of Organophilic Bentonite from Mozambique**

Laura Abreu da Silva<sup>1,2</sup>, Humberto Gracher Riella, Nivaldo Cabral Kuhnen, Antonio José Cumbane, Jeane de Almeida do Rosário, Marivone Gusatti, Camila Cardoso Milioli; <sup>1</sup>Universidade Federal de Santa Catarina, <sup>2</sup>Depto. de Eng. Química E de Eng. de Alimentos

**SP1-L68 - Study of variation in Percentage of filler in PVC recipes for the furniture industry**

Alessandra Luiza de Lemos, Eduardo Luis Schneider

**SP1-L69 - Analysis of the Uses of Biomaterial Pyrolytic Carbon in Jewellery Design**

Cynthia Casagrande Matos<sup>1</sup>, Jairo Drummond Câmara, Alexandre Joviano Casagrande; <sup>1</sup>Universidade Federal de Ouro Preto

**SP1-L70 - Post-mortem study of MgO-C refractory brick applied in steel ladle's slag line.**

Matheus Martini<sup>1</sup>, Fernando Vernilli Júnior, Vinícius Franco do Nascimento, Robersio Marinho de Faria, Fernando Fernandes da Silva, José Milton Gabriel Lopes, Bruno Vidal de Almeida<sup>2</sup>; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo, <sup>2</sup>Universidade de São Paulo

**SP1-L71 - Measurement uncertainty and evaluation of autogenous shrinkage of concrete with addition of rubber fibres**

Izabella Ferreira Guimarães, Weber Guadagnin Moravia, Laura Gomes França, Eliene Pires Carvalho

**SP1-L72 - Optimal load test and maximum gain of solid state voltage transformers**

Diogo Zampieri Montanher<sup>1</sup>, Ivair Aparecido Santos, Valdirlei Fernandes Freitas; <sup>1</sup>Universidade Estadual de Maringá

**SP1-L73 - High Efficiency in Light Transfer Process Applied in Translucent Fiber Post.**

Valdemir Dos Santos<sup>1</sup>, Marcio Florian<sup>2</sup>, Luciana Natalia Cividatti, Cesar Eduardo Bellinati, Roberto Martins Alcântara, José Milton Elias de Matos<sup>3</sup>, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Angelus Dentistry Products Industry S/a, <sup>3</sup>Universidade Federal do Piauí

**SP1-L74 - Theoretical investigation of complexes of citric acid and barium**

Rodrigo Marques Ferreira<sup>1</sup>, Paulo Noronha Lisboa-Filho, Francisco Carlos Lavarda<sup>1</sup>; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp

**SP1-L75 - Study of in situ spinel formation in commercial refractories lining of steel ladles: a phase, microstructural and dilatometer view.**

Arthur Scarparo Mattoso<sup>1</sup>, Mariana Marques Simão, Matheus Martini<sup>1</sup>, Robersio Marinho Faria, José Milton Gabriel Lopes, Fernando Vernilli Júnior, Bruno Vidal de Almeida<sup>2</sup>; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo, <sup>2</sup>Universidade de São Paulo

**SP1-L76 - Obtaining of foams using milled float glass**

André César Bento<sup>1</sup>, Evaldo Toniolo Kubaski, Sergio Mazurek Tebcherani, Juliana de Oliveira Pimenta<sup>2</sup>, Sabrina Marinho Kaplum, Thiago Domingues Holzmann, Thiago Sequinel<sup>3</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>3</sup>Instituto de Química Unesp

**SP1-L77 - Synthesis and characterization of molecular sieve AIMCM-41 modified with the impregnation of metals (Ni, Co, Fe)**

Jakeline Daniela Soares da Silva Nascimento<sup>1</sup>, Maria Wilma Nunes Cordeiro Carvalho, Raphael da Silva Eduardo, Marta Maria da Conceição; <sup>1</sup>Universidade Federal de Campina Grande

**SP1-L78 - Chemical synthesis of SnO<sub>2</sub> microspheres**

André César Bento<sup>1</sup>, Thiago Sequinel<sup>2</sup>, Evaldo Toniolo Kubaski, Juliana de Oliveira Pimenta<sup>3</sup>, Sergio Mazurek Tebcherani, Sergio da Silva Cava, José Arana Varela<sup>4</sup>; <sup>1</sup>Universidade Estadual de Ponta Grossa, <sup>2</sup>Instituto de Química Unesp, <sup>3</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>4</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-L79 - Characterization of red mud for possible applications in ceramic body**

Vanessa Pinto Bezerra, Diego Correia Silva, Fabrício Paiva da Silva, Odilene Ferreira Cardoso, Benedito Coutinho Neto

**SP1-L80 - Synthesis and characterization of composite  $\text{SrTi}_{1-x}\text{Nb}_x\text{O}_3$  system**

Alessandro Fernandes<sup>1</sup>, Valmor Roberto Mastelaro<sup>2</sup>, Maria Ines Basso Bernardi; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**SP1-L81 - Production of ZnO by hydrothermal synthesis of microwave**

Adriana Bispo do Nascimento

**SP1-L82 - Manganese-doped zinc oxide nanostructures**

Samantha Custódio Silva Lemos<sup>1</sup>, Fernanda da Costa Romeiro, Juliane Zacour Marinho<sup>1</sup>, Jaqueline Borges Ribeiro<sup>1</sup>, José Arana Varela<sup>2</sup>, Elson Longo, Renata Cristina de Lima; <sup>1</sup>Universidade Federal de Uberlândia, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP1-L83 - Synthesis, characterization and photoluminescent properties of  $\text{ZrO}_2$**

Edson Cavalcanti da Silva Filho<sup>1</sup>, Gian S Sousa, N. C. Batista, N. C. Batista, Luiz Sousa Santos Júnior, Maria Rita Santos, José Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí

**SP1-L84 - Caracterização mineralógica de resíduos de corte de granito e mármore para emprego em massas cerâmicas**

Joseanne Lima Sales, Crislene Rodrigues Silva Moraes, Lenilde Mérgia Ribeiro Lima, Juan Carlos Barbosa Cibalde

**SP1-L85 - Evaluation of masonry mortar with limestone residue**

Gelsonide da Silva Gois<sup>1</sup>, Carlos Alberto Paskocimas, Rubens Maribondo do Nascimento; <sup>1</sup>Federal University Of Rio Grande do Norte

**SP1-L86 - Synthesis and Characterization of  $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_3$  thin films**

Pedro Ivo Batistel Galiote Brossi Pelissari<sup>1</sup>, Luís Fernando da Silva<sup>1</sup>, Maria Inês Basso Bernardi, Valmor Roberto Mastelaro<sup>2</sup>; <sup>1</sup>Physics Institute Of São Carlos, <sup>2</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

**SP1-L87 - Synthesis of  $\text{Eu}^{3+}$  doped**

**$\text{CaWO}_4$  prepared by hydrothermal method**

Rosana de Fátima Gonçalves, Laecio Santos Cavalcante, Mario Junior Godinho, Alberthmeire Teixeira Figueiredo, Elson Longo

**SP1-L88 -  $\text{TiO}_2$  spheres obtained by microwave assisted solvothermal method**

Kleber Figueiredo Moura<sup>1</sup>, Jefferson Maul<sup>1</sup>, Graziela Casali, Elson Longo, Dawy Keyson, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

**SP1-L89 - PSA hot melt adhesive strengthened with nanoclay**

Geovana de Avila Bockorny, Eduardo Luis Schneider

**SP1-L90 - Theoretical investigation of of the optimization processes of zinc oxide nanotubes**

Gisley de Souza Brito, Jose Divino Dos Santos<sup>1</sup>; <sup>1</sup>Universidade Estadual de Goiás

**SP1-L91 - Influence of  $\text{PbF}_2$  in thermal, optical and structural properties in glassy oxides of heavy metals**

Andrea Simone Stucchi de Camargo<sup>1</sup>, Roger Gomes Fernandes, Hellmut Eckert<sup>1</sup>, Antonio Carlos Hernandes<sup>2,3</sup>; <sup>1</sup>Universidade de São Paulo - Instituto de Física de São Carlos, <sup>2</sup>Universidade de São Paulo, <sup>3</sup>Instituto de Física de São Carlos

**SP1-L92 - Synthesis of nanometric graphene oxide and its effects when added in  $\text{MgAl}_2\text{O}_4$  ceramic**

Rogério Almeida Gouvêa<sup>1</sup>, Luiz Gilberto Konrath Júnior<sup>2</sup>, Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Ricardo Marques E Silva<sup>2</sup>; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

**SP1-L93 - A method for obtention of low-density  $\text{MgAl}_2\text{O}_4$  ceramic foam from a sucrose solution**

Rogério Almeida Gouvêa<sup>1</sup>, Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño; <sup>1</sup>Universidade Federal de Pelotas

**SP1-L94 - Retrogression Study of Cement Slurries for HPHT Oilwells**

Petrícia Duarte da Silva, Maria Roseane Pontes Fernandes, Marcus Antonio Freitas Melo, Antonio Eduardo Martinelli<sup>1</sup>, Dulce Maria Araújo Melo, Júlio César Oliveira Freitas; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP1-L95 - Theoretical simulation of the  $\text{SrSnO}_3$  and  $\text{SrTiO}_3$  perovskite materials using DFT/B3LYP methodology**

Daniella Inglês<sup>1</sup>, Renan Augusto Pontes Ribeiro<sup>1</sup>, Renato Ferras Penteado<sup>1</sup>, Aline M. D. Natal, Sergio Ricardo de Lazaro<sup>1</sup>, Sergio Mazurek Tebcherani; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP1-L96 - Influence of Ca / P ratio in the synthesis of  $\beta$ -tricalcium phosphate nanometric particles**

Silvio Veras Albuquerque, Erisandra Rodrigues Alves, Paulo Demétrios da Silva, Ricardo Ferreira Nogueira

**SP1-L97 - Tailoring alumina fibers/alumina matrix interfaces**

Diego Blaese, Murilo Pereira Hablitzel, Daniel Enrique Garcia, Dachamir Hotza, Marcio Celso Fredel



**SP1-L98 - Characterization of Compound Portland cement (civil construction) for their use in cementing oil wells**

Bruno Leonardo de Sena Costa, Francisco Aldemir Teles Bélem, Danilo Brasil Ribeiro, Filipe da Silva Oliveira, Júlio César Oliveira Freitas, Dulce Maria de Araujo Melo

**SP1-L99 - Use of NIR spectroscopy to study archaeological pottery**

Fernanda Emanuela Claudino da Silva<sup>1</sup>, Ingrid Tavora Weber, Fernando Hallwass, Cláudia Alves Oliveira, Maria Fernanda Pimentel, Simone da Silva Simões; <sup>1</sup>Universidade Federal de Pernambuco

**SP1-L100 - Modification of the wettability on samples produced from waste soapstone**

Rogério Pinto Mota, Maria Gabriela Araújo Ranieri, Carlos Eduardo Silva Amorim, Elson de Campos

**SP1-L101 - A study for using waste of washing plant of manganese ore as a sintered product**

Margarida Márcia Fernandes Lima<sup>1</sup>, Guilherme de Oliveira Cruz, Rosa Malena Fernandes Lima, Gilberto Fernandes Lima; <sup>1</sup>Universidade Federal de Ouro Preto

**TUESDAY , SEPTEMBER 27TH**

**SESSION SP2**

**14:00 - 16:00 - Exhibition Hall**

**SP2-L102 - Synthesis and Characterization of Nanostructured ZnO Films Deposited on Different Substrates**

Adriana Rodrigues<sup>1</sup>, Jonder Morais, Maria do Carmo Martins Alves; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-L103 - Structural and optical properties of ZnS obtained by microwave assisted solvothermal method.**

Yuri Vinicius Santana<sup>1</sup>, Cristiane Wienke Raubach, Mateus Meneghetti Ferrer<sup>1</sup>, Felipe de Almeida La Porta, Elson Longo, José Arana Varela<sup>2</sup>, Máximo Sui Li Li; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L104 - Functionalization of carbon nanotube by means of structural ramification**

Douglas Busatto de Camargo Alves<sup>1</sup>, Fabrício Ogliari, Sergio da Silva Cava, Neftali Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Taís Lopes Silva; <sup>1</sup>Universidade Federal de Pelotas

**SP2-L105 - Photoluminescent properties of ZnS:Eu obtained by microwave-assisted solvothermal method**

Mateus Meneghetti Ferrer<sup>1</sup>, Yuri Vinicius Santana<sup>1</sup>,

Cristiane Raubach Ratmann<sup>2</sup>, Felipe de Almeida La Porta, Máximo Sui Li Li, José Arana Varela<sup>3</sup>, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>2</sup>Universidade Federal de São Carlos, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L106 - Conversion of a Gypsum/PHB Composite into Hydroxyapatite**

Amanda Alves Barbosa, Andréa de Vasconcelos Ferraz<sup>1</sup>, Alan Christie Dantas, Néelson Olivier; <sup>1</sup>Fundação Universidade Federal do Vale do São Francisco

**SP2-L107 - Synthesis and characterization a Titanosilicate.**

Adriana Beatriz Mascaró<sup>1</sup>, Tatiane Moraes Arantes<sup>1</sup>, Emerson Rodrigues Camargo, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos

**SP2-L108 - Influence of Nd amount in the photocatalytic decolorization efficiency of SrTiO<sub>3</sub>:Nd thin films**

Márcia Rejane Santos da Silva<sup>1</sup>, Valdinete Lins Silva, Valérie Bouquet, Stéphanie Députier, Maryline Guilloux-Viry, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal da Paraíba

**SP2-L109 - Synthesis and characterization of oxides glasses, containing transition metal nanoparticles**

Murilo Montesso<sup>1</sup>, Marcelo Nalin; <sup>1</sup>Universidade Federal de São Carlos

**SP2-L110 - Activated carbons by microwave as catalytic supports**

Jandilson Soares Fernandes, Herbet Bezerra Sales, Patrícia do Nascimento Delgado, Elson Longo, Antônio Gouveia de Souza, Iêda Maria Garcia Santos<sup>1</sup>, Ary da Silva Maia<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

**SP2-L111 - Obtaining of YSZ/Al<sub>2</sub>O<sub>3</sub> Nanocomposites Ceramic Coatings by the Polymeric Precursor Method**

Mario Junior Godinho, Rosana de Fátima Gonçalves, Laécio Santos Cavalcante, Renata Cristina de Lima, Edson Roberto Leite, Elson Longo, José Arana Varela<sup>1</sup>; <sup>1</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L112 - Synthesis and characterization of Eu<sup>3+</sup> doped La<sub>0,5</sub>Li<sub>0,5</sub>TiO<sub>3</sub>**

Silvia Leticia Fernandes<sup>1</sup>, Gisele Gasparotto, Maria Aparecida Zaghete<sup>2</sup>, José Arana Varela<sup>3</sup>, Marco Cebim; <sup>1</sup>Faculdade de Ciências de Bauru - Unesp, <sup>2</sup>Instituto de Química de Araraquara-

Unesp, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L113 - Proposed model for growth preference of plate-like nanohydroxyapatite crystals on superhydrophilic vertically-aligned carbon nanotubes by electrodeposition**

Anderson O Lobo, Fernanda R Marciano, Inacio Regiani, Sandra C Ramos, Jorge T Matsushima, Evaldo José Corat

**SP2-L114 - Biomineralization in vitro studies of HA/superhydrophilic vertically aligned carbon nanotubes nanocomposites**

Anderson O Lobo, Fernanda R Marciano, Sandra C Ramos, Cristina Pacheco-Soares, Evaldo José Corat

**SP2-L115 - Local electrostatic and transport measurements in polycrystalline interfaces of  $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$  probed by atomic force microscope**

Ronald Tararam<sup>1</sup>, Paulo Roberto Bueno, Igor Bdiikin, Andrei Kholkin, Elson Longo, José Arana

Varela<sup>2</sup>; <sup>1</sup>Chemistry Institute Of Araraquara, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L116 - Effect of Eu, Tb and Tm on the properties of codoped  $\text{SrMoO}_4$  phosphors**

Ana Paula Azevedo Marques<sup>1</sup>, Fabiana Villela da Motta, Maria Fernando Cagnin de Abreu, Ieda Lúcia Viana Rosa, Elson Longo; <sup>1</sup>Universidade Federal de São Paulo (Unifesp)

**SP2-L117 - Development of plasticizers properties of washed kaolin for use in porcelain tiles compositions.**

Renata Luiza Margotti<sup>1</sup>; <sup>1</sup>Santa Catarina Extreme South University

**SP2-L118 - Thin films of  $\text{Ca}_{1-x}\text{Sr}_x\text{SnO}_3$  obtained by PLD and CSD**

Mary Cristina F Alves<sup>1</sup>, Graziela Casali, Elson Longo, Antônio Gouveia Souza, Maryline Guilloux-Viry, Valérie Bouquet, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

**SP2-L119 - Synthesis and characterization of CdS/ZnS nanoparticles by a microwave-assisted solvothermal method**

Cristiane Raubach Ratmann<sup>1</sup>, Yuri Vinicius Santana<sup>2</sup>, Mateus Meneghetti Ferrer<sup>2</sup>, Felipe de Almeida La Porta, Máximo Sui Li Li, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP2-L120 - Photoluminescence on praseodymium doped  $\text{Ce}_{1-3/4x}\text{Pr}_x\text{O}_2$  nanoparticles**

Ana Cristina Tolentino Cabral<sup>1</sup>, Francisco Moura Filho, Isabela Cristina Fernandes Vaz<sup>1</sup>; <sup>1</sup>Universidade

Federal de Itajubá

**SP2-L121 - Nonlinear electrical behavior of the Mo doped CCTO ceramics**

Isabela Cristina Fernandes Vaz<sup>1</sup>, Francisco Moura Filho, Ana Cristina Tolentino Cabral<sup>1</sup>; <sup>1</sup>Universidade Federal de Itajubá

**SP2-L122 - Influence of sintering variables on the densification of  $\beta$ -TCP using experimental design**

Felipe Sampaio Alencastro, Renata Nunes Oliveira<sup>1</sup>, Gloria Almeida Soares; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP2-L123 - Zinc and silver-containing hydroxyapatite for applying as anti-bacterial bone grafts**

Ivory Marcos Gomes Dos Santos, Silmara Caldas Santos<sup>1</sup>, Euler Araujo Dos Santos, Cristiane Xavier Resende, Frederico Guilherme Cunha; <sup>1</sup>Universidade Federal de Sergipe

**SP2-L124 - Describing the crystalline structure of transparent ferroelectric relaxor ceramics**

Eriton Rodrigo Botero<sup>1</sup>, Douglas Henrique Marcelino de Azevedo, José Antônio Eiras<sup>2</sup>, Anderson Rodrigues Lima Caires, Evaristo Alexandre Falcão<sup>2</sup>, Ducinei Garcia; <sup>1</sup>Fundação Universidade Federal da Grande Dourados, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP2-L125 - Synthesis and Spectroscopic Study of  $\text{Gd}_2\text{O}_3:\text{Eu}^{3+}$  Nanophosphors by Benzenetricarboxylate Method**

Ivan Guide Nunes da Silva, Jiang Kai, Lucas Carvalho Veloso Rodrigues, Maria Claudia França da Cunha Felinto, Hermi Felinto Brito

**SP2-L126 - Structural Properties and Ionic Conductivity of  $\text{LiPO}_3\text{-WO}_3\text{-Na}_2\text{WO}_4$  Glasses.**

Gustavo Galleani, Silvia Helena Santagneli<sup>1</sup>, Sidney José Lima Ribeiro, Younes Messaddeq, Jaime Alberto Sanches Caceres, Jean Claude M'peko; <sup>1</sup>Instituto de Química de Araraquara-Unesp

**SP2-L127 - Microstructure and properties of geopolymer concrete containing recycled glass as aggregate**

Vitor Alencar Nunes, Anna Carolina Oliveira Mendes<sup>1</sup>, Thiago Câmara Rodrigues de Souza<sup>1</sup>, Paulo H R Borges, Antonio Feteira, Tulio Hallak Panzera, Andre Luiz Christoforo; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais

**SP2-L128 - Development of sustainable binders based on the alkaline activation of metakaolin and rice husk ash**

Vitor Alencar Nunes, Fernanda Guerra Lima Medeiros, Thiago Câmara Rodrigues de Souza<sup>1</sup>, Paulo

H R Borges, Conrado Souza Rodrigues, Tulio Hallak Panzera; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais

**SP2-L129 - Study of the charges movability in strontium bismuth tantalate samples obtained by different synthesis methods**

Ricson Rocha de Souza<sup>1</sup>, Felipe Fernandes de Oliveira, Vânia Caldas de Sousa<sup>1</sup>, Altair Soria Pereira, Carlos Pérez Bergmann; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-L130 - Refractory properties of alkali-activated metakaolin**

Thiago Câmara Rodrigues de Souza<sup>1</sup>, Vitor Alencar Nunes, Paulo H R Borges, Rubens Alves Freire; <sup>1</sup>Centro Federal de Educação Tecnológica de Minas Gerais

**SP2-L131 - SrSnO<sub>3</sub>:Cu synthesized by the polymeric precursor method**

Danniely Melo Ribeiro, Fagner Gomes Vieira, Severino Guedes Lima, Elson Longo, Ary da Silva Maia<sup>1</sup>, Iêda Maria Garcia Santos<sup>1</sup>, Antônio Gouveia Souza; <sup>1</sup>Universidade Federal da Paraíba

**SP2-L132 - High gas pressure impregnation: temperature effect and microstructure in ceramic particles**

Juliana de Oliveira Pimenta<sup>1</sup>, Evaldo Toniolo Kubaski, Thiago Sequinel<sup>2</sup>, Samara Schmidt<sup>3</sup>, André César Bento<sup>3</sup>, Sergio Mazurek Tebcherani, José Arana Varela<sup>4</sup>; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho, <sup>2</sup>Instituto de Química Unesp, <sup>3</sup>Universidade Estadual de Ponta Grossa, <sup>4</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L133 - Microwave-induced combustion synthesis and characterization of calcium aluminates**

Déborá Patrícia Batista Rocha<sup>1</sup>, Bráulio Silva Barros, Moisés Rômolos Cesário, Dulce Maria Araújo Melo, Alan Kiennemann, Claire Courson, Vítor Rodrigo Melo; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP2-L134 - WO<sub>3</sub>/TiO<sub>2</sub> thick films and ceramics applied as humidity sensor**

Sonia Maria Zanetti<sup>1</sup>, Kleper de Oliveira Rocha<sup>1</sup>, Elson Longo; <sup>1</sup>Sencer Sensores Cerâmicos

**SP2-L135 - Impregnation of SrSnO<sub>3</sub>:Ni on porous ceramic materials by the polymeric precursor method**

Rosa Medeiros Marinho<sup>1</sup>, Ary da Silva Maia<sup>2</sup>, Severino Jackson Guedes, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Regional do Cariri, <sup>2</sup>Universidade Federal da Paraíba

**SP2-L136 - Epitaxial growth of SrSn<sub>1-x</sub>Ti<sub>x</sub>O<sub>3</sub> thin films by Chemical Solution Deposition and Pulsed Laser Deposition**

Andre Luiz Menezes de Oliveira, Valérie Bouquet, Stéphanie Députier, Sophie Ollivier, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>1</sup>, Maryline Guilloux-Viry; <sup>1</sup>Universidade Federal da Paraíba

**SP2-L137 - Formation of core-shell type Al<sub>2</sub>O<sub>3</sub>/ZrO<sub>2</sub> and ZrO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>**

Patrícia Santos Andrade, Valdemir Dos Santos<sup>1</sup>, Luiz Sousa Santos Júnior, Maria Rita Santos, Edson Cavalcante Silva Filho, José Milton Elias de Matos<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal do Piauí

**SP2-L138 - Synthesis and photoluminescent properties of Eu<sup>3+</sup>-activated Ca<sub>3</sub>Al<sub>2</sub>O<sub>6</sub> phosphor**

Bráulio Silva Barros, Camila Nunes de Carvalho, Paulo Dantas Sesion Júnior, Débora Patrícia Batista Rocha<sup>1</sup>, Dulce Maria Araújo Melo, Severino Alves Junior; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP2-L139 - Anisotropic photoluminescent properties of biomorphic Al<sub>2</sub>O<sub>3</sub> coated with ZnO tetrapods**

Carlos Renato Rambo<sup>1</sup>, Carlo Requião Cunha; <sup>1</sup>Universidade Federal de Santa Catarina

**SP2-L140 - Zinc-gallium oxynitrides synthesized from ZnGa<sub>2</sub>O<sub>4</sub> precursor for gas sensor applications**

José Fernando Dagnone Figueiredo, Valérie Bouquet, Stéphanie Députier, Odile Merdrignac-Conanec, Maryline Guilloux-Viry, Iêda Maria Garcia Santos<sup>1</sup>, Érika Pinto Marinho; <sup>1</sup>Universidade Federal da Paraíba

**SP2-L141 - Iron Garnets Under High Pressure**

Pablo Roberto Rovani<sup>1</sup>, Altair Soria Pereira; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-L142 - Yb<sup>3+</sup>, Tm<sup>3+</sup> and Ho<sup>3+</sup> triply-doped tellurite core-cladding optical fiber for white light generation**

Daniilo Manzani<sup>1</sup>, Yannick Ledemi, Younes Messaddeq, Sidney José Lima Ribeiro, Rafael E.p. Oliveira, Christiano J.s. Matos; <sup>1</sup>Instituto de Química Unesp

**SP2-L143 - Studying the use of mill scale as pigment in ceramic body**

Joana Gomes Meller<sup>1</sup>, Angela Beatriz Coelho Arnt, Marcio Roberto da Rocha; <sup>1</sup>Universidade do Extremo Sul Catarinense

**SP2-L144 - Dissociation of water on mgo nano-structured surfaces in the presence of metallic dopants**

Neil de La Cruz, Carlton Antony Taft<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-L145 - The effect of Al<sub>2</sub>O<sub>3</sub> additions on the sintering behavior of 10% ZrO<sub>2</sub>– 10% Y<sub>2</sub>O<sub>3</sub>-CeO<sub>2</sub> (mol%) ceramics**

Glauber Silva Godoi, Dulcina Pinatti Ferreira de Souza

**SP2-L146 - Study and characterization of particulate Pb(Zr<sub>0,52</sub>Ti<sub>0,48</sub>)O<sub>3</sub> for the formation and optimization of PVDF-PZT composites.**

Cibele Oliveira, Maria Aparecida Zaghete<sup>1</sup>, Gilberto Campos Fuzari Junior, Elson Longo, Elson Longo, José Arana Varela<sup>2</sup>; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L147 - Adsorption of water on mgo nano-structured surfaces in the presence of metallic dopants**

Neil de La Cruz, Carlton Antony Taft<sup>1</sup>; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-L148 - Influence of the addition of mill scale (residue) in rolling resistance and in the tone of red ceramic**

Joana Gomes Meller<sup>1</sup>, Angela Beatriz Coelho Arnt, Marcio Roberto da Rocha; <sup>1</sup>Universidade do Extremo Sul Catarinense

**SP2-L149 - Monitoring the phases of**

**Li<sub>2</sub>O·2SiO<sub>2</sub> glass ceramic submitted to high pressure and high temperature**

Silvio Buchner<sup>1</sup>, Naira Maria

Balzaretti<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-L150 - Electronic and Structural Properties of Bulk and (001) Surface of TiO<sub>2</sub> Anatase: A DFT and DFT-D Simulation**

Marcos Luizão Garzim<sup>1</sup>, Bruna Pastrello<sup>1</sup>, Julio Ricardo Sambrano<sup>1</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Bauru

**SP2-L151 - Mechano-synthesis of rare earth doped yttrium aluminum garnet**

Luiz Gustavo Davanse Silveira<sup>1</sup>, Marcos Paulo Belançon, Jurandir Hillmann Rohling, Ivair Aparecido Santos, Luiz Fernando Cótica; <sup>1</sup>Universidade Estadual de Maringá

**SP2-L152 - Process variables study in bentonite organophilization clays**

Carla Dantas da Silva, Heber Carlos Ferreira, Gelmires Araújo Neves, Rosa do Carmo Oliveira Lima, Julliana Marques Costa

**SP2-L153 - Nanotubes of [(Ge)n]m, the study of stability with methods of Theoretical Chemistry**

Carlton Antony Taft<sup>1</sup>, Jose Divino Dos Santos<sup>2</sup>, João Batista Lopes Martins<sup>3</sup>, Elson Longo; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Universidade Estadual de Goiás, <sup>3</sup>Universidade de Brasília

**SP2-L154 - Electron density maps and crystal structure of BaSnO<sub>3</sub> by Rietveld-MEM refinement**

André Vitor Chaves de Andrade<sup>1</sup>, Douglas Hideki Nakahata, Osvaldo Mitsuyuki Cintho, Augusto Celso Antunes, Sandra Regina Masetto Antunes, Eder Carlos Ferreira de Souza<sup>1</sup>, Marco Aurélio Perez; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP2-L155 - Microstrains distribution and preferred orientation effect in a hydroxyapatite sample obtained by hydrothermal synthesis**

André Vitor Chaves de Andrade<sup>1</sup>, Rafael Eiji Saito, Augusto Celso Antunes, Christiane Philippini Ferreira Borges, Eloísa Cordoncillo Cordoncillo, Purificación Escribano López, Sandra Regina Masetto

Antunes; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP2-L156 - Interaction of molecules of CO, H<sub>2</sub>, H<sub>2</sub>O on the surfaces of nanotubes of ZnO using theoretical methods**

Jose Divino Dos Santos<sup>1</sup>, Carlton Antony Taft<sup>2</sup>, João Batista Lopes Martins<sup>3</sup>, Elson Longo; <sup>1</sup>Universidade Estadual de Goiás, <sup>2</sup>Centro Brasileiro de Pesquisas Físicas, <sup>3</sup>Universidade de Brasília

**SP2-L157 - Empirical Study of the Structures of Polyaniline**

Supercil Mendes da Silva Filho<sup>1</sup>, Jose Divino Dos Santos<sup>1</sup>, Olacir A Araujo, João Batista Lopes Martins<sup>2</sup>, Carlton Antony Taft<sup>3</sup>, Elson Longo; <sup>1</sup>Universidade Estadual de

Goiás, <sup>2</sup>Universidade de Brasília, <sup>3</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-L158 - Using the residue of exploration and beneficiation of kaolin in producing of meta-kaolin for use in mortar**

Marcio Luis Varela Nogueira Moraes<sup>1</sup>, Renata Sena Brasil, Marcia Jordana Santos, Carlos Alberto Paskocimas; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

**SP2-L159 - Synthesis and photoluminescence behavior of pure and Hf-doped barium zirconate**

Ederson Carlos Aguiar<sup>1</sup>, Alexandre Z. Simões, Mário Lúcio Moreira, Elson Longo, José Arana Varela<sup>2</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L160 - Characterization of clays for cosmetic products**

Camila Ribeiro Caetano<sup>1,2</sup>, Daniela Camargo Vernilli; <sup>1</sup>Escola de Engenharia de Lorena -

Usp, <sup>2</sup>Demar/eel-Usp, Sp

**SP2-L161 - Photoluminescent properties of the MWO<sub>4</sub>:Eu<sup>3+</sup> (M<sub>2</sub>=Ca, Sr and Ba) nanophosphors**

Helliomar Pereira Barbosa<sup>1</sup>; <sup>1</sup>Universidade de São Paulo

**SP2-L162 - Growth and Optical Characterization of Pure LaNbTiO<sub>6</sub> Single Crystal Fiber by LHPG Technique**

Sergio Paulo Marcondes<sup>1</sup>, Marcello Rubens Barsi Andreetta, Antonio Carlos Hernandez<sup>2</sup>; <sup>1</sup>Instituto de Física de São Carlos, <sup>2</sup>Universidade de São Paulo

**SP2-L163 - Evaluation of the stability of single-wall carbon nanotubes with the AM1, ab-initio, HF and DFT methods**

Jose Divino Dos Santos<sup>1</sup>, Montales Borges Oliveira, João Batista Lopes Martins<sup>2</sup>, Carlton Antony Taft<sup>3</sup>, Elson Longo; <sup>1</sup>Universidade Estadual de Goiás, <sup>2</sup>Universidade de Brasília, <sup>3</sup>Centro Brasileiro de Pesquisas Físicas

**SP2-L164 - Structural and Electronic Properties of AlN: A computational study.**

Elen Caroline Toniato<sup>1</sup>, Julio Ricardo Sambrano<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista, <sup>2</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Bauru

**SP2-L165 - Procedures for obtaining a barbotine of clay "cooker" with dispersant [Na<sub>2</sub>O(SiO<sub>2</sub>)<sub>n</sub>] for the inclusion of components in the ceramic filigree jewelry design**

Maria Lúcia Vieira<sup>1</sup>, Sidney Nicodemos da Silva, Anna Katharina Aleixo Schmal, Afrodite Aguiar Pinter Cardoso, Maria Bernadete Santos Teixeira; <sup>1</sup>Universidade do Estado de Minas Gerais

**SP2-L166 - Analysis of Wannier functions produced by the wannier90 code**

Denis Rafael Nacbar<sup>1,2</sup>, Alexys Bruno Alfonso; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho - Posmat, <sup>2</sup>Faculdade de Ciências de Bauru - Unesp

**SP2-L167 - Synthesis and Spectroscopic Study of YTMA:Eu<sup>3+</sup>**

Ivan Guide Nunes da Silva, Bruno Andreoli, Maria Cláudia França da Cunha Felinto, Hermi Felinto Brito

**SP2-L168 - Analysis of the Multiplicity of NTC-Thermistor Parameters in Ni Doped Niobate Ceramic**

Silvania Lanfredi<sup>1</sup>, Diego Henrique Moreli de Gênova<sup>2</sup>, Marcos Augusto de Lima Nobre; <sup>1</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, <sup>2</sup>Fct-Unesp Campus de Presidente Prudente

**SP2-L169 - TiO<sub>2</sub>, ZrO<sub>2</sub> and BaTiO<sub>3</sub> nanoparticles synthesized by solvothermal method: effect of chloride ions concentration on the structural and morphological properties**

Giovanni Pimenta Mambrini, Edson Roberto Leite, Elson Longo

**SP2-L170 - Photoluminescence properties of YAG/YAP-SiO<sub>2</sub>: Er powders by Pechini Method**

Alessandra Carla Mendes, Antonio Carlos Hernandez<sup>1,2</sup>, Lauro June Queiroz Maia, Jesiel Freitas Carvalho, Máximo Siu Li; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Instituto de Física de São Carlos

**SP2-L171 - High density submicrometric Pb(Fe<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub> ceramics obtained by Two-Step Sintering or Spark Plasma Sintering**

William Junior Nascimento<sup>1</sup>, Bárbara Maraston Fraygola<sup>1</sup>, Ducinei Garcia, José Antônio Eiras<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos

**SP2-L172 - Microwave Hydrothermal Processing Hybrid Material: Europium-Polypyrrole**

Camila Soares Xavier, Mauricio Roberto Bomio Delmonte, Ana Paula de Moura<sup>1</sup>, José Arana Varela<sup>2</sup>, Elson Longo; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L173 - Incorporation of kaolin waste fiber and expensive in Medium density fibreboard - MDF**

Ana Flavia Camara Bezerra, Lisiane Navarro Lima Santana, Gelmiros Araújo Neves

**SP2-L174 - Synthesis of PbMoO<sub>4</sub> by Coprecipitation and Convective Hydrothermal Methods**

Camila Soares Xavier, Mauricio Roberto Bomio Delmonte, Ana Paula de Moura<sup>1</sup>, Máximo Sui Li Li, José Arana Varela<sup>2</sup>, Elson Longo; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-L175 - Bioceramics of apatites**

Eliana Alves Arxer<sup>1,2</sup>, Anahi Herrera Aparecida, Antonio Carlos Gustaldi; <sup>1</sup>Universidade Paulista, <sup>2</sup>Instituto de Química Unesp

**SP2-L176 - Obtaining and characterization of polymeric nanocomposites with organoclay attapulgite**

Cleide Maria da Silva Leite<sup>1</sup>, Marília Evelyn Rodrigues Oliveira, Mirna Luciano de Gois Silva, Mônica Felts de La Roca Soares; <sup>1</sup>Universidade Federal do Piauí

**WEDNESDAY, SEPTEMBER 28TH**
**SESSION SP3**
**16:00 - 18:00 - Exhibition Hall**
**SP3-L177 - Urea-based synthesis at low temperature of zinc oxide**

Jaqueline Borges Ribeiro<sup>1</sup>, Fernanda da Costa Romeiro, Samantha Custódio Silva Lemos<sup>1</sup>, Juliane Zacour Marinho<sup>1</sup>, Camilla Rodrigues Mendonça, Elson Longo, Renata Cristina de Lima; <sup>1</sup>Universidade Federal de Uberlândia

**SP3-L178 - Microstructural characterization of triaxial porcelains with partial substitution of feldspar by quartz**

Marcio Saraiva Melo, Ricardo Henrique Lira Silva, Érika Pinto Marinho, Ana Cecilia Vieira Nóbrega

**SP3-L179 - Study of porosity in Sintering of Glass-Feldspathic Composite containing Mica-Muscovite crystals**

Emilena Elisabeth Silva Moraes, Vinicius Bemfica, Luis Carlos Pereira, Tsuneharu Ogasawara

**SP3-L180 - Green procurement of brick from the reuse of waste powder mountain**

Marcus Alexandre Diniz<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

**SP3-L181 - Green procurement of brick from the reuse of waste (sludge) station wastewater treatment (stp)**

Marcus Alexandre Diniz<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

**SP3-L182 - Influence of the composition of the SrSn<sub>1-x</sub>Ti<sub>x</sub>O<sub>3</sub> system in the short and long range order**

Andre Luiz Menezes de Oliveira, Márcia Rejane Santos da Silva<sup>1</sup>, Herbet Bezerra Sales, Fagner Gomes Vieira, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal da Paraíba

**SP3-L183 - Aluminum hydroxide morphology controlled by polihydroxilated compounds.**

Eduardo Rezende Triboni<sup>1</sup>, Mauro Francisco Pinheiro da Silva<sup>2</sup>, Alan Teruel, Décio Briotto, Mário José Politi; <sup>1</sup>Institute Of Chemisty, <sup>2</sup>Universidade de São Paulo

**SP3-L184 - <sup>27</sup>Al MAS-NMR investigation lanthanum influence in Al<sup>VI</sup> and Al<sup>IV</sup> sites onto mesoporous clay**

Marcus Venicio da Silva Fernandes<sup>1</sup>, Sara Regina Moura Figueiredo Porto, Rosane Aguiar da Silva San Gil, Lindomar Roberto Damasceno da

Silva; <sup>1</sup>Universidade Federal do Ceará

**SP3-L185 - Effect of mineralizers addition to form the pigment Ce<sub>0,87</sub>Pr<sub>0,05</sub>Fe<sub>0,08</sub>O<sub>2-δ</sub>**

Renata Cristina Olegario, Rodrigo Szostak<sup>1</sup>, Eder Carlos Ferreira de Souza<sup>1</sup>, André Vitor Chaves de Andrade<sup>1</sup>, Marco Aurélio Perez, Sandra Regina Masetto Antunes, Augusto Celso

Antunes; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP3-L186 - Alginate as an alternative material for the exploitation of 3D printer additive manufacturing technolog**

Rodrigo Alvarenga Rezende, Marcelo Fernandes Oliveira<sup>1</sup>, Izaque Alves Maia, Paulo Inforçatti Neto, Jorge Vicente Lopes da Silva; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer

**SP3-L187 - Structural, eletronic and optical study of carbon, silicon and germanium nanotubes**

Marcos Reis Vargas, Jose Divino Dos Santos<sup>1</sup>, Elson Longo, João Batista Lopes Martins<sup>2</sup>; <sup>1</sup>Universidade Estadual de Goiás, <sup>2</sup>Universidade de Brasília

**SP3-L188 - Effect of enamel addition to the Ce<sub>0,92</sub>Pr<sub>0,08</sub>O<sub>2-δ</sub> pigment to be used in ceramics.**

Renata Cristina Olegario, Eder Carlos Ferreira de Souza<sup>1</sup>, Christiane Philippini Ferreira Borges, André Vitor Chaves de Andrade<sup>1</sup>, Marco Aurélio Perez, Sandra Regina Masetto Antunes, Augusto Celso

**SP3-L189 - Influence of sintering temperature on the tangential flux of desalinated water of tubular ceramic membrane**

Mirele Costa Silva, Hélio Lucena Lira, Rosa do Carmo Oliveira Lima, Normanda L Freitas

**SP3-L190 - Polyhedral Distortion Analysis in Iron-Doped Potassium Strontium Niobate: a Highly Non-stoichiometric Compound Engineered by Non-isovalent Substitution of Niobium Cations**

Alan Rogério Ferreira Lima<sup>1</sup>, Marcos Augusto de Lima Nobre, Silvania Lanfredi<sup>2</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP3-L191 - Synthesis and characterization of ceramic pigments CaM<sub>2</sub>O<sub>4</sub> (M=Fe<sup>+3</sup>,Cr<sup>+3</sup>,Mn<sup>+3</sup>) through classical and non-conventional citrate gel routes**

Edgar Andres Chavarriaga<sup>1</sup>, Leidy Johana Jaramillo Nieves<sup>1</sup>, Oscar Jaime Restrepo Baena; <sup>1</sup>Universidad Nacional de Colombia

