

# Symposium D

## TUESDAY OCTOBER 10TH



### 2:50 – 4:20 P.M. ORAL SESSION D1

Room: LUPATECH S/A

- 2:50 – 3:20 P.M. NEW PARADIGM FOR SOLAR ENERGY CONVERSION USING SEMICONDUCTOR NANOCRYSTALS **(D635,Invited)**. Victor I. Klimov (Los Alamos National Laboratory, USA)
- 3:20 – 3:35 P.M. CHARGE INJECTION AND TRANSPORT IN POLY 3-HEXYLTHIOPHENE/CARBON NANOTUBES NANOCOMPOSITES **(D554)**. Marcos Gomes da Luz (UFPR), Aldo Zarbin (UFPR), Mariane Schnitzler (UFPR), Carla Daniele Canestraro (UFPR), Marlus Koehler (UFPR) and Lucimara Stolz Roman (UFPR)
- 3:35 – 3:50 P.M. INAS/INGAALAS/INGAAS/INP QUANTUM DOT INFRARED PHOTODETECTORS **(D507)**. Karl Unterrainer (TU-Wien), Artur J. Lopes (PUC-Rio), Thomas Gebhard (TU-Wien), Mauricio P. Pires (UFRJ), Patricia L. Souza (PUC-Rio), José Maria Villas-Boas (Ohio University) and Nelson Studart (UFSCar)
- 3:50 – 4:05 P.M. CHARACTERIZATION OF CHEMICAL REACTION BETWEEN MEH-PPV AND SOLVENTS CONTAINING HALOGEN ATOMS INDUCED BY GAMMA RAY BEAMS **(D528)**. Patrícia Nicolucci (FFCLRP-USP), Marcelo Caetano Oliveira Alves (FFCLRP-USP), João Francisco Borin (FFCLRP-USP) and Carlos Frederico de Oliveira Graeff (FFCLRP-USP)
- 4:05 – 4:20 P.M. STUDY OF THE  $Ti_{0.5}Sn_{0.5}O_2$  IN THE RHODAMINE-6G (R6G) PHOTO DEGRADATION **(D501)**. Luis Otávio de Sousa Bulhões (UFSCAR), Paulo Roberto Bueno (IQ-UNESP), Leinig Antonio Perazoli (IQ-UNESP), Elson Longo (IQ-UNESP) and José Arana Varela (IQ-UNESP) ■



### 10:15 A.M. – 10:30 A.M. – COFFEE BREAK



### 5:50 P.M. – 7:20 P.M. – ROUND-TABLE

## WEDNESDAY OCTOBER 11TH



### 8:15 – 10:15 A.M. – ORAL SESSION D2

Room: LUPATECH S/A

- 8:15 – 8:45 A.M. INFLUENCE OF THE ACTIVE LAYER MORPHOLOGY ON THE DEVICE PERFORMANCE OF POLYMER-FULLERENE BULK HETEROJUNCTION SOLAR CELLS **(D567,Invited)**. Dyakonov, Vladimir (Univ. of Würzburg, Germany); Riedel, Ingo (Universität Oldenburg, Germany)

8:45 – 9:00 A.M. NANOSTRUCTURED ORGANIC FILMS FOR ENHANCED PHOTOVOLTAIC DEVICES **(D505)**. Frank Nüesch (EMPA), Carlos Frederico de Oliveira Graeff (USP-FFCLRP), Fernando Araújo Castro (USP - EMPA) and Roland Hany (EMPA)

9:00 – 9:15 A.M. SYNTHESIS AND CHARACTERIZATION OF  $EU^{3+}$  COMPLEXES **(D530)**. Vitor Angelo Fonseca Deichmann (UFPR) and Leni Akcelrud (UFPR).

9:15 – 9:30 A.M. NANOPOWDERS SRMO04 PREPARED BY COMPLEX POLYMERIZATION METHOD: MICRO-STRUCTURAL AND OPTICAL CHARACTERIZATION **(D568)**. Paulo Sergio Pizani (UFSCar), Edson Roberto Leite (UFSCar), Dulce Maria Melo (UFRN), Ana Paula Marques (UFRN) and Elson Longo (UNESP)

9:30 – 9:45 A.M. ELECTRONIC STRUCTURE OF THE AL/PPV INTERFACE **(D572)**. Marilisa Junqueira Caldas (IF-USP) and Ronaldo Giro (IF-USP).

