

Symposium E

MONDAY OCTOBER 9TH



8:30 A.M. – 10:15 A.M. ORAL SESSION E1

Chairperson: Anthony Cheetham

Room: UFSC

8:30 – 9:00 A.M. BIOHYBRID MATERIALS: DESIGNING SOL-GEL MATERIALS WITH BIOCHEMICAL PROPERTIES **(E626, Invited)** Bruce Dunn (UCLA), Jonathan Fang (UCLA), Esther H. Lan (UCLA), James R. Lim (UCLA) and Jing Zhou (UCLA).

9:00 – 9:30 A.M. CHIRALITY AND FLEXIBILITY IN HYBRID INORGANIC – ORGANIC STRUCTURES **(E625, Invited)** Allan J Jacobson (University of Houston, USA).

9:30 – 10:00 A.M. SYNTHESIS OF FINE CHEMICALS CARDANOL-BASED AND DESIGN OF A NEW CLASS OF HYBRID CATALYSTS **(E508)**. Vasapollo G. (Università di Lecce, Italy), Filippone P. (Università degli Studi di Urbino "Carlo Bo", Italy), Attanasi O. A. (Università degli Studi di Urbino "Carlo Bo", Italy), Mazzetto S. E. (UFC) and Giuseppe Mele (Università di Lecce, Italy).

10:00 – 10:15 A.M. CONDUCTING POLYMER PREPARATION UNDER EXTREME OR NON CLASSICAL CONDITIONS **(E514)**. R A de Barros (UFPE), Walter Mendes de Azevedo (UFPE) and E. F. da Silva J.R. (UFPE) ■



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



10:30 A.M. – 12:30 P.M. – ORAL SESSION E2

Chairperson: Guillermo Solórzano

Room: UFSC

10:30 – 11:00 A.M. RECENT DEVELOPMENTS IN HYBRID INORGANIC-ORGANIC FRAMEWORK MATERIALS **(E629, Invited)**. Anthony K. Cheetham (University of California, USA)

11:00 – 11:30 A.M. THE TEMPLATE-LIKE EFFECT OF IONIC LIQUIDS FOR THE PREPARATION OF NANOPARTICLES **(E632, Invited)** Jairton Dupont (UFRGS)

11:30 – 11:45 A.M. F-SWCNTS INCORPORATED INTO SILICA BY SOL-GEL AND HIGH-PRESSURE TECHNIQUES **(E562)** Tania Maria Haas Costa (UFRGS), Naira Maria Balzaretti (UFRGS), Guilherme de Oliveira Ramminger (UFRGS), Márcio Dias Lima (UFRGS), Monica Jung de Andrade (UFRGS), Márcia Russman Gallas (UFRGS) and Carlos Perez Bergmann (UFRGS)

11:45 – 12:00 P.M. MAGNETIC ANTIDOT ARRAYS ELECTRODEPOSITED BY NANOSPHERE LITHOGRAPHY **(E567)**. Guilherme Mueller Cesário Pereira (UFSC), Everton Fabian Jasinski (UFSC), Alexsandro Silvestre da Rocha (UFSC), Edna Regina Spada (UFSC) and Maria Luisa Sartorelli (UFSC)

12:00M – 12:15 P.M. RESONANCE RAMAN CHARACTERIZATION OF LAYER-BY-LAYER HYBRID FILMS OF POLYANILINE AND α -ZIRCONIUM PHOSPHATE. **(E548)** Celly M. S. Izumi (IQ-USP), Vera R. L. Constantino (IQ-USP), Marcia L. A. Temperini (IQ-USP).

12:15 – 12:30 P.M. ANISOTROPIC ORGANIZATION OF A SILICA BASED HYBRID MATERIAL WITH THE BRIDGED POSITIVELY CHARGED 1,4 DIAZONIABICYCLE[2.2.2.] OCTANE GROUP **(E583)**. Vitor Paulo Pereira (UFRGS), Márcia Russman Gallas (UFRGS), Yoshitaka Gushikem (UNICAMP), Juliana Dubois Ferreira (UFRGS), Adriana Castro Pinheiro (UFRGS), Leliz Ticona Arenas (UFRGS), Tania Maria Haas Costa (UFRGS) and Edilson Valmir Benvenuti (UFRGS) ■