**SP3-L192 - Sintering behavior analysis of yttria stabilized zirconia nanoparticle powder**

Sergio Luiz Mineiro, Maria do Carmo de A. Nono

**SP3-L193 - Synthesis, characterization and**

**photoluminescence of ZrO<sub>2</sub> nanoparticles**

Gian S Sousa, Patrícia Alves de A. Sousa, Ricardo Barsoba Sousa, Valdenir Santos, Fátima M. S. Pereira, Maria Rita Santos, José Milton Elias de Matos<sup>1</sup>; <sup>1</sup>Universidade Federal do Piauí

**SP3-L194 - Impedance Spectrum of a Niobate Nanoscaled Powder with Tetragonal-Tungsten-Bronze Structure**

Alan Rogério Ferreira Lima<sup>1</sup>, Diego Henrique Moreli de Gênova<sup>2</sup>, Iara Aparecida Oliveira Brito, Silvania Lanfredi<sup>3</sup>, Marcos Augusto de Lima Nobre; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Fct-Unesp Campus de Presidente Prudente, <sup>3</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP3-L195 - Diffusion of the <sup>65</sup>Zn radiotracer in ZnO-based varistor**

Maria Auxiliadora Neves Nogueira<sup>1</sup>, Wilmar Barbosa Ferraz, Antonio Claret Soares Sabioni; <sup>1</sup>Universidade Federal de Ouro Preto

**SP3-L196 - Nanocrystalline**

**Ca<sub>0,99</sub>Ln<sub>0,01</sub>MoO<sub>4</sub> obtained at room temperature: synthesis, characterization and photoluminescence**

Patrícia Alves de A. Sousa, Ricardo Barsoba Sousa, Maria Rita Santos, José Milton Elias de Matos<sup>1</sup>, Luiz Sousa Santos Júnior; <sup>1</sup>Universidade Federal do Piauí

**SP3-L197 - Development and characterization of bricks using slate powder waste**

Luciana Boaventura Palhares<sup>1</sup>; <sup>1</sup>Centro Universitário Newton Paiva

**SP3-L198 - Bricks production using green coconut fiber**

Luciana Boaventura Palhares<sup>1</sup>, Luiza Dutra Rodrigues<sup>1</sup>; <sup>1</sup>Centro Universitário Newton Paiva

**SP3-L199 - Study in the incorporation of waste ceramic formulations for soil-cement bricks**

Sheyla Karolina Marques<sup>1</sup>, Sheyla Karolina Marques<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia de Alagoas

**SP3-L200 - Characterization of ceramic pieces obtained by slip casting using powder wastes**

Luciana Boaventura Palhares<sup>1</sup>; <sup>1</sup>Centro Universitário Newton Paiva

**SP3-L201 - Development of a System for Immersion Ultrasonic Analysis on UO<sub>2</sub> Pellets**

Douglas Brandão Baroni, Marcelo Siqueira Queiroz Bittencourt

**SP3-L202 - Ultrasonic Spectral Analysis for Ceramics Characterization**

Douglas Brandão Baroni, Antônio Mário Martins, Marcelo Siqueira Queiroz Bittencourt

**SP3-L203 - Crystallization of the eulytite**

**Bi<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> phase in BGO glasses below their glass transition temperature**

Seila Rojas<sup>1</sup>, José Ezequiel de Souza<sup>2</sup>, Marcello Barsi Andreetta<sup>3</sup>, Antonio Carlos Hernandez<sup>4</sup>; <sup>1</sup>Universidade Federal de Mato Grosso do Sul, <sup>2</sup>Universidade Federal da Grande Dourados, <sup>3</sup>Instituto de Física de São Carlos, <sup>4</sup>Universidade de São Paulo

**SP3-L204 - Characterization of PZT powder obtained by Microwave Hydrothermal Method**

Guilhermina Ferreira Teixeira<sup>1</sup>, Gisele Gasparotto, Maria Aparecida Zaghete<sup>1</sup>, Elson Longo, José Arana Varela<sup>2</sup>; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP3-L205 - Er<sup>3+</sup>/Yb<sup>3+</sup> co-doped tellurite glasses and optical fibers for photonic applications**

Jefferson Luis Ferrari<sup>1</sup>, Danilo Manzani<sup>2</sup>, Sidney José Lima Ribeiro, Younés Messaddeq; <sup>1</sup>Instituto de Química, <sup>2</sup>Instituto de Química Unesp

**SP3-L206 - Synthesis of SrSnO<sub>3</sub>:Ni by the polymeric precursor method**

Joao Jarllys Nobrega de Souza<sup>1,2</sup>, Danniely Melo Ribeiro, Ary da Silva Maia<sup>2</sup>, Elson Longo, Luiz Soledade, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal da Paraíba

**SP3-L207 - Monoaromatic hydrocarbon interaction on kaolinite layers**

João Batista Lopes Martins<sup>1</sup>, Elton A. S. Castro, Elson Longo, Ricardo Gargano; <sup>1</sup>Universidade de Brasília

**SP3-L208 - Evolution of the use of mill scale as a pigment for concrete**

Alexandre Agostinho Morotskoski<sup>1</sup>, Allan Silveira Medeiros, Angela Beatriz Coelho Arnt; <sup>1</sup>Universidade do Extremo Sul Catarinense

**SP3-L209 - Evolution the use of mill scale as pigment for white concrete**

Alexandre Agostinho Morotskoski<sup>1</sup>, Allan Silveira Medeiros, Angela Beatriz Coelho Arnt; <sup>1</sup>Universidade do Extremo Sul Catarinense

**SP3-L210 - Dense ceramics based SnO<sub>2</sub> of low resistance obtained for different route of synthesis**

Gisane Gasparotto<sup>1,2</sup>, Natalia Jacomaci<sup>3</sup>, Gisele Gasparotto, Maria Aparecida Zaghete<sup>4</sup>, José Arana Varela<sup>5</sup>, Leinig Antonio Perazolli; <sup>1</sup>Universidade Estadual Paulista - Araraquara, <sup>2</sup>Instituto de Química, <sup>3</sup>Instituto de Química Unesp, <sup>4</sup>Instituto de Química de Araraquara-Unesp, <sup>5</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP3-L211 - Study of the effect of processing time**

**on the structural and luminescent properties of SrWO<sub>4</sub>:Eu<sup>3+</sup> phosphors prepared by a microwave hydrothermal method (MH)**

Paula Fabiana Santos Pereira, Ana Paula de Moura<sup>1</sup>, Içamira Costa Nogueira<sup>2</sup>, Elson Longo, Paulo César Sousa Filho, Osvaldo Antonio Serra, Ieda Lúcia Viana Rosa; <sup>1</sup>Instituto de Química de Araraquara-Unesp, <sup>2</sup>Universidade Federal de São Carlos

**SP3-L212 - Study of nanotube clusters of Silicon [nano-Si---nano-Si], using methods of quantum and molecular mechanics**

Carlton Antony Taft<sup>1</sup>, Jose Divino Dos Santos<sup>2</sup>, João Batista Lopes Martins<sup>3</sup>, Marcos Vargas, Elson Longo; <sup>1</sup>Centro Brasileiro de Pesquisas Físicas, <sup>2</sup>Universidade Estadual de Goiás, <sup>3</sup>Universidade de Brasília

**SP3-L213 - Effect of the annealing time on the luminescent properties of SrWO<sub>4</sub>:Eu<sup>3+</sup> phosphors prepared by a non-hydrolytic sol-gel route**

Paula Fabiana Santos Pereira, Ana Paula de Moura<sup>1</sup>, Elson Longo, Paulo César Sousa Filho, Osvaldo Antonio Serra, Eduardo José Nassar, Ieda Lúcia Viana Rosa; <sup>1</sup>Instituto de Química de Araraquara-Unesp

**SP3-L214 - Analysis of the Use of Exhaust Powder from System Sand Core Making Regeneration in Concretes no Structural Function**

Carine Cardoso Dos Santos, Luiz Veriano Dalla Valentina, Wagner de Campos Galuppo

**SP3-L215 - Influence of the Phenolic Resin in Refractory of Al<sub>2</sub>O<sub>3</sub> – SiO<sub>2</sub>**

Ricardo Ritter Barnasky<sup>1</sup>, Rogério Almeida Gouvêa<sup>2</sup>, Tiago Delbrücke, Sergio da Silva Cava, Nefalí Lenin Villarreal Carreño; <sup>1</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, <sup>2</sup>Universidade Federal de Pelotas

**SP3-L216 - Influence of thermal treatment on final structure properties of SBN ferroelectric thin films**

Cicero Rafael Cena<sup>1</sup>, Eudes Borges Araujo, Rafael Luiz Heleno Freire, Elton Carvalho Lima; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP3-L217 - Local structure of glasses based on molybdenum phosphate and neodymium photoluminescence in the visible and near infrared regions**

Silvia Helena Santagneli<sup>1</sup>, Lauro June Queiroz Maia, Samuel Leite Oliveira, Sidney José Lima Ribeiro, Younes Messaddeq; <sup>1</sup>Instituto de Química Unesp

**SP3-L218 - Evaluation of defects formed in the system SrSnO<sub>3</sub>:Eu**

Lais Chantelle de Lima<sup>1</sup>, Márcia Rejane Santos da

Silva<sup>2</sup>, Ary da Silva Maia<sup>2</sup>, Elson Longo, Luiz Soledade, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal da Paraíba

**SP3-L219 - Theoretical study optical properties in the Calcium hexahydroxodizincate dihydrate**

Eduardo de Moraes<sup>1</sup>, Laécio Santos Cavalcante, Camila S Xavier, Valeria Moraes Longo, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos

**SP3-L220 - Evaluation of SnO<sub>2</sub> impregnated on clay by the polymeric precursor method for biodiesel synthesis**

Alex Meireles Neris<sup>1</sup>, Anderson Reis Albuquerque, Adriana Almeida Cutrim, Jakeline Daniela Soares da Silva Nascimento<sup>2</sup>, Ary da Silva Maia<sup>2</sup>, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal de Campina Grande

**SP3-L221 - Influence of superplasticizers and hyperplasticizers admixtures on the mechanical behavior of Portland cement slurries**

Dulce Maria de Araujo Melo, Júlio César Oliveira Freitas, Antonio Eduardo Martinelli<sup>1</sup>, Marcus Vinícius Cavalcanti Barros<sup>1</sup>, Dennys Salvino Sergio Pereira, Danilo Brasil Ribeiro, Ramon Feitosa Silva; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP3-L222 - Evaluation of the formation mechanism of zeolite 4A obtained from clays and sandy-clays rocks.**

Yana Luck Nunes<sup>1</sup>, Thisiania Romero Vieira Soares<sup>1</sup>, Jardel Cavalcante Rolim de Almeida Andrade, Lindomar Roberto Damasceno da Silva; <sup>1</sup>Universidade Federal do Ceará

**SP3-L223 - Importance of Si/Al ratio as a parameter of route for the synthesis of zeolite A and X**

Ednaria Rabelo de Oliveira, Giseli Allende de Souza<sup>1</sup>, Jardel Cavalcante Rolim de Almeida Andrade, José Hélio Saraiva Girão; <sup>1</sup>Universidade Federal do Ceará

**SP3-L224 - Structural and photoluminescent properties of Ba<sub>0,50</sub>Sr<sub>0,50</sub>MoO<sub>4</sub> powders obtained by microwave-hydrothermal method**

Içamira Costa Nogueira<sup>1</sup>, Paula Fabiana Dos Santos Pereira, Mateus Meneghetti Ferrer<sup>2</sup>, Máximo Sui Li Li, José Arana Varela<sup>3</sup>, Elson Longo; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Universidade Federal de São Carlos - Campus: São Carlos, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP3-L225 - Thin films of cupric oxide (CuO), obtained by the mixing of hydrothermal synthesis and organic synthesis**



Marcelo Zampieri<sup>1</sup>, José Arana Varela<sup>2</sup>, Elson Longo; <sup>1</sup>Universidade Estadual Paulista - Araraquara, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP3-L226 - Influence of the substrate in the photocatalytic efficiency of SrTi<sub>0.99</sub>Nd<sub>0.01</sub>O<sub>3</sub> thin films**

Suelen Alves<sup>1</sup>, Márcia Rejane Santos da Silva<sup>2</sup>, Valérie Bouquet, Maryline Guilloux-Viry, Antônio Gouveia Souza, Ary da Silva Maia<sup>2</sup>, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Federal da Paraíba, <sup>2</sup>Universidade Federal da Paraíba

**SP3-L227 - Iron minerals influence on the sedimentology of pegmatite sandy-clay in the kaolinite extraction**

Thisiania Romero Vieira Soares<sup>1</sup>, Jardel Cavalcante Rolim de Almeida Andrade, Yana Luck Nunes<sup>1</sup>, Giseli Allende de Souza<sup>1</sup>, Lindomar Roberto Damasceno da Silva; <sup>1</sup>Universidade Federal do Ceará

**SP3-L228 - The low-pressure ceramic injection moulding process applied to the fabrication of a ceramic component (thread-guide) used in the textile industry**

Maria Rosimar Sousa, Eiji Harima<sup>1</sup>; <sup>1</sup>Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

**SP3-L229 - Evaluation of yield in synthesis of zeolite LTA class in the presence of iron minerals**

Jardel Cavalcante Rolim de Almeida Andrade, Thisiania Romero Vieira Soares<sup>1</sup>, Yana Luck Nunes<sup>1</sup>, Giseli Allende de Souza<sup>1</sup>, Lindomar Roberto Damasceno da Silva; <sup>1</sup>Universidade Federal do Ceará

**SP3-L230 - Structural properties of PLZT (9/65/35) thin films prepared by conventional chemical method.**

Rafael Luiz Heleno Freire<sup>1</sup>, Eudes Borges Araujo, Cicero Rafael Cena<sup>2</sup>, Elton Carvalho Lima; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" - Campus Ilha Solteira, <sup>2</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP3-L231 - Preparation of mesoporous Nb<sub>2</sub>O<sub>5</sub>.nH<sub>2</sub>O**

Ary da Silva Maia<sup>1</sup>, Ana Rosa Silva Neta, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>1</sup>; <sup>1</sup>Universidade Federal da Paraíba

**SP3-L232 - Synthesis and characterization of vanadium pentoxide gels**

Ary da Silva Maia<sup>1</sup>, Samantha da Silva Guimarães, Márcia Rejane Santos da Silva<sup>2</sup>, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos<sup>2</sup>; <sup>1</sup>Universidade Federal da

Paraíba, <sup>2</sup>Universidade Federal da Paraíba  
**SP3-L233 - Influence of SBR latex in the mechanical properties of cementing matrices**  
Dulce Maria de Araujo Melo, Júlio César Oliveira Freitas, Filipe da Silva Oliveira, Ramon Feitosa Silva, Marcus Vinícius Cavalcanti Barros<sup>1</sup>, Dennys Salvino Sergio Pereira, Danilo Brasil Ribeiro; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP3-L234 - Characterization of bismuth titanate synthesized by the oxidant peroxide method (OPM)**

André Esteves Nogueira, Emerson Rodrigues Camargo

**SP3-L235 - Flame Aerosol Synthesis of Calcium Phosphates**

Diogo Kramer Topolski, Saulo Roca Bragança<sup>1</sup>, Carlos Pérez Bergmann; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-L236 - Determination of optical constants and thickness of SBN ferroelectric thin films by transmission spectrum in UV-vis-NIR region**

Cicero Rafael Cena<sup>1</sup>, Elton Carvalho Lima, João Carlos Silos Moraes, Noélio Oliveira Dantas, Eudes Borges Araujo, Rafael Luiz Heleno Freire; <sup>1</sup>Universidade Estadual Paulista Júlio de Mesquita Filho

**SP3-L237 - Synthesis and sintering of MgO-doped alumina powders with addition of seeds**

Raphael Euclides Prestes Salem<sup>1</sup>, Katerine Alves Guilherme, Adriana Scoton Chinelatto, Adilson Luiz Chinelatto; <sup>1</sup>Universidade Estadual de Ponta Grossa

**SP3-L238 - Characterization of Composites of Polyurethane with Polyurethane Powder from Industrial Residues**

Erica Silva Marinho<sup>1</sup>, Cláudio Santos; <sup>1</sup>Centro Universitário Newton Paiva

**SP3-L239 - Characterization of Granite Powder Compacts with the Addition of Coal Combustion Products**

Halisson Souza Pinheiro, Silvio Veras Albuquerque, Paulo Demétrios da Silva, Ricardo Ferreira Nogueira

**SP3-L240 - Solid-State Synthesis of Hydroxyapatite by Microwave Irradiation**

Eden Batista Duarte<sup>1</sup>, Ricardo Ferreira Nogueira, Silvio Veras Albuquerque; <sup>1</sup>Universidade Federal do Ceará

**SP3-L241 - The effects of Tantalum on the CaCu<sub>3</sub>Ti<sub>4-x</sub>Ta<sub>x</sub>O<sub>12</sub>**

Mayara Sacardo Ferreira<sup>1</sup>, Francisco Moura Filho; <sup>1</sup>Universidade Federal de Itajubá

**SP3-L242 - Post-mortem study of Al<sub>2</sub>O<sub>3</sub>-MgO-C refractory brick applied in steel ladle's side wall.**

Bruno Vidal de Almeida<sup>1</sup>, Matheus Martini<sup>2</sup>, Fernando Vernilli Júnior, Vinícius Franco do Nascimento, Robersio Marinho de Faria, Fernando Fernandes da Silva, José Milton Gabriel

Lopes; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP3-L243 - Niobium stabilized zirconia obtained via Pechini method**

José Hilton Rangel, José Elias Lopes, Maria Das Graças Costa, Adeilton Pereira Maciel, Marcelo Moizinho Oliveira, Elson Longo

**SP3-L244 - Isovalent Doping of Structure Type Inverse Spinel: an Analysis of the Structural Effect of Cr(III) Insertion at High Levels Via Rietveld Method**

Josiane Aparecida Sobrinho<sup>1</sup>, Andreza Cristina Souza Silva<sup>2</sup>, Caroline Polini<sup>3</sup>, Sylvania Lanfredi<sup>4</sup>, Marcos Augusto de Lima Nobre, Ana Maria

Pires<sup>4</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho", <sup>2</sup>Instituto de Química - Universidade Estadual Paulista, <sup>3</sup>Universidade Estadual

Paulista, <sup>4</sup>Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

**SP3-L245 - Mechanical characterization under bending loading of ceramics used in crafts on Icoaraci (Pa)**

Nubia Suely Santos, Manoel Ribeiro da Silva<sup>1</sup>, Sabina da Memória Cardoso de Andrade<sup>2</sup>, Josenete Ferreira

Mendes, Vitória Martins Soares Pamplona, José Antonio Castro da Silva; <sup>1</sup>Universidade Federal de Itajubá, <sup>2</sup>Universidade Estadual de Campinas

**SP3-L246 - Development of porous ceramic as air humidity sensor for environmental monitoring**

Rodrigo de Matos Oliveira, Maria do Carmo de A. Nono

**SP3-L247 - Study of TiO<sub>2</sub> ceramics for biomedical applications**

Ana Lucia do Amaral Escada<sup>1</sup>, José Luis Minatti, Ana Paula Rosifini Alves Claro; <sup>1</sup>Universidade Estadual Paulista - Guaratinguetá

**SP3-L248 - Athalpigite and Ionic Resin as adsorbent of thiophene on petroleum derivates**

Rodolfo Luiz Medeiros, Dulce Maria de Araujo Melo, Marcus Antônio Melo, Renata Martins Braga, Vítor Rodrigo Melo, Joana Maria Barros

**SP3-L249 - Electrical characterization of cerium-doped BGO glasses**

José Ezequiel de Souza<sup>1</sup>, Seila Rojas<sup>2</sup>, Jean Claude M'peko, Antonio Carlos Hernandez<sup>3,4</sup>; <sup>1</sup>Universidade

Federal da Grande Dourados, <sup>2</sup>Universidade Federal de Mato Grosso do Sul, <sup>3</sup>Universidade de São Paulo, <sup>4</sup>Instituto de Física de São Carlos

**SP3-L250 - Characterization of the sludge produced on marble retailers and its potential application for ceramic and concrete industries**

Telma Fernanda Eugênio<sup>1</sup>, Wanderson Marinho Abreu, Antônio Valadão Cardoso; <sup>1</sup>Universidade Federal de Minas Gerais

**SP3-L251 - Optical absorption and structural of tellurite glass**

Aline Alcamin Monteiro, Vanessa Orsi Gordo, Keizo Yukimitu<sup>1</sup>, José Brás Barreto de

Oliveira<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista - Campus Ilha Solteira, <sup>2</sup>Faculdade de Ciências de Bauru - Unesp

**SP3-L252 - The use of marble retailers waste as raw material for ceramic and concrete industries**

Telma Fernanda Eugênio<sup>1</sup>, Wanderson Marinho Abreu, Luciane Souza Melo; <sup>1</sup>Universidade Federal de Minas Gerais

**SP3-L253 - Synthesis and Characterization of Ce<sub>1-x</sub>Nd<sub>x</sub>O<sub>2-δ</sub> solid solutions by citrate-EDTA method**

Heloisa Pimenta Macedo, Francisco Wendell Bezerra Lopes, Carlson Pereira Souza

**SP3-L254 - Use of Computed Tomography for Detection of Internal Defects of Specimens of Concrete**

José Carlos Alves Galvão, Walmor Cardoso Godoi, Kleber Franke Portella, Vitoldo Swinka Filho, Roberto Mendes, Katsue Fany Watanabe<sup>1</sup>, Michael Douglas Fernandes Pelá; <sup>1</sup>Universidade Tecnológica Federal do Paraná

**SP3-L255 - Formation of porous anodic films on recycled aluminium from Li-ion batteries**

Surya de Jesus Cantarino<sup>1</sup>, Alfredo Gonçalves Cunha, Marcos Benedito José Geraldo de

Freitas; <sup>1</sup>Universidade Federal do Espírito Santo

**SP3-L256 - Methodology in search of more stable structures of SiC and BN nanotubes using the semi-empirical AM1, B3LYP and Ab-Initio HF methods**

Rogério José Costa, Jose Divino Dos Santos<sup>1</sup>, João Batista Lopes Martins<sup>2</sup>, Elson Longo, Marcos Reis Vargas, Gisley de Souza Brito, Montales Borges Oliveira; <sup>1</sup>Universidade Estadual de Goiás, <sup>2</sup>Universidade de Brasília

**SP3-L257 - Technological control of concrete used on waffle slab, molded on construction, during building a supermarket in the city of Montes Claros**

Rodrigo Bergami Trevizani<sup>1</sup>, Cinthia Brito Fonseca<sup>1</sup>,  
Fabrício Moura Dias; <sup>1</sup>Centro Universitário do Leste  
de Minas Gerais

**SP3-L258 - Evaluation of the potential use of  
granite waste in ceramic tile**

Raimison Bezerra de Assis<sup>1</sup>, Amanda Lucena de  
Medeiros, José Flávio Timóteo Júnior<sup>2</sup>; <sup>1</sup>Universidade  
Federal do Rio Grande do Norte, <sup>2</sup>Universidade  
Federal do Amazonas

**SP3-L259 - Porcelain made from bovine bone and  
granite waste**

Eiji Harima<sup>1</sup>, Elione Carlos Moura, José Leonaldo  
Souza, José Yvan Leite; <sup>1</sup>Instituto Federal de  
Educação, Ciência E Tecnologia do Rio Grande do  
Norte

**SP3-L260 - Radio-frequency (RF) analysis of the  
dielectric ceramics:  $\text{Ca}(\text{Nb}_{2/3}\text{Li}_{1/3})_{0.2}\text{Ti}_{0.8}\text{O}_{3-d}$   
(CNLTOX)**

Francisco Welton de Oliveira Amarante<sup>1</sup>, Antonia  
Daniele S. Bruno Costa<sup>1</sup>, Rodrigo Carvalho Souza  
Costa, Tatiana Sainara Maia Fernandes, Marcelo  
Antonio Santos da Silva, Gilberto Dantas Saraiva,  
Antonio Sérgio Bezerra Sombra; <sup>1</sup>Universidade  
Federal do Ceará

**SP3-L261 - Properties of  $\text{Al}_2\text{O}_3$ - $\text{SiO}_2$  core-shell  
nanoparticles with addition of iron and cobalt  
oxides**

Rogério Almeida Gouvêa<sup>1</sup>, Tiago Delbücke<sup>2</sup>, Sergio  
da Silva Cava, Neftalí Lenin Villarreal  
Carreño; <sup>1</sup>Universidade Federal de  
Pelotas, <sup>2</sup>Universidade Federal de Pelotas - Cdtec -  
Laboratório da Engenharia de Materiais

**SP3-L262 - Synthesis and characterization of  
Pyrochlore obtained by chemical method**

Rafael Francisco Kutkoski<sup>1</sup>, Vania Aparecida Novak,  
Celia Matsuda, Luiz Fernando Cótica, Andrea  
Paesano Jr.; <sup>1</sup>Universidade Estadual do Centro Oeste

**SP3-L263 - Ferromagnetic and Ferroelectric  
properties at room temperature in**

**$\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$  multiferroics ceramics**

Bárbara Maraston Fraygola<sup>1</sup>, José Antônio Eiras<sup>2</sup>,  
William Junior Nascimento<sup>2</sup>, Ducinei Garcia, Nayana  
Frizon, Adelino de Aguiar Coelho; <sup>1</sup>Universidade  
Federal de São Carlos, <sup>2</sup>Universidade Federal de São  
Carlos - Campus: São Carlos

**SP3-L264 - Study on the sintering of alumina  
nanoparticles: a sintering study in the gamma-  
alpha transition of alumina**

Rogério Almeida Gouvêa<sup>1</sup>, Tiago Delbücke<sup>2</sup>, Neftalí  
Lenin Villarreal Carreño, Sergio da Silva  
Cava; <sup>1</sup>Universidade Federal de

Pelotas, <sup>2</sup>Universidade Federal de Pelotas - Cdtec -  
Laboratório da Engenharia de Materiais

**SP3-L265 - Effect of the temperature in optical  
parameters in the reflectance spectrum of the  
composition  $\text{Li}_2\text{Zn}_{1-3x/2}\text{Fe}_x\text{Ti}_3\text{O}_8$  and  $\text{Li}_2\text{Zn}_{1-3x/2}\text{Cr}_x\text{Ti}_3\text{O}_8$**

Luciano Nóbrega Azevedo<sup>1</sup>, Anderson Marcelino  
Arandas, Francisco José Santos Lima, Elson Longo,  
Maria Suely Costa da Câmara<sup>1</sup>; <sup>1</sup>Universidade Federal  
Rural de Pernambuco

**SP3-L266 - Analysis of the properties of ceramic  
coating fiber-reinforced lingnocelulósicas**

Raimison Bezerra de Assis<sup>1</sup>, Mozer de Meneses  
Mozer Meneses<sup>1</sup>, Marcos Inácio da Rocha, Arthur  
Celso Soares Moreira, Salomão Sávio Batista, Janaína  
Karla de Medeiros Penha; <sup>1</sup>Universidade Federal do  
Rio Grande do Norte

**SP3-L267 - Microestrutural analysis of porous  
stainless steel 316L incorporated with gel bioglass.**

Thayene Ribeiro Ferreira

**SP3-L268 - Effect of synthesis method for  
obtaining the pigment  $\text{CoCr}_2\text{O}_4$**

Maria Suely Costa da Câmara<sup>1</sup>, Érika Pinto Marinho,  
Luciano Nóbrega Azevedo<sup>1</sup>, Thamara R N Clemente,  
Ieda Maria G Santos; <sup>1</sup>Universidade Federal Rural de  
Pernambuco

**SP3-L269 - Formulation of Porcelainized  
Stoneware with Red Clay of the City Sao Goncalo  
do Amarante - RN**

Flanelson Monteiro, José Leonaldo Souza, Samara  
Melo Valcacer, Tércio Graciano Machado

**SP3-L270 - Linear and nonlinear refractive index  
of bismuth tellurite glasses**

Fábio Alencar Dos Santos<sup>1</sup>, Marcio da Silva  
Figueiredo, Keizo Yukimitu<sup>2</sup>, Sandro Lima, Luis  
Humberto da Cunha Andrade, João Carlos Silos  
Moraes; <sup>1</sup>Universidade Estadual Paulista Julio de  
Mesquita Filho Campus de Ilha  
Solteira, <sup>2</sup>Universidade Estadual Paulista - Campus  
Ilha Solteira

**SP3-L271 - Characterization and use of solid  
wastes from São Tomé stones production as raw  
material for silica-soda-lime glass**

Wanderson Marinho de Abreu, Telma Fernanda  
Eugênio<sup>1</sup>, Luciane Souza Melo, Antônio Valadão  
Cardoso; <sup>1</sup>Universidade Federal de Minas Gerais

**SP3-L272 - Analysis of Incorporation of Granite  
and Marble Powder kaolinite clay in Boa Saúde-  
RN**

Flanelson Monteiro, Tércio Graciano Machado,  
Samara Melo Valcacer, Uíflame Gomes, Gilson Gracia

Silva, C. S.

**SP3-L273 - Synthesis of pure and doped**

**YAlO<sub>3</sub> powders by a soft chemistry route**

Jesiel Freitas Carvalho, Antonio Lazo, Simone Ferreira Almeida Cruz, Ricardo Costa de Santana

**SP3-L274 - Cr-doped Al<sub>2</sub>O<sub>3</sub> pigments**

**encapsulated with SiO<sub>2</sub> coreshell obtained by the polymeric precursor method**

Sergio da Silva Cava, Fernando Augusto Moraes, Tiago Delbücke<sup>1</sup>, Rogério Almeida Gouvêa<sup>2</sup>, Neftali Lenin Villarreal Carreño, César Antonio Oropesa Avellaneda; <sup>1</sup>Universidade Federal de Pelotas - Cdtcc - Laboratório da Engenharia de

Materiais, <sup>2</sup>Universidade Federal de Pelotas

**SP3-L275 - Microestrutural analysis of porous stainless steel 316L impregnated in molten bioglass.**

Rebeca de Castro Neves, Fernando Vernilli Júnior, Gilbert Silva

**SP3-L276 - Effect of Incorporation of waste (grog, marble and granite) of the red ceramic industry.**

Ricardo Neves Bedoya<sup>1,2</sup>, Artudônio Dantas Prado; <sup>1</sup>Instituto Federal do Maranhão, <sup>2</sup>Instituto Federal de Educação, Ciência E Tecnologia do Maranhão

## SYMPOSIUM M

### Advances and Applications of Electron Microscopy

#### Chairs

Marcelo Ornaghi Orlandi (São Paulo State University)  
Conrado Ramos Moreira Afonso (UFSCar)

## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY, SEPTEMBER 26TH

#### SESSION M1

**09:30 - 10:30 - Room 12**

**09:30 - M1.1\***

**Non-conventional electron tomography of nanostructures**

Antonio J. Ramirez<sup>1</sup>, Daniel Grando Stroppa<sup>1,2</sup>, Luciano Montoro, Augusta Cerceau Isaac, Ricardo Diogo Righetto<sup>3</sup>, Edson Roberto Leite; <sup>1</sup>Brazilian Nanotechnology National Laboratory, <sup>2</sup>University Of

Campinas, <sup>3</sup>Laboratório Nacional de Luz Sincrotron  
**10:00 - M1.2**

**Dual beam microscopy: a versatile technique for material science and metrology.**

Braulio Soares Archanjo<sup>1</sup>, Suzana Botega Peripolli, Taeko Yonamine, Carlos Alberto Achete<sup>2</sup>; <sup>1</sup>Inmetro, <sup>2</sup>Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

**10:15 - M1.3**

**Strain mapping of engineering materials at in situ SEM experiments by an integrated image processing tool**

Ricardo Diogo Righetto<sup>1</sup>, Pedro Gabriel Rubira Calsavara, Edwar Andres Torres<sup>1</sup>, Antonio J. Ramirez<sup>2</sup>; <sup>1</sup>Laboratório Nacional de Luz Sincrotron, <sup>2</sup>Brazilian Nanotechnology National Laboratory

#### SESSION M2

**11:00 - 12:30 - Room 12**

**11:00 - M2.1\***

**Characterization of Phase Transformations and Complex Structures in the High Temperature Ti-Pt and Ti-Ni-Pt Shape Memory Alloy Systems**

Michael J. Kaufman

**11:30 - M2.2\***

**New perspectives in the analysis of metal alloysthrough automatic diffraction pattern identification atTEM**

Andre Luiz Pinto, Tatiana Lisboa Marcondes

**11:45 - M2.3**

**Characterization of oxide layers grown on Fe-Mn-Si-Cr-Ni alloys after cyclic oxidation.**

Artur Mariano de Sousa Malafaja<sup>1</sup>, Lucía Suarez Fernandez, Jose Maria Cabrera Marrero, Marcelo Tadeu Milan, Marcelo Falcão de Oliveira; <sup>1</sup>Interunidades - Materiais - Eesc/ifsc/iqsc

**12:00 - M2.4**

**Doloma-C refractories microstructure: investigation and comparative analysis**

Saulo Roca Bragança<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

#### SESSION M3

**15:00 - 16:00 - Room 12**

**15:00 - M3.1\***

**Bonding and Electronic Structure of Nanomaterials and Interfaces with Electron Energy Loss Spectroscopy**

Gianluigi Botton

**15:30 - M3.2**

**Reconstruction of Nanocrystals 3D Morphology by HAADF-HRSTEM**

Daniel Grando Stroppa<sup>1,2</sup>, Ricardo Diogo Righetto<sup>3</sup>, Luciano Montoro, Edson Roberto Leite, Antonio J. Ramirez<sup>3</sup>; <sup>1</sup>Brazilian Nanotechnology National Laboratory, <sup>2</sup>University Of Campinas, <sup>3</sup>Laboratório Nacional de Luz Sincrotron

**15:45 - M3.3**

**Study of adsorbed gases in the system of field emission microscopy**

Marcos Henrique Mamoru Otsuka Hamanaka, Michele Odnicki da Silva, Alexandre Cândido de Paulo, Fernando Fuzinato Dal'agnol, Thebano Emílio de Almeida Santos<sup>1</sup>, Victor Pellegrini Mammanna, Peter Jürgen Tatsch; <sup>1</sup>Centro de Tecnologia da Informação Renato Archer

## TUESDAY, SEPTEMBER 27TH

### SESSION M4

**09:30 - 10:30 - Room 12**

**09:30 - M4.1\***

**Atomic-resolution electron microscopy applications**

Andrea Porto Carreiro Campos, Sandra Marcela Landi, Daniel Lorscheitter Baptista

**10:00 - M4.2**

**Ultra-small magnetic nanoparticles studied by High- Resolution Transmission Electron Microscopy**

Leandro M. Socolovsky<sup>1,2</sup>, Ricardo Martínez García; <sup>1</sup>Universidad de Buenos Aires, <sup>2</sup>Consejo Nacional Investigaciones Científicas Y Tecnológicas

**10:15 - M4.3**

**High resolution study and chemical phase of the strong diamond/silicon nitride interface using HRTEM, STEM and EELS line profiling**

Daniel Lorscheitter Baptista, Suzana Botega Peripolli, Flávia A. Almeida, Rui F. Silva, Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

### SESSION M5

**11:00 - 12:30 - Room 12**

**11:00 - M5.1\***

**Nanocrystalline structure of non-stoichiometric CeO<sub>2</sub> thin films investigated by XPS, XANES, and EELS**

Dante Homero Mosca<sup>1</sup>; <sup>1</sup>Universidade Federal do Paraná

**11:30 - M5.2\***

**Characterization of Ag/TiO<sub>2</sub> Systems by Scanning and High Resolution Transmission Electron Microscopies**

Nelcy Della Santina Mohallem

**12:00 - M5.3**

**Contributions from microscopy techniques for the mechanism elucidation of TiO<sub>2</sub> nanoparticles photocatalytic activity**

Caue Ribeiro de Oliveira, Vagner Romito Mendonça, Waldir Avansi Junior, Gabriela Soares, Henrique Aparecido de Jesus Loures Mourão

**12:15 - M5.4**

**Atomic structures of the (010) hydroxyapatite surface**

Carlos Ospina<sup>1</sup>, Joice Terra, Donald E. Ellis, Antonio J. Ramirez<sup>1</sup>, Alexandre Malta Rossi; <sup>1</sup>Brazilian Nanotechnology National Laboratory

## POSTER PRESENTATIONS

### TUESDAY, SEPTEMBER 27TH

#### SESSION SP2

**14:00 - 16:00 - Exhibition Hall**

**SP2-M1 - Characterization of impregnated wood with chromated copper arsenate certification seeking of a reference standard of treated wood**

Luciana Gampert Miranda<sup>1</sup>, Suzana Freghetto Ferrarini, Heldiane Souza Dos Santos, Rafael Colombo Abruzzi, Carla Maria Nunes Azevedo, Marçal José Rodrigues Pires; <sup>1</sup>Pontifícia Universidade Católica do Rio Grande do Sul

**SP2-M2 - Microscopy as a tool for wood identification of national heritage historical buildings**

Edilson Nunes Pollnow<sup>1</sup>, Margarete Regina Freitas Gonçalves, Neftalí Lenin Villarreal Carreño, Ricardo Marques E Silva<sup>2</sup>, Darci Alberto Gatto, Kelly Cristina Cardoso, Anderson Pires Aires; <sup>1</sup>Universidade Federal de Pelotas, <sup>2</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

**SP2-M3 - Effects of CNT functionalization on the Production of Cu-MWCNT Nanocomposites**

Martin Emilio Mendoza, Ivan Guillermo Solórzano-Naranjo, Andrea Porto

**SP2-M4 - Previews on news procedures in EPMA. Invariant imbedding applications for characterization of zirconium compounds.**

Carlos Miguel Figueroa<sup>1</sup>, Nicolás Enrique Nieva, Silvia Inés Pérez; <sup>1</sup>Universidad Nacional de Tucumán

**SP2-M5 - Microstructure characterization of hexagonal martensite decomposition and phase precipitation in Ti-Cu alloys.**

Conrado Ramos Moreira Afonso<sup>1</sup>, Flavia F. Cardoso, Alessandra Cremasco, Rodrigo J. Contieri, Eder Lopes, Rubens Caram; <sup>1</sup>Universidade Federal de São Carlos

**SP2-M6 - Electron microscopy characterization of a laser remelted coating of**

**Al<sub>91</sub>Fe<sub>4</sub>Cr<sub>3</sub>Ti<sub>2</sub> quasicrystalline alloy.**

Piter Gargarella, Conrado Ramos Moreira Afonso<sup>1</sup>, Rui Mario Correia da Silva Vilar, Claudio S. Kiminami, Carlos Triveño Rios, Claudemiro Bolfarini, Walter José Botta; <sup>1</sup>Universidade Federal de São Carlos

**SP2-M7 - Microstructure and phase equilibria of the biogenic CaCO<sub>3</sub> on shell of the bivalve *Limnoperna fortunei***

Arnaldo Nakamura Filho<sup>1</sup>, Antônio Valadão Cardoso, Diovane George de Aquino E Silva, Vitor José Pinto Gouveia, Arthur Almeida, Marcela David, Helen Mota; <sup>1</sup>Fundação Centro Tecnológico de Minas Gerais

**SP2-M8 - Failure analysis of landing gear springs**

Emilio Monleon Raccanelli de Moraes Melo<sup>1</sup>, Nicélio José Lourenço, Mário Lima de Alencastro Graça, Olivério Moreira de Macedo Silva, Leandro Augusto Lemos Franco; <sup>1</sup>Escola de Engenharia de Lorena - Universidade de São Paulo

**SP2-M9 - VP-ESEM and AFM correlative microscopy for qualitative and quantitative fracture characterization of plain weave carbon/epoxy composites**

Kamila Amato de Campos<sup>1</sup>, Luis Rogerio de Oliveira Hein; <sup>1</sup>Faculdade de Engenharia de Guaratingueta

**SP2-M10 - Characterization of AISI 316 nitrided steel by TEM**

Frederico Augusto Pires Fernandes<sup>1</sup>, Luiz Carlos Casteletti, George Edward Totten, Juno Gallego; <sup>1</sup>Universidade de São Paulo

**SP2-M11 - Fractography of carbon fiber filaments with defects in structural composite tested on tension static loading**

Geraldo Maurício Cândido<sup>1</sup>, José Antônio Peixoto Cunha, Michelle Leali Costa, João Carlos Fernandes, Mirabel Cerqueira Rezende; <sup>1</sup>Instituto de Aeronáutica E Espaço

**SP2-M12 - Fractographic interpretation of failure mechanisms in resin-rich regions of bidirectional textile composites**

Geraldo Maurício Cândido<sup>1</sup>, Rogério Duque Gonçalves, Elizabeth Godoy Cezar Salgado, Mirabel

Cerqueira Rezende; <sup>1</sup>Instituto de Aeronáutica E Espaço

**SP2-M13 - The Effect of Crystal Growth by Oriented Attachment in TiO<sub>2</sub> Photoluminescence**

Vagner Romito Mendonça, Waldir Avansi, Caue Ribeiro de Oliveira

**SP2-M14 - Failure Analysis of a Backhoe Bucket Tool**

Carlos Eduardo Celestino de Andrade<sup>1</sup>, Thiago Figueiredo Azevedo, Silvando Vieira Dos Santos, Abraao Santos Silva, Sandro Griza; <sup>1</sup>Universidade Federal de Sergipe