9:45 – 10:00 A.M. OPTICAL PROPERTIES FROM NITRIDE SEMICONDUCTOR QUANTUM DOTS **(D575)**. Luísa Maria Ribeiro Scolfaro (IF-USP), Sara Cristina Pinto Rodrigues (DF-UFPE), Marcel Nogueira d'Eurydice (IFSC-USP), Ivan Silvestre Paganini Marin (IFSC-USP), Elton Márcio da Silva Santos (IFSC-USP), Guilherme Matos Sipahi (IFSC-USP) and Eronides Felisberto da Silva Jr. (DF-UFPE)

10:00 – 10:15 A.M. OPTICAL AND STRUCTURAL PROPERTIES OF NANOCRYSTALLINE  $Ga(1-x)Mn(x)N$  FILMS GROWN BY REACTIVE RF-MAGNETRON SPUTTERING **(D524)**. Jose Humberto Dias da Silva (FC-Unesp Bauru), André Luis de Jesus Pereira (FC-Unesp Bauru), Luis Fernando da Silva (FC-Unesp Bauru) and Douglas Marcel Gonçalves Leite (FC-Unesp Bauru) ■



### 10:15 A.M. – 10:30 A.M. – COFFEE BREAK



### 10:30 – 12:30 A.M. ORAL SESSION D3

Room: LUPATECH S/A

10:30 – 10:45 A.M. KINETICS OF PHOTO INDUCED BIREFRINGENCE IN THE GUEST-HOST SYSTEM OF PMMA DOPED WITH AZOBENZENE-CONTAINING CROWN ETHERS **(D523)**. José Alberto Giacometti (Unesp/FCT), Diogo Volpati (Unesp/FCT), Flávio Makoto Shimizu (Unesp/FCT), Juliusz Sworakowski (IPTC), Krzysztof Janus (IPTC) and Elzbieta Luboch (IPTC)

10:45 – 11:00 A.M. INDUCED ABSORPTION CHANGE IN POLED BOROSILICATE GLASS **(D557)**. Cristiano C.M.B. Cordeiro (UNICAMP, Instituto de Física), Michael A. Fokine (Politecnico di Torino, Italy), Pierre-Yves Balme (PUC-Rio) and Isabel C.S. Carvalho (PUC-Rio)

**11:00 – 11:15 A.M.** STRUCTURAL AND SPECTROSCOPIC STUDY OF ER<sup>3+</sup> AND ER<sup>3+</sup>/ YB<sup>3+</sup> ACTIVATED HFO2 POWDERS AND FILMS **(D560)**. Sidney Lima Ribeiro (IQ-UNESP-Araquara), Rogéria Rocha Gonçalves (FFCLRP-USP) and Maurizio Ferrari (IFN-CNR-Trento)


**11:15 – 11:30 A.M.** PHOTO AND THERMOCHROMIC GLASSES **(D593)**. Younes Massaddeq (IQ - Unesp), Sidney J.L. Ribeiro (IQ - Unesp), Gael Poirier (IQ - Unesp), Marcelo Nalin (IFGW- Unicamp) and Lucila Cescato (IFGW -Unicamp)

**11:30 – 11:45 A.M.** THE EFFECT OF THE THERMAL ANNEALING ON THE POROUS SILICON BRAGG REFLECTOR **(D605)**. Francisco Ramirez Fernandez (LME-USP), Danilo Roque Huanca (LME-USP) and Walter Jaimes Salcedo (LME-USP)

**11:45 – 12:00 P.M.** ULTRAVIOLET PHOTOLUMINESCENCE IN POLY(P-PHENYLENE VINYLENE) DERIVATIVES **(D577)**. Paulo Barbeitas Miranda (IFSC) and Marcelo Meira Faleiros (IFSC)

**12:00 – 12:15 P.M.** PREPARATION AND MORPHOLOGICAL CHARACTERIZATION OF THE FLUORESCENT FILMS BASED ON POLYMER DERIVATIVES **(D580)**. Adriana Santos Ribeiro (UFAL), Stela Marina Leite (UFAL), José Ginaldo da Silva Junior (UFAL) and Josealdo Tonholo (UFAL)