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 E3

Chairperson: Jairton Dupont

Room: UFSC

2:50 – 3:20 P.M. THE ORDERING TRANSITION AND STRUCTURAL INSTABILITIES IN BLOCK COPOLYMER/NANOPARTICLE THIN FILM SYSTEMS **(E624, Invited)** Peter F. Green (University of Michigan, USA)

3:20 – 3:50 P.M. USE OF DNA AS TEMPLATE FOR LUMINESCENT POLYANIL InE/Au NANOCOMPOSITES **(E604)**. Celso Pinto de Melo (UFPE), Jayme Duarte Ribeiro-Filho (UFPE), César Augusto Souza de Andrade (UFPE) and Moema Barros e Silva Botelho (UFPE)

3:50 – 4:05 P.M. PROTEIN AND POLYMER COATED SEMICONDUCTOR QUANTUM DOTS FOR BIOLOGICAL LABELING. **(E578)**. Frederico Duarte Menezes (UFPE), Regina Célia Figueiredo (CPQAM), Diego César Nunes Silva (UFPE), Liliane Bezerra Lima (UFPE), Antônio Gomes Castro-Neto (UFPE), Alice Alexandra Vieira (UFPE), BEATE Saegesser Santos (UFPE), Patrícia Maria Farias (UFPE) and Andréa Cruz E Carvalho (UFPE)

4:05 – 4:20 P.M. FLUORESCENT SILICA BASED HYBRID MATERIALS CONTAINING BENZIMIDAZOLE TYPE DYE (**E614**). Edilson Valmir Benvenuti (IQ UFRGS), Marcia Russman Gallas (IF UFRGS), Valter Stefani (IQ UFRGS), Vinicius Rigon (IF UFRGS), Umberto Alencar Kober (IQ UFRGS), Helena Sofia Hoffmann (IQ UFRGS) and Tania Maria Haas Costa (IQ UFRGS) ■



12:30 P.M. – 2:00 P.M – LUNCH



2:00 P.M. – 2:45 P.M – PLENARY LECTURE

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4:20 P.M. – 4:40 P.M. – COFFEE BREAK



4:20 P.M – 5:45 P.M – POSTER SESSION PE2

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5:50 P.M. – 7:20 P.M - ROUND-TABLE

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4:20 P.M. – 4:40 P.M. – COFFEE BREAK



4:20 P.M. – 5:45 P.M. – POSTER SESSION PE1

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5:50 P.M. – 6:35 P.M – ROUND-TABLE

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TUESDAY OCTOBER 10TH



8:30 A.M. – 10:15 A.M. – ORAL SESSION E4

Chairpersons: Ana Maria Rocco

Room: UFSC

8:30 – 9:00 A.M. ADHESION IN HETEROGENEOUS SYSTEMS: FORMATION OF NANOHYBRID AGREGATES (**F526, Invited**) . Valadares L. F. (UNICAMP), Silva C. A. (UNICAMP), Bragança F. C. (UNICAMP), Linares E. M.(UNICAMP), Galembeck F (UNICAMP).

9:00 – 9:30 A.M. NOVEL ELECTRICAL CONDUCTIVE FIBRES USING THERMOPLASTIC ELASTOMER - CARBON BLACK COMPOSITES (**E529**). Thomas Graule (EMPA), Carlos Pérez Bergmann (UFRGS), Frank Clemens (EMPA) and Izabel Leite Silveira (EMPA e UFRGS)

9:30 – 9:45 A.M. INTERACTION OF PYRAZINETHANETHIOL ANT ITS PENTACYANOFERRATE(II) COMPLEX WITH GOLD NANOPARTICLES (**E600**). Koiti Araki (IQ-USP), Henrique Eisi Toma (IQ-USP), Jonnatan Julival dos Santos (IQ-USP), Leonardo Silva Bonifacio (IQ-USP), Juliano Alves Bonacin (IQ-USP) and Sergio Hiroshi Toma (IQ-USP)

9:45 – 10:00 A.M SYMMETRY PROPERTIES OF FCC MAGNETIC PHOTONIC CRYSTALS (**E535**). Marcos Caldas Costa (UFPA), Frascisco Mota Souza (UFPA) and Victor Dmitriev (UFPA)

10:00 – 10:15 A.M. NANOCRYSTALLINE DIAMOND FILMS FOR ELECTROCHEMICAL APPLICATIONS (**E520**) Maurício Ribeiro Baldan (INPE), José Maurício Rosolen (USP), Érica Cristina Almeida (INPE), Neidenêi Gomes Ferreira (INPE) and Adriana Faria Azevedo (INPE) ■



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