**SP2-M15 - Flaw characterization in ASTM A283 pressure vessel**

Carlos Eduardo Celestino de Andrade<sup>1</sup>, Thiago Figueiredo Azevedo, Silvando Vieira Dos Santos, Emerson Rego Goes, Sandro Griza; <sup>1</sup>Universidade Federal de Sergipe

**SP2-M16 - Low temperature aging effects on the PL behavior of Pb implanted silica**

F. P. Luce, F. Kremer, Dario Ferreira Sanchez, Z. E. Fabrim, Cristiane Marin<sup>1</sup>, F. C. Zawislak, Paulo F. P. Fichtner<sup>2</sup>; <sup>1</sup>Post-Graduation Course In Material Science, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP2-M17 - Silica/silicon interface**

**nanostructuring via ion beam synthesis**

F. P. Luce, F. Kremer, Dario Ferreira Sanchez, Z. E. Fabrim, Shay Reboh, F. C. Zawislak, Paulo F. P. Fichtner<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-M18 - Dual phase two-dimensional arrays of metallic Pb nanoparticles formed at SiO<sub>2</sub>/Si interfaces**

F. Kremer, F. P. Luce, Z. E. Fabrim, Shay Reboh, Dario Ferreira Sanchez, F. C. Zawislak, P. F.p. Fichtner

**SP2-M19 - He-Ne co-implantation into Si(111) substrates and thermal annealing**

Ludmar Guedes Matos<sup>1</sup>, Rogério Luis Maltez, P. F.p. Fichtner; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-M20 - Field emission scanning electron microscopy in combination with transmission electron microscopy for understanding CuO crystallization and its gas sensor properties**

Diogo Paschoalini Volanti<sup>1</sup>, Anderson André Felix, Marcelo Ornaghi Orlandi<sup>2</sup>, Elson Longo, José Arana Varela<sup>3</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Instituto de Química Unesp, <sup>3</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-M21 - Electron Microscopy Characterization of SnO Nanomaterials for Gas Sensor Applications**

Pedro Henrique Suman<sup>1</sup>, Marcelo Ornaghi Orlandi<sup>2</sup>; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho" (Unesp), <sup>2</sup>Instituto de Química Unesp  
**SP2-M22 - Synthesis and Characterization of ITO Nanomaterials Obtained by Microwave Assisted Hydrothermal Method**

Fernando Borges Modesto, Marcelo Ornaghi Orlandi<sup>1</sup>, José Arana Varela<sup>2</sup>; <sup>1</sup>Instituto de Química Unesp, <sup>2</sup>Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

**SP2-M23 - Electron Microscopy Laboratory at LNNano**

Marina Magnani<sup>1</sup>, Carlos Kazuo Inoki, Rodrigo Villares Portugal, Jefferson Bettini, Luciano A. Montoro Montoro, Luis Fernando Zagonel, Antonio J. Ramirez<sup>1</sup>; <sup>1</sup>Brazilian Nanotechnology National Laboratory

**SP2-M24 - Characterization of oxide layers grown on a Fe-15%Si alloy after cyclic oxidation at 800°C**

Artur Mariano de Sousa Malafaia<sup>1</sup>, Lucía Suarez Fernandez, Jose Maria Cabrera Marrero, Marcelo Tadeu Milan, Omar Maluf, Marcelo Falcão de Oliveira; <sup>1</sup>Interunidades - Materiais - Eesc/ifsc/iqsc

**SP2-M25 - Applications of scanning electronic microscopy in material's study**

Rafael Mello Lattuada<sup>1</sup>, Rafael Gustavo Torres Leal; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP2-M26 - Advances in instrumentation and applications for Atom Probe Tomography**

Francois Horreard, Alexandre Houssou, David J Larson, Peter H Clifton, Thomas F Kelly

**SP2-M27 - X Ray Energy Dispersive Spectrometry and Monte Carlo Simulations of Isothermally Heat Treated Fe<sub>2</sub>C<sub>5</sub>V<sub>5</sub>Cr<sub>5</sub>Mo<sub>5</sub>W Multi-component Alloy' Carbides**

Helio Goldenstein<sup>1</sup>, Isaac Jamil Sayeg<sup>1</sup>, Mário Boccalini Jr.; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP2-M28 - Recycling of PP loaded with recycled mineral**

Cristina Das Gracias Fassina<sup>1</sup>, Osmar Roberto Bagnato, Giuliano Spinelli; <sup>1</sup>Universidade São Francisco

## SYMPOSIUM N

### Prospects for materials science with synchrotron radiation in Brazil

#### Chairs

Gustavo Azevedo (IF-UFRGS)  
Eduardo Granado (IF-UNICAMP/LNLS)  
Guinther Kellermann (DF-UFPR)  
Fabio Furlan (UFABC)

## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY, SEPTEMBER 26TH

#### SESSION N1

09:30 - 10:30 - Room 13

09:30 - **N1.1\***

**Sirius – the new Brazilian synchrotron light source**  
Ricardo Rodrigues<sup>1</sup>; <sup>1</sup>Laboratório Nacional de Luz Sincrotron

10:00 - **N1.2\***

**The X-Ray Diffraction and Spectroscopy (XDS) Beamline at the Brazilian Synchrotron Laboratory (LNLS)**

Eduardo Granado<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

#### SESSION N2

11:00 - 12:30 - Room 13

11:00 - **N2.1\***

**Reentrant pressure-induced valence transition in EuO**

Narcizo Souza Neto

11:30 - **N2.2**

**Structural characterization of thin chalcogenide films using Synchrotron radiation**

Leandro Langie Araujo<sup>1</sup>, Raquel Giulian, Mark Cameron Ridgway<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Australian National University

11:45 - **N2.3**

**Study by TEM and GISAXS of coherent CoSi<sub>2</sub> nanoplates buried in Si(100)**

P. Cecilia Dos Santos Claro, Lisandro J. Giovanetti, Felix G. Requejo, Luciano A. Montoro Montoro, Antonio J. Ramirez<sup>1</sup>, Aldo Felix Craievich, Guinther

Kellermann<sup>2</sup>; <sup>1</sup>Brazilian Nanotechnology National Laboratory, <sup>2</sup>Universidade Federal do Paraná

12:00 - **N2.4\***

**The use of synchrotron radiation to probe finite-size effects in metal nanoparticles**

Mark Cameron Ridgway<sup>1</sup>; <sup>1</sup>Australian National University

### SESSION N3

15:00 - 16:00 - Room 13

15:00 - **N3.1\***

**New opportunities in Nanoscience Research using Synchrotron Radiation at LNLS**

Rogério Magalhaes Paniago<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

15:30 - **N3.2**

**Study of kinetics of formation of graphitic nanotubes**

Cilaine Verônica Teixeira<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande de Sul

15:45 - **N3.3**

**Study by GISAXS of the thermally activated dissolution of PbTe nanocrystals in SiO<sub>2</sub> glass**

Giuliana Pavaneli<sup>1</sup>, Guinther Kellermann<sup>1</sup>, Eugenio Rodriguez, Luiz Carlos Barbosa, Aldo Felix Craievich; <sup>1</sup>Universidade Federal do Paraná

## TUESDAY, SEPTEMBER 27TH

### SESSION N4

09:30 - 10:30 - Room 13

09:30 - **N4.1\***

**Synchrotron hard x-ray imaging from micro- to nanometer scale: developments and perspectives in Brazil.**

Angelo Malachias<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

10:00 - **N4.2**

**Structure of Ba<sub>0.90</sub>Ca<sub>0.10</sub>Ti<sub>1-x</sub>Zr<sub>x</sub>O<sub>3</sub> Ferroelectric ceramic compounds probed by multiedge X-ray absorption spectroscopy**

Valmor Roberto Mastelaro<sup>1</sup>, Alain Michalowicz, Higor Favarim, Alexandre Mesquita, Stephanie Behin; <sup>1</sup>Universidade de São Paulo - Eesc/ifsc/iqsc

10:15 - **N4.3**

**Crystal structure determination of propylthiouracil by means of high-resolution synchrotron X-ray powder diffraction data**

Fabio Furlan Ferreira<sup>1</sup>, Antonio Carlos Trindade, Selma Gutierrez Antonio, Carlos O. Paiva-Santos; <sup>1</sup>Universidade Federal do Abc

### SESSION N5

11:00 - 12:30 - Room 13

11:00 - **N5.1\***

**Scientific opportunities with PGM- Planar Grating Monochromator beamline at LNLS**

Abner de Siervo<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

11:30 - **N5.2**

**Core-Shell formation and Sulfur Reactivity of Nanoparticles Studied by In-situ XAS and S-XPS**

Jonder Morais, Fabiano Bernardi<sup>1</sup>, Alex Sandre Kilian, Jocenir Boita, Adriana Rodrigues<sup>2</sup>, Maria do Carmo Martins Alves; <sup>1</sup>Lawrence Berkeley National Laboratory, <sup>2</sup>Universidade Federal do Rio Grande do Sul

11:45 - **N5.3**

**Ambient pressure XPS (APXPS) characterization of Rh-Pd/CeO<sub>2</sub> bimetallic nanoparticles under reducing and oxidizing atmospheres**

Fabiano Bernardi<sup>1</sup>, Michael Grass, Naila Jabeen, Young Hong, Rui Chang, Zahid Hussain, Zhi Liu; <sup>1</sup>Lawrence Berkeley National Laboratory

12:00 - **N5.4**

**Local structure of Pb(Fe<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub> and Pb(Fe<sub>2/3</sub>W<sub>1/3</sub>)<sub>1-x</sub>Ti<sub>x</sub>O<sub>3</sub> multiferroic materials probed by X-ray absorption spectroscopy**

Bárbara Maraston Fraygola<sup>1</sup>, Eriton Rodrigo Botero<sup>2</sup>, Alexandre Mesquita, Valmor Roberto Mastelaro<sup>3</sup>, José Antônio Eiras<sup>4</sup>; <sup>1</sup>Universidade Federal de São Carlos, <sup>2</sup>Fundação Universidade Federal da Grande Dourados, <sup>3</sup>Universidade de São Paulo - Eesc/ifsc/iqsc, <sup>4</sup>Universidade Federal de São Carlos - Campus: São Carlos

12:15 - **N5.5**

**Luminescence of Ca<sub>2</sub>Al<sub>2</sub>SiO<sub>7</sub>: Ce<sup>3+</sup>, Mn<sup>2+</sup>**

Veronica de Carvalho Teixeira<sup>1</sup>, Paulo Jorge Ribeiro Montes, Mario Ernesto Valerio<sup>1</sup>; <sup>1</sup>Universidade Federal de Sergipe

## POSTER PRESENTATIONS

### MONDAY, SEPTEMBER 26TH

#### SESSION SP1

16:00 - 18:00 - Exhibition Hall

**SP1-N1 - Influence of optical properties on the photocatalytic activity of ZnO films**

Talita Ströher Bürger<sup>1</sup>, Fabiano Bernardi<sup>2</sup>, Jonder Morais, Maria do Carmo Martins Alves; <sup>1</sup>Federal University Of Rio Grande do Sul, <sup>2</sup>Lawrence Berkeley



National Laboratory

**SP1-N2 - Measurements of photon stimulated desorption for different cleaning processes of materials used for NSLS-II beam chamber**

Marcelo Juni Ferreira<sup>1</sup>, Hsiao-Chaun Hseuh, Rafael Molena Seraphim, Gustavo Rossignatti Gomes; <sup>1</sup>Brookhaven National Laboratory

**SP1-N3 - Synthesis and properties of ZnO: Correlation between structural properties and photocatalytic activity**

Carlos Willian Feltrin, Maria do Carmo Martins Alves, Jonder Morais

**SP1-N4 - Polymorphism characterization of mefloquine hydrochloride by means of X-ray powder diffraction data and the Rietveld method.**

Vânia Mendes Prado<sup>1</sup>, Rafael Seiceira, Antonio Carlos Trindade, Fabio Furlan Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Abc

**SP1-N5 - Analysis of excipients in commercialized pharmaceutical tablets**

Laysa Pires de Figueiredo<sup>1</sup>, Selma Gutierrez Antonio, Carlos Oliveira Paiva-Santos, Fabio Furlan Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Abc

**SP1-N6 - Crystal structure characterization of isoniazid by means X-ray powder diffraction and the Rietveld method**

Amanda Laura Ibiapino<sup>1</sup>, Rafael C Seiceira, Antonio Carlos Trindade, Fabio Furlan Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Abc

**SP1-N7 - Study of crystal structures of albendazole with the use of X-ray powder diffraction**

Kelly Cristina de Lira Lixandrao<sup>1</sup>, Fabio Furlan Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Abc

**SP1-N8 - Diamond film growth on copper substrates coated by chromium interlayer with high nucleation density for a study on photon stimulated desorption**

Kenya Aparecida Alves<sup>1</sup>, Evaldo José Corat, João Roberto Moro, Vladimir José Trava-Airoldi, Raonei Alves Campos; <sup>1</sup>Instituto Nacional de Pesquisas Espaciais

**SP1-N9 - Crystal structure determination of two polymorphic forms of rifampicin by means of high-resolution synchrotron X-ray powder diffraction data**

Mariana Cristina Pires do Amaral<sup>1</sup>, Rafael Seiceira, Antonio Carlos Trindade, Fabio Furlan Ferreira<sup>2</sup>; <sup>1</sup>Fundação Universidade Federal do Abc, <sup>2</sup>Universidade Federal do Abc

**SP1-N10 - Crystal structure characterization of raw materials and tablets of stavudine using X-ray**

**powder diffraction data**

Wagner Jose Odilon<sup>1</sup>, Rafael Seiceira, Antonio Carlos Trindade, Fabio Furlan Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Abc

**SP1-N11 - Observation of the structural phase transition of lanthanum perovskite precursors by two-dimensional correlation analysis of X-ray Absorption Near Edge Structure spectra and Raman Spectra.**

Glauber Silva Godoi, Renato Canha Ambrosio, Rodolfo Junqueira Brandão

**SP1-N12 - Biomedical Application of Synchrotron X-ray Microfluorescence Imaging**

Inaya Lima<sup>1</sup>, Gabriela Ribeiro Pereira, Jose Mauro Granjeiro, Monica Calasans-Maia, Alexandre Malta Rossi, Carlos Perez, Ricardo Tadeu Lopes; <sup>1</sup>Universidade Federal do Rio de Janeiro

**SP1-N13 - Study of structural materials using in situ synchrotron x-ray diffraction**

Leonardo Wu<sup>1</sup>, Antonio J. Ramirez<sup>1</sup>, Augusta Cerceau Isaac, Thaís Cristina Alonso; <sup>1</sup>Brazilian Nanotechnology National Laboratory

**SP1-N14 - Electronic structure of TPD and NPB molecules by NEXAFS spectroscopy**

Carlos Xavier de Oliveira<sup>1</sup>, Gunar Vingre da Silva Mota, Antônio Maia de Jesus Chaves Neto, Maria Luiza de Miranda Rocco, Marco Cremona, Welber Gianini Quirino; <sup>1</sup>Universidade Federal do Pará

**SP1-N15 - Phase evolution of iron oxide studied by synchrotron X-ray powder diffraction**

Flavio Leandro Souza, Allan Moreira Xavier, Lucas Costa de Castro Ferraz, Vitor Alexandre Nunes de Carvalho, Fabio Furlan Ferreira<sup>1</sup>; <sup>1</sup>Universidade Federal do Abc

**SP1-N16 - GISAXS characterization of buried Pb nanoparticles**

Dario Ferreira Sanchez, F. P. Luce, F. Kremer, Z. E. Fabrim, Frâncio Souza Berti Rodrigues, Gustavo de Medeiros Azevedo<sup>1</sup>, Guinther Kellermann<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Sul, <sup>2</sup>Universidade Federal do Paraná

**SP1-N17 - The Rietveld method and quantitative phase analysis. Problems of sampling in the study of polymorphism in raw materials of drugs.**

Carlos Oliveira Paiva-Santos, Selma Gutierrez Antonio, Fabio Furlan Ferreira

**SP1-N18 - Crystallite size changes after micronization in prednicarbate pharmaceutical.**

Flavio Machado de Souza Carvalho, Selma Gutierrez Antonio, Carlos Oliveira Paiva-Santos, Jivado Rosário Mattos, Hélio Salvio Neto

## SYMPOSIUM O

### 1st Brazilian Symposium in Friction Stir Welding and Processing

#### Chairs

Antonio J. Ramirez (Nanotechnology National Laboratory)  
Fernando Fernandez (Embraer)  
Maysa Terada (Nanotechnology National Laboratory)

## ORAL PRESENTATIONS

\* Invited Lecture

### MONDAY, SEPTEMBER 26TH

#### SESSION O1

09:30 - 10:30 - Room 22

09:30 - O1.1\*

**Precipitation Phenomena in AA7449 Friction Stir Welds: an in-situ Study**

Jorge Dos Santos

10:00 - O1.2

**Friction Stir Welding for bird impact applications**

Andreza Sommerauer Franchim Viliotti<sup>1</sup>, Fernando Ferreira Fernandez<sup>1</sup>, Marcos Hideki

Miyazaki<sup>1</sup>; <sup>1</sup>Embraer

10:15 - O1.3

**An Indirect Method for calculate weld residual stresses via fatigue crack growth test data and comparison**

Julio Antonio Beltrami da Silva<sup>1</sup>, Edson Haruo Miyaura, Renato Pavanello; <sup>1</sup>Universidade Estadual de Campinas

#### SESSION O2

11:00 - 12:30 - Room 22

11:00 - O2.1\*

**Friction Stir Welding in Oil and Gas Applications**

Russell J Steel, Murray Mahoney, Jeremy Peterson, Sam Sanderson, Paul Higgins, Scott Packer

11:30 - O2.2

**Repair of cracks through Friction Taper Plug Welded**

Emanoela Mattos, Cleber Lessa, Pedro Cunha, Gabriel

Cogo, Márcio Macedo, Marcelo T.p. Paes, Afonso Reguly

11:45 - O2.3

**Microstructural study of Inconel 625 to low carbon steel lap joint by friction stir welding**

Johnnatan Rodríguez<sup>1</sup>, Antonio J.

Ramirez<sup>2</sup>; <sup>1</sup>Laboratório Nacional de Luz

Sincrotron, <sup>2</sup>Brazilian Nanotechnology National Laboratory

12:00 - O2.4

**FEM modeling of titanium thin sheet joining with FSW processing**

Adalto de Farias, Gilmar Ferreira Batalha, Sérgio

Delijaicov, Marco Stipkovic Filho

12:15 - O2.5

**Friction stir welding of duplex stainless steel**

Antonio J. Ramirez<sup>1</sup>, Tiago F.a. Santos; <sup>1</sup>Brazilian Nanotechnology National Laboratory

#### SESSION O3

15:00 - 16:00 - Room 22

15:00 - O3.1

**Mechanical Behavior of AA2024-T3 Friction Spot Welds**

José Antonio Esmerio Mazzaferro<sup>1</sup>, Tonilson de Souza Rosendo<sup>2</sup>, Cintia Petry Mazzaferro, Marco Antonio

Durlo Tier, Telmo Roberto Strohaecker, Jorge Dos

Santos; <sup>1</sup>Universidade Federal do Rio Grande do

Sul, <sup>2</sup>Fundação Universidade Federal do Pampa

15:15 - O3.2

**Development of Industrial Applications for Friction Stir Welding**

Brian Thompson, Jon Jennings, Tim Stotler

15:30 - O3.3

**The optimization of FSSW parameters for tensile resistance on AA2024 lap-joints.**

Artur Mariano de Sousa Malafaia<sup>1</sup>, Marcelo Tadeu

Milan, Gustavo Monteiro Dias, Marcelo Falcão de

Oliveira, Dirceu Spinelli; <sup>1</sup>Interunidades - Materiais -

Eesc/ifsc/iqsc

15:45 - O3.4

**Investigation of the Mechanical Performance of FSpW Joints in AA6181-T4 Under Shear Tensile Loading**

Tonilson de Souza Rosendo<sup>1</sup>, Marco Antonio Durlo

Tier, José Antonio Esmerio Mazzaferro<sup>2</sup>, Cintia

Mazzaferro, Antonio Monaco da Silva, Jorge Dos

Santos, Afonso Reguly; <sup>1</sup>Fundação Universidade

Federal do Pampa, <sup>2</sup>Universidade Federal do Rio

Grande do Sul

**TUESDAY, SEPTEMBER 27TH**

**SESSION O4**

**09:30 - 10:30 - Room 22**

**09:30 - O4.1\***

**Friction Stir Welding of X70 and X80 Steel**

Brian Thompson, John Seaman, Mike Eff

**10:00 - O4.2**

**Friction stir welding of highly alloyed ISO 3183 X80M steel for application in oil and natural gas pipelines - Insight into the microstructural evolution**

Antonio J. Ramirez<sup>1</sup>, Tahiana F.c. Hermenegildo, Tiago F.a. Santos, Conrado Ramos Moreira Afonso<sup>2</sup>, Ricardo R. Marinho, Marcelo T.p. Paes; <sup>1</sup>Brazilian Nanotechnology National Laboratory, <sup>2</sup>Universidade Federal de São Carlos

**10:15 - O4.3**

**Friction stir spot welding of advanced high strength steel**

Cintia Petry Mazzaferro, Tonilson de Souza Rosendo<sup>1</sup>, Marco Antonio Durlo Tier, José Antonio Esmerio Mazzaferro<sup>2</sup>, Jorge Dos Santos, Telmo Roberto Strohaecker; <sup>1</sup>Fundação Universidade Federal do Pampa, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SESSION O5**

**11:00 - 12:30 - Room 22**

**11:00 - O5.1\***

**Recent FSW developments**

Jonathan Martin<sup>1</sup>; <sup>1</sup>Twi Technology Centre

**11:30 - O5.2**

**Friction Taper Plug Welding - Aeronautic application**

Marcos Hideki Miyazaki<sup>1</sup>; <sup>1</sup>Embraer

**11:45 - O5.3**

**Dissimilar aluminum-steel joining by FSW Thermal history and microstructural characterization**

Edwar Andres Torres<sup>1</sup>, Antonio J. Ramirez<sup>2</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron, <sup>2</sup>Brazilian Nanotechnology National Laboratory

**12:00 - O5.4**

**Mechanical properties comparison of friction stir welding butt joints of AA1100 made in a conventional milling machine and a FSW machine**

Julio César Zapata<sup>1</sup>, Julián Valderrama, Elizabeth Hoyos, Diana María López; <sup>1</sup>Universidad Nacional de Colombia

**12:15 - O5.5**

**Proposal of a network for R&D on Friction Stir Processing**

Fernando Ferreira Fernandez<sup>1</sup>; <sup>1</sup>Embraer

**POSTER PRESENTATIONS**

**MONDAY, SEPTEMBER 26TH**

**SESSION SP1**

**16:00 - 18:00 - Exhibition Hall**

**SP1-O1 - Research on tooling materials for titanium FSW processing**

Adalto de Farias, Gilmar Ferreira Batalha, Sérgio Delijaicov, Marco Stipkovic Filho

**SP1-O2 - Investigation of superplasticity in a friction stir processed 5054 Al alloy**

Gelson Freitas Miori, Erika Fernanda Prados<sup>1</sup>, Gilmar Ferreira Batalha; <sup>1</sup>Escola Politécnica da Universidade de São Paulo

**SP1-O3 - Equipments for friction welding procedure development**

Facundo Sebastián López<sup>1</sup>, Fabiano Mattei, Telmo Roberto Strohaecker; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP1-O4 - Investigation of Mechanical Properties of AA2024 Welded by Friction Stir Spot Welding – Refill Process**

Marco Antonio Durlo Tier, Tonilson de Souza Rosendo<sup>1</sup>, José Antonio Esmerio Mazzaferro<sup>2</sup>, Cintia Mazzaferro, Telmo Roberto Strohaecker, Jorge Dos Santos; <sup>1</sup>Fundação Universidade Federal do Pampa, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP1-O5 - FSSW feasibility and properties in DP600 steel.**

Artur Mariano de Sousa Malafaia<sup>1</sup>, Marcelo Tadeu Milan, Marcelo Falcão de Oliveira; <sup>1</sup>Interunidades - Materiais - Eesc/ifsc/iqsc

**SP1-O6 - Physical simulation of friction stir welding on UNS S32205 duplex stainless steel**

Eduardo Bertoni Fonseca<sup>1,2</sup>, Tiago F.a. Santos, Sergio Tonini Button, Antonio J. Ramirez<sup>2</sup>; <sup>1</sup>Brazilian Nanotechnology National Laboratory, <sup>2</sup>State University Of Campinas

**SP1-O7 - Thermal modeling of dissimilar aluminum-steel joints welded by FSW**

Hugo Sakai Idagawa<sup>1</sup>, Edwar Andres Torres<sup>1</sup>, Antonio J. Ramirez<sup>2</sup>; <sup>1</sup>Laboratório Nacional de Luz Síncrotron, <sup>2</sup>Brazilian Nanotechnology National Laboratory

**SP1-O8 - Microstructural characterization of X70**

**steel underwater friction stir welded**

Maysa Terada<sup>1</sup>, Antonia Daniele S. Bruno Costa<sup>2</sup>, Victor F. Pereira, Ricardo R. Marinho, Marcelo T.p. Paes, Antonio J. Ramirez<sup>3</sup>; <sup>1</sup>Laboratório Nacional de Nanotecnologia, <sup>2</sup>Universidade Federal do Ceará, <sup>3</sup>Brazilian Nanotechnology National Laboratory

**SP1-O9 - Friction Stir Welding for pressurized aircraft structure**

Andreza Sommerauer Franchim Viliotti<sup>1</sup>, Marcos Hideki Miyazaki<sup>1</sup>, Fernando Ferreira Fernandez<sup>1</sup>; <sup>1</sup>Embraer

**SP1-O10 - Correlation of microstructure and corrosion behaviour of friction stir welded duplex stainless steel**

Marina Magnani<sup>1</sup>, Raquel Rolim Menezes de Queiroz, Maysa Terada<sup>2</sup>, Tiago F.a. Santos, Antonio J. Ramirez<sup>2</sup>; <sup>1</sup>Brazilian Nanotechnology National Laboratory, <sup>2</sup>Laboratório Nacional de Nanotecnologia

**SP1-O11 - A brief analysis of repairs made with hydropillar welding and related processes**

Pedro Pereira da Cunha

Alves; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Inmetro

**10:15 - P1.3****Edge-Functionalized All-Graphene Nano-Junctions**

Caterina Cocchi, Deborah Prezzi, Alice Ruini, Elisa Molinari, Marília J. Caldas

**SESSION P2****11:00 - 12:30 - Room 11****11:00 - P2.1\*****Monolayer and Bilayer Graphene in****Nanoelectronics: Ab initio Investigations**

Adalberto Fazzio, Antônio José Roque da Silva, José Eduardo Padilha de Souza, Matheus Paes Lima, Renato Borges Pontes, Roberto Hiroki Miwa, Tomé Mauro Schmidt

**11:30 - P2.2\*****Theory of double-resonant Raman spectra in graphene: intensity and line shape of defect-induced and two-phonon bands**

Pedro Venezuela

**12:00 - P2.3****Graphene combined scaffold for tissue engineering.**

Bianca Palma Santana<sup>1</sup>, Rogério Almeida Gouvêa<sup>1</sup>, Fernanda Nedel, Sergio da Silva Cava, Evandro Piva, Flávio Fernando Demarco, Neftalí Lenin Villarreal Carreño; <sup>1</sup>Universidade Federal de Pelotas

**12:15 - P2.4****Dynamics of graphene nanodrums: an atomistic molecular dynamics study**

Gustavo Brunetto, Sergio Benites Legoas, Vitor Rafael Coluci, Liacir Dos Santos Lucena, Douglas Soares Galvão

**SYMPOSIUM P****Graphene**Chairs

Luiz Gustavo Cançado (Departamento de Física – UFMG)

Ado Jorio (Departamento de Física – UFMG)

**ORAL PRESENTATIONS**

\* Invited Lecture

**MONDAY, SEPTEMBER 26TH****SESSION P1****09:30 - 10:30 - Room 11****09:30 - P1.1\*****Electronic properties of free-standing graphene at low energies.**

Daniel Cunha Elias<sup>1</sup>; <sup>1</sup>University Of Manchester

**10:00 - P1.2****Hysteresis in the Resistance of a Graphene Device Induced by Charge Modulation in the Substrate**

Juliana Caldeira Brant<sup>1</sup>, Jorge Leon, Tiago Campolina Barbosa<sup>1</sup>, Eduardo Nery Araújo<sup>1</sup>, Bráulio Soares Archanjo<sup>2</sup>, Flávio Plentz, Elmo Salomão

**SESSION P3****15:00 - 16:00 - Room 11****15:00 - P3.1\*****Electronic, Magnetic and Optical Properties of Graphene-Related Systems**

Rodrigo B Capaz

**15:30 - P3.2\*****Characterizing Graphene by Resonance Raman Scattering**

Marcos Assunção Pimenta, Ariete Righi, Sara D Costa, Daniela L Mafra, Amanda O Coimbra, Leandro M Malard, Cristiano Fantini

**TUESDAY, SEPTEMBER 27TH****SESSION P4****09:30 - 10:30 - Room 11**

**09:30 - P4.1\***

**Using Raman spectroscopy and Electron Microscopy as metrological tools in the study of graphene and other carbon nanostructures**

Carlos Alberto Achete<sup>1</sup>; <sup>1</sup>Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

**10:00 - P4.2**

**STM observation of superstructures caused by rotation of graphene subsurface layers**

Eduardo E Cisternas<sup>1</sup>, Marcos Flores; <sup>1</sup>Universidad de La Frontera

**10:15 - P4.3**

**Production of Micro and Nano Contacts for Grapheme by Scanning Near Field Optical Lithography**

Mariana Pojar<sup>1</sup>, Luis E. Gomez Armas<sup>1</sup>, Antonio Domingues Santos<sup>2</sup>, Antonio Carlos Seabra; <sup>1</sup>Polytechnic School At Universidade de São Paulo (Usp), <sup>2</sup>Instituto de Física

### SESSION P5

**11:00 - 12:30 - Room 11**

**11:00 - P5.1\***

**Modifying the electronic properties of graphene and planar boron nitride through alloying and adsorbate deposition**

Hélio Chacham<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

**11:30 - P5.2\***

**Characterization and manipulation of graphene via scanning probe microscopy techniques**

Bernardo Ruegger Almeida Neves

**12:00 - P5.3**

**Room - Temperature Compression-Induced Diamondization of Few-Layer Graphene**

Ana Paula Moreira Barboza<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

**12:15 - P5.4**

**Raman scattering investigation of nanomanipulated individual carbon nanotube serpentines**

Newton Martins Barbosa Neto<sup>1</sup>, Paulo Antonio Trindade Araújo, Jaqueline Santos Soares, Lucas Maciel Mussnich, Hélio Chacham<sup>1</sup>, Luiz Gustavo Cancado<sup>1</sup>, Ado Jorio; <sup>1</sup>Universidade Federal de Minas Gerais

### WEDNESDAY, SEPTEMBER 28TH

#### SESSION P6

**09:30 - 10:30 - Room 11**

**09:30 - P6.1\***

**Raman spectroscopy in graphene and graphite under magnetic fields**

Eduardo Granado<sup>1</sup>; <sup>1</sup>Universidade Estadual de Campinas

**10:00 - P6.2**

**Study of Junctions Between Graphene Nanoribbons**

Frederico Ramos Fioravante<sup>1</sup>, Ricardo Wagner Nunes, Hélio Chacham<sup>1</sup>; <sup>1</sup>Universidade Federal de Minas Gerais

## POSTER PRESENTATIONS

### TUESDAY, SEPTEMBER 27TH

#### SESSION SP2

**14:00 - 16:00 - Exhibition Hall**

**SP2-P1 - Carbon and its monatomic chains, showing the graphene.**

Tarcísio Santiago Gomes Filho<sup>1,2</sup>, Kaline Muriel de Figueiredo Gomes; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Companhia do Desenvolvimento Dos Vales do São Francisco E Parnaíba

**SP2-P2 - Easy deposition of ITO and Magnetite Nanoparticles on Graphene Oxide Sheets**

Edney Geraldo da Silveira Firmiano<sup>1</sup>, Cleocir José Dalmaschio, Antonio Narciso Pinheiro, Edson Roberto Leite; <sup>1</sup>Universidade Federal de São Carlos

**SP2-P3 - DFT simulations of defective graphene nanoribbons**

Vivian Machado de Menezes<sup>1</sup>, Solange Binotto Fagan; <sup>1</sup>Universidade Federal de Santa Maria

**SP2-P4 - Synthesis and characterization of CeO<sub>2</sub>-Graphene composite.**

Mauro Francisco Pinheiro da Silva<sup>1</sup>, Heloisa Cristina da Costa<sup>1</sup>, Eduardo Rezende Triboni<sup>2</sup>, Mário José Politi, Paulo Celso Isolani; <sup>1</sup>Universidade de São Paulo, <sup>2</sup>Institute Of Chemistry

**SP2-P5 - Tuning Optical spectrum in twisted graphene bilayers by external electric fields**

Julian David Correa<sup>1</sup>, Eric Suárez, Monica Pacheco, Patricio Vargas; <sup>1</sup>Universidad Andrés Bello

**SP2-P6 - Analysis of thermal expansion of graphite expanded with hydrogen peroxide**

Luiz Gilberto Konrath Júnior<sup>1</sup>, Gian Paganotto, Gabriela Bastos Bastos, Marco Aurelio Farias da Silva, Rogério Almeida Gouvêa<sup>2</sup>, Sergio da Silva Cava, Ricardo Marques E Silva<sup>2</sup>; <sup>1</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, <sup>2</sup>Universidade Federal de

Pelotas

**SP2-P7 - Nanomaterials obtained by high pressure and high temperature processing of Aerosil R812S**

Antonio López Villanueva<sup>1</sup>, Naira Maria Balzaretto<sup>2</sup>, João Alzira Jornada; <sup>1</sup>Institute Of Physics - Ufrgs, <sup>2</sup>Universidade Federal do Rio Grande do Sul

**SP2-P8 - Study of graphene superlattice by Raman spectroscopy**

Victor Carozo, Clara Muniz Almeida, Erlon Henrique Martins Ferreira, Benjamin Fagneaud, Luiz Gustavo Cancado<sup>1</sup>, Ado Jorio, Carlos Alberto Achete<sup>2</sup>; <sup>1</sup>Universidade Federal de Minas Gerais, <sup>2</sup>Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

**SP2-P9 - Influence of substrates on the synthesis of graphene**

Felipe Ferreira Lima Bitencourt<sup>1</sup>, Ana Champi, Luis Torres Quispe<sup>2</sup>; <sup>1</sup>Fundação Universidade Federal do Abc, <sup>2</sup>Universidade Federal do Abc

**SP2-P10 - Producing a modulating potencial on graphene using a porous anodic alumina templates as an evaporation mask**

Eduardo Nery Araújo<sup>1</sup>, Elmo Salomão Alves; <sup>1</sup>Universidade Federal de Minas Gerais

**SP2-P11 - Graphene oxide interfacial layer and ZnO-covered TiO<sub>2</sub> electrodes to reduce the charge recombination in dye-sensitized solar cells**

Juho Kim<sup>1</sup>, Jong Wook Huh, Sung Ryong Kim; <sup>1</sup>Chungju National University

**SP2-P12 - Obtaining carbon nanostructures from wood industry remains**

Ananda Morais Barbosa<sup>1</sup>, Margarete Regina Freitas Gonçalves, Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño, Ricardo Marques E Silva<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

**SP2-P13 - Investigation of graphene nanosheets stable suspensions, and graphene films obtained by spin coating technique**

Viviane F. Soares, Paulo Sergio de Paula Herrmann<sup>1</sup>, Alexandra Manzoli<sup>1</sup>, Marcelo L Simões; <sup>1</sup>Embrapa Instrumentação

**SP2-P14 - Study of nanocarbon materials suspensions by thermal lens technique**

Elaine Carvalho, Lyane Costa, Daniel Maria, Clascídia A. Furtado, Indhira Oliveira Maciel<sup>1</sup>, Maria José Valenzuela Bell, Virgílio Anjos; <sup>1</sup>Universidade Federal de Juiz de Fora

**SP2-P15 - Study and Application of Graphite Nanosheets in Polymers**

Fabio Rocha Bohns<sup>1</sup>, Bruno Silveira

NoreMBERG<sup>1</sup>; <sup>1</sup>Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

**SP2-P16 - Graphene Modification with Gold Nanoparticles using the Gas aggregation technique**

Luis E. Gomez Armas<sup>1</sup>, Manuel Fernando Gonzalez, Ana Champi, Mariana Pojar<sup>1</sup>, Antonio Carlos Seabra, Antonio Domingues Santos<sup>2</sup>, Henrique E. Toma; <sup>1</sup>Polytechnic School At Universidade de São Paulo (Usp), <sup>2</sup>Instituto de Física

**SP2-P17 - Effect of Schottky barrier on the transport properties of few layer Graphene transistors**

Luis E. Gomez Armas<sup>1</sup>, Manuel Fernando Gonzalez, Mariana Pojar<sup>1</sup>, Antonio Carlos Seabra, Antonio Domingues Santos<sup>2</sup>, Marcio V. Valle, Ana Champi; <sup>1</sup>Polytechnic School At Universidade de São Paulo (Usp), <sup>2</sup>Instituto de Física

**SP2-P18 - Graphene Dispersion in Aqueous Solution of Deoxycholate Sodium Salt**

Jefferson Patrício Nascimento<sup>1</sup>, Mateus Lopes Angelo, João Paulo Coelho<sup>1</sup>, Geraldo Magela Trindade<sup>2</sup>, Fernanda Vieira, Adelina Pinheiro Santos, Clascídia A. Furtado; <sup>1</sup>Centro de Desenvolvimento da Tecnologia Nuclear, <sup>2</sup>Empresa Nacional de Grafite Ltda

**SP2-P19 - The effects of reduction time on thermal conductivity of PS/Graphene composites**

Sung Ryong Kim, Juho Kim<sup>1</sup>, Jong Wook Huh; <sup>1</sup>Chungju National University

**SP2-P20 - Study of magnetic properties of graphene and graphite nano-sheets, obtained by thermo-mechanical and micro-mechanical exfoliation**

Luis Torres Quispe<sup>1</sup>, Ana Champi; <sup>1</sup>Universidade Federal do Abc

**SP2-P21 - Electronical properties of few layer graphene samples, using STM techniques.**

Francisco José Fontelles Obelenis<sup>1</sup>, Ana Champi; <sup>1</sup>Fundação Universidade Federal do Abc

**SP2-P22 - Suspended Graphene on TEM Grids and Field-Emission Graphene Devices**

Tiago Campolina Barbosa<sup>1</sup>, Juliana Caldeira Brant<sup>1</sup>, Eduardo Nery Araújo<sup>1</sup>, Flávio Plentz, Elmo Salomão Alves; <sup>1</sup>Universidade Federal de Minas Gerais

**SP2-P23 - The Influence of the natural graphite particle size on obtaining graphite oxide**

Geraldo Magela Trindade<sup>1</sup>, Clascídia A. Furtado, Fernanda Vieira; <sup>1</sup>Empresa Nacional de Grafite Ltda

**SP2-P24 - A Metrological study of Graphene Annealing**

Carolina Paz Garin

**SP2-P25 - Characterization of hexagonal Boron Nitride layers with Electric Force Microscopy**  
Camilla Karla Brites Queiroz Martins Oliveira<sup>1</sup>,  
Matheus Josué de Souza Matos, Mário Sérgio de  
Carvalho Mazzoni, Hélio Chacham<sup>1</sup>, Bernardo  
Ruegger Almeida Neves; <sup>1</sup>Universidade Federal de  
Minas Gerais

## SYMPOSIUM Q

### Advanced Materials

## POSTER PRESENTATIONS

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3

16:00 - 18:00 - Exhibition Hall

**SP3-Q1 - Polymer fibers as option to structures reinforcement**

Tarcísio Santiago Gomes Filho<sup>1,2</sup>, Edilberto Vitorino de Borja, Valtencir Lúcio de Lima Gomes, Kaline Muriel de Figueiredo Gomes; <sup>1</sup>Universidade Federal do Rio Grande do Norte, <sup>2</sup>Companhia do Desenvolvimento Dos Vales do São Francisco E Parnaíba

**SP3-Q2 - Mechanical and morphological properties of PP/MMT nanocomposites to orange juice packaging**

Gislene Zehetmeyer<sup>1</sup>, Ricardo Vinicius Bof de Oliveira; <sup>1</sup>Federal University Of Rio Grande do Sul  
**SP3-Q3 - Effect of mixture of INITIATORS in the Bimolecular nitroxide mediated radical polymerization (NMRP) TO obtain controlled structure Polystyrene**

Caroline Paganucci Dos Reis Malere, Liliane M.f. Lona

**SP3-Q4 - Study of Thermal Analysis and Incorporation of 5-Fluorouracil in the Metal Organic Framework Cu- BTC-MOF**

Flávia Raquel Lucena<sup>1</sup>, Silene Carneiro do Nascimento, Severino Alves Junior; <sup>1</sup>Universidade Federal de Pernambuco

**SP3-Q5 - Living Free Radical Polymerization in Solution for the production of Monodisperse Polystyrene**

Francini Gonçalves Manzato<sup>1</sup>, Liliane M.f. Lona; <sup>1</sup>Universidade Estadual de Campinas