**12:15 – 12:30 P.M.** CHARACTERIZATION OF INTERFACIAL STATES IN MIS CAPACITORS USING AN AMBIPOLAR MATERIAL AS ACTIVE LAYER **(D542)**. Michael Cölle (Philips Research Lab.), Edsger C. P. Smits (Philips Research Lab.), Peter Stallinga (Universidade do Algarve), Adriano Reinaldo Benvenho (Universidade do Algarve), Dago M de Leeuw (Philips Research Lab.) and Henrique Leonel Gomes (Universidade do Algarve) ■

 **12:30 P.M. – 2:00 P.M. – LUNCH**

 **2:00 P.M. – 2:45 P.M. – PLENARY LECTURE**  
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 **2:50 P.M. – 4:20 P.M. – ORAL SESSION D4**  
Room: LUPATECH S/A

**2:50 – 3:20 P.M.** CYANINE DYES FOR ORGANIC PHOTOVOLTAICS **(D633, Invited)**. F. A. Castro (EMPA, FFCLRP), T. Geiger (EMPA), R. Hany (EMPA), M. Nagel (EMPA), H. Benmansour (EMPA), C. F. O. Graeff (USP-FFCLRP) and Frank Nüesch (EMPA).

**3:20 – 3:35 P.M.** ELECTRON FIELD EMISSION OF CARBON NANOTUBE/POROUS VITREO CARBON **(D584)**. S Ravi P Silva (University of Surrey), Elaine Y Matsubara (USP) and Jose Mauricio Rosolen (USP)

**3:35 – 3:50 P.M.** OPTICAL ABSORPTION AND MOLECULAR SIGNATURE IN THE PHOTOLUMINESCENCE OF  $\alpha$ -GLYCINE CRYSTALS: A ROUTE FOR BIO-OPTOELECTRONIC APPLICATIONS **(D609)**. Taianá Maia de Oliveira (UFC), Luisa M R Scolfaro (USP), J R L Fernandez (USP), Maria Conceição F. de Oliveira (UFC), Ewerton Wagner Santos Caetano (Dep. Física, UFC), Valder Nogueira Freire (UFC), Marcelo Zimmer Sampaio Flores (UFC), Gustavo Arruda Bezerra (UFC), Benildo Sousa Cavada (UFC), Horácio W Leite Alves (UFSJ) and Gil A Farias (UFC).


**3:50 – 4:05 P.M.** MAGNETOTRANSPORT INVESTIGATION OF THE TUNNELING DARK CURRENT IN STACKED INAS QUANTUM DOTS FOR INFRARED PHOTODETECTORS **(D612)**. Mauricio Pamplona Pires (UFRJ), Patricia Lustoza Souza (PUC-Rio), Gustavo Soares Vieira (IEAv), Sandra Marcela Landi (PUC-Rio), Paulo Sergio Soares Guimaraes (UFMG) and Andreza Germana Silva (UFMG)

**4:05 – 4:20 P.M.** ELECTRICAL CHARACTERIZATION OF THIN-FILM FIELD-EFFECT TRANSISTORS **(D583)**. Henrique Leonel Gomes (UAlg) and Peter Stallinga (UAlg). ■

 **4:20 P.M. – 4:40 P.M. – COFFEE BREAK**

 **4:20 P.M. – 5:45 P.M. – POSTER SESSION PD1**  
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 **5:50 P.M. – 7:00 P.M. – PLENARY SESSION**

 **20:30 P.M. – Conference Dinner** ↗  
Local: Swimming Pool Lounge

## THURSDAY OCTOBER 12<sup>TH</sup>

 **9:00 – 9:30 A.M. – ORAL SESSION D5**  
Room: LUPATECH S/A

**9:00 – 9:30 A.M.** PHOTSENSITIVE GLASSES FOR OPTICAL STORAGE. **(D571, Invited)**. Igor Skripatchev (IQ-UNESP), Gael Poirier (IQ-UNESP), Sandra Helena Messaddeq (IQ-UNESP), Sidney Jose Lima Ribeiro (IQ-UNESP) and Younes Messaddeq (IQ-UNESP).

 **9:30 A.M. – 10:45 A.M. – POSTER SESSION PD2**

 **10:15 A.M. – 10:30 A.M. – COFFEE BREAK**

 **10:45 A.M. – CLOSING PLENARY SESSION**