**SP3-Q6 - Utilization of kaolin and quartzite reject**

**by manufacturing of ceramic parts**

Lívia Cristina de Oliveira Felipe<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP3-Q7 - Modeling the Kinetics of Phase Transformations Using Dilatometry Tests in Common Carbon Steel**

Reinaldo Cesar<sup>1</sup>, João Manuel Domingos de Almeida Rollo; <sup>1</sup>Universidade de São Paulo

**SP3-Q8 - Sodium saturated brazilian clay: Synthesis and characterization of clay for removal of heavy metal**

Ana Lucia Pereira de Araujo<sup>1</sup>, Meuris Gurgel Carlos da Silva, Marcelino Luiz Gimenes, Maria Angelica Simões Dornellas de Barros; <sup>1</sup>Universidade Estadual de Campinas

**SP3-Q9 - Characterization of solids originating from the Fenton's process**

Ana Lucia Pereira de Araujo<sup>1</sup>, Celia Regina Granhen Tavares, Eneida Sala Cossich; <sup>1</sup>Universidade Estadual de Campinas

**SP3-Q10 - Manufacture of composite from carbonized fiber of chicken feather and polyester resin.**

Débora Damasceno Belarmino, Rasiah Ladchumananandasivam, Alcione Olinto Galvão<sup>1</sup>, Sânia Maria Belísio Andrade<sup>1</sup>, Luciene Mendes Ribeiro; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP3-Q11 - Finite Element Modeling of Sandwich Structure Composite for the Passive Control of Vibration**

Adriana Amaro Diacenco, Antônio Gonçalves de Lima, Edmilson Otoni Corrêa

**SP3-Q12 - Polypropylene and Hydrogenated Hydrocarbon Resin Blends: Preparation, Characterization and Properties.**

Marlon Wesley Maciel da Costa<sup>1</sup>, Suel Eric Vidotti, Karine Sousa de Oliveira; <sup>1</sup>Universidade Federal do Abc

**SP3-Q13 - Quasicrystal Geopolymer Interface**

Maria Bandeira Barroso, Severino Jackson Guedes Lima, Sandro Marden Torres, Silvana Garcia Viana, Roosevelt Cristiano A Silva

**SP3-Q14 - Evaluation of the material influence and performance in the preliminary design of gas turbines combustion chambers**

Ary Leonídio do Carmo Assunção<sup>1</sup>, Edson Batista da Silva, Leandro Marochio Fernandes, Romulo Bessi Freitas; <sup>1</sup>Instituto Tecnológico de Aeronáutica

**SP3-Q15 - Study of thermal analyses in accelerated degradation tests of building system of ceramic**

## tiles

Elidio Angioletto, Marcio Roberto da Rocha, Fernando Pelisser, Daniel Magagnin, Jorge Henrique Piva, Mauricio Scarpato, Elcio Angioletto

**SP3-Q16 - Bio-composite Development with the Incorporation of Flame Retardant**

Luciene Mendes Ribeiro, Rasiah Ladchumananandasivam, Alcione Olinto Galvão<sup>1</sup>, Débora Damasceno Belarmino, Sânia Maria Belísio Andrade<sup>1</sup>; <sup>1</sup>Universidade Federal do Rio Grande do Norte

**SP3-Q17 - Study of diamond graphitization during sintering**

Luciano José Oliveira, Matheus Paes Peçanha, Marcello Filgueira

**SP3-Q18 - Morphological analysis of natural rubber membranes with metallic nanoparticles using wavelet transform**

Alexandre Fioravante de Siqueira<sup>1</sup>, Messias Meneguette Junior, Aldo Eloizo Job; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

**SP3-Q19 - Development of geopolymers from coal bottom ash alkaline activation**

Rozineide A. Antunes Boca Santa<sup>1</sup>, Adriano Michael Bernardin, Humberto Gracher Riella, Nivaldo Cabral Kuhnen; <sup>1</sup>Universidade Federal de Santa Catarina

**SP3-Q20 - Study of Complexation of Molybdenum in Citric Acid**

Antonio Narciso Pinheiro, Cleocir José Dalmaschio, Edson Roberto Leite

**SP3-Q21 - Dry to wet foams: scaling states and growth law**

Ismael Fortuna<sup>1</sup>, Gilberto Lima Thomas, Rita Maria Cunha de Almeida, François Graner; <sup>1</sup>Universidade Federal do Rio Grande do Sul

**SP3-Q22 - Polymerization of ethylene in multiblocks with a post-metallocene catalyst mixture**

Roberto de Souza Martins<sup>1</sup>, Maria de Fátima Vieira Marques<sup>2</sup>; <sup>1</sup>Universidade Federal do Rio de Janeiro, <sup>2</sup>Macromolecules Institute - Federal University Of Rio de Janeiro

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Simone Fontana Pereira<sup>1</sup>, Elias Hage Junior; <sup>1</sup>Universidade Federal de São Carlos

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Agmar José de Jesus Silva<sup>1</sup>, Marysílvia Ferreira da

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Rondinelli Donizetti Herculano<sup>1</sup>, Cecília Pereira Silva, Alvaro A A de Queiroz, Lee Cheen Tzu, Angela Kinoshita, Carlos Alberto Brunello, Carlos Fo Graeff; <sup>1</sup>Universidade Estadual Paulista "Júlio de Mesquita Filho"

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Guillermo Van Erven Cabala<sup>1</sup>, Wilson

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Ana Cláudia Araújo	SP3-F128	Ana Maria Maliska	SP1-D12, SP1-D36, SP3-D136
Ana Cláudia da Silva Valentim	SP3-F133	Ana Maria Pires	SP1-C20, SP2-F91, SP3-F177, SP3-I125, SP3-L244
Ana Cláudia de Oliveira Hirschmann	H5.3	Ana Maria Rocha Senos	SP2-F75, SP3-F144
Ana Claudia Pavarina	SP2-K74	Ananda Morais Barbosa	SP2-P12
Ana Claudia Tasinaffo Alves	SP1-K49	Ana Paula Aguiar de Mendonça	SP1-A60, SP1-A68, SP2-A77
Ana Cristina Figueiredo de Melo Costa	SP1-A24, SP2-A121, SP2-A99	Ana Paula Azevedo Marques	SP2-L116
Ana Cristina Honorato Castro	SP2-D81, SP3-D157	Ana Paula Dantas de Lima	SP2-B102
Ana Cristina Pinheiro	B6.1	Ana Paula de Moura	SP1-F42, SP1-L53, SP1-L60, SP1-L62, SP2-L172, SP2-L174, SP3-L211, SP3-L213
Ana Cristina Tolentino Cabral	SP2-L120, SP2-L121	Ana Paula Moreira Barboza	P5.3
Ana Doris de Castro	SP1-B15	Ana Paula Pereira Santos	SP2-B100, SP2-B99
Ana Flavia Camara Bezerra	SP2-L173	Ana Paula Peres	SP2-D102
Ana Flávia Pattaro	SP1-L47	Ana Paula Rosifini Alves Claro	SP2-D61, SP3-D164, SP3-D166, SP3-D172, SP3-L247
		Ana Paula Schwarz	SP3-G25
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Ana Paula Solymossy	SP2-I17	Andre Assmann	SP1-D34
Ana Paula Souza	K6.2	André Avancini	SP1-A16
Ana Paula Vaz	SP2-D112, SP3-D155	Bernardes	
Ana Rosa Silva Neta	SP3-L231	Andre Avelino Pasa	A3.3, F5.4, K7.4, SP1-C37, SP3-F158
Ana Sofia Clímaco Monteiro D'oliveira	D8.2, SP1-D40, SP1-D42, SP2-D116, SP2-D59	André Brisolari	SP2-K117, SP2-K89, SP3-D171
Anatoliy Nikolaevich Matlakhov	H6.3, SP3-H52, SP3-H53, SP3-H7	André César Bento	SP1-L76, SP1-L78, SP2-L132
Ana Valéria Santos de Lourenço	SP2-I44, SP3-I78	André Esteves Nogueira	SP3-L234
Andersan Santos Paula	H1.1	André Felipe Oliveira	SP3-I96
Anderson André Felix	SP2-F60, SP2-F96, SP2-M20	André Freitas Ribeiro	H5.2
Anderson Augusto Freitas	SP1-A47, SP3-F132, SP3-F169	André Galembeck	H6.4, SP1-F41, SP2-F79, SP2-I27
Anderson Dias	SP1-C51	André Gonçalves Garcia	SP3-J15
Anderson J. Bonon	SP1-L47	André Henrique Rosa	B3.3
Anderson Marcelino Arandas	SP3-L265	Andréia Bagliotti Meneguim	SP2-B80
Anderson Mateus	A5.4, SP1-A18	Andrei Kholkin	SP2-L115
Mendonça Medeiros		Andrei Paulo de Assis	SP1-C15
Anderson Moreira	SP3-D138	Andrei Sakai	SP1-K32, SP2-K64
Anderson O Lobo	SP2-L113, SP2-L114, SP3-D126	André Itman Filho	SP1-D48, SP3-H20
Anderson Orzari Ribeiro	SP1-A61, SP1-F53, SP2-B93, SP3-D132, SP3-I102, SP3-I108, SP3-I112, SP3-I133	André Leonardo Patrício Silva	SP3-I83
Anderson Pires Aires	SP2-M2	André L.I Moriyama	SP1-F47
Anderson Reis Albuquerque	SP3-L220	Andrelson Wellington Rinaldi	SP2-K116, SP2-K123, SP3-F159, SP3-F162, SP3-F172, SP3-F175, SP3-F179, SP3-F184, SP3-I113, SP3-I121, SP3-Q26
Anderson Rodrigues Lima Caires	SP2-K123, SP2-K66, SP2-L124, SP3-Q26	André Luís Marin Vargas	D3.4, SP2-B71
Anderson S. L. Gomes	SP3-D154, SP3-D156	André Luis Pimenta de Faria	SP2-I63
Andrea Anilda Hoffmann da Rocha	SP3-Q44	André Luíz Araújo Caetano	SP3-H13
Andréa de Vasconcelos Ferraz	SP2-L106	Andre Luiz Christoforo	SP2-L127, SP3-F160
Andrea Ferraz	L8.4	André Luiz Costa	SP2-D84
Andrea Ferreira Silva	SP1-K40	André Luiz Fassone Canova	G7.4
André Alexandre Vieira	K2.2	André Luiz Jardim	SP1-D4, SP1-L47, SP2-Munhoz D102
Andrea Macleybiane Gois Tavares	SP3-H50	Andre Luiz Menezes de Oliveira	L5.5, SP2-L136, SP3-L182
Andréa Moreira	J7.4	André Luiz Missio	SP1-B25, SP1-B26
Moutinho		Andre Luiz Pinto	M2.2
Andrea Paesano	SP2-A78, SP2-A79, SP3-L262	André Mesquita Costa	SP1-B38
Andrea Porto	SP2-M3	André Messias Teixeira	SP3-F153, SP3-F154
Andrea Porto Carreiro Campos	M4.1	Andre Moraes	SP1-F27
Andrea Simone Stucchi de Camargo	I7.2, L7.2, SP1-L91	André Murilo de Souza	SP3-D145
		Andre Rezende de Figueiredo Oliveira	SP3-D133

Andresa da Costa Ribeiro	SP2-B78	Anielle Christine Almeida	SP1-F36
Andre S Ferlauto	F3.3, SP3-F152	Silva	
André Sionek	A5.5, SP1-A12	Anna Carolina Oliveira	L6.2, SP2-L127
Andressa Bella Darros	SP2-B103	Mendes	
Andressa de Lima Sievers	SP2-A100, SP2-A96	Anna Christina Medeiros	SP2-B94
Andressa da Cruz	SP2-I15, SP2-I16	Fossati	
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Andrés Vercik	SP1-K30	Schmal	
André Uehara Yogou	H2.3	Anna Paola Trindade	SP1-B38
André Vitor Chaves de	SP2-F99, SP2-L154, SP2-	Rocha Pierucci	
Andrade	L155, SP3-F134, SP3-L185,	Anne Alcantara	SP3-J19
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Andrey Baraban	I1.1	Anne Jacqueline Barbosa	SP1-L26
Andreza Cristina Souza	SP1-C20, SP3-L244	Anne Michele Garrido	SP3-I119, SP3-I98
Silva		Pedrosa de Souza	
Andreza Sommerauer	O1.2, SP1-O9	Anouk Galtayries	SP1-D17
Franchim Viliotti		Anselm C Griffin	SP3-E9
Andrijana Sever Skapin	SP2-F112	Antonia Alice Macêdo	SP3-F128
Andris Figueiroa Bakuzis	A5.2, SP2-A133, SP2-A134	Soares	
Andriy Grafov	SP2-B130, SP2-B87	Antonia Daniele S. Bruno	SP1-O8, SP3-I109, SP3-
Ane Cheila Rovani	SP1-D22, SP1-D23	Costa	L260
Anerise de Barros	SP2-K65	Antonia Flávia Justino	SP3-I101, SP3-I103, SP3-
Angela Beatrice Dewes	SP3-G33	Uchoa	I109
Moura		Antonia Sonia Alves	SP1-C21
Angela Beatriz Coelho	L7.3, SP1-D51, SP2-L143,	Cardoso Diniz	
Arnt	SP2-L148, SP3-H24, SP3-	Antonielly Barbosa	SP1-L41, SP1-L42
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Ângela Elisa Crespi	D2.5, SP1-D24	Antonio Almeida Silva	H1.4
Angela Kinoshita	SP3-Q25	Antonio Augusto Araujo	SP3-D137, SP3-D175
Ángel Alberto Hidalgo	SP1-C10, SP1-K48	Pinto Silva	
Angela Maria Cordeiro de	D2.4	Antonio Augusto Couto	H5.4, SP3-D170
Oliveira		Antonio Augusto Lopes	SP3-Q57
Ângela Otta Mitie	B6.3	Marins	
Kinoshita		Antonio Augusto Malfatti	F7.2, F7.4
Angela Sanches Tardivo	SP2-B112, SP2-B122, SP2-	Gasperini	
Delben	F76	Antônio Augusto Vicente	B6.1
Angel Fidel Vilche Peña	SP3-F144	Antônio Azevedo da	SP3-D123
Angélica Castilho	G8.3	Costa	
Gasparoto		Antonio Brito Silva	H6.4
Angelita Maria Machado	SP2-K124	Antonio Carlos Borin	G6.2
Angelo Danilo Faceto	SP1-K24, SP2-F93	Antonio Carlos Dias	SP3-F191
Angelo Gobbi	F7.4, SP1-D17, SP1-K58	Ângelo	
Angelo Malachias	C2.4, F7.2, F7.4, N4.1	Antonio Carlos Gustaldi	D6.4, SP2-L175
Angelo Marcio Gomes	A4.3	Antonio Carlos	SP1-C27, SP1-C31, SP1-
Angelo Max Silveira de	SP2-A100, SP2-A96	Hernandes	L91, SP2-B112, SP2-F122,
Oliveira			SP2-L162, SP2-L170, SP3-
Angelo Passaro	SP3-J21		L203, SP3-L249
Angus Paul Wilkinson	E6.1	Antonio Carlos Seabra	P4.3, SP1-C44, SP2-P16,
Anibal de Andrade	H7.2		SP2-P17
Mendes Filho		Antonio Carlos Silva da	SP3-G30
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Antonio Carlos Trindade	N4.3, SP1-N10, SP1-N4, SP1-N6, SP1-N9	Antonio Luis Ribera Hermano	SP3-I133
Antonio César Honorato Barreto	SP1-A20, SP1-A21, SP1- A27	Antônio Maia de Jesus Chaves Neto	SP1-N14
Antonio Claret Soares Sabioni	SP3-D146, SP3-D148, SP3- L195	Antonio Marcos H. de Andrade	SP2-A110, SP2-A127, SP2- A88
Antonio Claudio Tedesco	SP2-K74, SP2-K81	Antonio Mario Leal Martins Costa	SP1-F33
Antonio Domingues Santos	A2.5, P4.3, SP2-A102, SP2- A84, SP2-A89, SP2-P16, SP2-P17	Antônio Mário Martins	SP3-L202
Antonio Eduardo da Hora Machado	F8.2, SP2-K126	Antônio Mello	SP1-D29
Antonio Eduardo Martinelli	J7.2, J9.1, SP1-F5, SP1-L11, SP1-L61, SP1-L94, SP2- D63, SP3-L221	Antonio Monaco da Silva	O3.4
Antonio Feteira	SP2-L127	Antonio Narciso Pinheiro	SP2-P2, SP3-Q20
Antonio Gomes Souza Filho	E8.1, SP1-F21	Antônio Oliveira Souza	SP2-A79
Antônio Gonçalves de Lima	SP3-Q11	Antonio Pádua Castello Branco Cunha	B5.2
Antônio Gouveia Souza	L3.4, L5.2, L5.5, SP1-L27, SP1-L28, SP1-L31, SP1- L33, SP1-L88, SP2-B79, SP2-L108, SP2-L110, SP2- L118, SP2-L131, SP2-L135, SP2-L136, SP3-L182, SP3- L206, SP3-L218, SP3-L220, SP3-L226, SP3-L231, SP3- L232	Antonio Reinaldo Cestari	SP3-I122, SP3-I88
Antonio Hortencio Munhoz Jr.	SP3-I114	Antonio Riul Jr.	K5.3, SP1-K39, SP1-K58, SP2-K68
Antonio Jorge Abdalla	H6.2, SP1-D38, SP3-D173, SP3-H2	Antonio Sérgio Bezerra Sombra	SP1-L43, SP3-I109, SP3- L260
Antonio José Cumbane	SP1-L67	Antonio Shigueaki Takimi	SP3-F186
Antonio Jose Felix Carvalho	K3.2, SP1-B22, SP1-B49, SP1-K28, SP1-K37, SP1- K42, SP2-B111, SP2-B116, SP2-B117, SP2-B82	Antonio Tallarico Vicente Adorno	SP3-H25, SP3-H5, SP3-H8, SP3-H9
Antônio José Roque da Silva	P2.1	Antônio Valadão Cardoso	SP2-M7, SP3-L250, SP3- L271
Antônio José Trindade	SP1-K20, SP1-K21	Antonio Vanderlei Dos Santos	SP3-G17, SP3-G18, SP3-G4,
Antonio J. Ramirez	D3.1, M1.1, M1.3, M3.2, M5.4, N2.3, O2.3, O2.5, O4.2, O5.3, SP1-N13, SP1- O10, SP1-O6, SP1-O7, SP1- O8, SP2-M23	Anton Panteleimonov	I1.1
Antonio Lazo	SP3-L273	Aparecido Junior de Menezes	SP1-B50
Antonio López Villanueva	SP2-P7	Aparecido R Coutinho	SP2-I45
Antonio Luciano Seabra Moreira	J7.4, SP3-J9	Argemiro Soares da Silva Sobrinho	D5.5
		Ariadne Cristina Catto	SP1-F20
		Ariadne Helena P. de Oliveira	SP1-F16
		Ariete Righi	P3.2, SP2-F92
		Arildomar Peixoto	SP3-D167
		Arilza de Oliveira Porto	SP1-L17
		Ariovaldo Oliveira Florentino	SP1-D45
		Armando Beltrán	G6.1
		Armando Planas- Verdecia	SP1-A8
		Arnaldo Homobono Paes de Andrade	H7.3
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		Aroldo Geraldo Magdalena	SP3-H25, SP3-H5, SP3-H8, SP3-H9





Carla Patrícia Lacerda	L5.3	Carlos Cesar Bof Bufon	C2.3, C2.5
Rubinger		Carlos de Moura Neto	H5.1, H5.3, H5.4, H5.6
Carla Ramalho Costa	SP2-B123	Carlos Eduardo Celestino	SP2-M14, SP2-M15
Braga		de Andrade	
Carla Weber Scheeren	SP1-B45, SP2-I50	Carlos Eduardo Maduro	SP2-F82
Carlo Requião Cunha	C5.4, SP2-F102, SP2-F88, SP2-L139, SP3-F146	Campos	
Carlos Alberto Achete	C4.2, M1.2, M4.3, P4.1, SP2-D64, SP2-D65, SP2-P8	Carlos Eduardo Silva	SP1-L100
Carlos Alberto Baldan	SP1-A16	Amorim	
Carlos Alberto Brunello	SP3-Q25	Carlos Eduardo Valdés de	SP1-D18, SP1-D19
Carlos Alberto Chagas Jr.	SP1-F17	Freitas	
Carlos Alberto da Silva	SP2-F103	Carlos Eduardo Vergani	B1.2
Queiroz		Carlos Emmerson Costa	SP2-F58
Carlos Alberto Della	SP3-H30, SP3-H40	Carlos Eugenio Foerster	D2.4, SP1-D34, SP2-D70
Rovere		Carlos Fabiano Alteneta	SP2-I1
Carlos Alberto de Souza	B1.2	Garss	
Costa		Carlos Felipe Bedoya	SP1-F48
Carlos Alberto Martínez-	SP3-H4	Carlos Felipe S. Oliveira	SP3-G9
Huitle		Carlos Fernandes	SP1-F56
Carlos Alberto Martins	SP3-H29	Granado	
Ferreira		Carlos Fernández	SP3-G28
Carlos Alberto Mendes	SP2-D74, SP3-J19	Carlos Ferreira Frick	SP3-J15, SP3-J18
Mota		Carlos F. O. Graeff	K3.1, SP1-C15, SP1-C3, SP1-C4, SP1-L48, SP1-L50, SP3-Q25
Carlos Alberto Moreira	A6.2	Carlos Gomes Barboza-	SP2-F104, SP2-F106, SP2-
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Carlos Alberto	SP1-A13, SP1-A2, SP1-C43, SP1-L10, SP1-L3, SP1-L33, SP1-L85, SP1-L9, SP2-I9, SP2-L158, SP3-F183	Carlos Humberto Oliveira	SP3-E11
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Carlos Alberto Picon	SP2-D88	Carlos J. de Mesquita	SP3-D155
Carlos Alberto Zanutto	SP3-D129	Siqueira	
Bassetto Junior		Carlos José de Araújo	SP2-F65, SP3-H21, SP3-H7, SP3-J1
Carlos Alejandro	D2.5, D6.1, SP1-D24, SP1- D27, SP1-D32, SP1-D46, SP2-D85	Carlos José Leopoldo	B6.3, K5.2, K5.3, SP1-K16, SP1-K63, SP2-K68, SP2- K70, SP2-K73, SP2-K80, SP3-F177
Carlos Alexandre Borges	SP2-F105	Constantino	
Garcia		Carlos Jose Paez	SP1-C26
Carlos Alexandre Dos	J7.1, SP3-D174, SP3-J18, SP3-J26	Carlos Kazuo Inoki	SP2-M23
Santos		Carlos Kiyan	J7.3
Carlos Alves Cairo	H4.3, SP1-D15	Carlos K. Suzuki	L2.2
Carlos Andre de Castro	SP3-Q38	Carlos L. P Carone	SP1-B57
Perez		Carlos Luiz Ferreira	SP1-D35
Carlos Angelo Nunes	H5.4, J6.3, SP1-D30, SP3- D137, SP3-D175, SP3-H6	Carlos Mauricio	D2.4, SP1-D34, SP1-D54, SP2-D70, SP3-D161
Carlos Antonio Reis	H6.2	Lepiensi	
Pereira Baptista		Carlos Miguel Figueroa	SP2-M4
Carlos Arthur Ferreira	SP2-D77	Carlos Miranda Awano	SP3-I131
Carlos Augusto Cardoso	SP2-A125	Carlos Oliveira Paiva-	N4.3, SP1-N17, SP1-N18, SP1-N5
Passos		Santos	
Carlos B.r. Parente	SP3-F142	Carlos Ospina	M5.4
		Carlos Perez	SP1-N12

Carlos Pérez Bergmann	SP1-C49, SP1-F6, SP1-L10, SP2-F118, SP2-L129, SP3-F186, SP3-G25, SP3-L235	Cássia Cavalcanti da Silva	J7.3
Carlos Renato Rambo	SP1-C38, SP1-C40, SP2-F102, SP2-F88, SP2-L139, SP3-F146, SP3-G46	Cássio Roberto Almeida	SP2-F88
Carlos Roberto de Sousa Santos	SP2-D91	Cassius Terra Ruchert	H2.1
Carlos Roberto Xavier	H1.2, SP2-D89, SP3-H39	Catalina Salazar Mejía	A4.3
Carlos Sanchez Tasayco	SP2-D86	Caterina Cocchi	P1.3
Carlos Sergio da Costa Viana	H1.1	Cátia Gisele Pinto	D2.2
Carlos Teixeira	SP1-K33	Catiúscia Padilha Oliveira	SP1-B46
Carlos Thomas	L6.2	Caue Ribeiro de Oliveira	B5.1, M5.3, SP1-B59, SP1-B64, SP1-C12, SP1-F22, SP1-F31, SP2-A95, SP2-F110, SP2-F111, SP2-F114, SP2-F121, SP2-M13, SP3-D130
Carlos Triveño Rios	SP2-M6, SP3-J12, SP3-J13	Cecília Amélia de Carvalho Zavaglia	SP1-B9
Carlos Wagner Moura E Silva	SP1-D43	Cecília Pereira Silva	SP3-Q25
Carlos Willian Feltrin	SP1-N3	Cecilia Santos Silva	SP3-I88
Carlos Xavier de Oliveira	SP1-N14	Celia de Fraga Malfatti	SP1-F38, SP2-F72
Carlos Yujiro Shigue	SP1-A16	Célia Marina A. Freire	SP1-D7, SP2-D76, SP2-D96, SP3-J24
Carlson Pereira Souza	SP1-F47, SP3-L253	Celia Matsuda	SP3-L262
Carlton Antony Taft	SP1-L4, SP1-L52, SP1-L8, SP2-L144, SP2-L147, SP2-L153, SP2-L156, SP2-L157, SP2-L163, SP3-L212	Celia Regina Granhen Tavares	SP3-Q9
Carmem Milkas	SP1-B44	Célia Regina Oliveira Loureiro	SP3-D141
Corbellini Souza		Celina L. M. Silva	SP3-J3
Carmen Gilda Barroso Tavares Dias	SP1-B9	Celina Massumi Miyazaki	K5.3, SP1-K39
Carmen Regina Souza	SP3-G16	Célio Albano da Costa Neto	SP2-I5
Carolina Bellão	SP2-F124	Celso A. Goulart	SP1-L26
Carolina de Andrade Lima Chaves	B1.2	Celso Camilo Moro	SP3-I104
Carolina Ferreira de Matos	SP2-D67	Celso Molina	SP2-D71, SP3-I117
Carolina Moreira	SP1-F31	Celso Peres Fernandes	L4.2, SP3-D138
Carolina Paz Garin	SP2-P24	Celso Ricardo Nogueira Jesus	SP2-I10
Carolina Reinaldi Koga	SP3-D163	Celso Valentim Santilli	I7.1, SP2-I10, SP2-I11, SP2-I12, SP2-I13, SP2-I14, SP2-I20, SP2-I3, SP2-I32, SP2-I52, SP2-I61, SP2-I7, SP3-D145, SP3-D159, SP3-F135, SP3-I70, SP3-I80, SP3-I82, SP3-I90
Caroline Barlette da Cunha	SP1-A55	Celso Xavier Cardoso	SP2-F76
Caroline Gomes Moura	SP1-L11	César A Antonio	D4.2
Caroline Jaskulski Rupp	SP1-C7	César Aguzzoli	SP1-D32
Caroline Luvison	D6.1, SP1-D27	Cesar A. Heck	SP3-I84
Caroline Paganucci Dos Reis Malere	SP3-Q3	César Antonio Oropesa Avellaneda	SP1-B11, SP1-B19, SP2-I23, SP3-L274
Caroline Polini	SP2-F115, SP2-F125, SP3-L244	Cesar Augusto Duarte Rodrigues	D8.1
Caroline Silva Danna	SP2-F104, SP2-F108		
Cássia Carvalho de Almeida	SP3-H4		

César Augusto Porfirio	SP2-F89	Clarice Madalena Bueno	SP1-B20
Leão		Rolim	
Cesar Eduardo Bellinati	SP1-L73	Clarice Steffens	SP1-C24, SP3-Q58
Cesar Henrique Zanchi	SP1-D44	Clarissa Olivati	K5.2, SP1-K15, SP1-K16, SP2-K76
César Petzhold	SP2-B92	Clarissa Piccini Frizzo	SP3-G41
Cesar Renato Foschini	SP1-F19, SP1-F46, SP2-F60, SP2-F96, SP2-F97	Clarisse Maria Sartori	SP2-I66
César Rolando Nunura	SP3-H41	Piatnicki	
Chachi Rojas-Ayala	SP2-A130, SP2-A131, SP2- A132	Clascidia A. Furtado	SP2-P14, SP2-P18, SP2-P23, SP3-F170, SP3-F189
Charlene Priscila Kiill	SP1-B43	Claudemiro Bolfarini	SP1-A38, SP2-M6, SP3-J12, SP3-J13
Choyu Otani	D4.3, D5.5, SP2-D87	Claudenete Vieira Leal	SP3-J2
Chris R. Bowen	SP3-F160	Cláudia Akemi Kodaira	SP2-I44, SP3-I78
Christhiano Peres	SP1-C12	Claudia Alcaraz Zini	SP3-F137
Christian Ascona Rivera	SP2-A118	Cláudia Alves Oliveira	SP1-L99
Christiane Philippini	SP2-F99, SP2-L155, SP3- Ferreira Borges	Cláudia E. B. Marino	D2.5
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Christiane Pienna Soares	SP2-I13	Santos	
Christiane Pinto Davi	SP2-B77	Cláudia Lima Nogueira	SP1-K10, SP1-K8, SP1-K9
Christiano J.s. Matos	SP2-L142	Claudia Marino	SP3-D169
Christiano P. Guerra	L2.2	Cláudia Martins	SP1-K21
Christier Franco Ribeiro	SP3-Q42	Cláudia Menegaz	SP3-H13
Christine Leroux	SP1-F47	Zaccaron Cristiano	
Christoph Deneke	C2.4, C2.5	Cláudia Nazaré Dos	H1.1
Chunlei Gao	K7.4	Santos	
Cíbele Oliveira	SP2-L146	Claudia Nogueira	SP3-Q54
Cícero Inácio Silva Filho	SP3-I129	Claudia Telles de Souza	SP3-D147
Cicero Martelli	SP2-D109	Claudia Trindade Oliveira	SP3-J5
Cicero Rafael Cena	SP3-L216, SP3-L230, SP3- L236	Claudilene Ribeiro	SP3-D156, SP3-I116
Cid Bartolomeu de	H6.4, SP1-F41, SP3-D123, Araújo	Chaves	
	SP3-H35, SP3-H37	Claudio Airoidi	SP3-D131, SP3-D165, SP3- I120
Cilãine Verônica Teixeira	K5.4, N3.2	Claudio Alves Siqueira	SP3-J4
Cinthia Brito Fonseca	SP3-H44, SP3-L257	Claudio Antonio	E9.2, SP1-F15
Cintia Dos Santos	SP3-D165	Perottoni	
Oliveira		Claudio Arroca	SP1-A57
Cíntia Legramanti	B5.2	Claudio Ciulik	SP2-B90
Cintia Lugnani Gomes	SP1-D5, SP1-D9, SP1-F15 Amorim	Cláudio Costa Motta	SP3-H17
Cintia Petry Mazzaferro	O3.1, O3.4, O4.3, SP1-O4	Claudio Javier Almirón	SP2-D105
Cintia Ramos Camargo	B2.2	Cláudio José Magon	L7.2
Cíntia Tereza Pimenta de	SP2-B125	Cláudio Luiz Carvalho	SP1-A19, SP1-A32, SP1- A33, SP1-C48, SP2-A75, SP3-D143
Araújo		Claudio Machado Junior	SP1-L50
Cintya D'angeles do	SP2-F105	Cláudio Nahum Alves	SP3-G10, SP3-G9
Espírito Santo Barbosa		Cláudio Nunes Pereira	SP2-B118, SP2-K118, SP2- K121
Ciro José Rodrigues	SP3-H4	Cláudio Radtke	C1.2, C1.3, D3.2, SP1-C2, SP1-D16
Claire Courson	SP2-L133	Cláudio Santos	SP3-L238
Clara Fucinos	B4.1		
Clara I D Bica	SP1-B54		
Clara Muniz Almeida	SP2-P8		

Claudio Shyinti Kiminami	SP2-M6, SP3-J12, SP3-J13	Cristiane Justino do Nascimento	SP2-I35
Claudio Teodoro Dos Santos	A2.4	Cristiane Kelly de Oliveira	SP1-K34
Clayton José Pereira	SP1-C33	Cristiane Margarete Daikuzono	SP1-K58
Cleber A Nunes	SP3-D126	Cristiane Marin	SP2-D108, SP2-D110, SP2-M16
Cléber Aparecido Rocha Dantas	SP1-K39, SP1-K58	Cristiane Ramos Santos	SP3-H31
Cleber Fabiano Marchiori	SP1-C5	Cristiane Raubach Ratmann	SP2-L105, SP2-L119
Cleber Lessa	O2.2, SP2-D105	Cristiane Regina Scher	B3.2
Cleber Lopes Filomeno	D7.3	Cristiane Wienke Raubach	SP2-L103
Cleber Pereira Fenili	SP1-D51, SP3-H24	Cristiane Xavier Resende	SP2-D95, SP2-I30, SP2-L123
Cleber R. Mendonça	SP1-K17, SP2-K105	Cristiani Silveira Campos	K4.3, K7.5
Clederson Paduani	SP1-A4, SP1-A53, SP1-A55	Cristiano Binder	SP3-H49
Cleide Maria da Silva Leite	SP2-L176	Cristiano Dias	SP2-B67
Cleiser Thiago Pereira da Silva	SP2-K116, SP3-F159, SP3-F175, SP3-I113	Cristiano Fantini	P3.2, SP3-F189
Clelia Mara de Paula Marques	SP3-I123	Cristiano José Scheuer	D2.3
Cleocir José Dalmaschio	SP2-I41, SP2-P2, SP3-Q20	Cristiano Krug	C1.2, C1.3, SP1-D16, SP2-D66
Cleuton de Souza Silva	SP3-G5, SP3-G6	Cristiano Piacsek Borges	D5.6, F5.3
Cleverson Alves Silva Moura	SP2-K112	Cristiano Zanlorenzi	K4.2
Clovis Roberto Haselein	SP1-B17, SP1-B25, SP1-B26, SP1-B28	Cristina Bormio Nunes	A2.2, A2.4
Cody Morelock	E6.1	Cristina Carvalho Elisei	SP3-D163
Conceição Eunice Canuto	SP3-Q53	Cristina Das Gracias Fassina	SP2-M28
Conrado Ramos Moreira Afonso	J6.2, L9.3, O4.2, SP2-M5, SP2-M6	Cristina de Garcia Venturini	SP1-B46, SP1-B51, SP1-B53, SP2-B91
Conrado Souza Rodrigues	L7.5, SP1-L5, SP2-L128	Cristina F. Bueno	SP1-C8
Corinne Arrouvel	F7.3, SP3-G1	Cristina Pacheco-Soares	SP2-L114, SP3-D126
Cosme Moreira Silva	SP1-D15	Cristina Tristão Andrade	B4.3, B5.3, SP1-B47, SP1-B60, SP1-B63, SP1-B8, SP2-B88
Crislene Rodrigues Silva Morais	SP1-L84	Cristol de Paiva Gouvêa	SP1-A44
Crispulo Enrique Deluque Toro	A9.1	Cristoph Geibel	A7.3
Cristhyano Bruzzi	SP1-C25	Crystopher Cardoso Brito	SP3-J4
Cristiana Melo Pedrosa	SP1-B38	C. S.	SP3-L272
Cristian Bernardi	SP3-F153, SP3-F155, SP3-F156	Cuma Bindal	L2.4
Cristiane Aparecida Silva	SP2-K71	Cynthia Casagrande Matos	SP1-L69
Cristiane Barbieri Rodella	SP1-D45	Cyryle Deranlot	A3.1
Cristiane da Cunha Nascimento	SP2-F105, SP2-F107, SP2-F109, SP2-F120	Cyro Ketzer Saul	A5.5, SP1-A12, SP2-D62
Cristiane de Castro Pernet Hara	SP2-B107, SP2-B108, SP2-B110, SP2-B81		
Cristiane de Souza Javorsky	D2.1		
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		Dachamir Hotza	L2.3, L4.3, SP1-L97
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Daikelly Iglesias	SP2-B92, SP2-B94	Danielle Berger	SP1-F54
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Dailton Pedreira	SP1-F43	Danielli Galan	SP2-F83, SP2-F90
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Dalber R Sanchez	A8.1, SP2-A103	Daniel Llamasa Perez	A9.1
Daliana Muller	SP1-C38, SP1-C40	Daniel Lohmann	C5.4
Daltro Pinatti	SP3-D128, SP3-D142	Daniel Lorscheitter	M4.1, M4.3, SP1-D16
Daniela Becker	SP2-B67	Baptista	
Daniela . Bianchini	SP2-I15, SP2-I16, SP2-I62	Daniel L Rodrigues Jr.	SP1-A17
Daniela Camargo Vernilli	SP2-L160	Daniel Magagnin	SP3-Q15
Daniela Govoni Sotelo	SP3-D147	Daniel Maria	SP2-P14
Daniela L Mafra	P3.2	Daniel Marinha	F1.3
Daniel Amancio Duarte	SP1-K40, SP3-F164	Daniel Mario Ugarte	SP1-C14
Daniela Martí Barros	SP3-F170	Daniel Reinaldo Cornejo	A2.1, SP1-A23, SP1-A45, SP2-A72
Daniel Angeli Moraes	SP1-A49	Daniel Rocha Travain	SP2-F95
Daniela Oliveira Hartwig	SP2-I62	Daniel Rodrigo Leiva	SP3-F145
Daniel Aparecido da Silva Rodrigues	SP2-F78	Daniel Salvador	SP1-K54
Daniel Aragão Ribeiro Souza	SP2-F82	Daniel Sierra Yoshikawa	SP1-D20
Daniel Araujo de Macedo	SP1-C43, SP1-F5, SP1-L11	Daniel Souto de Souza	SP3-G37
Daniela Rodrigues Borba Valadão	SP1-A66, SP2-A70	Daniel Thomazini	SP2-B105
Daniela Steffens	B3.2, SP2-B92	Daniel Zanetti de Florio	F2.2, SP3-F174
Daniela Wollmann	SP3-D139	Danilo Antonio Silva	SP2-B120
Daniel Belchior Rocha	SP3-F185	Danilo Brasil Ribeiro	SP1-L98, SP3-L221, SP3-L233
Daniel Benitez Barrioz	SP1-D29	Danilo Manzani	SP2-L142, SP3-L205
Daniel Correa Guamá	SP1-F1	Danilo Rodrigues de Souza	F8.2
Daniel Cristian Ferreira Soares	SP3-I77, SP3-Q49	Danilo Suvorov	F4.2, I5.4, I5.5, L6.1, SP1-C36, SP2-F112
Daniel Cunha Elias	P1.1	Danilo Zanello Guerisoli	SP2-B122
Daniele Cristina Chagas	SP1-D37	Dan Mihai Buca	C1.1
Daniele Cruz Bastos	SP2-D73	Danniely Melo Ribeiro	SP2-L131, SP3-L206
Daniele Morgenstern Aimi	SP3-G41	Danny Araucano Holgado	SP3-D125
Daniel Enrique Garcia	SP1-L97	Danny Laura Gomes	SP2-B107, SP2-B108, SP2-B110, SP2-B81
Daniele Ribeiro de Araujo	B4.2	Dante Ferreira	D5.2, SP2-A113, SP3-D125
Daniel Felipe Simião	SP1-A36, SP2-A114, SP2-A91	Franceschini	
Daniel Girardi	SP2-D111	Dante Homero Mosca	M5.1, SP1-A12, SP1-A9
Daniel Grando Stroppa	M1.1, M3.2	Danusa do Carmo	SP2-A110
Daniel Grimm	C2.3	Darci Alberto Gatto	SP1-B17, SP1-B25, SP1-B26, SP1-B27, SP1-B28, SP1-B29, SP2-M2
Danieli Aparecida Pereira Reis	H5.1, H5.3, H5.4, H5.6	Dárcia Sâmia Santos	SP1-L3, SP2-I9
Daniel Joaquim Moutinho	J7.4	Moura	
Daniella Inglês	L8.3, SP1-L37, SP1-L38, SP1-L95	Dárcio Hersch Gomes de Souza Sá	SP3-H50, SP3-H51
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Dario Ferreira Sanchez	D3.3, F2.5, SP1-N16, SP2-D108, SP2-D110, SP2-F119, SP2-M16, SP2-M17, SP2-M18	Denis Créte	A6.1
Davian Martínez	SP2-A109	Denise Criado	SP2-F94
Davi Costa Campos	SP3-H31	Denise Jornada	SP1-D25
David Arsenio Landinez	A9.1, SP2-A105	Denise Tallarico	SP1-D17
David Domingos Soares Silva	SP1-A25	Denise Toledo Bonemer de Salvi	SP2-I51
David Fernando Morais Neri	SP1-A31	Denis Rafael Nacbar	SP2-L166
David Fernando Panche	H2.5	Dennys Salvino Sergio Pereira	SP3-L221, SP3-L233
David Goes	SP1-A30	Deuber Lincon Agostini	SP1-B24
David J Larson	SP2-M26	Deusivan Soares Leite	SP3-Q37
David Martin Taylor	K1.1, K3.2	Deu Soudagar Bhange	E6.2
David M. Fernandes	K3.1	Deyse Gonzaga Gomes	L4.3
Davi do Socorro Barros Brasil	SP3-G10, SP3-G9	Delavi	
David Sotero Dos Santos Jr.	K5.3	Diana Marcela Vanegas Hernández	SP2-B70
Davino Machado Andrade Neto	SP1-B10	Diana María López	O5.4
Dawy Keyson	SP1-L27, SP1-L28, SP1-L88	Diana Raquel Siqueira da Silva	D7.5
Dayanne Diniz de Souza Morais	SP1-B56, SP2-F69	Diego Almir Silva da Silva	SP2-D74
Dayse Iara Dos Santos	SP1-A51, SP3-F166, SP3-F190, SP3-F191	Diego Anderson Hoff	K2.3
Débora Albuquerque Vieira	SP1-A24, SP2-A99	Diego Ariça Ceccato	SP3-I125
Debora Balogh	SP1-K15	Diego Blaese	SP1-L97
Débora Damasceno Belarmino	SP1-B35, SP3-Q10, SP3-Q16, SP3-Q30	Diego Cb Alves	F3.3
Débora de Jesus Bezerra	J9.2, SP3-J2	Diego Correia Silva	SP1-L79
Débora Duarte Almeida	SP3-Q35	Diego de Farias Lima	SP2-F69
Débora Gonçalves	SP2-D115, SP2-K117, SP2-K89	Diego de Holanda Saboya Souza	B5.3, SP1-B47
Deborah Dibbern Brunelli	SP2-I24	Diego de Leon Brito Carvalho	J7.4
Deborah Prezzi	P1.3	Diego González Chávez	SP1-A3, SP2-A119, SP2-A127, SP2-A88
Deborah Quintanilha Falcão	SP1-B48	Diego Henrique Moreli de Gênova	SP2-F115, SP2-F123, SP2-F125, SP2-L168, SP3-L194
Débora Patrícia Batista Rocha	SP2-L133, SP2-L138	Diego H.o. Machado	SP1-C16
Debora Silva Pontes	SP1-L58	Diego L da Cunha	F3.1
Debora Simone Figueredo Gay	SP3-I104	Diego Martins Stangerlin	SP1-B17, SP1-B25, SP1-B26, SP1-B27, SP1-B28, SP1-B29
Débora Teresia Balogh	SP1-K27, SP2-K87	Diego Muraca	SP1-A54
Décio Briotto	SP3-L183	Diego Noé David Parra	SP2-F116
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		Dilmo Marques Leotério	SP2-I27
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Edmilson Otoni Corrêa	SP3-Q11	Eduardo Henrique Falcão	SP3-F181
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Edson Batista da Silva	SP3-Q14	Eduardo Luis Canedo	SP1-B6, SP2-D99, SP3-Q33
Edson Cavalcanti da Silva Filho	SP1-B36, SP1-L32, SP1-L39, SP1-L83, SP2-L137	Eduardo Luis Schneider	SP1-F57, SP1-L68, SP1-L89
Edson Giuliani Ramos Fernandes	SP2-D60	Eduardo Luzia França	SP2-B107, SP2-B108, SP2-B110, SP2-B81
Edson G. R. Fernandes	SP1-K8, SP1-K9, SP2-K115, SP2-K86	Eduardo Magalhães Braga	SP3-D167, SP3-D168
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Edson H. Takano	D8.2	Eduardo Mello Silva	SP2-D99
Edson Laureto	SP1-F36, SP2-K102	Eduardo Mere Del Aguila	SP1-B60, SP1-B63
Edson Luiz Gea Vidoto	SP2-A118	Eduardo Milton Ramos Sanchez	SP2-I44
Edson Moreira Vasques	SP3-H32	Eduardo Mioduski Szesz	SP3-D169
Edson Passamani	SP2-A130	Eduardo Nery Araújo	P1.2, SP2-P10, SP2-P22
Edson Pereira Quintans	SP3-Q36	Eduardo Norberto Codaro	SP1-D18, SP1-D19
Edson Roberto Leite	F2.1, M1.1, M3.2, SP1-F49, SP1-L12, SP1-L36, SP2-A114, SP2-I41, SP2-L111, SP2-L169, SP2-P2, SP3-Q20	Eduardo Ono	L2.2
Eduardo Alberto Fancello	SP2-B97	Eduardo Pérez González	SP1-B24
Eduardo André Bender	SP2-B121	Eduardo Perini Muniz	F2.4, SP1-F34
Eduardo Antonelli	SP1-C27, SP1-C31	Eduardo Rezende Triboni	SP2-P4, SP3-L183
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Eduardo Bertoni Fonseca	SP1-O6	Eduardo Roque Budemberg	SP2-B76
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Eduardo Carasek	SP3-Q27	Eduardo Vargas Pereira	SP2-I60
Eduardo de Faria Franca	G9.2, SP2-K125	Edvaldo Lima da Silva	SP3-E1
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Eduardo E Cisternas	P4.2	Eguiberto Galego	SP3-F150
Eduardo Etzberger Feistauer	SP1-F38	Eiji Harima	SP3-L228, SP3-L259
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Elaine Carvalho	SP2-P14	Elisa Baggio Saitovitch	A3.2, A6.3, A8.1, SP1-A26, SP1-A30, SP1-A62, SP1-C22, SP2-A103, SP2-A111, SP2-A115, SP2-A126, SP2-A128, SP2-A130, SP2-A131, SP2-A132, SP2-A74, SP2-A76, SP2-A83, SP3-Q48
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Rodrigues Vaz		Elisabete Moreira Assaf	L9.3
Elaine Cristina Azevedo	SP2-D114	Elisabeth Djurado	F1.3, SP1-F2
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Elaine Rose Maia	SP3-G32	Elisângela Dos Santos	J9.2, SP3-J2
Elcio Angioletto	SP3-Q15	Meza	
Elcio Marcantonio Jr.	SP3-I69	Elisângela Gomes de Lima Oliveira	SP1-F14
Élder Mantovani Lopes	K3.2, SP1-K37, SP1-K59, SP1-K62	Elisângela Pires Bueno	SP3-Q44
Elderson Cássio Domenicucci	SP2-F122	Elisângela Silva Pinto	SP2-D90
Elen Caroline Toniatto	SP2-L164	Elisiane Santana Chaves	SP1-F38
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Eleonora Erdmann	SP3-F168	Elivelton Alves Ferreira	SP3-I80
Eliana Alves Arxer	SP2-L175	Elizabete Fernandes	SP2-B109
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Eliana Navarro Dos Santos Muccillo	SP1-F12, SP1-L11, SP1-L16, SP1-L25, SP3-F150	Elizabeth Godoy Cezar	SP2-M12
Eliana Weber de Menezes	I1.3, SP3-D162, SP3-F137, SP3-I105	Salgado	
Eliane Ayumi Namikuchi	SP2-F123, SP2-F125	Elizabeth Hoyos	O5.4
Eliane Villamil Bangel	SP2-B118	Elizabeth Lima Moreira	SP2-I55
Elias Hage Junior	SP3-Q23	Elizabeth Soares	SP2-F58
Elias Paiva Ferreira Neto	SP2-I18, SP2-I53	Rodrigues	
Elidia Maria Guerra	SP3-I86	Ellen Raphael	SP1-B11, SP1-B19
Elidiane Cipriano Rangel	D4.2, SP1-D41, SP1-D49, SP1-D50, SP1-D7, SP3-D124, SP3-D135	Elmo Salomão Alves	P1.2, SP2-P10, SP2-P22
Elidio Angioletto	L7.3, SP3-Q15	Elmo Silvano Araújo	SP1-B1
Elieber Barros Bezerra	SP2-F70	Elodie Bourgeat-Lami	SP1-D39
Elielson Alves Dos Santos	SP1-D6, SP3-Q42	Eloi Feitosa	SP2-K73
Eliena Jonko Birriel	D2.5, SP1-D24, SP1-D46	Eloilson Domingos	SP2-D75, SP3-Q46
Eliene Pires Carvalho	SP1-L71	Eloísa Berbel Manaia	SP2-I13
Eliézer Fernando Oliveira	SP3-G44	Eloísa Cordoncillo	SP2-L155
Elina Bastos Caramão	SP3-F137	Cordoncillo	
Elineudo Pinho de Moura	SP1-A22	Elsa Maria Materon	SP1-F48
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Elio Thizay Magnavita	A4.2		

Elson Longo	L3.1, L3.4, L5.2, L7.4, L9.1, SP1-F19, SP1-F4, SP1-F42, SP1-F46, SP1-F49, SP1-L12, SP1-L19, SP1-L21, SP1-L24, SP1-L27, SP1-L28, SP1-L29, SP1-L30, SP1-L33, SP1-L36, SP1-L44, SP1-L46, SP1-L48, SP1-L50, SP1-L53, SP1-L56, SP1-L58, SP1-L59, SP1-L60, SP1-L62, SP1-L63, SP1-L64, SP1-L65, SP1-L66, SP1-L73, SP1-L8, SP1-L82, SP1-L87, SP1-L88, SP2-A114, SP2-F114, SP2-F60, SP2-F74, SP2-F75, SP2-F76, SP2-F77, SP2-F96, SP2-F97, SP2-I41, SP2-L103, SP2-L105, SP2-L107, SP2-L110, SP2-L111, SP2-L115, SP2-L116, SP2-L118, SP2-L119, SP2-L131, SP2-L134, SP2-L146, SP2-L153, SP2-L156, SP2-L157, SP2-L159, SP2-L163, SP2-L169, SP2-L172, SP2-L174, SP2-M20, SP3-F144, SP3-L177, SP3-L182, SP3-L187, SP3-L204, SP3-L206, SP3-L207, SP3-L211, SP3-L212, SP3-L213, SP3-L218, SP3-L219, SP3-L224, SP3-L225, SP3-L231, SP3-L232, SP3-L243, SP3-L256, SP3-L265	Emerson Ferreira de Lucena	SP1-L49
		Emerson Henrique de Faria	I4.1, SP1-F53, SP2-I47, SP2-I48, SP2-I49, SP3-I94
		Emerson Marcelo Girotto	D1.3
		Emerson Oliveira Silva	B5.2, SP3-F133
		Emerson Rego Goes	SP2-M15
		Emerson Roberto Santos	SP1-C47, SP1-K23
		Emerson Rodrigues Camargo	SP1-L12, SP1-L36, SP2-I28, SP2-L107, SP3-L234
		Emerson Schwingel Ribeiro	SP2-I29, SP2-I37
		Emeson Aparecido Floriano	C5.3
		Emilena Elisabeth Silva Moraes	SP3-L179
		Emiliane Advincula Malheiros	SP3-D148
		Emiliane Daher Pereira	B6.2
		Emilio Monleon Raccanelli de Moraes Melo	SP2-M8
		Emily Balzan	SP1-A55
		Emmanuelle Oliveira Sancho	SP1-L43
		Emmanuelle Sá Freitas	J8.2, SP3-J6
		Feitosa	
		Eneida de Paula	B3.3, B4.2
		Eneida Sala Cossich	SP3-Q9
		Enio Lima Junior	A3.3
		Enrico Traversa	F1.1, L5.1
		Enrique Eduardo Kaul	A7.3, SP2-A73
		Epitacio Pinto Marinho	D7.3
		Eralci M. Therézio	SP1-K45, SP1-K48, SP2-K102
Elton Aparecido Prado Reis	SP2-B76	Ercules Epaminondas de Souza Teotonio	SP3-I127, SP3-I85
Elton A. S. Castro	L3.1, SP3-L207	Érica Caproni	SP3-F150
Elton Carvalho Lima	SP3-L216, SP3-L230, SP3-L236	Erica Freire Antunes	SP3-D122
Elton José de Souza	SP1-A33, SP1-D21	Erica Romão	SP3-D128
Elvis Lopez Meza	D7.1	Erica Silva Marinho	SP3-L238
Elvo Calixto Burini Junior	SP1-C47, SP1-K23	Erica Vidaurre Senatore	SP2-I40
Ely Antonio Tadeu Dirani	SP1-K23	Éric da Cruz Severo	SP2-D80
Emanoela Mattos	O2.2	Eric E. Hellstrom	SP2-A94
Emanuel Jose Bassani Muri	SP3-Q57	Eric H. Remington	F2.2
Emanuel Pereira Soares	H1.4	Erick Cerqueira Das Neves	SP2-F107, SP2-F109, SP2-F120
Emerson Andrade Monteiro	SP3-H31	Erick Guimarães França	SP3-D157
		Erick Piovesan	SP2-K126
		Ercleiton Rodrigues Macedo	SP2-F62

Eric Marshall	C4.1	Eunice Fragoso da Silva	SP3-I88
Érico Rodrigues Dourado	SP3-D158	Vieira	
Eric Suárez	SP2-P5	Eustáquio Vinicius	SP2-D103, SP2-D69, SP2-
Erika Bronze-Uhle	K3.1	Ribeiro de Castro	D75, SP3-Q46
Erika Fernanda Prados	H7.1, SP1-O2	Euzebio Skovroinski	SP2-F79
Erika Maria Gouveia	SP3-I83	Evaldo Diniz Dias	H1.2
Melo		Evaldo José Corat	D5.1, SP1-N8, SP2-L113, SP2-L114, SP3-D122, SP3-
Érika Nishi Basho	SP3-D145, SP3-D159		D177
Erika Ochoa	SP3-D125	Evaldo Júlio Ferreira	SP1-D6, SP3-Q42
Érika Pinto Marinho	SP2-L140, SP3-L178, SP3-	Soares	
	L268	Evaldo Toniolo Kubaski	D1.2, SP1-D52, SP1-F54, SP1-L2, SP1-L6, SP1-L76, SP1-L78, SP2-D79, SP2-
Erika Virginia Raphael de	SP2-K101		L132
Almeida		Evandro Augusto de	C5.3
Erik Benigno Grisi de	SP3-H13	Morais	
Araújo Fulgêncio		Evandro França	C5.2
Erik Holmström	SP3-G1	Evandro L. Nohara	SP1-D31
Erisandra Rodrigues	SP1-L96	Evandro Martin Lanzoni	SP3-I132
Alves		Evandro Piva	P2.3, SP1-D44, SP3-D151
Eriton Rodrigo Botero	N5.4, SP2-K116, SP2-K66, SP2-L124, SP3-Q26	Evaristo Alexandre	SP2-K66, SP2-L124, SP3-
		Falcão	Q26
Erlon Henrique Martins	SP2-D64, SP2-P8	Evelise Fonseca Santos	SP2-B83
Ferreira		Everaldo Carlos Venancio	SP1-F40, SP2-A91
Ernane de Paula Lopes	SP3-I93	Everlânia Maria da Silva	SP1-A2, SP1-L3, SP2-I9
Ernani Trombetta	SP2-B106	Everton Carlos Gomes	SP1-F25
Ernanni D Vieira	A5.2	Everton Cristian Moraes	SP3-I75, SP3-I95
Ernesto Chaves Pereira	SP1-C11	Éverton Fabian Jasinski	SP3-Q27
Ernesto Govea-Alcaide	SP1-A8	Everton Maciel	SP3-D167, SP3-D168
Ernesto Joselevich	SP3-G45	Mendonça	
Ernesto Rupert Filho	SP1-A16	Everton Rodrigues de	SP2-I35, SP2-I43
Eronides Felisberto da	F3.1, SP1-C2	Almeida	
Silva Jr.		Evgeni Svenk Cruz	SP2-A80
Erveton Pinheiro	SP3-Q48	Gracia	
Eryza de Castro	SP3-I87, SP3-I89		
Guimaraes			
Esmael Biazar	D7.6, I6.3, SP1-D10		
Estefania Vangelie	B3.3		
Ramos Campos			
Ester Pinheiro Santos	SP1-B39, SP1-B40	<b>F</b>	
Estevan Rosim Fachini	SP1-D55, SP1-D56	Fabiana Bortolini	SP3-I76
Euclides Alexandre	SP1-D12, SP1-D36, SP3-	Fabiana Lindenberg Dos	SP1-B8
Bernardelli	D136	Santos	
Eudenilson Lins de	SP3-E11	Fabiana Ribeiro de	D3.4
Albuquerque		Araújo	
Eudes Borges Araujo	SP3-L216, SP3-L230, SP3-	Fabiana Rodrigues	SP1-A23
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Eudes Lorençon	F8.1, SP2-F92	Fabiana Villela da Motta	SP1-L56, SP2-L116
Eugenio Furtado Souza	SP1-F17	Fabiane de Fatima	SP2-D70
Eugênio José Zoqui	SP3-J23	Carvalho	
Eugenio Rodriguez	N3.3	Fabian Nima Ramirez	SP2-A122
Euler Araujo Dos Santos	SP1-L54, SP2-D95, SP2-I30, SP2-L123	Fabiano Bernardi	N5.2, N5.3, SP1-N1
		Fabiano Colauto	SP2-A110

Fabiano da Silveira Santos	SP2-I46	Fagner Gomes Vieira	L5.2, SP2-L131, SP3-L182
Fabiano Gilberto Wolf	L4.2	Fagner Marçal Andrade	D5.2
Fabiano Mattei	SP1-O3	Fanny Béron	A7.5
Fabiano Mesquita	SP1-A43	Fátima M. S. Pereira	SP3-L193
Fabiano Severo Rodembusch	SP2-I21, SP2-I46	Fauze Ahmad Aouada	SP1-B59, SP1-B64, SP1-L63, SP1-L65
Fabiele Collovini Tavares	SP2-I62	Fauze Jacó Anaissi	SP2-I57, SP2-I58, SP3-F129, SP3-I72, SP3-I73, SP3-I87, SP3-I89
Fábio Alencar Dos Santos	SP3-L270	F. C. Zawislak	SP2-F119, SP2-M16, SP2-M17, SP2-M18
Fábio Antônio Belinelli Silva	SP3-I91, SP3-I92	Felipe Antonio Lucca Sánchez	SP1-C49, SP3-F186
Fabio B Noronha	SP3-F163	Felipe Azevedo Rios Silva	SP3-G32
Fábio C. Correia	SP1-K56	Felipe Bertelli	J9.2, SP3-J2
Fábio Cesar Dos Santos	SP2-I52	Felipe Caliori	H5.4
Fabio C Fonseca	F3.3, F5.2, SP3-F161, SP3-F163	Felipe Casseb de Jesus	SP3-I114
Fábio de Oliveira Braga	SP3-H7	Felipe Cemin	SP1-D24
Fabio Furlan Ferreira	N4.3, SP1-N10, SP1-N15, SP1-N17, SP1-N4, SP1-N5, SP1-N6, SP1-N7, SP1-N9, SP2-K99	Felipe Dalla Vecchia	SP3-J5
Fábio Gaino Curcio	SP1-B12, SP1-B13	Felipe de Almeida La Porta	SP2-L103, SP2-L105, SP2-L119
Fabio Juliano Negrão	SP3-Q26	Felipe de Oliveira	SP3-J25
Fabiola Munhoz Di Loreto da Cruz	SP3-D145	Felipe Eduardo Manoel	SP3-H34
Fabio Lima Leite	G9.2, SP1-B50, SP1-K63, SP2-K125	Felipe Fernandes de Oliveira	SP2-L129
Fabio Lombardi Maximino	SP2-A102	Felipe Ferreira Lima	SP2-P9
Fábio Luiz Pissetti	SP3-I91, SP3-I92	Bitencourt	
Fabio L Zabotto	A2.3	Felipe Fortes Lima	B4.3
Fábio Minoru Yamaji	SP2-B82	Felipe Rezende	SP1-D29
Fabio Murilo Garcia	SP2-B67	Felipe Sampaio	SP2-L122
Fabio Paiva Cota	SP3-F160	Alencastro	
Fábio Pereira Ramanery	SP1-C34	Felipe Schiochet Bertoldo	SP1-A17
Fabio Roberto Passador	SP2-F95	Giroto	
Fabio Rocha Bohns	SP2-P15	Felipe Silva Bellucci	SP1-A57, SP1-C32
Fabio Rogerio Longen	SP2-A79	Felipe Siqueira Pais	SP2-I6
Fábio Santana Dos Santos	SP1-K56	Felippe Jose Pavinatto	SP2-K108, SP2-K71
Fabio Simões de Vicente	SP3-I131, SP3-I132	Felix G. Requejo	N2.3
Fábio Teixeira Dias	SP1-A15, SP1-A44, SP1-A60, SP1-A68, SP2-A123, SP2-A90	Fellipe Maia Souza	SP3-H31
Fabírcia Assis Resende	H5.6	Fenelon Martinho Pontes	SP1-L24, SP1-L46, SP1-L58
Fabírcio Frizzera Borghi	D7.1	Fernado Bonatto	SP2-D66
Fabírcio Moura Dias	SP3-H44, SP3-L257	Fernanda Abbate Dos Santos	SP2-B126
Fabírcio Ogliari	SP1-B11, SP1-D44, SP1-L35, SP2-L104	Fernanda Blandina Dos Santos	SP1-D43
Fabírcio Paiva da Silva	SP1-L79, SP3-J22	Fernanda Chiarello Stedile	SP1-D16, SP2-I16
Fabírcio Xavier Faustino	D2.6, SP1-D43	Fernanda da Costa Romeiro	SP1-L53, SP1-L82, SP3-L177
Facundo Sebastián López	SP1-O3	Fernanda Emanuela Claudino da Silva	SP1-L99

Fernanda Guerra Lima Medeiros	SP2-L128	Fernando Josepetti Fonseca	C2.2, SP1-C47, SP1-K23, SP2-K90
Fernanda Kolenyak Dos Santos	SP2-D104	Fernando Lazaro	SP2-D86, SP3-D125
Fernanda Mansano Carbinatto	SP1-B32	Fernando Lucas Primo	SP2-K74, SP2-K81
Fernanda Nedel	P2.3	Fernando Luís Barroso da Silva	G7.1
Fernanda Poletto	B2.3	Fernando Luiz Bastian	SP3-F165
Fernanda Roberta Marciano	SP2-L113, SP2-L114, SP3-D126	Fernando Machado	SP2-F118
Fernanda Rodrigues Garcez	SP2-I35	Machado	
Fernanda Stieven Soares	SP2-K118, SP2-K121	Fernando Pelegrini	SP2-A76, SP2-A83
Fernanda Stuardi Pereira	SP1-B24	Fernando Pelisser	L7.3, SP3-Q15
Fernanda Vieira	SP2-P18, SP2-P23	Fernando Pereira Sabino	SP1-K50, SP1-K59
Fernando A. Castro	SP1-C3	Fernando Rizzo	SP3-E2, SP3-E3
Fernando Alvarez	SP3-D125	Fernando Rodrigues Conceicao	SP2-F90
Fernando Aparecido Sigoli	SP3-I106	Fernando Rogério de Paula	K4.3, K7.5
Fernando Araujo Moreira	SP1-A39	Fernando Silvio Ramone	SP1-D5, SP1-D9
Fernando Augusto Moraes	SP3-L274	Fernando Soares	F2.4
Fernando Barbosa de Freitas Silva	SP2-A95	Lameiras	
Fernando Borges	SP1-B36, SP2-M22	Fernando Soria	SP1-A31
Fernando Bravo Barrera	SP2-F127	Fernando Sousa Júnior	B6.2
Fernando Carmona Simões	SP1-F23	Fernando Vernilli Júnior	SP1-L70, SP1-L75, SP2-D83, SP3-H26, SP3-H38, SP3-L242, SP3-L275
Fernando Conceição	SP2-F83	Fernando Wypych	SP1-K1, SP1-K2, SP3-Q43
Fernando Cosme Rizzo Assunção	SP1-L13	Filipe Alexandre Almeida Paz	SP3-F149
Fernando Dal Pont	SP3-G33	Filipe da Silva Oliveira	SP1-L98, SP3-L233
Fernando Morisso		Filipe Gonçalves da Silva	SP1-K42
Fernando Fabris	SP1-K49, SP2-K113	Filipe Leôncio Braga	G8.2
Fernando Fernandes da Silva	SP1-L70, SP3-L242	F. Kremer	D3.3, F2.5, SP1-N16, SP2-D108, SP2-D110, SP2-F119, SP2-M16, SP2-M17, SP2-M18, SP3-F143
Fernando Ferreira	O1.2, O5.5, SP1-O9	Flanelson Monteiro	SP3-L269, SP3-L272
Fernandez		Flávia A. Almeida	M4.3
Fernando Fuzinatto	M3.3	Flávia Belló Artuso	D2.1
Dal`agnol		Flávia de Miranda Leão	SP2-B102
Fernando Galembeck	SP2-D67	Leite Costa	
Fernando G. Echeverrigaray	D2.5	Flavia F. Cardoso	SP2-M5
Fernando Graber	SP3-D137, SP3-D175	Flaviano Williams	G8.2
Fernando Hallwass	SP1-L99	Fernandes	
Fernando Henrique Cristovan	SP1-C11	Flávia Pires Rodrigues	SP1-L50
Fernando Irto Zanetti	D2.3	Flávia Raquel Lucena	G7.2, SP3-Q4
Fernando José Gomes Landgraf	SP1-A17, SP2-A108	Flávia Santos Portela	SP1-A66, SP2-A70
		Flávia Valério Esteves	SP3-F135
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		Flávio Briguento	H5.1
		Flávio Camargo Cabrera	SP2-F104, SP2-F108, SP2-K86, SP2-K94



Flávio Dos Santos Campos	SP1-B15	Francisco José Fontelles Obelenis	SP2-P21
Flávio Fernando Demarco	P2.3	Francisco José Garanhani	SP2-A72
Flavio Franchello	SP1-K45	Francisco José Santos	SP3-L265
Flávio Garcia	F7.2	Lima	
Flavio Horowitz	SP2-D58, SP2-I21	Francisco Marcos Batista	SP1-L32, SP1-L39
Flavio Leandro Souza	SP1-N15, SP3-F185	Francisco Moura Filho	SP2-L120, SP2-L121, SP3-L241
Flavio Machado de Souza	SP1-N18	Francisco Nelio Costa	SP1-A22
Carvalho		Freitas	
Flávio Makoto Shimizu	K2.4, K3.2, SP1-K37	Francisco Piorino Neto	D2.2
Flávio Plentz	P1.2, SP2-P22, SP3-F189	Francisco Rolando	SP1-L31
Florêncio Gomes de Ramos Filho	SP1-F30, SP1-F44, SP2-I22	Valenzuela Diaz	
Fozia Rehman Khan	SP2-I33	Francisco Santos Dias	SP3-I101, SP3-I103
F. P. Luce	D3.3, F2.5, SP1-N16, SP2-D108, SP2-D110, SP2-F119, SP2-M16, SP2-M17, SP2-M18	Francisco Welton de Oliveira Amarante	SP3-I109, SP3-L260
Franciani Sentanin	SP2-I23	Francisco Xavier de Campos	SP2-B98, SP3-I107
Franciele Aline Bruinsmann	SP1-B51, SP1-B53, SP2-B91	Françoise Serein Spirau	SP1-K14
Franciele Nicole Dos Santos	SP1-B49	Françoise Toledo Reis	K4.3, SP3-F131
Francieli Borges de Oliveira	SP2-B104	François Flory	F6.2
Francieli Colussi	SP2-F90	François Graner	SP3-Q21
Franciellen Ferreira	SP2-K100	Francois Horreard	SP2-M26
Francine Albernaz Lobo	SP1-B48	François Jomard	SP3-D146, SP3-D148
Francini Gonçalves Manzato	SP3-Q5	Frank Ferrer Sene	SP3-H17
Frâncio Souza Berti	SP1-N16, SP2-D110	Franklin Pessoa Aguiar	SP3-I127
Rodrigues		Frank Nelson Crespilho	SP2-K64, SP2-K86
Francisca Martins Pereira	SP1-L43	Frank Nüesch	SP1-C3
Francisco Aldemir Teles	SP1-L98	Frank Patrick Missell	SP1-A17
Bélem		Francisco Wendell	SP3-L253
Francisco Augusto Tourinho	D7.3, SP2-A106	Bezerra Lopes	
Francisco Batista Dos Santos Segundo	D5.6	Frederico Augusto Pires Fernandes	SP2-D88, SP2-M10, SP3-D121
Francisco Carlos Lavarda	SP1-L74, SP3-G44, SP3-G8	Frederico Costa Silva	SP1-A34
Francisco Carlos Serbena	SP1-D34, SP2-D70	Frederico Dias Brandão	F8.1, SP2-F92
Francisco Eduardo Gontijo Guimarães	SP2-F90, SP2-F93, SP3-D130	Frederico Duarte	SP2-F68
Francisco E.g. Guimaraes	K7.1, SP1-K24, SP2-D107, SP2-D60, SP2-F83, SP3-D171	Menezes	
Francisco Erivan Melo	E8.1	Frederico Guilherme Cunha	SP2-L123
Francisco Estênio da Silva	SP1-A22	Frederico Ramos	P6.2
Francisco Jonas M Maia	SP1-A21	Fioravante	
		Frederico Sellos Mattoso	SP1-D36, SP3-D136
		Frederic Petroff	A3.1
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		Gabriela Borin Barin	SP1-F39, SP3-F180
		Gabriela Byzynski Soares	M5.3, SP2-F110, SP2-F111
		Gabriela Cordeiro	SP3-F197
		Gabriela Dantas Camelo	SP3-F151
		Gabriela de Bastos	SP2-D82, SP2-P6, SP3-D151
		Gabriela Emília Souza	SP3-I91

Gabriela Gallardo Gomez	SP2-F127	Geovane Lopes de Sena	SP2-D75, SP3-Q46
Gabriela Lamounier	SP1-K46	Geraldo Beyer Machado	I4.2, I5.2, SP3-I115
Pereira Alves		Geraldo Magela de Lima	SP1-L17
Gabriela Marielli da Luz	SP1-B55, SP2-D78	Geraldo Magela Trindade	SP2-P18, SP2-P23
Gabriela Patricio Nunes	SP1-B37	Geraldo Maurício	SP2-M11, SP2-M12
Gabriela Regina Xavier	H5.2	Cândido	
de Souza		Geraldo Narciso Filho	SP2-F58
Gabriela Ribeiro Pereira	SP1-N12, SP3-H32	Gérard Henrion	D4.1, D8.4
Gabriela Schaab	B2.3	Gerhard Hans	SP3-D144
Gabriel Cogo	O2.2	Knornschild	
Gabriel Delaneze Beloque	SP3-H18	Germana Maria Santos	SP1-B41
Abib		Paiva	
Gabriele Campbell Link	SP2-A100, SP2-A96	German Dario Serrano	SP2-A94
Gabriele Scheidt	SP1-D52, SP1-L6	Germano Tremiliosi-	D8.1, SP1-F28, SP2-D88
Gabriel Ferraz	SP2-B75	Filho	
Gabriel Giron Corrêa	SP3-I75, SP3-I95	Geronimo Perez	SP1-A52
Gabriel Goetten de Lima	SP3-D161	Gerry Lucovsky	C1.2
Gabriel Lima	SP2-D118	Gerson Arisoly Xavier	SP2-B94
Gabriel Porto Quadros	SP2-D80	Acasigua	
Gabriel R Mortari	SP3-I69	Gerson Inacio	SP3-G15
Gabriel Soares	A7.5	Gerson Santos	SP1-C47, SP1-K23
Gabriel Teixeira Landi	A2.5, SP2-A102, SP2-A84	Gerson Silv A Paiva	SP1-L4
Gabriel Triches Nunes	SP2-B107	Getulio de Vasconcelos	SP1-D37
Gabriel Vieira Soares	C1.2, C1.3, SP1-D16	G F Cheng	A8.1
Gaspar Darin	SP1-C19	Ghilherme Pereira	SP2-A104
Gean P.s Aguiar	SP2-K77	Guedes	
Gean Vitor Salmoria	SP2-B69, SP2-B97	Giancarlo Faini	A6.1
Gelmires Araújo Neves	SP1-L45, SP2-L152, SP2-L173	Giancarlo Melchior do	SP3-F129
Gelson Biscaia de Souza	SP3-D161	Prado	
Gelsoneide da Silva Gois	SP1-L85	Gian Francesco Dos Reis	SP3-D151
Gelson Freitas Miori	SP1-O2	Paganotto	
Gemima Barros Correia	SP1-F41	Gianluigi Botton	M3.1
Geneviève Kreibich	SP3-F146	Gian Paganotto	SP2-D82, SP2-I23, SP2-P6
Pinheiro		Gian Paulo Giovanni	SP3-F159, SP3-I113
Genilson Reinaldo da	SP3-F159, SP3-I113, SP3-Silva	Freschi	
George Barbosa da Silva	SP1-K49, SP2-B101, SP2-K113	Gian S Sousa	SP1-L83, SP3-L193
George Carlos Santos	SP3-J1	Gilberto Campos Fuzari	SP2-F77, SP2-L146
Anselmo		Junior	
George Edward Totten	SP2-M10	Gilberto Carvalho Coelho	J6.3, SP3-D137, SP3-D175, SP3-H6
George Jackson de	SP1-B16	Gilberto Dantas Saraiva	SP3-L260
Moraes Rocha		Gilberto Fernandes Lima	SP1-L101
George Ricardo Santana	SP2-F105, SP2-F107, SP2-Andrade	Gilberto Fernandes Sá	SP1-F26, SP2-I26, SP2-I27
Georgia Virginia da	SP1-F22	Gilberto Lima Thomas	SP3-Q21
Fonseca Santos		Gilberto Luiz Fraga	SP1-A43, SP1-A46
Geovana de Avila	SP1-L89	Gilberto Medeiros-	C5.1
Bockorny		Ribeiro	
Geovana Dresch Webler	I7.3	Gilbert Silva	SP3-H38, SP3-L275
		Gilcimar Pereira	SP3-Q42
		Gilderman Silva Lázaro	SP2-I30
		Gilmar Conte	SP1-K24

Gilmar Ferreira Batalha	O2.4, SP1-O1, SP1-O2	Glauco S. Maciel	I7.3
Gilmar Patrocínio Thim	SP2-I24, SP2-I45	Glaura Caroen Azevedo de Oliveira	SP1-C6
Gilson Gracia Silva	SP3-L272, SP3-Q37	Gleudson Cardoso	SP2-K111, SP2-K75, SP2-K79
Gilvan Sérgio Barroso	SP2-F82	Glenda Biasotto	SP1-F19
Gineide Conceição Dos Anjos	SP3-H4	Gleyce Tavares Ruel	SP3-D127, SP3-D150
Gino Capobianco	SP1-F35, SP1-F56	Gleguestone Lopes	SP1-A54
Giorgio Giunta	SP3-I133	Gleyson Tadeu Almeida Santos	SP2-F74, SP2-F75, SP2-F77, SP3-F144
Giovani Gozzi	SP1-C33	Gloria Almeida Soares	SP2-L122
Giovani Ritta Rodrigues	I5.2	Goran Brankovic	F1.2, L7.1
Giovanna Machado	H6.4, SP1-F15, SP1-K40, SP2-F68, SP3-F164	Graciela Aparecida Dos Santos Silva	D1.2, SP1-L2
Giovanna Rodrigues Melin	SP2-B128	Graciele Berndt	SP2-A78
Giovannia Araujo Pereira	SP3-I116	Gracielle Ferreira Andrade	I2.2, SP3-I96
Giovanni Finoto	SP3-G46	Gracy Karla da Rocha Cortes	SP3-I88
Caramori		Graziâni CandiOTTO	SP1-K47
Giovanni Pimenta Mambrini	SP2-L169	Graziela Casali	L5.2, SP1-L27, SP1-L28, SP1-L88, SP2-L118
Gisane Gasparotto	SP1-C35, SP3-L210	Graziela da Silva Savonov	SP2-D87
Gisela Kloc Lopes	SP1-B47	Graziele Lopes Souza	SP1-C43
Gisele A Souza	SP1-A32, SP1-A33, SP2-A75	Graziella Trovati	SP1-K10, SP1-K8, SP1-K9
Gisele Ezechiello da Silva	SP1-F10, SP1-F13, SP1-F8, SP1-L7	Grazielle Bortolini	D6.2
Gisele Gasparotto	SP2-L112, SP3-L204, SP3-L210	Gregório Couto Faria	K3.3, SP1-K35, SP1-K38
Gisele Hammes	SP3-H49	Gregory Arnoult	SP1-D53
Giseli Allende de Souza	SP3-L223, SP3-L227, SP3-L229	Griselda Flores	SP3-F168
Giselle Barata Costa	SP3-J24	Guilherme Alexandre Zeferino	SP3-H24
Gislane de Jesus Oliveira	SP2-B100, SP2-B99	Guilherme Botega Torsoni	SP1-A32, SP1-A33, SP2-A75
Gislayne Elisana Gonçalves	SP1-K53, SP1-K55	Guilherme Dalla Lana Semione	A5.5
Gislene Aparecida Santiago	SP1-B2, SP1-B4	Guilherme de Oliveira Cruz	SP1-L101
Gislene Custódio	SP2-D113, SP2-I63	Guilherme de Souza Braga	SP2-K90
Gislene Zehetmeyer	SP3-Q2	Guilherme Duarte de Barros	SP1-L35
Gisley de Souza Brito	SP1-L90, SP3-L256	Guilherme Fernandes Nielsen	SP1-D41
Giuliana Pavaneli	N3.3	Guilherme Ferreira	SP1-C17
Giuliano Spinelli	SP2-M28	Guilherme Forbeck	SP2-F100
Giulina Nardini	SP3-Q27	Guilherme Francisco Pires Junior	SP1-L43
Giuseppe Pintaúde	SP3-D139	Guilherme Frederico Bernardo Lenz E Silva	SP1-L1
Giuseppe Zanella	L4.2, SP3-D138		
Sampaio			
Gizele Cardoso Fontes	SP1-B52		
Glauber Silva Godoi	SP1-N11, SP2-L145		
Glaucia Grazielli Basso	SP2-B114, SP2-B120		
Glaucio Fonseca	SP3-G15		
Gláucio Soares da Fonseca	SP3-G37		

Guilherme Josué Machado	SP3-F193, SP3-F194, SP3-F195		
Guilherme Leocárdio	SP2-B79		
Lucena			
Guilherme Macedo Silva	SP2-D93		
Guilherme Mariz de Oliveira Barra	SP1-C18, SP1-C38, SP1-C40, SP3-F153		
Guilherme Melo	SP3-D139		
Guilherme Oliveira	SP1-L17		
Siqueira			
Guilherme Tkotz	SP3-H42		
Guilhermina Ferreira Teixeira	SP3-L204		
Guillaume Reinhart	J6.1		
Guillermo Van Erven Cabala	SP1-F37, SP3-Q34		
Guinther Kellermann	N2.3, N3.3, SP1-N16		
Gunar Vingre da Silva	SP1-N14		
Mota			
Gunther Johannes Lewczuk Gerhardt	SP1-A17		
Gustavo Alberto Ludwig	SP3-J5		
Gustavo Bavaresco	SP2-D112		
Sucharski			
Gustavo Bonfim Kapusta	SP2-D59		
Gustavo Brunetto	P2.4		
Gustavo de Medeiros Azevedo	F7.2, F7.4, SP1-N16		
Gustavo de Paula	B5.1		
Gustavo Fernandes Araujo	H5.1		
Gustavo Fóscolo de Moura Gomes	A1.3		
Gustavo Galleani	SP2-L126		
Gustavo Gonçalves Dalkiranis	SP2-K102, SP2-K109		
Gustavo Marcati Alves	SP3-D134		
Gustavo Monteiro Dias	O3.3		
Gustavo Pimenta Ricci	SP2-I31		
Gustavo Quereza Freitas	SP2-A75		
Gustavo Roberto Ramos	SP1-F15		
Gustavo Rocha de Castro	I7.4, SP1-D21, SP2-I34, SP2-I35, SP2-I43		
Gustavo Rossignatti	SP1-N2		
Gomes			
Gustavo Ruivo Salmazzo	SP2-K66		
Gustavo Sanguino Dias	SP2-D92		
Gustavo Targino Valente	SP2-F93		
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Halisson Souza Pinheiro	SP3-L239		
Hameed Ullah	SP3-I100		
Hamilton Ferreira Gomes de Abreu	H5.5, SP1-A22		
Han Pang Huang	SP3-F187		
Hans D.- Pfannes	A1.3, SP2-A107, SP2-A117		
Hans Fernando Rocha Dohmann	SP1-B52		
Hans Micklitz	A6.3, SP2-A128		
Harold J. Hovel	C4.1		
Haroldo Marques Gonçalves	SP3-D127		
Haroldo Naoyuki Nagashima	SP1-K55, SP1-K61		
Harrison Almeida Dantas	J7.2		
Haryane Ribeiro Morais da Silva	SP3-I85		
Hazim Ali Al-Qureshi	L2.3		
Heber Carlos Ferreira	SP2-L152		
Heberton Wender	F5.5, SP3-F193, SP3-H48		
Heden da Costa E Silva Alves	SP2-D72		
Heinkel Bentos Pereira	SP1-F51		
Heinz Amenitsch	K5.4		
Heinz Deters	L7.2		
Heinz-Rolf Stock	D5.4		
Heinz Von Seggern	K3.3		
Heitor Aguiar Polidoro	D4.3		
Hélder D. Silva	B6.1		
Helder Nunes da Cunha	SP1-C10, SP1-K36		
Helder Prado Santos	SP1-F38		
Heldiane Souza Dos Santos	SP2-M1		
Helena Maria Petrilli	SP2-K122		
Helenise Almeida do Nascimento	SP3-I85		
Helen Mota	SP2-M7		
Helge Decho	D5.4		
Helge Rosner	A7.3		
Helia Bibiana León Molina	SP2-B127		
Heliara Lopes do Nascimento	SP1-B24		
Helinando Pequeno de Oliveira	SP1-F14, SP1-F16, SP2-F62		
Hélio Chacham	P5.1, P5.4, P6.2, SP2-P25, SP3-G47		
Helio Goldenstein	SP2-A108, SP2-M27, SP3-H1, SP3-H23		





Jackeline Barbosa Brito	SP2-B95, SP2-K106, SP2-K107, SP2-K75, SP2-K76, SP2-K77, SP2-K91, SP2-K92	Jan Vatavuk	SP1-D29, SP3-D170, SP3-I114
Jackeline da Costa Maciel	SP1-A14, SP1-A35, SP1-A37, SP1-A42	Jaqueline Alves Almeida	SP3-F136
Jackeline Rosario Collave	SP2-A126	Jaqueline Borges Ribeiro	SP1-L82, SP3-L177
Garcia		Jaqueline de Carvalho	SP3-I121
Jacob Schaf	SP1-A15, SP1-A4, SP1-A53, SP1-A55, SP1-A60, SP1-A68, SP2-A123	Rinaldi	
Jacqueline Argüello da Silva	SP2-I66, SP3-Q44	Jaqueline Santos Soares	P5.4, SP3-G45
Jacqueline Ferreira	D1.3	Jardel Cavalcante Rolim	SP3-L222, SP3-L223, SP3-L227, SP3-L229
Jacques Guerin	F6.2	Jardel de Almeida Andrade	H5.5
Jaegeun Kim	SP3-F191	Jardel de Souza Belo	H5.5
Jaime Alberto Sanches	SP2-L126	Jardel Meneses Rocha	SP1-L32, SP1-L39
Caceres		Jarem Raul Garcia	SP1-K56
Jaime Alvares Spim	J8.1, SP3-H41, SP3-H42, SP3-J15, SP3-J18	Járlesson Gama	K7.3
Jair Fernandes de Souza	SP1-C9	Amazonas	
Jair Marques Junior	SP1-B44	Javier Briatico	A6.1
Jairo Arturo Escobar	H2.5, SP3-Q50	Javier Gomez Romero	SP1-L52
Jairo Drummond Câmara	SP1-L69	Javier Gustavo Cabal	SP2-F127
Jairo Ernesto Perilla	SP2-B127	Velarde	
Jairo Roa-Rojas	A9.1, SP2-A105	Javier Wachter	SP3-G34
Jair Scarminio	SP2-F126, SP3-F171, SP3-F176	Jayna Dionisio Santos	SP2-B86, SP3-Q39
Jairton Dupont	F5.5, I5.3, SP1-B45, SP2-I50, SP3-F143, SP3-F167, SP3-F192, SP3-F194, SP3-H48	Jayne Carlos de Souza	SP1-B39, SP1-B40
Jakeline Daniela Soares da Silva Nascimento	SP1-L31, SP1-L77, SP3-L220	Barboza	
Jamil Saade	SP1-B58, SP3-H35, SP3-H37	Jayr Amorim Filho	SP1-D7
Janaína Alves Peixoto	L8.1	Jean Claude M'peko	SP2-L126, SP3-L249
Janaína Karla de Medeiros Penha	SP3-D176, SP3-L266	Jeane de Almeida do Rosário	SP1-L67
Janaina Leite Howarth	SP1-B7	Jeane Dullius	SP1-B57
Janaína Versiani Dos Anjos	K6.2	Jeann Diniz Ferreira Lima	SP3-I101, SP3-I103
Jandilson Soares	SP2-L110	Jeannette Dexpert-Ghys	I7.4
Fernandes		Jean-Pierre Lère-Porte	K6.3, SP1-K14
Jandir Miguel Hickmann	I7.3	Jean Silva Rodrigues	SP2-B119
Jane Maria Faulstich	SP2-B103	Jediel Oliveira Damas	SP2-I31
Paiva		Jeferson Tiago Silva	SP2-A89
Janete Eunice Zorzi	SP1-F15, SP1-L20	Jefferson Bettini	SP2-M23
Janice Adamski	SP3-F167	Jefferson Luis Ferrari	SP3-L205
Janice Kottwitz	SP3-D150	Jefferson Maul	SP1-L27, SP1-L28, SP1-L33, SP1-L88, SP2-B79
Janice Rodrigues Perussi	B2.2	Jefferson Patrício Nascimento	SP2-P18
		Jeremy Peterson	O2.1
		Jérika Suely Lamas	SP1-A16
		Jerome Depeyrot	D7.3, SP2-A106
		Jerome Lesueur	A6.1
		Jérôme Leveneur	SP2-D108
		Jerzy Hanuza	E8.1, SP1-F21, SP3-E4
		Jesiel Freitas Carvalho	SP2-L170, SP3-L273
		Jessica Alexandre	SP2-F80
		Jessica Alves Marins	SP2-A120, SP3-I124
		Jessica Colnaghi	SP1-C39
		Fernandes	
		Jéssica de Vargas Santos	SP3-G17, SP3-G18,

Jéssica Furtado Guimarães	L8.2	João Felipe Mathiazi Pereira de Souza	SP2-I36
Jessica Kimie Akishino	SP1-F43	Joao Francisco Justo Filho	SP1-C6, SP3-G35, SP3-G36
Jéssica Zaroubin	SP1-C22	João Genuíno Júnior	SP3-H46
Jesualdo Luiz Rossi	SP1-F45, SP3-J25	João Guilherme Rocha POCO	SP1-F52
Jesum Alves Fernandes	SP3-F143, SP3-F193, SP3-F194, SP3-F195	Joao Gustavo Pereira da Silva	L2.3
Jesus Evelio Diosa	SP1-F48	João Henrique Zimnoch Dos Santos	SP2-F89, SP2-I64, SP3-D149, SP3-I118, SP3-I75, SP3-I76, SP3-I84, SP3-I95
Jesus Miguel Fernández-Hernández	I7.2	Joao Jarllys Nobrega de Souza	SP3-L206
Jesús Roberto Castillo Chamorro	SP1-F55	João J. B. M. da Cunha	SP2-A78
Jiang Kai	SP2-L125	João José M. Santos	SP3-F183
Jivado Rosário Mattos	SP1-N18, SP3-Q57	João Luis Pereira	SP1-D6
J. Mestnik-Filho	SP3-F142	João Manuel Domingos de Almeida Rollo	SP3-Q7
Joab Trajano Silva	SP1-B60, SP1-B63	João Marcos Gonçalves	SP2-K81
Joana Gomes Meller	SP2-L143, SP2-L148	João Marcos Madurro	SP2-D72, SP2-D81, SP3-D157
Joana Mara Teixeira Santos	SP2-I55	João Paulo Barros Machado	D2.2, SP3-D172
Joana Maria Barros	SP3-L248	João Paulo Coelho	SP2-P18
Joana Paula Mota Pinto	SP1-C39	João Paulo Freitas Grilo	SP1-C43
Joan Josep Roa Rovira	SP1-A15	João Paulo Gazola	SP2-A124
João Alziro Jornada	SP2-P7	João Paulo Gelamos	SP2-F91
João Anderson Ferreira Irineu	SP3-D126	João Paulo Sinnecker	SP2-A71
João Antonio Martino	SP1-C44	João Ricardo Filipini da Silveira	SP1-A17
João Augusto Guedes Oliveira	SP2-D61	João Roberto Moro	D5.1, SP1-N8
João Barros Valim	SP2-F85	João Teles de Carvalho Neto	SP2-A118
João Batista Lopes Martins	L3.1, SP1-L8, SP2-L153, SP2-L156, SP2-L157, SP2-L163, SP3-L187, SP3-L207, SP3-L212, SP3-L256	João Vitor Lara	SP1-K60
João Batista Meireles	SP2-D111, SP2-D91	João Vítor Silva Ormonde	SP2-B108
João Batista Pereira Júnior	SP1-A50	Jocenir Boita	N5.2
João Borges da Silveira	SP1-A32, SP1-A33	Jochen Litterst	A3.2, SP2-A130, SP2-A131, SP2-A132
Joao Bosco Lucena Oliveira	SP1-L41, SP1-L42, SP3-Q32	Joel Camargo Rubim	A5.4, SP1-A18
João Carlos Angelico	SP2-A87	Joel Pereira de Souza	C4.1
João Carlos da Silva	SP3-H38	Joel Santana do Nascimento	D5.6, F5.3
João Carlos Fernandes	SP2-M11	Joelson Cott Garcia	SP3-G36
João Carlos Krause	SP1-A4, SP1-A53, SP1-A55, SP3-G20	John Coville Neil	K8.2
João Carlos Silos Moraes	SP3-L236, SP3-L270	John Fritzgerald Cury	F3.2, SP3-F130
João Costa	SP1-K22	Johnnatan Rodríguez	O2.3
João Dinis	SP1-K22	Johnny Huerta Flores	I2.4
João Diniz Junior	SP1-L66	John Seaman	O4.1
João Domingos Augusto Dos Santos Pereira	B6.3	Joice Terra	M5.4
João Edgar Schmidt	A3.1, SP1-A43	Jomar Dias da Silva	SP2-B101



Jonatas Silva Cavalcante	SP3-D129	José Antonio de Saja	SP2-K115
Jonathan E. Williams	C4.3	José Antônio Eiras	A2.3, N5.4, SP2-L124, SP2-L171, SP3-L263
Jonathan Faraco França	SP1-C38	José Antonio Esmerio Mazzaferro	O3.1, O3.4, O4.3, SP1-O4
Jonathan Hill	K5.4	José Antonio Malmonge	SP2-F73
Jonathan Martin	O5.1, SP3-G47	José Antônio Peixoto Cunha	SP2-M11
Jonder Morais	N5.2, SP1-N1, SP1-N3, SP2-F80, SP2-L102	José Antonio Seneda	SP2-F103
Jones Willian Soares de Queiróz	C5.2	Jose Antonio Souza	SP2-A122, SP2-K99
Jong Wook Huh	SP2-P11, SP2-P19	José A. O. Garcia	H4.1
Jon Jennings	O3.2	José Arana Varela	D1.2, L7.4, L9.1, SP1-C35, SP1-D52, SP1-F19, SP1-F42, SP1-F46, SP1-F54, SP1-L21, SP1-L30, SP1-L44, SP1-L48, SP1-L59, SP1-L60, SP1-L62, SP1-L78, SP1-L82, SP2-D79, SP2-F60, SP2-F96, SP2-F97, SP2-L103, SP2-L105, SP2-L111, SP2-L112, SP2-L115, SP2-L132, SP2-L146, SP2-L159, SP2-L172, SP2-L174, SP2-M20, SP2-M22, SP3-L204, SP3-L210, SP3-L224, SP3-L225
Jordana Borges Griep	SP2-I62	José Aroldo Viana Dos Santos	SP2-D94, SP3-G26
Jordana Rodrigues de Castro	SP2-B128	Jose Augusto Dos Santos Junior	I3.3
Jordi Arbiol	SP2-F68	José Augusto Oliveira Huguenin	SP2-D111, SP2-D91
Jorge A. Gómez	SP1-C3	José Batista de Camargo Junior	SP3-I87, SP3-I89
Jorge Alberto Durán	SP3-H16	Jose Benaque Rubert	SP3-H15
Jorge Alberto Vieira Costa	B3.2	José Benedito Marcomini	SP3-H1
Jorge Carlos Pereira	J9.1	José Brás Barreto de Oliveira	SP1-C17, SP1-C45, SP1-C46, SP3-D129, SP3-L251
Jorge Chahine	G8.1	José Carlos Alves Galvão	SP3-L254
Jorge Dos Santos	O1.1, O3.1, O3.4, O4.3, SP1-O4, SP2-D105	Jose Carlos da Rocha	SP3-F188
Jorge Fernando Silva de Menezes	SP2-B74, SP3-Q29	José Carlos Dos Santos	SP3-I119
Jorge Henrique Piva	SP3-Q15	José Carlos Freitas Mota	B1.3
Jorge Leon	P1.2	Jose Carlos Marconato	SP1-B33
Jorge Luis Lopez Aguilar	SP2-A107, SP2-A117	Jose Castillo	SP1-D29
Jorge Luiz Pimentel Jr.	A7.4	José Costa Macedo	SP2-F59
Jorge Luiz Rosa	SP1-B16, SP1-D11	José Daniel Biasoli de Mello	SP3-D133
Jorge Manso Rocha	SP2-A85	José Daniel Diniz Melo	SP1-A13, SP1-L9
Jorge Otubo	SP3-H30	José da Silva	SP2-K113
Jorge T Matsushima	SP2-L113	Jose David Cojal Gonzales	C2.3
Jorge Tomioka	SP3-F182		
Jorge Vicente Lopes da Silva	SP3-L186		
José Alberto Giacometti	K2.4, K3.2, K8.3, SP1-K37, SP1-K50, SP1-K59, SP1-K62, SP2-K114, SP2-K86		
José Alberto Pires Fernandes	SP3-F149		
Jose Albino Aguiar	A5.1, A7.2, F3.1, SP1-A14, SP1-A35, SP1-A37, SP1-A63, SP1-A66, SP2-A70, SP2-F68, SP3-F164		
José Alexandre Diniz	SP1-C23, SP1-C9		
José Alzamir Pereira da Costa	E9.1, SP3-E6		
Joseanne Lima Sales	SP1-L84		
José Antonio Castro da Silva	SP3-L245		

Jose de Alencar Simoni	SP3-I100	José Luiz Gomes Neto	SP1-A25
José Demontier Vieira	H5.5	José Luiz Minatti	SP3-H18, SP3-H19, SP3-L247
Jose Divino Dos Santos	SP1-L8, SP1-L90, SP2-L153, SP2-L156, SP2-L157, SP2-L163, SP3-L187, SP3-L212, SP3-L256	José Manuel Rodrigueiro Flauzino	SP2-D72
José Domingos Ardisson	A1.2, SP1-A4, SP1-A53, SP2-A69	José Marcelino Filho	J7.4, SP3-J22, SP3-J9
José Eduardo Padilha de Souza	P2.1	José Marcos Sasaki	SP1-A24, SP2-A99
José Eduardo Fonseca	SP3-H27	Jose Maria Cabrera Marrero	M2.3, SP2-M24, SP3-H3
Jose Eduardo Manzoli	SP3-Q40	José Maria do Vale	SP3-J17
José Eduardo Penteado Zago	SP2-B111	Quaresma	
José Eduardo Spinelli	J8.2, SP3-J3, SP3-J6, SP3-J7	Jose Maria Lagaron	B2.1
José Elias Lopes	SP3-L243	José Mário Carneiro	H6.1
José Ezequiel de Souza	SP3-L203, SP3-L249	Vilela	
José Fernando Dagnone Figueiredo	SP2-L140	José Maurício Almeida Caiut	I7.4, SP2-I42, SP2-I51, SP3-I79
José Fernando de Lima	L7.2	Jose Mauro Granjeiro	SP1-N12
José Fernando Fragalli	SP2-D65	José Maximiano F. Pinheiro	SP1-K41
José Fernando Queiruga Rey	F5.2, SP3-F161	José Milton Elias de Matos	SP1-B41, SP1-C10, SP1-L32, SP1-L39, SP1-L66, SP1-L73, SP1-L83, SP2-L137, SP3-L193, SP3-L196
José Figueiredo	SP1-K33	José Milton Gabriel Lopes	SP1-L70, SP1-L75, SP3-H26, SP3-L242
José Flávio Feiteira	SP3-G15	Jose Nazareno Silva	SP3-J22, SP3-Q42
José Flávio Timóteo Júnior	SP3-F183, SP3-L258	Josenete Ferreira Mendes	SP3-L245
José F Martinatti	SP3-D135	José Nivaldo Garcia	SP3-Q54
José Francisco Naime Filho	SP2-F85	José Pedro Mansueto Serbena	SP1-C37, SP2-A97
José Geraldo de Melo Furtado	SP1-F10, SP1-F13, SP1-F8, SP1-F9, SP1-L13, SP1-L7	José Pedro Rino	G8.3
José Geraldo de Paiva Espínola	SP3-I127, SP3-I83, SP3-I85	Joseph N. Grima	E7.3, SP3-E10, SP3-E9
Jose Geraldo Espinola	SP2-D100	José Ramon Jurado Egea	SP1-C49
José Geraldo Nery	SP2-B114, SP2-B120, SP3-I67, SP3-I68	José Renato Jurkevicz Delben	SP2-B112, SP2-B122
José Gilberto da Silva	SP2-B74	Jose Rey Queiroga	SP3-F187
José Gomes Filho	SP1-A3, SP2-A119	José Ribeiro Gregório	I1.3, SP3-I105
José Hélio Saraiva Girão	SP3-L223	Jose Ribeiro Santos Junior	SP1-K36, SP2-D94, SP3-G26
José Henrique Alano	SP3-H30, SP3-H40	José Ricardo Borba	SP2-D98
Jose Higino Dias Filho	SP2-A107, SP2-A117	José Ricardo da Costa	SP3-I120
José Hilton Rangel	SP3-L243	José Ricardo Miranda	SP2-A98
José Humberto Dias da Silva	SP1-C17, SP2-A87, SP3-F166, SP3-F190	Jose Roberto Branco	D2.6, F2.4, SP1-C21, SP1-D43, SP1-F34, SP2-D106, SP2-I63
Jose Javier Saez Acuña	A3.3, F5.4, SP1-C37	José Roberto Sá de Oliveira	SP3-H29
José Joaquim Melo	SP1-C37	José Roberto Siqueira Jr	SP1-K30
José Joatan Rodrigues Jr.	SP1-F14	José Roberto Tozoni	SP2-A118
José L. Duarte	SP1-K45, SP2-K102	José Roberto Zamian	SP2-F58
José Leonaldo Souza	SP3-L259, SP3-L269	José R. Ribeiro Bortoleto	SP1-D49, SP1-D50
Jose Luis Passamai Jr	SP2-A125		

Jose Rubens Gonçalves Carneiro	D2.6, H6.1, SP1-D33	Juliana de Fátima Prestes Souza	SP1-K18
José . Varalda	SP1-A12, SP1-A9	Juliana de Oliveira Pimenta	SP1-L76, SP1-L78, SP2-D79, SP2-L132
José Yvan Leite	SP3-L259	Juliana Fernandes Mendes	SP2-I61
Josiane Aparecida Sobrinho	SP1-C20, SP3-L244	Juliana Graunke	SP1-D14
Josiani Cristina Stefanelo	SP1-K43	Juliana Jorge	I7.4
Josias Falararo Pagotto	D8.1	Juliana Lopes Hoehne	SP2-D117
Josinaldo Pereira Leite	SP1-A25	Juliana Marques Ramos	SP2-A116
Josivandro do Nascimento Silva	SP1-B58, SP3-H35, SP3-H37	Juliana Mesquita de Andrade	SP1-F9, SP1-L13
Josmary Rodrigues Silva	SP1-K49, SP2-B95, SP2-K106, SP2-K107, SP2-K111, SP2-K112, SP2-K114, SP2-K75, SP2-K76, SP2-K77, SP2-K78, SP2-K79, SP2-K91, SP2-K92	Juliana Nascimento Lunz	B1.3
Jossano Saldanha Marcuzzo	D4.3, D5.5	Julian Andres Munevar Cagigas	SP2-A129
Josué Alves de Queiróz Júnior	SP2-D75, SP3-Q46	Juliana Pivotto Nicodemo	SP1-F5, SP1-L11
Josue Mendes-Filho	E8.1, SP1-F21	Juliana Rodrigues Pegos	SP3-F139
Josué Verdi	SP3-D174	Juliana Schultz	SP1-F35
Josy Oliveira	SP1-A13, SP3-H46	Juliana Villela Maciel	SP2-I60
Joyce Batista Azevedo	SP1-B14	Juliana Viol	SP1-F18
Joyce Cruz Santos	SP2-B89	Juliana Zarpellon	SP1-A7
Joyce Kelly Marinheiro Gonsalves	SP3-I128	Julian David Correa	SP2-F86, SP2-P5
J. R. Carmo	SP3-F142	Juliane Carla Bernardi	SP1-D5, SP1-D9
Juan Alfredo Guevara Carrió	SP3-D170	Julian Eduardo Castillo	SP1-F48
Juan Andrés	G6.1, L7.4, L9.1	Juliane Mattiazzi	SP1-B20
Juan Arias	C2.5	Juliane Zacour Marinho	SP1-L53, SP1-L82, SP3-L177
Juan Carlos Barbosa Cibalde	SP1-L84	Julian Geshev	A3.1, SP2-A84
Juan Carlo Villalba	SP3-F129, SP3-I72, SP3-I73	Julian Munevar	A8.1
Juan E. Perez Ipiña	H7.5	Juliano Casagrande Denardin	SP2-A86
Juan Guilherme Martim	SP1-D45	Juliano Elvis Oliveira	B5.1, SP1-C24, SP2-B113
Juan Lucas Nachez	D5.2, SP2-A113	Juliano Marini	SP2-F101
Juho Kim	SP2-P11, SP2-P19	Julián Valderrama	O5.4
Júlia Baruque Ramos	SP2-B128	Julien Martin	D8.4
Julia Carolina Fideles	SP3-Q54	Julio Antonio Beltrami da Silva	O1.3
Júlia Maria Giehl	SP1-F11, SP1-F29	Júlio Cesar Góes	SP1-A27, SP1-B10
Júlia . Martins	SP2-K74	Julio Cesar Guimarães	SP1-A59
Juliana Alves Pereira Sato	SP2-A91	Tedesco	
Juliana Baiense	SP1-B63	Julio Cesar Klein Neves	SP3-D139
Juliana Bergamasco	SP2-B114	Júlio César Martins da Silva	SP1-F23, SP1-F7
Juliana Caldeira Brant	P1.2, SP2-P22	Júlio César Oliveira Freitas	SP1-L61, SP1-L94, SP1-L98, SP3-L221, SP3-L233
Juliana Campos Junqueira	SP2-K81	Júlio César Sczancoski	SP1-L44
Juliana Coatrini Soares	SP1-K10, SP1-K8, SP1-K9, SP2-K69, SP2-K89	Julio César Zapata	O5.4
		Julio C.j. Flores	SP2-K77
		Julio Flemming	SP3-E5
		Julio Miranda Pureza	D6.2, SP2-D64
		Julio Nardenha	SP1-F3



Khush Bakht Akram	L1.3	Laura Oliveira Péres	SP1-K32, SP1-K56, SP2-K64
Kimberly J Miller	E8.2	Laura Osmari Vendrame	SP3-G7
Kirlyane Christinne Vital Santos	SP2-B123	Laura Ximena Lovisa	SP3-F183
Kisla Prislén Siqueira	SP1-C51	Laurent Dessemond	F1.3, SP1-F2
Klaus Krambrock	F8.1, SP2-F92	Lauro June Queiroz Maia	SP2-F114, SP2-L170, SP3-L217
Kleber Figueiredo Moura	SP1-L88	Lauro Tatsuo Kubota	SP3-Q44
Kleber Franke Portella	SP1-F43, SP3-L254	Laysa Pires de Figueiredo	SP1-N5
Kleber Lanigra Guimaraães	SP1-F52	Leandra Carla Aparecida Cordeiro	SP3-Q51
Kleber Roberto Pirola	A4.1, A7.5, I6.1, SP1-A54	Leandra Franciscato Campo	SP2-I39
Kleper de Oliveira Rocha	L2.5, L3.3, SP1-C12, SP1-L29, SP2-L134	Leandra Oliveira Salmazo	SP1-C32, SP2-K94
Koema Cavicciolli	SP3-I72, SP3-I73	Leandro Apolinário	SP2-B66
Krzysztof Hermanowicz	SP3-E4	Leandro Augusto Lemos Franco	SP2-M8
Krzysztof Witold Wojciechowski	E7.1	Leandro Augusto Silveira Artese	C2.2
Kumiko K Sakane	SP2-I24	Leandro Barros da Silva	SP3-G21
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Ladário da Silva	SP2-D111, SP2-D91	Leandro César de Lorena	SP3-J10
Laécio Santos Cavalcante	L9.1, SP1-L21, SP1-L44, SP1-L60, SP1-L87, SP2-L111, SP3-L219	Leandro Peixoto	
Laédna Souto Neiva	SP1-L41, SP1-L42, SP3-Q32	Leandro da Conceição	SP1-F2
Laercio Gouvea Gomes	SP3-J8	Leandro de Bispo	D1.3
Laércio Gouvêa Gomes	SP3-J16	Leandro Carneiro	
Laidson Paes Gomes	SP1-B60, SP1-B63	Leandro Disiuta	SP3-J26
Laís C. Brazaca	SP2-K115	Leandro Duarte Bisanha	SP1-D47
Lais Chantelle de Lima	SP3-L218	Leandro Langie Araujo	N2.2
Lais Henrique Pacheco	SP2-F63	Leandro Lopes	SP3-I69, SP3-I70
Laís Koshimiz	SP1-L15	Leandro Marcos da Silva Alves	A6.2
Lara Cb Gomes	SP3-F147	Leandro Marochio Fernandes	SP3-Q14
Lara Fernandes Loguercio	SP3-D162	Leandro Martins	SP2-I11, SP2-I3, SP2-I7
Lara M.pereira	SP2-I62	Leandro M Malard	P3.2
Montenegro		Leandro M. Socolovsky	M4.2, SP1-A54, SP2-I65
Larissa Brentano Capeletti	SP3-I118, SP3-I76	Leandro Piaggi Ravaro	C5.3, SP1-C1
Larissa Helena de Oliveira	SP1-L59, SP1-L60	Leandro Renato Cardili	SP2-B104
Larissa Martins	SP3-F176	Leanio Moraes Dos Santos	SP1-A63
Larissa Vilela Costa	SP1-D33	Lejdane Silva Barreto	SP1-F38, SP1-F39, SP2-I30, SP3-F165, SP3-F180
Larisse Gomes Salazar	SP3-F159, SP3-F179	Lee Cheen Tzu	SP3-Q25
Laudemir Carlos Varanda	A9.2, SP1-A40, SP1-A41, SP1-A49	Lee J. Hall	SP3-E7
Laura Abreu da Silva	SP1-L67, SP2-F82	Leidy Johana Jaramillo	SP3-L191
Laura Carvalho	SP1-B6, SP2-D99, SP3-Q33, SP3-Q36	Nieves	
Laura Fornaro	SP1-F50, SP1-F51	Leighanne Gallington	E6.1
Laura Gomes França	SP1-L71		

Leila Aparecida	SP2-I13, SP2-I61, SP3-I69,	Leticie Mendonça	SP2-A77
Chiavacci	SP3-I70	Ferreira	
Leila Figueiredo de Miranda	SP3-I114	Leydi Del Rocío Silva	I2.4
Leila Maria Oliveira	SP3-Q38	Calpa	
Coelho Merat		L. G. Martinez	SP3-F142
Leilane Roberta Macario	SP1-L30, SP1-L64	Liacir Dos Santos Lucena	P2.4
Leinig Antonio Perazolli	SP1-C35, SP3-L210	Liana A Rodrigues	D4.3, SP2-I45
Leliz Ticona Arenas	I1.3, SP2-I66, SP2-I8, SP3-I104	Liang Yan	F3.4, SP1-C15
Leni Campos Akcelrud	K4.2, SP1-K18, SP1-K35, SP1-K38, SP1-K44, SP1-K52, SP2-B90, SP2-K124, SP3-G11	Libero Zuppiroli	SP1-C3
Leni Figueireiro Leite	SP3-D158	Lídia Maria Andrade	I2.3
Lenilde Mérgia Ribeiro	SP1-L84	Lidiane Dal Bosco	SP3-F170
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Leonardo Alonso	SP1-A45	Lidiane Patricia	SP2-I56
Leonardo Arruda Duarte	SP1-D41	Gonçalves	
Bandeira		Lídia Oazem de Oliveira	SP3-F163
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Moreira		Lidija Mančić	L7.1
Leonardo Barbosa	H2.2, H2.4	Ligia Maria Manzine	SP1-B12, SP1-B13
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Leonardo da Cunha	SP3-D147	Lígia Oliveira Ruggiero	SP1-C1, SP1-C16, SP3-F166, SP3-F190
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Leonardo Dantas	SP3-G45	Liliam Kaori Yamada	SP1-L12
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Leonardo de Boni	SP2-K105	Dávila	
Leonardo de Conti Dias	SP3-G8	Liliane M.f. Lona	SP1-D1, SP1-K1, SP1-K2, SP2-F59, SP3-Q3, SP3-Q43, SP3-Q5
Aguiar		Liliane Neves Pedreiro	SP1-B42, SP1-B43
Leonardo Fernandes	B3.3, B4.2, SP2-B124	Lilian Maria Pessoa da	SP2-K85
Fraceto		Cruz Centurion	
Leonardo Frois	SP1-D55, SP1-D56	Lilian Marques Silva	SP3-H28, SP3-Q40, SP3-Q41
Hernandez		Lilian Soares Cardoso	SP1-K55
Leonardo Giordano	SP2-K90	Lincon Zadorosny	SP2-F73
Paterno		Lindberg Lima Gonçalves	SP1-A22
Leonardo Luis de Freitas	SP3-F173	Lindomar Roberto	L3.2, SP3-L184, SP3-L222,
Leonardo Marques	B6.3	Damasceno da Silva	SP3-L227, SP3-L229
Leonardo Matheus	K7.2	Líniker Fabrício Souza	SP2-F78
Marion Jorge		Lino Mendes Barbosa	SP3-G49
Leonardo Miotti	C1.2	Lioudmila Aleksandrovna	H6.3, SP3-H52, SP3-H53,
Leonardo Negri Furini	SP2-K73	Matlakhova	SP3-H7
Leonardo Paulo Ribeiro	SP2-F85	Lisandro Cardoso	SP3-F171
da Silva		Lisandro J. Giovanetti	N2.3
Leonardo Richeli Garcia	SP3-J11	Lisiane Bernardi	SP2-B94
Leonardo Schneider	K4.2, SP3-G11	Lisiane Navarro Lima	SP2-L173
Leonardo Wu	SP1-N13	Santana	
Letícia Cruz	SP1-B20	Lívia Cristina de Oliveira	SP3-Q6
Letícia Maria Oliveira	SP1-B1, SP1-B3	Felipe	
Letícia Marques Colomé	SP2-B121	Lívia Cristina de Souza	F3.2, SP3-F130
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Lívia Elisabeth Vasconcellos de Siqueira Brandão	SP1-D8	Luciana de Simone	SP2-I24
Lívia Maria Vargas	SP3-I68	Cividanes Coppio	
Livio Amaral	D8.3, SP3-F193	Luciana Dos Santos Galvão	SP1-B34
Liyang Liu	SP1-A26	Luciana Gampert	SP2-M1
Liz Contino Vianna de Aguiar	SP1-F44	Miranda	
Lorenzo Pastrana Castro	B4.1	Luciana Gomes Chagas	SP2-F126
Louise Potrich	SP2-D98	Luciana Machado Rodrigues	SP2-D80, SP2-I59
Lourdes Gracia Edo	G6.1, L1.1, L9.1	Luciana Muller Somavilla	SP1-F15
Luana Almeida Fiel	B2.3	Luciana Natalia Cividatti	SP1-L66, SP1-L73
Luana Lacy Mattos	SP3-F131	Luciana Pereira Silva	SP2-I54
Luana Motta Ferreira	SP1-B20	Luciana Prates Prisco	SP3-E2, SP3-E3
Luana S. Oliveira	SP2-D77, SP3-F186	Luciana Santos Afonso de Melo	SP3-D154, SP3-D156
Luana Vohlbrecht de Souza	I3.3	Luciana Silveira Lopes	SP1-A29
Luanna Ribeiro Drumond	SP1-L5	Luciana Valgas de Souza	SP2-I53, SP2-I56
Lucas Alan de Aguiar	SP2-D112	Luciana Ventavele da Silva	H7.3
Lucas Alonso Rocha	I4.1, SP2-I31, SP2-I47, SP2-I48, SP2-I49, SP3-I71, SP3-I79, SP3-I94	Luciane Souza Melo	SP3-L252, SP3-L271
Lucas Barboza Sarno da Silva	SP2-A92, SP2-A94	Luciane Tais Führ	SP3-J5
Lucas Biazon Cavalcanti	SP3-D139	Lucianna Gama	SP1-L41, SP1-L42, SP3-Q32
Lucas Bragança de Carvalho	SP3-G42	Luciano Augusto Lourençato	SP3-J23
Lucas Carvalho Veloso Rodrigues	SP2-L125	Luciano Bertaco Pereira	SP3-I69
Lucas Costa de Castro Ferraz	SP1-N15	Luciano Caseli	SP1-K32, SP2-D71, SP2-K108, SP2-K64, SP2-K83
Lucas Cruz Amarante	SP1-D26	Luciano da Silva	SP1-K60
Lucas Foppa	SP2-I50	Luciano José Oliveira	SP3-Q17
Lucas Fugikawa Santos	SP1-C33	Luciano Meireles Grillo	SP3-F151
Lucas Gomes Almeida	SP1-D18, SP1-D19	Luciano Montoro	M1.1, M3.2, N2.3, SP2-M23
Lucas Lemos da Silva	SP1-L56	Luciano Nóbrega Azevedo	SP3-L265, SP3-L268
Lucas Maciel Mussnich	P5.4	Luciano Paulino Silva	SP2-A133, SP2-A134
Lucas Mendonça da Rocha Oliveira	SP1-L30	Luciano Peske Ceron	SP3-Q59
Lucas Pereira Santos	B2.4	Lucía Suarez Fernandez	M2.3, SP2-M24
Lucas Rocha Dumont	SP3-Q53	Lúcia Vieira Santos	D5.5, SP1-D49, SP1-D50
Lucélia Celes Souza	SP1-F11	Lucídio Souza Santos	SP1-L58
Lucia Helena Innocentini Mei	SP2-B84, SP2-B85	Lucieli Rossi	SP1-K29, SP1-K31
Luciana Aparecida Narciso da Silva Brigunte	H5.1, H5.6	Luciene Mendes Ribeiro	SP1-B35, SP3-Q10, SP3-Q16, SP3-Q30
Luciana Boaventura Palhares	SP3-L197, SP3-L198, SP3-L200	Lucilene Betega de Paiva	SP2-F117
Luciana de Matos Alves Pinto	SP3-G42	Lucimara Stolz Roman	SP1-C28
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		Lúcio Sulzbach Silva	SP3-F195
		Lucy V. Credidio Assali	SP1-A65, SP1-C6, SP3-G35
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Ludmar Guedes Matos	SP2-M19	Luiza Nobuco Hirota	SP3-I127, SP3-I83, SP3-I85
Ludmilla Barros Nobre	SP1-C31	Arakaki	
Luelc Souza da Costa	SP3-I101, SP3-I103	Luiz Antonio Pessan	SP2-F113, SP2-F95
Luisa de Almeida Ribeiro	SP2-B126	Luiz Augusto Sousa de	A7.5, I6.1, SP2-A71
Luisa de Cola	I7.2	Oliveira	
Luis Amaral	SP2-F75	Luiz Bezerra de Carvalho	SP1-A14, SP1-A29, SP1-A31, SP1-A42
Luis Augusto Rocha	J9.1	Júnior	
Luis Carlos Caraschi	SP2-F122	Luiz Caparelli Mattoso	B5.1, SP1-B30, SP1-B31, SP1-B59, SP1-B64, SP1-K63, SP1-L63, SP1-L65, SP2-B104, SP2-B113, SP2-B73, SP2-B75
Luis Carlos Pereira	SP3-L179		
Luis Carlos Spolidoro	SP3-I69	Luiz Carlos Barbosa	N3.3, SP1-F11
Luis César Rodríguez	SP3-H22	Luiz Carlos Camargo	SP1-A45, SP2-A84, SP2-Miranda Nagamine A89
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Luis Chad	SP3-H32	Luiz Carlos Guedes	SP2-D109
Luis Dias Carlos	I3.1	Valente	
Luis Eduardo Almeida	SP1-L54	Luiz Carlos Machado	SP3-Q57
Luis E. Gomez Armas	P4.3, SP2-P16, SP2-P17	Luiz Carlos Poças	SP2-K102
Luis Eugenio Fernandez	A1.2, SP1-A58, SP2-A69	Luiz Cezar Lima	SP1-F56
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Luis Felipe Moraes	SP3-F162, SP3-F175	Luize Jardim	SP1-D18, SP1-D19
Luís Felipe Ramires	SP3-I121	Luiz Fernando Cótica	SP2-L151, SP3-L262
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Luís Fernando da Silva	F6.2, SP1-F20, SP1-L19, SP1-L86	Dias Galdino	
Luis Fernando Zagonel	SP2-M23	Luiz Fernando Schelp	SP2-A80, SP2-A81, SP2-A86
Luis Flávio Gaspar	H5.5	Luiz Fernando Vieira	SP2-B69, SP2-B97
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Luis Guilherme de	K2.3	Luiz Francisco Rodrigues	D2.1
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Luis Guilherme Meira de	SP3-D176	Luiz Gilberto Konrath	SP1-L92, SP2-D82, SP2-P6
Souza		Júnior	
Luis Gustavo Pereira	A3.1, SP1-A43	Luiz Gomide Freitas	SP2-K125
Luis Henrique Amorin	SP3-F171, SP3-F176	Luiz Guilherme Machado	SP3-G10
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Andrade		Luiz Gustavo Cancado	P5.4, SP2-P8
Luis Llanes	SP3-D121	Luiz Gustavo Davanse	SP2-L151
Luismar Marques Porto	SP1-C40, SP3-G46	Silveira	
Luís Rino	SP1-K21	Luiz Gustavo Ferraro	SP2-B105
Luis Rogerio de Oliveira	H7.4, SP2-M9	Luiz Gustavo Simão	SP3-F166, SP3-F190
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Luis Torres Quispe	SP2-P20, SP2-P9	Luiz Henrique	SP1-C1
Luis Vanderlei Torres	SP3-J23	Dall'antonia	
Luis Vicente de Andrade	C5.3, SP1-C1, SP1-C16,	Luiz Henrique de	H5.2
Scalvi	SP1-C8	Almeida	
Luiza Amin Marcante	A9.3	Luiz Henrique Ferreira	SP1-D41
Luiza de Castro Folgueras	SP1-C13, SP1-D31	Silva	
Luiza Dutra Rodrigues	SP3-L198		
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Luiz Alberto Cury	K6.3, SP1-K3, SP1-K4, SP1-K7		
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Marcelo F. Lima	SP1-B44, SP2-B101, SP2-B95	Márcia Duarte Adorne	SP2-B121
Marcelo Ganzarolli de Oliveira	SP1-A28	Marcia Dutra Ramos Silva	SP1-K14
Marcelo Henrique Kravicz	B2.5	Marcia Foster Mesko	SP2-A100
Marcelo Henrique Prado da Silva	SP1-B21	Marcia Jordana Santos	SP2-L158
Marcelo Henrique Sousa	A5.2, SP2-A133, SP2-A134	Marcia Maria Silva	SP2-D100
Marcelo Jose da Silva	SP3-F188	Marciano Furukava	SP3-H45
Marcelo José de Barros Souza	SP3-I119	Marcia Regina de Moura	SP1-B30, SP1-B31, SP1-B61
Marcelo José Gomes da Silva	H5.5	Márcia Rejane Santos da Silva	SP1-L33, SP2-L108, SP3-L182, SP3-L218, SP3-L226, SP3-L232
Marcelo Juni Ferreira	D3.1, SP1-N2	Marcia Russman Gallas	I4.2, I5.2, SP2-F61, SP2-I46, SP3-I126
Marcelo Knobel	A7.5	Márcia Tsuyama Escote	SP1-A36, SP2-A114, SP2-A91
Marcelo Lancellotti	B4.2	Marcilene Maluf	SP3-G16
Marcelo Linardi	F5.1, F5.2, SP1-F3, SP3-F161	Márcio André Rodrigues Cavalcanti Alencar	I7.3
Marcelo L Simões	SP1-K63, SP2-P13	Marcio Antonio Fiori	SP1-K60
Marcelo Luiz Calegario	SP1-F27	Marcio Aurélio Pinheiro Almeida	SP1-L21
Marcelo Maia da Costa	D6.1, SP1-D17, SP1-D24, SP3-D125	Márcio Celso Fredel	SP1-L97, SP3-D177
Marcelo Marques da Silva	SP1-K62	Márcio César Pereira	SP3-G29
Marcelo Martorano	J9.3	Marcio da Silva Figueiredo	SP3-L270
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Marcelo Moizinho Oliveira	SP3-L243	Márcio Fernando Bergamini	SP2-F67
Marcelo Mulato	A8.2, C5.5, SP1-C39	Marcio Florian	SP1-L73
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Marcelo Navarro	F8.3	Marcio José Particheli	SP2-D64, SP2-D65
Marcelo Nelson Paez Carreño	C5.2	Marcio José Rodrigues Amarin	SP2-K66
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Marcelo Ornaghi Orlandi	SP2-M20, SP2-M21, SP2-M22	Márcio Lima Oliveira	SP3-J21
Marcelo Rodrigues Silva	SP1-C1	Marcio Luis Silva	SP1-F53, SP2-I31
Marcelo Silveira Rabello	SP1-B14	Marcio Luis Varela Nogueira Moraes	SP1-L3, SP2-L158
Marcelo Siqueira Queiroz Bittencourt	SP3-L201, SP3-L202	Márcio Macedo	O2.2
Marcelo Tadeu Milan	M2.3, O3.3, SP1-O5, SP2-M24	Márcio Raymundo Morelli	SP1-L15
Marcelo T.p. Paes	O2.2, O4.2, SP1-O8	Marcio Roberto da Rocha	L7.3, SP1-D51, SP2-L143, SP2-L148, SP3-H24, SP3-Q15
Marcelo Zampieri	SP3-L225	Marcio Saraiva Melo	SP3-L178
Márcia Almeida Silva	SP3-H52	Marcio Sena Curvello	SP1-A36
Marcia Carvalho de Abreu Fantini	C5.2, SP1-F24, SP2-A72, SP3-I78	Marcio V. Valle	SP2-P17
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Marcus Andrei Ullmann	I3.3, SP2-I15, SP2-I16, SP2-I60	Marcos Gomes Eleutério da Luz	SP1-C28
Marco Akira D'ávila	SP2-B84, SP2-B85	Marcos Henrique	M3.3
Marco Antonio Durlo Tier	O3.1, O3.4, O4.3, SP1-O4	Mamoru Otsuka Hamanaka	
Marco Antônio Santos	H4.2	Marcos Hideki Miyazaki	O1.2, O5.2, SP1-O9
Marco Antonio Santos de Abreu	F4.3	Marcos Inácio da Rocha	SP3-D176, SP3-L266
Marco Antonio Schiavon	F3.2, I6.2, L5.3, SP1-K46, SP2-F98, SP3-F130, SP3-F160, SP3-I111	Marcos Jose Leite Santos	SP3-F194
Marco Antonio Utrera Martines	I7.4, SP1-D21, SP2-I34, SP2-I35, SP2-I42, SP2-I43	Marcos José Pereira Alves	SP2-A119
Marco Aurélio Cebim	SP1-C20, SP2-L112	Marcos Lopes Dias	B5.3, B5.4
Marco Aurelio Farias da Silva	SP2-P6	Marcos Luizão Garzim	SP2-L150
Marco Aurélio Perez	SP2-L154, SP3-L185, SP3-L188	Marcos Marques da Silva Paula	SP1-K60
Marco Aurélio Silveira Boff	SP1-A43	Marcos Massi	D5.5
Marco Colosio	SP1-D29	Marcos Moura	SP1-K30
Marco Cremona	SP1-N14	Marcos Paulo Belançon	SP2-L151
Marco Elisio Marques	SP2-D101	Marcos Pileggi	SP2-D79
Marco Roberto Cavallari	C2.2	Marcos Ponciano Souza	SP3-H32
Marcos Abreu Avila	A4.2	Marcos Reis Vargas	SP1-L8, SP3-L187, SP3-L212, SP3-L256
Marcos Anacleto da Silva	SP3-Q38	Marcos Roberto de Vasconcelos Lanza	SP1-F27
Marcos Antonio Coelho Berton	SP3-F140	Marcos Tadeu D'azeredo Orlando	SP2-A125
Marcos Antonio de Sousa	SP2-A83	Marco Stipkovic Filho	O2.4, SP1-O1
Marcos Assunção Pimenta	P3.2	Marcos Vinicius Suarmani Martins	SP3-I114
Marcos Augusto de Lima Nobre	SP1-A57, SP1-C20, SP1-C32, SP2-F115, SP2-F123, SP2-F125, SP2-L168, SP3-L190, SP3-L194, SP3-L244	Marcos Yukio Kussuda	SP1-A51, SP3-F191
Marcos A. Z. Vasconcellos	SP3-D119, SP3-D120	Marcus Alexandre Diniz	SP3-L180, SP3-L181
Marcos Benedito Jose de Freitas	SP2-D103, SP3-L255	Marcus Antonio Freitas Melo	SP1-L61, SP1-L94
Marcos Brown Gonçalves	SP2-K122	Marcus Antônio Melo	SP3-L248
Marcos Carara	SP2-A124	Marcus Paulo Fournier Lessa	SP3-F188
Marcos Castro	SP3-H10	Marcus Santos Carrião	A5.2
Marcos de Castro Carvalho	SP1-C22, SP2-I55	Marcus Venicio da Silva Fernandes	L3.2, SP3-L184
Marcos Eberlin	SP1-B24	Marcus Vinicius Castegnaro	SP2-F80
Marcos Felipe Calebresi	SP2-A98	Marcus Vinicius Cavalcanti Barros	SP3-L221, SP3-L233
Marcos Fernando de Souza Teixeira	SP2-F116	Marcus Vinicius Giotto	SP3-I67
Marcos Flores	P4.2	Marcus Vinicius Juliaci Rocha	SP3-G27, SP3-G29, SP3-G42
Marcos Fukuhara	SP1-A17, SP1-A59	Marcus Vinicius Lia Fook	D6.4, SP2-B123
		Marc Verelst	I7.4
		Margaret Dawson	SP2-F111

Margarete Regina Freitas Gonçalves	L6.3, SP1-L35, SP1-L92, SP2-A100, SP2-D82, SP2-L104, SP2-M2, SP2-P12, SP3-D151	Maria Das Graças da Silva Valenzuela	SP1-L31
Margarete Soares da Silva	SP1-L56	Maria Das Graças Fiaho Vaz	A9.3, SP2-A104
Margareth Spangler Andrade	H6.1	Maria Das Graças Sampaio Costa	SP1-L44, SP3-L243
Margarida Juri Saeki	SP1-D45	Maria Das Neves Pontes Barata Peres	SP1-L57
Margarida Márcia Fernandes Lima	SP1-L101	Maria de Fátima Vieira Marques	B1.3, SP1-B65, SP2-B130, SP2-B87, SP3-Q22, SP3-Q35, SP3-Q52
Margarita Ballester Cardona	SP3-J24	María de La Mata	SP2-F68
Margarita Enid Ramírez Carmona	SP2-B70	Maria do Carmo Andrade Nono	I4.3, SP3-L192, SP3-L246
Maria Adrina Paixão de Souza da Silva	J8.2	Maria do Carmo Martins Alves	N5.2, SP1-N1, SP1-N3, SP2-F80, SP2-L102
Maria Angélica Acosta	SP2-D109	Maria do Carmo Rangel	SP3-F148
Maria Angelica Simões Dornellas de Barros	SP3-Q8	Maria do Carmo Ruaro Peralba	SP3-D149
María Antonia Toro	SP3-F168	Maria Dorotéia Costa Sobral	SP1-A38
Maria Aparecida Maciel	SP3-H4	Maria Elena Fernández	SP1-F48
Maria Aparecida Ribeiro	SP3-Q32	Maria Elenice Santos	SP1-A10
Maria Aparecida Zaghete	SP1-C35, SP1-F19, SP1-L56, SP2-F124, SP2-L112, SP2-L146, SP3-F139, SP3-L204, SP3-L210	Maria Eliane de Mesquita	SP3-I119, SP3-I122, SP3-I98, SP3-I99
Maria Auxiliadora Neves Nogueira	SP3-L195	Maria Elisabete Machado	SP3-F137
Maria Auxiliadora Silva de Oliveira	SP1-F25	Maria Eliziane Pires de Souza	SP2-D113
Maria Bandeira Barroso	SP3-Q13	María Eugenia Pérez Barthaburu	SP1-F50
Maria Bernadete Santos Teixeira	SP2-L165	Maria Fatima Fontes	SP2-D69
Maria Carolina Burgos Costa	SP1-L47	Lelis	
Maria Cecília Rui Luvizotto	SP2-B120	Maria Fátima Leite	I2.3
María Celeste Carrera	SP3-F168	Maria Fernanda Pimentel	SP1-L99
Maria Cláudia Felinto	SP2-I44	Maria Fernando Cagnin de Abreu	SP1-L56, SP2-L116
Maria Claudia França da Cunha Felinto	SP2-L125, SP2-L167	Maria Gabriela Araújo Ranieri	SP1-L100
Maria Cristina Farias	D6.1, SP1-D32	Maria Gardennia Fonseca	SP2-D100, SP3-I127, SP3-I83, SP3-I85
Maria Cristina Rosifini Alves Rezende	SP2-D61, SP3-D164, SP3-D166	Maria Goretti Coutinho	SP2-D99
Maria da Graça Carneiro-Da-Cunha	B6.1	Maria Helena Piazzetta	SP1-K58
Maria Danielle Rodrigues Marques	SP1-A66, SP2-A70	Maria Helena Rocha Leão	SP1-B21, SP1-B38, SP1-B52
Maria da Paz Carvalho da Silva	SP1-A14	Maria Helena Santos	SP2-B125, SP3-Q53
		Maria Ines Basso Bernardi	SP1-F20, SP1-F4, SP1-L18, SP1-L80, SP1-L86
		Maria Inês Tavares	SP1-B62, SP2-B126, SP3-F133
		Maria Inez Graf Miranda	SP1-B54
		Maria Ingrid Rocha Barbosa	SP1-L47, SP2-D102

Maria Irene Bartolomeu Raposo	SP2-B114	Mariane Hiromi Hirata	SP1-B55, SP2-D78
Maria Isabel Eboli Kimaid	SP3-D172	Mariane Silva	D2.2
Maria Isabel Pais da Silva I2.4		Marian Rosaly Davolos	SP1-C20
Maria José Araujo Sales	SP2-A133, SP2-A134	Maria Odila Cioffi	SP1-D26
Maria José Valenzuella Bell	SP1-F29, SP2-P14	Maria Palmira Daflon Gremião	SP1-B15, SP1-B42, SP1-B43, SP1-B55, SP2-D104, SP2-D78
Maria Lucia Caetano Pinto da Silva	SP1-D39, SP2-I45, SP2-I54	Maria Paulina Romero	SP1-A52
Maria Lúcia Pereira da Silva	SP1-D55, SP1-D56	Maria Pilar Gonçalves	B3.1
Maria Lúcia Vieira	SP2-L165	Maria Rita de Cássia Santos	F8.2, SP1-L32, SP1-L39, SP1-L83, SP2-L137, SP3-L193, SP3-L196
Maria Luisa Braunger	SP1-K16	Maria- Rita Sierakowski	SP2-D62
María Luisa Rua	B4.1	Maria Roseane Pontes Fernandes	SP1-L61, SP1-L94
Maria Luisa Sartorelli	K4.3, K7.5, SP1-K47, SP3-F131, SP3-Q27	Maria Rosimar Sousa	SP2-B86, SP3-L228, SP3-Q39
Maria Luiza de Miranda Rocco	SP1-N14	Maria Souza	SP2-A76
María Luz Rodríguez-Méndez	SP2-K115	Maria Suely Costa da Câmara	SP3-L265, SP3-L268
Maria Maurera	SP1-L27	Maria Teresa Freire	SP2-D96
Mariana Arruda Pereira	L7.5	Maria Teresinha Serrão Peraçolli	SP1-D45
Mariana Botelho Barbosa	SP3-F157	Maria Trindade M Bizarria	SP2-B84, SP2-B85
Mariana Bruno Rocha Silva	B5.2	Maria Virginia Gelfuso	SP2-B105
Mariana Cabral de Souza	SP2-D89	Maria Vittoria Russo	K3.1
Mariana Carvalho Landim	SP3-J20, SP3-J8	Maria Wilma Nunes Cordeiro Carvalho	SP1-L31, SP1-L77
Mariana Cristina Pires do Amaral	SP1-N9	Marie-Joëlle Menu	SP3-I79
Mariana de Rezende Bonesio	SP3-I91	Mariella Alzamora	A8.1, SP2-A103
Mariana do Conto Fin	SP2-B92	Mari Estela de Vasconcellos	SP2-F103
Mariana Gomes Moura Costa	SP3-D164	Marilda Munaro	SP1-F43
Mariana Marques Simão	SP1-L75	Marilena Valadares Folgueras	SP1-L40, SP2-F100
Mariana M.v.m. Souza	SP1-F2	Marilene M. Serna	SP3-F150
Mariana Oliveira Borges	SP2-K126	Marília Batista Silva	SP2-K126
Mariana Paola Cabrera	SP1-A29, SP1-A31	Marília Evelyn Rodrigues Oliveira	SP2-L176
Mariana Pojar	P4.3, SP1-C44, SP2-A89, SP2-P16, SP2-P17	Marília J. Caldas	K7.2, K7.3, P1.3, SP1-K41, SP2-K110
Mariana Sato de S. B. Monteiro	B5.2	Marilia Santos de Souza	H6.3
Mariana Souza Fortes	SP1-F18	Marília Vasconcellos Agnesini	SP3-H19
Mariana Zaghete Bertochi	SP2-F124, SP3-F139	Marina Cardoso Vasco	SP2-D114
Mariana Zicari Di Monte	SP3-D170	Marinalva Aparecida Alves Rosa	SP2-I3, SP2-I7
Mariane Cristina Schnitzler	SP2-F78	Marina Magnani	SP1-O10, SP2-M23
Mariane Giacomini Schardosim	SP2-B71	Marina Paiva Abuçafi	SP2-I13
		Marina Paz Hyppólito	SP3-F173

Marins Danczuk	SP2-I57, SP2-I58	Martin Emilio Mendoza	SP2-M3
Mário Bocalini Jr.	J9.3, SP2-M27	Martin Peter	SP1-B24
Mário Cabussu	SP1-F43	Martin Sirena	A6.1, SP2-A112
Mário Cezar Alves da Silva	SP1-A38	Mary Anne White	E8.2
Mario Cilense	SP1-F46, SP2-F60	Mary Cristina F Alves	L3.4, SP2-L118
Mario da Silva Araújo Filho	SP3-F169	Maryline Guilloux-Viry	L3.4, L5.5, SP2-L108, SP2-L118, SP2-L136, SP2-L140, SP3-L226
Mario Ernesto Valerio	D6.3, F7.3, L8.1, N5.5	Mary Mitsue Yokosawa	SP1-B16
Mário José Politi	SP2-P4, SP3-L183	Marysilvia Ferreira da Costa	SP3-Q24
Mario Junior Godinho	SP1-L87, SP2-L111	Marystela Ferreira	SP1-K51, SP2-K103, SP2-K104, SP2-K117, SP2-K65, SP2-K82, SP2-K84, SP2-K96
Mário Lima de Alencastro Graça	SP2-M8	Mateus B. Cardoso	SP3-I118
Mário Lúcio Moreira	L7.4, SP1-L19, SP2-F74, SP2-L159	Mateus Botani	A2.2, A2.4
Mario Marques Figueira-Junior	SP1-B47	Mateus Dalponte	C1.3
Mario Oliveira Neto	SP1-K63	Mateus Lopes Angelo	SP2-P18
Mario Roberto Meneghetti	SP2-F63, SP3-D160	Mateus Meneghetti Ferrer	SP2-L103, SP2-L105, SP2-L119, SP3-L224
Mário Sérgio de Carvalho Mazzoni	SP2-P25	Matheus Correa Oliveira	SP1-C45, SP1-C46
Mario Sérgio Mariano	SP2-K101	Matheus Diel Casarin Dias	SP3-G17, SP3-G18,
Mário Ueda	SP2-D87, SP3-D124	Matheus Gamino Gomes	SP1-A64, SP2-A86
Mariselma Ferreira	K5.3, SP1-B12, SP1-B13, SP2-B77, SP2-K65	Matheus Josué de Souza	SP2-P25
Maristela Perez	SP2-F124	Matos	
Marivalda Magalhães Pereira	I2.3, SP3-I74	Matheus Lemos Peres	SP1-B17, SP1-B28
Marivone Gusatti	SP1-L67, SP2-F82	Matheus Martini	SP1-L70, SP1-L75, SP3-L242
Mariza Akemi	B6.3	Matheus Paes Lima	P2.1
Matsumoto		Matheus Paes Peçanha	SP3-Q17
Marize Oliveira	SP3-D138	Mathias Dörr	A2.4
Mark Cameron Ridgway	N2.2, N2.4	Mathias Mraken	A3.2, SP2-A130, SP2-A131, SP2-A132
Mark Hopkinson	SP1-C45, SP1-C46	Matias Angeletti	L6.2
Markku Leskela	SP2-B87	Matias Angelis Korb	SP1-F38
Marko Jagodič	L7.1	Matias Lunkes	SP1-L20
Markus Vinicius Silveira	SP3-H49	Matjaz Spreitzer	SP1-C36
Marli Moraes	SP2-K103, SP2-K104, SP2-K117, SP2-K82, SP2-K84	Matthias Beyer	SP2-D105
Marlon Nunes da Silva	SP3-I90	Matthias Scheffler	SP1-K41
Marlon Wesley Maciel da Costa	SP3-Q12, SP3-Q45	Mauricio A. C. de Melo	SP2-D92
Marlus Koehler	SP1-C28, SP1-C5	Maurício da Silva	SP1-A28
Marta Cristina Nunes Amorim Carvalho	SP3-Q38	Baptista	
Marta Duarte da Fonseca	SP2-D73	Mauricio Foschini	SP1-K45, SP1-K5, SP2-K100
Marta Elisa Rosso Dotto	SP1-K54	Mauricio Roberto Bomio	SP1-L62, SP2-L172, SP2-L174
Marta Maria da Conceição	SP1-L77	Mauricio Scarpato	SP3-Q15
Martin Bauer	C2.3	Maurício Sortica	D3.2, SP2-D108, SP2-D110

Mauricio Veloso Brant Pinheiro	F8.1, SP1-K33, SP2-F92	Michael Douglas Fernandes Pelá	SP3-L254
Maurilio Beutrão	SP3-H21	Michael Grass	N5.3
D'albuquerquea Cavalcante		Michael J. Kaufman	M2.1
Maurizio Ferrante	H7.1, H7.2, SP3-H15	Michael Ramos Nunes	I1.3, I5.3, SP3-D162
Mauro Angelo Alves	SP1-C13, SP1-D31	Michael Weiler	SP1-B25, SP1-B26
Mauro Coelho Dos Santos	SP1-F7	Michele Greque de Moraes	B3.2
Mauro C Santos	SP1-F23, SP1-F27	Michele Karoline Lima	SP2-D68
Mauro Francisco Pinheiro da Silva	SP2-P4, SP3-L183	Michele Odnicki da Silva	M3.3
Mauro Goncalo Santos	SP1-K20	Micheline Dos Reis Araújo	SP1-L10
Mauro Pedro Peres	SP1-D26	Michelle Leali Costa	SP2-M11
Mauro Santos Oliveira Jr.	D5.5	Michelle Lersch	B3.2
Maurus Joenk	SP2-B66	Michelle Saltarelli	SP2-I48, SP2-I49
Maximiliano Delany Martins	D7.2, SP1-A48, SP1-D28, SP2-A82, SP3-F136	Midori Yoshikawa Costa	SP1-D26
Maximiliano J. Moreno Zapata	I7.3	Miguel A. Cerqueira	B6.1
Maximiliano Luis Munford	SP3-F158	Miguel Alexandre Novak	A9.3, SP2-A104
Máximo Siu Li	SP1-L56, SP2-L170	Miguel Angel Guzman Altamirano	SP2-F127
Maxímo Sui Li Li	SP1-F42, SP1-L21, SP1-L44, SP1-L62, SP1-L64, SP2-L103, SP2-L105, SP2-L119, SP2-L174, SP3-L224	Miguel Angel Mosquera Molina	SP1-A28
Mayara Sacardo Ferreira	SP3-L241	Miguel Angelo Mastela	L7.3
Mayara Sarisariyama	SP1-L57	Miguel Angel Ramírez Gil	SP1-L59, SP1-L60, SP2-F60
Siverio Lima		Miguel Angel Rodríguez-Pérez	SP1-A57
Mayka Schmitt	L4.2	Miguel Justino Ribeiro Barbosa	D2.2, H5.1, H5.6
Maysa Terada	SP1-D20, SP1-O10, SP1-O8	Miguel O. Prado	SP1-L26
M. D. R. Marques	A6.2	Miguel Ruiz	SP1-C35
Megumi Kawasaki	H7.2	Mika Linden	K5.4
Mehmet Hikmet Ucisik	L2.4	Mike Eff	O4.1
Meiry Rodrigues	SP1-L41, SP1-L42	Mike Melo do Vale	SP2-D107
Mei Zhang	SP3-E7	Mikhail E. Kozlov	SP3-E7
Melânia Cristina Mazini	SP1-A11	Milan Zunic	SP1-F46
Melina D'villa-Silva	SP1-F23	Milena A. Moreira	SP1-C9
Melissa Mederos Vidal	SP1-C23	Milena Emerenciano Luz Sabino	SP1-C21
Melissa Siqueira Pinto	K7.3	Milena Martelli Tosi	SP1-B61
Méri Domingos Vieira	SP2-A71	Milena Palhares	SP3-G24
Messai Adenew Mamo	K8.2	Maringolo	
Messias Borges Silva	SP1-D39	Milton Andre Tumelero	A3.3
Messias Meneguette Junior	SP3-Q18	Milton Luis do Lago	SP3-F145
Messias Souza Costa	SP2-A116	Milton Nascimento da Silva	SP3-G10
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Meuris Gurgel Carlos da Silva	SP3-Q8	Milvia Oliveira Dos Reis	SP2-D117
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Mirabel Cerqueira Rezende	SP1-C13, SP1-D31, SP2-A101, SP2-M11, SP2-M12, SP3-G31	Murilo Pereira Hablitzel	SP1-L97
Mirela de Castro Santos	SP1-K53, SP3-I86	Murray Mahoney	O2.1
Mirele Costa Silva	SP1-L45, SP3-L189		<b>N</b>
Mirian Paula Santos Dos	SP3-F141	Nadia Maria Comerlato	SP2-A104
Mirian Yoshiko Matsumoto	SP3-F179, SP3-F184	Nadie Katyllie Silva	SP2-B123
Mirna Luciano de Gois Silva	SP2-L176	Diniz	
Mirna Pereira Moreira	SP1-L54	Nádyá Pesce da Silveira	SP2-B78
Mirosław Robert Maczka	E8.1, SP1-F21, SP3-E4	Nágila Maria Pontes Silva	SP1-A20, SP1-B10, SP2-Ricardo B102, SP3-I109
Moema de Barros E Silva Botelho	I7.2	Naila Jabeen	N5.3
Mohammad Akram Randhawa	F8.4	Nailton M Rodrigues	G7.2
Mohammad Ashraf Gondal	F8.4	Naira Maria Balzaretto	I4.2, SP1-D8, SP2-L149, SP2-P7
Moisés Felipe Teixeira	SP3-F153	Nair Rodrigues Souza	SP3-Q56
Moisés Leonardi de Almeida	SP1-A15	Nara Cristina de Souza	SP2-B95, SP2-K106, SP2-K107, SP2-K111, SP2-K112, SP2-K114, SP2-K75, SP2-K76, SP2-K77, SP2-K78, SP2-K79, SP2-K91, SP2-K92
Moisés Rômolos Cesário	SP2-L133	Nara Oliveira Borges	SP1-B63
Molíria Vieira Dos Santos	SP3-I71	Narcizo Souza Neto	N2.1
Monica Alonso Cotta	SP1-C14	Natália Cristina Barbosa de Matos	D2.6
Monica Ari	E8.2, SP3-E2	Natalia Fattori	SP2-I19, SP3-F141
Monica Calasans-Maia	SP1-N12	Natália Ferreira Magalhães	SP2-B88
Monica de Mesquita Lacerda	D6.2, SP2-D64, SP2-D65	Natália Hadler Marins	SP1-B11
Mônica Felts de La Roca Soares	SP2-L176	Natalia Jacomaci	SP1-C35, SP3-L210
Mônica Freire Belian	SP2-I26, SP2-I27	Natalia Kondo Monteiro	SP3-F163
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Monica Pacheco	SP2-P5	Natália Pereira Rezende	SP3-F158
Monica Regina Scaramuza Lima	SP3-H36	Natália Reigota César	SP1-B50
Monique Bezerra Holanda de Lima	SP1-A61	Natália Rodrigues Pereira	SP3-J8
Monique Gabriella Angelo da Silva	SP3-D160	Natali Dandara de Jesus	SP1-B50
Monique Grazielle Cruz	SP2-A69	Natal Nerímio Regone	SP2-D93
Monique S Pessoa	SP3-I127	Nataly Machado Siqueira	SP2-B72
Montales Borges Oliveira	SP2-L163, SP3-L256	Nataly Silva Brito	D6.3
Mozer de Meneses Mozer	SP3-D176, SP3-L266	Natan Pires Sá	SP1-L31
Meneses		Natasha A. D. Yamamoto	SP1-C28
Muhammad Anis-Ur - Rehman	F2.3, L1.3	Natasha Figueiredo Coral	SP2-F58
Munir Salomão Skaf	SP3-G22	Natasha Midori Sugihiro	SP3-H11
Murilo F. M. Santos	L2.2	Nathalia Lorrayne Costa Leão	D7.2
Murilo Montesso	SP2-L109	Nathalie Bergeon	J6.1
Murilo Nicolau	F2.2, SP3-F174	Nathalie Ferreira Silva de Melo	B3.3
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Nathalie Mangelinck-Noël	J6.1, SP3-J7	Nicolau André Silveira Rodrigues	SP3-J21
Nayana Frizon	SP3-L263	Nicolau Molina Bom	C1.3
Nazir Monteiro Dos Santos	SP1-D7	Nicolly Petito	SP1-B48
N. C. Batista	SP1-B36, SP1-L83	Nic Shannon	A7.3
Neftalí Lenin Villarreal Carreño	L6.3, P2.3, SP1-B11, SP1-B19, SP1-D44, SP1-F39, SP1-L35, SP1-L51, SP1-L55, SP1-L92, SP1-L93, SP2-A100, SP2-A96, SP2-D82, SP2-I23, SP2-L104, SP2-M2, SP2-P12, SP3-D151, SP3-F180, SP3-L215, SP3-L261, SP3-L264, SP3-L274	Nilda Martins	SP1-C18
Neide Kazue Kuromoto	D2.4, SP2-D118, SP3-D155, SP3-D161, SP3-D169	Nilo Cesar Consoli	SP1-B2
Nei Fronza	SP3-I76, SP3-I81, SP3-I95	Nilo Mauricio Sotomayor	SP3-G49
Neil de La Cruz	SP2-L144, SP2-L147	Nilson Antunes de Oliveira	A5.3
Nelcy Della Santana Mohallem	M5.2, SP3-I110	Nilson Cristino Cruz	D4.2, SP1-D49, SP1-D50, SP1-D7, SP3-D124, SP3-D135
Nelson Delgado Torrecilha	SP1-A51	Nínian Flores Lucas	SP3-J5
Nelson Ferreria Silva Junior	SP2-B96	Nirton Vieira	SP2-D60, SP3-D130, SP3-D171
Nelson H Morgon	SP3-G19, SP3-G2, SP3-G3	Nitzan Shadmi	SP3-G45
Nelson Luis de Campos Domingues	SP2-K116, SP2-K123, SP3-F159, SP3-F162, SP3-F172, SP3-F175, SP3-F179, SP3-F184, SP3-I113, SP3-I121, SP3-Q26	Nivaldo Cabral Kuhnen	SP1-L67, SP2-F82, SP2-I38, SP3-Q19
Nelson M. Larocca	SP2-F113	Nivan Bezerra da Costa Júnior	G7.2
Nélson Olivier	L8.4, SP2-L106	Nizar Aouni	E8.3
Nelson Ordonez	SP2-F64	N L Wang	A8.1
Nelson Orlando Moreno	A7.2, SP1-A35, SP1-A63	Noé Cheung	J9.2, SP3-J14, SP3-J2
Nelson Pérez Guerra	B4.1	Noelio Oliveira Dantas	SP1-F36, SP3-L236
Nelson Tavares Matias	SP1-B16	Noemi Raquel Checca	SP1-A26, SP1-A30
Neoli Lucyszyn	SP2-D62	Noor Rehman	SP1-B54
Neri Alves	K3.2, K5.2, K8.3, SP1-K37, SP1-K50, SP1-K51, SP1-K59, SP1-K62	Normanda L Freitas	SP3-L189
Nestor C. Saavedra	SP3-G11	Nouga Cardoso Batista	SP1-B41
Newton Martins Barbosa Neto	P5.4, SP1-K5, SP2-K126	Nubia Suely Santos	SP3-L245
Ney Lemke	G9.1	<b>O</b>	
Ney Pereira Mattoso	A5.5	Octávio Camargo Schichi	SP1-D15
Nicélio José Lourenço	SP2-M8	Odile Merdrignac-Conanec	SP2-L140
Nicolas Bergeal	A6.1	Odilene Ferreira Cardoso	SP1-L79
Nicolás Enrique Nieva	SP2-M4	Odilio Assis	SP1-B61
Nicolas Ortega Miranda	SP2-F127	Odin G.c Godinho	SP2-K91, SP2-K92
		Olacir A Araujo	SP2-L157
		Oliver G. Schmidt	C2.3, C2.4, C2.5
		Olivério Moreira de Macedo Silva	SP2-M8
		Olivier Isnard	SP2-A78
		Omar Jose de Lima	SP2-I31
		Omar Maluf	SP2-M24
		Omar Ortiz Ortiz-Diaz	SP2-A105, SP2-A109
		Oscar Balancin	SP3-H3
		Oscar Jaime Restrepo Baena	SP3-L191
		Oscar Loureiro Malta	K6.2

Oscar Rubem Klegues Montedo	L7.3	Patrícia Hatsue Suegama	SP3-D145, SP3-D159
Osman Adiguzel	H1.3	Patricia Lopes Araújo	SP1-B1
Osmar Roberto Bagnato	SP2-M28, SP3-H33, SP3-H34	Patrícia Loren	SP2-D58
Oswaldo Antonio Serra	SP3-L211, SP3-L213	Patricia Magalhães Pereira	SP2-F58
Oswaldo Mitsuyuki Cintho	SP2-L154	Patrícia Maria de Albuquerque Farias	SP1-B58, SP3-H37, SP3-I116
Oswaldo Novais Oliveira Jr	G9.2, K5.1, K5.3, SP1-C29, SP1-K30, SP1-K48, SP1-K63, SP2-K108, SP2-K114, SP2-K125, SP2-K69, SP2-K71, SP2-K82, SP2-K83, SP2-K87	Patrícia Mariana Alves Caetano	SP2-A69
Oswaldo Morales Morales	SP1-C48, SP3-D143	Patrícia Pommé Confessori Sartoratto	SP3-F148
Oswaldo Nunes Neto	SP1-C4	Patricia Pranke	B3.2, SP2-B92, SP2-B94, SP2-K121
Otavio A, Capeloto	SP2-D92	Patrícia Rodrigues da Silva	I4.2, I5.2, SP3-I126
Otavio A Protzek	SP2-D92	Patricia R P Barreto	SP3-D177
Otávio L. Bottecchia	SP1-K45	Patrícia Santos Andrade	SP2-L137
Otávio Lima da Rocha	J7.4, SP3-J16, SP3-J22, SP3-J9	Patrícia Silva	SP3-F149
Otília Deusdênio Loiola Pessoa	SP1-A20	Patrícia Tatiana Araújo Dos Santos	SP2-A121
<b>P</b>		Patricio Vargas	SP2-P5
Pablo Alejandro Fiorito	SP3-D140	Patrick Bley Copetti	SP1-A4
Pablo Munayco	SP2-A132	Patrick Judenstein	SP2-I22
Pablo Roberto Rovani	SP2-L141	Patrick Rinke	SP1-K41
Paloma Boeck Souza	SP1-A64, SP2-A80, SP2-A81	Patrisia do Nascimento Delgado	SP2-L110
Paloma Lays Santos	SP1-K3, SP1-K4, SP1-K7	Paula Carvalho Corrêa	SP2-I63
Palova Santos Balzer	SP2-B66, SP2-B67, SP3-Q31	Paula C. Rodrigues	K4.2, SP1-K38, SP1-K52, SP3-G11
Pâmela Andréa Mantey Dos Santos	SP2-F61, SP3-I126	Paula de Azambuja Sobocinski	SP2-A90
Pamela Seixas Peruzzo	SP1-D51	Paula de Oliveira Ribeiro	SP1-A59
Paola Mulazani	SP1-B50	Paula Emília de Souza Prates	SP2-D117
Parimal V. Bapat	SP3-Q55	Paula Fabiana Santos Pereira	SP3-L211, SP3-L213, SP3-L224
Pascoal G. Pagliuso	SP2-A115	Paula Forte M. P. B. Machado	SP3-Q43
Patrich Daniel Damasseno	SP3-H42	Paula Maria da Silva Leite	SP3-I110, SP3-I97
Patricia Alejandra Dutenhefner	SP2-F78	Paula Maria Gabriela Leal Ferreira	SP2-K99
Patrícia Allue Dantas	SP2-B124	Paula Martins da Silva	SP3-G12, SP3-G13
Patrícia Alves de A. Sousa	SP3-L193, SP3-L196	Paula Mendes Jardim	F4.3, SP2-F87
Patrícia B. Catandi	SP2-D107	Paula M. P. Gouvea	SP2-D109
Patrícia Benedini Martelli	SP3-F157	Paula Rindeika Acs de Oliveira	SP2-B128
Patricia Bento da Silva	SP3-F149	Paula Silvia Haddad	SP1-A28
Patricia Businaro Aiolo	SP3-D153	Paula Simone Soares de Medeiros	SP2-F70
		Paul Higgins	O2.1

Paulo Alliprandini Filho	K2.2	Paulo Pureur	A7.4, SP1-A46, SP1-A60, SP1-A68, SP2-A123, SP2-A90
Paulo Alves da Costa Filho	SP1-K13	Paulo Rangel Rios	SP3-G37
Paulo Andre Dias Jácome	SP3-J20, SP3-J8	Paulo Ricardo Soares Azevedo Silva	SP3-H6
Paulo André Tavares	SP2-K96	Paulo Roberto Bueno	SP1-F48, SP1-F55, SP2-L115
Paulo Antonio Trindade Araújo	P5.4	Paulo Rogério Catarini	SP2-F126, SP3-F171, SP3-F176
Paulo Atsushi Suzuki	D2.2, SP1-A8	Paulo Rogério Pinto Rodrigues	SP3-F134
Paulo Barbeitas Miranda	SP2-K72	Paulo Sérgio Calefi	I4.1, SP1-F53, SP2-I47, SP2-I48, SP2-I49, SP3-I94
Paulo Celso Isolani	SP2-P4	Paulo Sergio de Paula Herrmann	SP1-A39, SP1-C24, SP2-K125, SP2-P13, SP3-Q58
Paulo Celso Leventi Guimarães	SP2-B108, SP2-B110, SP2-B81	Paulo Sergio Pizani	L3.4, L5.2
Paulo Cesar Inone	SP1-F43	Paulo Sérgio Soares Guimarães	SP1-K7
Paulo Cesar Moraes	SP3-F148	Paulo Souza Muller Jr	F8.2
Paulo Cesar Piquini	SP1-C50, SP3-G43	P. Cecilia Dos Santos Claro	N2.3
Paulo Cesar Soares	SP3-D169	Pedro Alves Autreto	SP3-E8
Paulo César Sousa Filho	SP3-L211, SP3-L213	Pedro Antonio Muniz Vazquez	SP3-G23
Paulo Dantas Sesion Júnior	SP2-L138	Pedro Antonio Ourique	SP1-L20
Paulo Demétrios da Silva	SP1-L96, SP3-L239	Pedro Augusto de Paula Nascente	D3.1, L9.3, SP1-D17, SP1-K63, SP3-H30
Paulo de Tarso Cavalcante Freire	E8.1, SP1-F21	Pedro Brito	SP1-D33
Paulo Dos Santos Batista	F8.2	Pedro Cunha	O2.2
Paulo Eduardo Mayorga Borges	SP3-Q46	Pedro Gabriel Rubira Calsavara	M1.3
Paulo Eduardo Pedroso de Morais Filho	SP2-F74, SP2-F75, SP2-F77	Pedro Henrique Benites Aoki	SP2-K68, SP2-K70
Paulo F. P. Fichtner	D3.3, F2.5, SP2-F119, SP2-M16, SP2-M17, SP2-M18, SP2-M19, SP3-F143	Pedro Henrique Damião Daló	SP3-H26
Paulo Henrique Chibério	SP3-G30	Pedro Henrique Suman	SP2-M21
Paulo Henrique Machado Cardoso	SP2-B126	Pedro Iris Paulin Filho	SP1-D17
Paulo Henrique Moura	SP1-C25	Pedro Ivo Batistel Galiote Brossi Pelissari	F6.2, SP1-L86
Paulo Henrique Perlatti D'alpino	SP1-L50	Pedro Ivo Polak	SP2-D112
Paulo H R Borges	L6.2, SP2-L127, SP2-L128, SP2-L130	Pedro Jorge Von Ranke	SP1-A1
Paulo H. S. Rosa	H7.4	Pedro Lana Gastelois	SP1-A48
Paulo Inforçatti Neto	SP3-L186	Pedro Linhares da Cunha Filho	A7.2
Paulo Jorge Passos Dos Santos	SP1-K40, SP3-F164	Pedro Luis Grande	D1.1, D3.2
Paulo Jorge Ribeiro Montes	N5.5	Pedro Luiz Onófrío Volpe	SP2-I33
Paulo Maria Oliveira Silva	SP3-H12	Pedro Magalhães Padilha	SP1-D21
Paulo Mário Machado Araújo	SP2-D84	Pedro Migowski	D8.3, F5.5, SP3-F192, SP3-F193, SP3-F194, SP3-F195, SP3-H48
Paulo Noronha Lisboa-Filho	SP1-A10, SP1-A11, SP1-F20, SP1-L74		
Paulo Pereira Neto	SP1-C43		



Rafael José Nowacki Gomes	SP2-D116	Raphael Aparecido Sanches Nascimento	C5.5
Rafaella Takehara Paschoalin	SP1-A39	Raphael Barata Kasal	SP1-D35
Rafael Lopes de Souza	SP3-F136	Raphael da Silva Eduardo	SP1-L77
Rafael Luiz Heleno Freire	SP3-L216, SP3-L230, SP3- L236	Raphael Euclides Prestes Salem	SP3-L237
Rafael Marangoni	SP3-Q43	Raphael Félix Rezende	SP3-H46
Rafael Marinho Bandeira	SP1-B41, SP1-C10	Raphael M. C. V. Reis	SP1-L26
Rafael Mello Lattuada	SP2-M25, SP3-D149, SP3- I118	Raphael Sousa Silva	H4.2
Rafael Mello Trommer	SP1-F6	Raquel Annoni	SP3-Q28
Rafael Melo Freire	SP1-A20	Raquel A. Ribeiro	A4.2
Rafael Menezes Silva	SP2-B125, SP3-Q53	Raquel Bezerra Costa	SP2-D99
Rafael Miguel Sábio	SP3-I79	Raquel Cristina de Sousa Azevedo	SP3-I77
Rafael Molena Seraphim	D3.1, SP1-N2	Raquel de Moraes Lobo	SP2-F103
Rafael Moreira Siqueira	SP3-I111	Raquel Domingues	SP1-K35
Rafael Morgado Batista	SP1-L16	Raquel Duarte de Almeida	SP1-F44
Rafael Ortiz	SP3-Q46	Raquel Folmann	SP1-L40
Rafael Otoniel Cunha	B3.2, SP2-I21	Raquel Giuliani	N2.2
Rafael Roberti Gil Maciel	SP2-K106, SP2-K78	Raquel Guimarães Jacob	SP2-I62
Rafael Sakai	SP3-D127, SP3-D145, SP3- D159	Raquel Lizárraga	SP3-G1
Rafael Seiceira	SP1-N10, SP1-N4, SP1-N6, SP1-N9	Raquel Milani	SP1-K40, SP2-F68, SP3- F164
Rafael Silva Araújo	SP2-B130	Raquel Rolim Menezes de Queiroz	SP1-O10
Rafael Vargas	SP2-B118	Raquel Silva Thomaz	SP3-D147
Rafael Zadorosny	SP1-A19, SP1-A32, SP1- A33	Rasihah	SP1-B18, SP1-B23, SP1- Ladchumananandasivam
Rahim Jahandideh	I6.3	B35, SP3-Q10, SP3-Q16, SP3-Q30	
Raigna Augusta da Silva	SP1-K11, SP1-K17, SP1- K48, SP1-K5	Raul Cesar Evangelista	SP1-B32, SP2-B80
Zadra Armond		Raul José da Silva	L5.4, L8.2, SP1-L22
Raimison Bezerra de Assis	SP3-D176, SP3-L258, SP3- L266	Camara Mauricio da Fonseca	
Raimundo Expedito Vasconcelos	H2.3	Raul Quijada	SP2-B83
Raimundo Nonato Felipe Silveira Junior	SP2-B86, SP3-Q39	Ray H. Baughman	E7.2, SP3-E7
Rair Macêdo da Silva	SP1-L22	R. C. Lang	SP2-F119
Raisi Natalia Lenz Baldez		Rebeca Bacani	SP1-F24
Rajendra Narain Saxena	SP2-A116	Rebeca de Castro Neves	SP3-L275
Ramesh Nath	A7.3	Rebeca Delatore Simões	B6.3
Ramon Feitosa Silva	SP3-L221, SP3-L233	Regiane Aparecida Medeiros Campos	SP2-A101
Ramon Kaneno	SP1-D45	Regiane de Cássia	SP3-H13
Ramon Kenned de Sousa Almeida	SP2-D100, SP3-I120	Maritan Ugulinode Araújo	
Ramon Madrid Garcia	SP2-F127	Regiane Godoy Lima	SP1-A19, SP2-A75
Ramón S. Cortés Paredes	SP2-D112	Regilany P Colares	SP2-B74
Ranielle Oliveira Silva	SP2-I25	Regildo Márcio	SP1-D13, SP3-D153, SP3- Gonçalves da Silva
Raonei Alves Campos	D5.1, SP1-N8	Q47	
		Regina Aparecida Capeli	SP1-L24

Regina Célia Galvão Frem	SP3-F149	Renato Bosco Moreira Oliveira	SP2-B98, SP3-I107
Regina Celia Sousa	SP3-H3	Renato Canha Ambrosio	SP1-N11
Reginaldo Aparecido Ferreira	SP3-D171	Renato de Figueiredo Jardim	SP1-A5, SP1-A8
Reginaldo Barco	SP1-A46	Renato E. de Araujo	SP3-D154, SP3-D156
Reginaldo Ferreira	SP3-F140	Renato Estevâm da Silva	E9.1, SP3-E6
Reginaldo Muccillo	SP1-L11, SP2-F81, SP3- F142, SP3-F150	Renato Ferras Penteado	L8.3, SP1-L37, SP1-L38, SP1-L95
Regina Lélis-Sousa	SP2-K110	Renato Grillo	B4.2
Régis Fernandes Gontijo	SP3-F189	Renato Lyra Villas Boas	H2.3
Regivaldo Sobral Filho	H6.4	Renato Neiva Sampaio	SP2-K126
Reinaldo Cesar	SP3-Q7	Renato Pavanello	O1.3
Reinaldo Trindade Proença	SP2-I63	Renato P. Camata	C4.3, F2.2, L1.2, SP3-Q55
Rejane Menezes de Morais Paiva	SP3-G33	Renato Rosafa Gavioli	SP2-F117
Renan Augusto Pontes Ribeiro	L8.3, SP1-L37, SP1-L38, SP1-L95	Renato Vitalino Gonçalves	SP3-F195, SP3-F196, SP3- H48
Renan de Freitas Gral	SP3-D137, SP3-D175	Rene Chagas da Silva	SP1-C37
Renan Gustavo Coelho de Souza Reis	SP2-I42	Renê Keidel Spada	G8.2
Renan Henrique Savio	SP3-H33	Renivaldo José Dos Santos	SP2-B76
Renan Tavares Figueredo	SP3-I122	Ricardo Af Machado	SP3-I81
Renata Almeida Chagas	SP3-I88	Ricardo Alberto Neto Ferreira	SP3-F132
Renata Antoun Simão	SP1-F1, SP2-D73, SP3-D158	Ricardo Alexandre Galdino da Silva	SP3-H25, SP3-H5, SP3-H8, SP3-H9
Renata Aquino	SP2-A106	Ricardo Alex Dantas Cunha	SP2-B86, SP3-Q39
Renata Ayres Rocha	SP3-F150	Ricardo Antonio de Simone Zanon	SP2-D64, SP2-D65
Renata Barbosa	SP1-B56, SP1-B6	Ricardo Barsoba Sousa	SP3-L193, SP3-L196
Renata Borges Jacóe	SP1-L5	Ricardo Bicca Alencastro	SP1-F17
Renata Cristiane da Silva	SP2-D71	Ricardo Borges Barthem	L5.4, L8.2, SP1-L22
Renata Cristina de Lima	SP1-F42, SP1-L53, SP1- L82, SP2-L111, SP3-L177	Ricardo Cardoso Rangel	SP3-D134
Renata Cristina Kiatkoski Kaminski	SP2-I13, SP2-I14	Ricardo Correia	SP2-D58, SP3-F143
Renata Cristina Olegario	SP3-L185, SP3-L188	Ricardo Costa de Santana	SP3-L273
Renata da Silva Bergoli	SP3-G21, SP3-G25	Ricardo Diogo Righetto	M1.1, M1.3, M3.2
Renata Ferreira Lins	SP2-I32	Ricardo Ferreira Nogueira	SP1-L96, SP3-L239, SP3- L240
Renata Ferreira Sousa	SP3-Q37	Ricardo Fischer Brandenburg	SP3-Q31
Renata Figueredo Martins	F8.1, SP2-F92	Ricardo Floriano	SP3-F145
Renata Luiza Margotti	SP2-L117	Ricardo Gargano	L3.1, SP3-L207
Renata Martins Braga	SP3-L248	Ricardo Geraldo de Sousa	SP3-I77, SP3-I97
Renata Martins Silva	D1.2, SP1-L2	Ricardo Henrique Lira Silva	SP3-L178
Renata Nunes Oliveira	SP2-L122	Ricardo Luiz Perez Teixeira	SP1-F1
Renata Platcheck Raffin	SP1-B51, SP2-B91	Ricardo Magnus Osório Galvão	D7.1
Renata Santos Felipe	SP2-B86, SP3-Q39		
Renata Sena Brasil	SP2-L158		
Renato Antonio Cruz	SP1-C29		
Renato Baldan	SP1-D30, SP3-H6		
Renato Barbosa Silva	H6.4		
Renato Borges Pontes	P2.1		

Ricardo Marques Barreiros	SP1-D2, SP2-D93	Roberto Magalhães Paniago	A1.3, SP2-A107, SP2-A117
Ricardo Marques E Silva	SP1-D44, SP1-L92, SP2-M2, SP2-P12, SP2-P6	Roberto Martins Alcântara	SP1-L73
Ricardo Martínez García	M4.2, SP2-I65	Roberto Masato Anazawa	SP3-H2
Ricardo Meurer Papaléo	SP3-D147	Roberto Medeiros Silveira	SP2-I34, SP2-I43
Ricardo Neves Bedoya	SP3-L276	Roberto Mendes	SP3-L254
Ricardo O Freire	G7.2	Roberto Mendonça Faria	C2.2, K1.3, K3.3, K4.3, K7.5, SP1-C29, SP1-C33, SP1-K26, SP1-K28, SP1-K42, SP1-K43, SP1-K44, SP1-K57, SP1-K61, SP2-D107
Ricardo Patrick Donizete Silva	SP3-I91	Roberto Neto	SP1-B62
Ricardo Reis Soares	SP3-F173	Roberto Onmori	SP1-C42
Ricardo Ritter Barnasky	SP1-L55, SP3-L215	Roberto Paulo Barbosa Ramos	SP3-D146
Ricardo R. Marinho	O4.2, SP1-O8	Roberto Pires Silveira	SP1-F18
Ricardo Rodrigues	N1.1	Roberto R de Avillez	I2.4, SP2-I5, SP3-E2
Ricardo Sbeghen Schmidt	SP3-Q47	Roberto Shigueru Nobuyasu Junior	K6.3
Ricardo Stefani	SP3-G48	Roberto Zenhei Nakazato	SP1-D11
Ricardo Sussumu Ywata	K3.2, SP1-K37	Robert Zamora	SP3-Q48
Ricardo Tadeu Lopes	SP1-N12, SP3-H32	Robinson Cruz	SP1-L20
Ricardo Vinicius Bof de Oliveira	SP2-B72, SP2-B83, SP3-Q2	Robson da Silva	K2.3
Ricardo Wagner Nunes	P6.2	Robson Manao	SP3-H32
Richard André Cunha	G9.2	Robson Nunes Dal Col	SP1-K19
Richard Landers	I5.3, SP2-I66, SP2-I8	Robson Rosa da Silva	SP2-I31
Ricson Rocha de Souza	SP2-L129	Robson Silva Rocha	SP1-F27
Rilton Alves de Freitas	SP2-D62	Rochel Montero Lago	SP3-F178
Rita C. C. Rangel	D4.2, SP3-D124, SP3-D135	Rodolfo Junqueira Brandão	SP1-N11
Rita Maria Cunha de Almeida	SP3-Q21	Rodolfo Luiz Medeiros	SP3-L248
Rízia Rodrigues da Silva	E9.1	Rodolfo Rodrigues Nunes da Silva	SP1-K34
Roane Fantti Davilla	SP3-Q52	Rodrigo Alvarenga Rezende	SP3-L186
Robersio Marinho de Faria	SP1-L70, SP1-L75, SP3-L242	Rodrigo B Capaz	P3.1
Roberta Anjos de Jesus	SP3-I122, SP3-I99	Rodrigo Bergami Trevizani	SP3-H44, SP3-L257
Roberta Dutra de Oliveira Pinto	SP2-A88	Rodrigo Botán	SP1-K1, SP1-K2
Roberta Felix de Oliveira	SP2-I26	Rodrigo Carvalho Souza Costa	SP3-L260
Roberta Paye Bara	SP2-B129	Rodrigo Cristiano	K2.2, SP3-H13
Roberta Piffer Teixeira	SP2-D83	Rodrigo da Silva Viana	SP3-F181
Roberto Batista Sardenberg	SP1-K33	Rodrigo de Matos Oliveira	SP3-L246
Roberto Benavides Cantu	SP1-K60	Rodrigo de Oliveira Silva	SP2-A118
Roberto Bertholdo	SP3-F135	Rodrigo de Paiva Floro Bonfim	SP3-Q38
Roberto Cavalcante Menezes	SP3-H45		
Roberto da Rocha Lima	SP1-D55, SP1-D56		
Roberto de Souza Martins	SP3-Q22, SP3-Q52		
Roberto Furtado	SP1-F10, SP1-F13, SP1-F8, SP1-F9, SP1-L7		
Roberto Hiroki Miwa	P2.1		
Roberto Hübler	D3.4, SP2-B71		

Rodrigo de Paula	SP2-B74, SP2-K126	Rogério Magalhaes	N3.1
Rodrigo de Santis Neves	SP1-D47	Paniago	
Rodrigo Dias	SP1-F8, SP1-F9, SP1-L13, SP1-L7	Rogério M Oliveira	SP2-D87, SP3-D124
Rodrigo El Far	SP2-F84	Rogério Pinto Mota	SP1-L100, SP1-L49
Rodrigo Estevam Coelho	SP1-A38	Roger Sauer	E8.3
Rodrigo Fernando	SP1-K19, SP1-K53, SP1- Bianchi K55, SP3-I86	Rolando Larico Mamani	SP1-A65, SP3-G35
Rodrigo Fernando	SP1-F23, SP1-F27, SP1-F7	Rolf Janssen	L2.3
Brambila de Souza		Rolmualdo Rodrigues	SP2-B75
Rodrigo Guerreiro	B5.1	Menezes	
Fontoura Costa		Roman Shpanchenko	A7.3
Rodrigo José Contieri	J6.2, SP2-M5	Romario Justino da Silva	SP2-K111, SP2-K75, SP2- K79
Rodrigo José Correa	SP2-I29, SP2-I37	Romulo Bessi Freitas	SP3-Q14
Rodrigo José de Oliveira	SP1-F41, SP2-F79	Rômulo Freitas Farias	SP1-B14
Rodrigo Leonardo Basso	SP1-D5, SP1-D9	Romulo Heringer	J9.3
Rodrigo Magnabosco	SP2-A108	Rômulo Trevisan	SP1-B17, SP1-B25, SP1- B26, SP1-B28
Rodrigo Marques Ferreira	SP1-L74	Ronaldo Cristino Mariano	SP3-H12
Rodrigo Mendonça Bispo	D6.3	Ronaldo Dias Correa	SP2-D111
Rodrigo M Iost	SP2-K64, SP2-K86	Ronaldo Domingues	SP2-F64, SP3-D134
Rodrigo Palmieri	SP1-C2	Mansano	
Rodrigo Paz França	SP3-J26	Ronaldo Echer Trentin	SP1-D32
Rodrigo Pereira	SP2-B98, SP3-I107	Ronaldo Gabriel Silva	SP3-H34
Rodrigo Pereira Becker	SP3-H49	Ronaldo Junio Campos	SP3-G47
Rodrigo Perito Cardoso	D2.3	Batista	
Rodrigo Pires Leandro	SP1-B4	Ronaldo Junior Dos	SP1-D49, SP1-D50
Rodrigo Ramos	SP2-K110	Santos	
Rodrigo Ramos da Silva	K7.3	Ronaldo Júnior Fernandes	SP3-F149
Rodrigo Sampaio	SP1-L49	Ronaldo Pereira de Melo	SP3-D123
Fernandes		Júnior	
Rodrigo Santos Messner	SP3-H20	Ronaldo Silvestre da	SP3-D174
Rodrigo Silva	SP3-H30	Costa	
Rodrigo Szostak	SP3-F134, SP3-L185	Ronald Tararam	SP2-F97, SP2-L115
Rodrigo Vieira Rodrigues	SP3-Q57	Ronan Lebullenger	L5.5
Rodrigo Villares Portugal	SP2-M23	Rondes Ferreira Silva	SP2-K120
Roger Gomes Fernandes	SP1-L91	Rondinelli Donizetti	SP1-D13, SP3-Q25, SP3- Herculano Q47
Rogéria Souza Nunes	D6.3, SP3-I128	Ronei Miotto	SP1-A65
Rogério Almeida Gouvêa	L6.3, P2.3, SP1-L35, SP1- L51, SP1-L55, SP1-L92, SP1-L93, SP2-A100, SP2- A96, SP2-P6, SP3-L215, SP3-L261, SP3-L264, SP3- L274	Roney Santos Coimbra	SP2-D81
Rogério Barbosa da Silva	SP3-G48	Roosevelt Cristiano A	SP3-Q13
Rogério da Silva Carolino	SP2-D89	Silva	
Rogério Duque	SP2-M12	Rosa do Carmo Oliveira	SP1-L45, SP2-L152, SP3- Lima L189
Gonçalves		Rosa Malena Fernandes	SP1-L101
Rogério José Baierle	SP1-C7	Lima	
Rogério José Costa	SP1-L8, SP3-L256	Rosa Maria Jacinto	SP2-B81
Rogério Junqueira Prado	C5.2	Volpato	
Rogério Luis Maltez	SP2-M19	Rosa Maria Rabelo	SP3-D141
		Junqueira	
		Rosa Medeiros Marinho	SP2-L135





Sandra Helena Pulcinelli	SP2-I10, SP2-I11, SP2-I12, SP2-I13, SP2-I14, SP2-I20, SP2-I3, SP2-I32, SP2-I52, SP2-I61, SP2-I7, SP3-F135, SP3-I70, SP3-I80, SP3-I82, SP3-I90	Sebastião William Silva	SP3-F148
Sandra Jussara Nunes Silva	SP2-K121	Segundo Nilo Mestanza Munoz	SP1-A61, SP1-C23, SP3-D132, SP3-I102, SP3-I108, SP3-I112, SP3-I133
Sandra Lúcia Nogueira	SP1-K14, SP1-K17, SP1-K5	Seila Rojas	SP2-B112, SP3-L203, SP3-L249
Sandra Mara Martins-Franchetti	SP1-B33	Selma Elaine Mazzetto	SP1-A20, SP1-A21, SP1-A27
Sandra Marcela Landi	M4.1	Selma Gutierrez Antonio	N4.3, SP1-L60, SP1-N17, SP1-N18, SP1-N5
Sandra Melo Cassemiro	SP1-K18	Sergey B. Mirov	C4.3
Sandra Regina Masetto Antunes	SP2-F99, SP2-L154, SP2-L155, SP3-F134, SP3-L185, SP3-L188	Sergio A. de S. Farias	L3.1
Sandra Teixeira Jaeckel	SP2-A77	Sergio Akinobu Yoshioka	B2.5, SP2-B96
Sandro Griza	SP2-M14, SP2-M15, SP3-H31, SP3-H51	Sergio A Marques Lima	SP3-F177, SP3-I125
Sandro Lima	SP3-L270	Sergio Antonio Spinola Machado	SP1-D47
Sandro Marden Torres	SP3-Q13	Sérgio Barbosa Rahde	SP3-D174
Sânia Maria Belísio Andrade	SP1-B18, SP1-B23, SP1-B35, SP3-Q10, SP3-Q16, SP3-Q30	Sergio Benites Legoas	P2.4, SP3-G45
Santiago Corujeira Gallo	D2.5, SP1-D24, SP1-D27, SP1-D46, SP2-D85	Sergio C Zilio	F6.2
Santiago Vacca	J9.3	Sergio da Silva Cava	L6.3, P2.3, SP1-L35, SP1-L51, SP1-L55, SP1-L78, SP1-L92, SP1-L93, SP2-A96, SP2-D82, SP2-L104, SP2-P12, SP2-P6, SP3-D151, SP3-L215, SP3-L261, SP3-L264, SP3-L274
Sašo Šturm	I5.4	Sérgio Delijaicov	O2.4, SP1-O1
Sara Blunk Massardo	SP1-D54	Sérgio Echeverrigaray	SP1-L20
Sara Braga Honorato	E9.1	Sergio Gama	SP1-A59, SP3-H25
Sara Cuadros Orellana	SP2-D81	Sergio H. B. Leal	SP1-B36, SP1-B41
Sara D Costa	P3.2	Sérgio Henrique Pezzin	SP1-B37
Sara Figueredo de A. Morais	SP2-F63	Sérgio Luiz de Assis	SP1-D20
Sara Regina Moura Figueiredo Porto	L3.2, SP3-L184	Sergio Luiz Mineiro	SP3-L192
Satika Otani	D4.3	Sergio Luiz Morelhaio	SP1-C19
Saul Luchtemberg Bitencourt	SP3-H41, SP3-H42	Sergio Luiz Telles Bartex	SP3-J15
Saulo Alonso Silva	SP2-D106	Sergio Machado Rezende	A1.1
Saulo C. Lima	SP3-D119	Sergio Mazurek	D1.2, L8.3, SP1-D52, SP1-F54, SP1-L2, SP1-L37, SP1-L38, SP1-L59, SP1-L6, SP1-L76, SP1-L78, SP1-L95, SP2-D79, SP2-L132
Saulo Davila Jacobsen	SP3-D120	Sergio Mejia	SP3-G28
Saulo Renan Ferreira Sottoriva	SP2-D68	Sérgio Oliveira	SP3-F152
Saulo Roca Bragança	M2.4, SP3-L235	Sérgio Paulo Campana Filho	SP2-K101
Sávio Augusto Lopes da Silva	SP1-K19	Sergio Paulo Marcondes	SP2-L162
Scheilla Maria Ramos	SP2-A111, SP2-A115, SP2-A126, SP2-A74	Sergio Ribeiro Teixeira	D8.3, F5.5, SP2-D98, SP3-F192, SP3-F193, SP3-F194, SP3-F195, SP3-H48
Scott Packer	O2.1	Sergio Ricardo de Lazaro	L8.3, SP1-L37, SP1-L38, SP1-L95
Sebastião Elias Kuri	SP3-H30, SP3-H40		

Sérgio Rodrigues Barra	SP3-H46	Silvana de Oliveira Silva	SP3-G10, SP3-G9
Sergio Rodrigues Luz	SP1-F56	Silvana Garcia Viana	SP3-Q13
Sergio Tonini Button	SP1-O6	Silvando Vieira Dos Santos	SP2-M14, SP2-M15, SP3-H51
Sérgio Toshio Fujiwara	SP3-F129	Silvania Lanfredi	SP2-F115, SP2-F123, SP2-F125, SP2-L168, SP3-L190, SP3-L194, SP3-L244
Severino Alves Junior	G7.2, SP1-F26, SP1-K34, SP2-F68, SP2-I27, SP2-K93, SP2-L138, SP3-F128, SP3-F181, SP3-Q29, SP3-Q4	Silvânio Silvério Lopes da Costa	SP2-F105
Severino Jackson Guedes Lima	SP2-L131, SP2-L135, SP3-Q13	Silvia Caroline Gomes Dos Santos Silva	SP3-I98
S Felisbino	SP3-F172	Sílvia Guedes Braga	SP1-A29
Shayene Cynthia Andrade de Almeida	SP3-I70	Silvia Guterres	B2.3, SP1-B46, SP1-B51, SP1-B53, SP1-D25, SP2-B121, SP2-B91
Shay Reboh	SP2-M17, SP2-M18	Silvia Hannah Bilotti Ratto	SP2-B107, SP2-B110, SP2-B81
Sheila Bernhard Galvao	SP1-A2, SP2-I9	Silvia Helena Santagneli	SP2-L126, SP3-L217
Sheila Cristina Canobre	SP3-F173	Silvia Inés Pérez	SP2-M4
Sheila Maria Stoco	B4.2	Silvia Leticia Fernandes	SP2-L112
Sheila Medeiros de Carvalho	H4.1	Sílvia Mendes de Souza	SP3-F162, SP3-F175
Sheila Southgate de Oliveira	SP2-I29, SP2-I37	Silvia M Souza	SP2-K116
Sheyla Karolina Marques	SP3-L199	Sílvia Regina Grando	SP2-I39, SP2-I46
Shinya Otani	SP2-A74	Silvia Salua Maluf	L9.3
Shirleny Fontes Santos	SP2-I40	Silvio Buchner	SP2-L149
Shirley Leite Reis	SP1-L25	Silvio Francisco Brunatto	D2.3
Shixue Dou	SP3-F191	Silvio Luis Pereira Dias	I1.3, SP3-I104, SP3-Q44
Siara Silvestri	SP1-L2	Silvio Rainho Teixeira	SP1-A19, SP2-F106, SP2-F116, SP2-F74, SP2-F75, SP2-F76, SP2-F77, SP3-F144
Siderley Fernandes Albuquerque	H4.2	Silvio Veras Albuquerque	SP1-L96, SP3-L239, SP3-L240
Sidnei Antonio Pianaro	SP1-D52, SP1-F35, SP1-F56	Simone da Silva Simões	SP1-L99
Sidnei Joaquim	SP3-Q38	Simone de Fátima Medeiros	SP2-K119
Sidnei Paciornik	I2.4, SP1-F33, SP2-F87	Simone Ferreira Almeida Cruz	SP3-L273
Sidney Alves Lourenço	SP1-F36	Simone Fontana Pereira	SP3-Q23
Sidney José Lima Ribeiro	I3.2, SP1-B5, SP1-B57, SP2-F124, SP2-I31, SP2-I42, SP2-I51, SP2-L126, SP2-L142, SP3-D154, SP3-I117, SP3-I71, SP3-I79, SP3-L205, SP3-L217	Simone Leal Rosa	SP1-B54
Sidney Nicodemos da Silva	SP2-L165	Simone Souto da Silva Oliveira	SP1-L14
Siegfried Mantl	C1.1	Simone Souza Pinto	SP3-G31
Silene Carneiro do Nascimento	G7.2, SP3-Q4	Simoni Margareti Plentz Meneghetti	SP2-F63, SP3-D160
Silésia de Fátima Curcino da Silva	SP1-K11, SP2-K100	Sinara Borborema Gabriel	H5.2
Silgia Aparecida da Costa	SP2-B128	Sirlene Maria da Costa	SP2-B128
Silio Lima de Moura	SP2-D94, SP3-G26	Sirpa Vuorinen	SP2-B87
Silma Alberton Corrêa	SP1-D16	S.neda Ajdadi	SP1-D10
Silmara Caldas Santos	SP2-I30, SP2-L123	Sócrates de Oliveira Dantas	E7.2, G7.3, SP3-E7
Silmar Antonio Travain	SP3-Q51		



Tatiana Bendo	SP1-D12, SP1-D36, SP3-D136	Thalita Ferreira Menegassi de Souza	SP2-B93
Tatiana Duque Martins	SP1-K12, SP1-K13	Thalita Santos Bispo	SP1-F39, SP3-F180
Tatiana Lisboa Marcondes	M2.2, SP2-A119, SP2-A127	Thalita Verônica Calheiros Rolim	SP2-K67
Tatiana Martelli Mazzo	SP1-L30, SP1-L64	Thalles Senna Diógenes	SP1-F47
Tatiana M Cavalcanti	SP3-J3	Thamara R N Clemente	SP3-L268
Tatiana Mello da Costa Faro	SP3-G22	Thamyscira H. S. Silva	SP2-B75
Tatiana Sainara Maia Fernandes	SP3-L260	Tharsia Cristiany de Carvalho Costa	SP1-L9
Tatiana Silva	SP1-K47	Thatyane Morimoto Nobre	SP2-K71, SP2-K83
Tatiane F. Pineiz	SP1-C16, SP1-C8	Thatyara Freire de Souza	A1.2, SP1-A58
Tatiane Militão	SP1-F18	Thayene Ribeiro Ferreira	SP3-L267
Tatiane Moraes Arantes	SP2-I28, SP2-L107	Thays C. F. Santos	SP1-K56
Tatiane Muniz Silva	SP2-A107, SP2-A117	Thayse Marques Passos	SP1-B33
Tatianne Cristine de Oliveira Nunes	SP1-D6	Thebano Emílio de Almeida Santos	M3.3
Tatianny Soares Alves	SP1-B6	Theophilo Moura Maciel	H1.4, H4.2
Tatsuya Yanagisawa	SP2-A74	Thiago Álvares	L8.4
Telma Fernanda Eugênio	SP3-L250, SP3-L252, SP3-L271	Thiago Augusto de Sousa Moreira	SP2-B119
Telma Nagano de Moura	SP1-C47	Thiago Augustus Remacre Munareto Lima	D6.3
Telma Nogueira	SP1-K1, SP1-K2	Thiago Braga de Mello	SP3-I132
Telmo Roberto Strohaecker	O3.1, O4.3, SP1-O3, SP1-O4, SP2-D105, SP3-H31	Thiago Branquinho de Queiroz	I7.2
Teodorico Castro Ramalho	SP1-F17, SP3-G27, SP3-G29, SP3-G42	Thiago Câmara Rodrigues de Souza	L6.2, SP2-L127, SP2-L128, SP2-L130
Teoli Rodrigues Anunciado	SP2-B129	Thiago Carvalho Cipriano	SP2-K120
Tércio Graciano Machado	SP3-L269, SP3-L272	Thiago da Cruz Canevari	SP2-I66, SP2-I8
Terence G. Langdon	H7.2	Thiago Daniel Oliveira Moura	SP1-C21
Teresa Dib Zambon Atvars	K4.2, SP1-K35, SP1-K6	Thiago Domingues Holzmann	SP1-L6, SP1-L76
Teresa Puig	SP2-A90	Thiago Eichi Goto	SP2-K64
Teresa Toll-Duchanoy	D8.4	Thiago Fernandes Amaral	D2.3
Tereza Silva Martins	SP1-F24	Thiago Figueiredo Azevedo	SP2-M14, SP2-M15
Terezinha de Jesus Andreoli Pinto	SP2-F64	Thiago Henrique Delfino Santos	SP3-I108
Thaisa Mary Carvalho	SP3-H25, SP3-H5, SP3-H8, SP3-H9	Thiago Henrique Rodrigues da Cunha	SP1-C30
Thaís Cristina Alonso	SP1-N13	Thiago José de Almeida Mori	SP1-A64, SP2-A110, SP2-A80, SP2-A81
Thaís Ferreira	SP3-F152	Thiago Marques Ivaniski	SP2-D85
Thais Helena Maciel Fernandes	SP3-I105	Thiago Martucci	SP2-A116
Thaís Souza Passos	SP1-B21	Thiago Melo Lima	A5.2, SP3-F148
Thais Sydenstricker Flores-Sahagun	B2.4, SP2-B106, SP2-B129	Thiago Peixoto	F7.3
Thalita Angélica Destefani	SP3-F147	Thiago Schmeling Fontana	SP3-G40
Thalita Chiaramonte	SP1-C14		

Thiago Sequinel	D1.2, SP1-D52, SP1-L2, SP1-L59, SP1-L6, SP1-L76, SP1-L78, SP2-D79, SP2-L132	Tomaz Manabu	SP3-H2
Thiago Sousa Costa	SP3-J9	Hashimoto	
Thibaut Jarrosson	SP1-K14	Tomaz Toshimi Ishikawa	SP3-F145
Thieres Magaive Pereira	SP2-D75	Tomé Mauro Schmidt	P2.1, SP1-C50
Thierry Belmonte	D4.1, D8.4, SP1-D53	Tonilson de Souza	O3.1, O3.4, O4.3, SP1-O4
Thierry Czerwiec	D8.4	Rosendo	
Thiers Massami Uehara	SP2-K72	Tsuneharu Ogasawara	SP2-I40, SP3-L179
Thigo Paulino Tranin	H1.2, SP3-H39	Tulio Hallak Panzera	I6.2, L5.3, SP2-L127, SP2-L128, SP3-F160
Thisiania Romero Vieira Soares	SP3-L222, SP3-L227, SP3-L229		
Thomas Chudoba	D5.3		<b>U</b>
Thomas Dumelow	E9.1, SP3-E6	Ubirajara Domingos Castro	SP3-H47
Thomas F Kelly	SP2-M26	Ubirajara Pereira	SP2-I18, SP2-I53, SP2-I56
Thomas Gries	D4.1, SP1-D53	Rodrigues Filho	
Thomas Hirsch	D5.4	Uílame Gomes	SP3-L272
Thomas Schenk	J6.1	Uilame Umbelino Gomes	SP3-H45
Thomas Schmidt	SP2-F110	Uine Lima Oliveira	SP2-B74, SP3-Q29
Thompson Júnior Ávila Reis	H6.1	Umdelino Gomes	SP3-Q37
Tiago Bruno Reis Araujo	SP1-B44	Ury Denver Chacón Hernandez	A6.3, SP1-A26, SP1-A62
Tiago C. A. F. Rodrigues	SP2-A133, SP2-A134		
Tiago Campolina Barbosa	P1.2, SP2-P22		<b>V</b>
Tiago Carneiro Gomes	SP1-K50	Vagner Roberto Botaro	SP1-B2, SP1-B4, SP1-B50, SP2-B124
Tiago Delbücke	L6.3, SP3-L215, SP3-L261, SP3-L264, SP3-L274	Vagner Romito Mendonça	M5.3, SP2-F114, SP2-F121, SP2-M13
Tiago de Mattos Serodre	SP3-F170	Vagner Sargentelli	SP1-B5
Tiago F.a. Santos	O2.5, O4.2, SP1-O10, SP1-O6	Vagner Zeizer Carvalho Paes	SP1-A9
Tiago Hilário Ferreira	SP1-A47, SP3-F132, SP3-F169, SP3-Q49	Valcinir Aloisio Scalla	SP2-B84, SP2-B85
Tiago Honorato da Silva	SP1-F53	Vulcani	
Tiago Luis da Silva	SP1-A40, SP1-A49	Valdeene Albuquerque Jansen da Silva	SP1-A14, SP1-A35, SP1-A37, SP1-A42
Tiago Moreira Bastos Campos	SP2-I24	Valdemar Das Neves Vieira	SP1-A15, SP1-A44, SP1-A60, SP1-A68, SP2-A123, SP2-A77
Tiago Pedroso de Almeida	SP1-K39	Valdemar Silva Leal	SP3-F145
Tiago Renovato	SP1-F47	Valdemir Dos Santos	SP1-L39, SP1-L66, SP1-L73, SP2-L137
Tiéldy Lima	SP2-D118	Valdemir Ludwig	SP1-F11
Tim Stotler	O3.2	Valdenir Santos	SP3-L193
Tina Setinc	SP1-C36	Valderes Crespo Drago	A5.5, SP3-F153, SP3-F154, SP3-F155, SP3-F156
Tito José Bonagamba	SP2-A118	Valdi Antonio Rodrigues Jr	SP2-A125
Tobias Heimfarth	A8.2	Valdinete Lins Silva	SP2-L108
Tomás Jeferson Alves de Mélo	SP1-B56	Valdir Alves Guimarães	H2.3
Tomaz Arakaki	SP3-I83	Valdirlei Fernandes Freitas	SP1-L72
Tomaz Barreto da Silva	SP1-D51	Valdir Mano	SP1-K46, SP3-I111
Tomaz Catunda	SP1-C29		

Valdir Soldi	SP2-B67	Veronica Alves Dos Santos	SP3-I127
Valeria Aparecida Mattar Vilas Boas	SP2-K95	Veronica Cristhina Diniz	SP1-A24
Valeria Moraes Longo	L9.1, SP3-L219	Veronica de Carvalho Teixeira	N5.5
Valéria Spolon	SP2-K88	Verônica Oliveira	D2.2
Marangoni		Vicente Agustín Atoche Espinoza	SP1-L52
Valérie Bouquet	L3.4, L5.5, SP2-L108, SP2-L118, SP2-L136, SP2-L140, SP3-L226	Vicente Lira Kupfer	SP2-K116, SP2-K123, SP3-F175, SP3-F184, SP3-I121
Valérie Briois	SP2-I14, SP3-I70	Vicente Tadeu Lopes Buono	SP3-D141
Valmor Roberto Mastelaro	F6.2, L7.4, N4.2, N5.4, SP1-L19, SP1-L80, SP1-L86, SP2-F114, SP3-D130	Victor Alexandre Veit Schmachtenberg	SP3-F154, SP3-F155, SP3-F156
Valquiria Rodrigues	SP2-K117, SP2-K89	Victor Cangussu Cardoso	SP2-D113
Valtecir Lúcio de Lima Gomes	SP3-Q1	Victor Carlos Pandolfelli	L4.1
Valtecir Zucolotto	SP1-B30, SP1-B31, SP1-K10, SP2-D60, SP2-K115, SP2-K67, SP2-K72, SP2-K85, SP2-K86, SP2-K88, SP3-D130	Victor Carozo	C4.2, SP2-P8
Valter Barragan Neto	SP3-H14	Victor Ciro Solano Reynoso	SP1-C48, SP3-D143
Vanda Maria de Oliveira	A5.4, SP1-A18	Victor F. Pereira	SP1-O8
Vandeci Dias Santos	SP2-B79	Victor Hugo de Oliveira	SP1-F29
Vanessa Camila	SP2-B96	Victor Hugo Vitorino Sarmiento	SP3-I128, SP3-I129
Montanha		Victor Pellegrini	M3.3
Vanessa Cristina Gonçalves	SP1-K15, SP1-K27, SP2-I20, SP2-I61	Mammana	
Vanessa Danielle de Oliveira Fortes	SP2-K97	Victor Teixeira da Silva	SP1-L54
Vanessa D Justina	SP2-K76	Aragão	
Vanessa Luciane Oliveira	SP1-F28	Victor Vieira de Moraes Neto	SP2-K103
Vanessa Orsi Gordo	SP3-L251	Vikas Nandwana	A9.3
Vanessa Petrilli	SP1-D4	Vilany Santos Carvalho	SP2-D95
Bavaresco		Vincent Ji	SP3-D146, SP3-D148
Vanessa Pinto Bezerra	SP1-L57, SP1-L79	Vinicius Bemfica	SP3-L179
Vanessa Schatkoski	SP2-A93	Vinicius Claudio Zoldan	K7.4
Vanessa - Seriacopi	SP1-D22, SP1-D23	Vinicius Dantas Araújo	SP1-F4, SP1-L18
Vanessa Sobue Franzo	SP2-B84, SP2-B85	Vinicius de Rezende Rodovalho	SP2-D81
Vania Aparecida Novak	SP3-L262	Vinicius Franco do Nascimento	SP1-L70, SP3-L242
Vânia Caldas de Sousa	SP1-C49, SP2-F72, SP2-L129	Vinicius Guilherme Celante	SP2-D103, SP2-D69
Vânia Mendes Prado	SP1-N4	Vinicius Ladeia	SP2-B114, SP2-B120
Vania M Flosi Paschoalin	SP1-B60, SP1-B63	Semenzim	
Vânia Sonda	D6.1	Vinicius Martins	SP1-B54
Velin Nikolov	SP3-E4	Vinicius Oliveira Aguiar	SP2-B130
Vera L. Mazzocchi	SP3-F142	Vinicius Ramos Zanchin	C2.2, SP1-C47
Vera Maria Martins Salim	D5.6, F5.3, SP3-Q38	Vinicius Rodrigues Henriques	H4.3, SP1-D15
Verona Biancardi Oliveira	SP3-H16	Virgílio Anjos	SP2-P14
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Vitaliy Bilovol	SP2-I65	Wagner de Rossi	SP3-J25
Vitoldo Swinka Filho	SP3-L254	Wagner Dias Macedo	SP3-F144
Vitor Alencar Nunes	L6.2, SP2-L127, SP2-L128, SP2-L130	Junior	
Vitor Alexandre Nunes de Carvalho	SP1-N15	Wagner Eduardo Silva	SP2-I26
Vitor Carlos Coletta	SP2-F83	Wagner Izaltino Alves	SP1-F45
Vitor César Dumont	SP2-B125, SP3-Q53	Santos	
Vitória Martins Soares	SP3-L245	Wagner Jose Odilon	SP1-N10
Pamplona		Wagner Souza Machado	K1.2, K8.2, SP1-K31
Vitor José Pinto Gouveia	SP2-M7	Waldeci Paraguassu	E8.1, SP1-F21, SP3-E4
Vitor Luiz Sordi	H7.1, H7.2	Waldek Wladimir Bose	H2.1
Vitor Rafael Coluci	E7.2, G7.3, P2.4, SP3-E7, SP3-E8, SP3-G22	Filho	
Vitor Rodrigo Melo	SP2-L133, SP3-L248	Waldemar Alfredo	H7.3
Vivian Cristina Velloso	SP2-A92, SP2-A94	Monteiro	
Metzner		Waldemar Augusto de	A1.2, SP1-A47, SP1-A48, SP1-A58, SP2-A69, SP3- F169
Vivian Delmute	SP1-A32, SP1-A33	Almeida Macedo	
Rodrigues		Waldir Avansi	L9.1, M5.3, SP1-F31, SP1- F4, SP1-L64, SP2-F114, SP2-F121, SP2-M13, SP3- D130
Viviane Aparecida	B4.2	Walman Benicio Castro	SP3-J1
Queiroz		Walmir Eno Pottker	SP2-A97
Viviane Figueiredo de	SP2-B122	Walmir Silva Garcez	SP2-I35
Souza		Walmor Cardoso Godoi	SP3-L254
Viviane F. Soares	SP2-P13	Walter Botta	SP2-M6, SP3-F145, SP3- J12, SP3-J13
Viviane G. P. Ribeiro	SP1-A21	Walter Dos Reis Pedreira	SP2-F103
Viviane Lopes	SP3-J18	Filho	
Gschwenter Dos Santos		Walter Katsumi	SP2-F77
Viviane L. Soethe	SP1-D31	Sakamoto	
Viviane Queiroz da Silva	SP3-D122	Walter Maigon	SP1-F11, SP1-F29
Viviane Tiemi Utumi	SP3-F140	Pontuschka	
Viviane Zurdo Costa	SP1-K47, SP3-F131	Walter Mendes de	F3.1, SP1-A50, SP3-F128
Vivian Machado de	SP1-F32, SP2-F71, SP2-P3	Azevedo	
Menezes		Walter Miyakawa	SP1-D38, SP3-D173
Vivian Romero Santiago	SP1-A20, SP1-A21, SP1- A27	Walter Orellana	F7.5, SP2-F86
Viviany Geraldo	SP3-F152	Walter Ruggeri Waldman	SP1-B49
Vivienne Falcao	SP1-C21	Walter W. B. Pessoa	SP2-B75
Vladimir José Trava- Airoldi	D5.1, SP1-N8, SP3-D126, SP3-D177	Wanda Valle Marcondes	SP1-C6
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Volker Blum	SP1-K41	Wanderleiton da Silva	SP1-D48
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Oliveira		Wander Luiz Vasconcelos	SP1-L1, SP2-I2
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Wellington Henrique Cassinelli	SP3-I123		
Wellington Wallace	A9.3		
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Wendel Andrade Alves	SP2-K120, SP2-K99		
Wendel Malkowski	SP1-L40		
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Wilhan Donizete Gonçalves Nunes	SP1-K49, SP2-B101		
Wilhelm Martin Wallau	I3.3, SP2-I60		
Wilian Pereira Santos	SP1-L66		
Willem Vieira Nascimento	SP3-H31		
William Gamino Güths	SP1-B17, SP1-B28		
William H. Trujillo	A3.2, A6.3, SP2-A128, SP2-A130, SP2-A131, SP2-A132, SP3-F197		
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Willian Edgardo Alayo	SP1-A26, SP1-A30, SP1-A62, SP1-C22, SP2-A83		
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Wilson Acchar	SP1-F37, SP1-L10, SP3-G30, SP3-Q34		
Wilson Luiz Guesser	L9.2, SP3-H23		
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Xavier Obradors	SP1-A15, SP2-A90		
Ximena Elizabeth Puentes	SP2-A109		
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Yacco Garcia Trindade Barata	SP3-I98, SP3-I99		
Yale Luck Nunes	SP1-A27		
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Yoshitaka Gushikem	I1.1, I1.3, SP2-I19, SP2-I66, SP2-I8, SP3-F141, SP3-I104, SP3-I105, SP3-I92		
Younes Messaddeq	SP2-F124, SP2-I51, SP2-L126, SP2-L142, SP3-D154, SP3-L205, SP3-L217		
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Yure Gomes de Carvalho Queirós	SP2-B109		
Yurika Okamoto Iwaki	SP2-K83		
Yuri Melo Alves	SP2-D84		
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Yutao Xing	A6.3, SP1-A30, SP1-A62, SP2-A113, SP2-A128		
Yvonne P. Mascarenhas	SP1-K10, SP1-K8, SP1-K9		
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Zacarias Eduardo Fabrim	D3.3, F2.5, SP3-F143		
Zahid Hussain	N5.3		
Zaine Teixeira	SP2-B100, SP2-B68, SP2-B99, SP2-K97		
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Zélia Maria da Costa Ludwig	SP1-F11, SP1-F29		
Zhi Liu	N5.3		
Ziani de Souza Schiaber	SP1-C17		
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