

Scientific Program

Monday, June 2, 2008

Opening Session

Monday, June 2, 2008 from 9h00 to 9h30 - **Auditorium**

Plenary Session

Plenary Lecture I Chair: Fernando Galembeck

Monday, June 2, 2008 from 09h45 to 10h30 - **Auditorium**

09h45 Mon-am-PL1 - **CARBON NANOTUBES: LARGE-SCALE PRODUCTION AND THEIR PRACTICAL APPLICATIONS**

Morinobu Endo

Parallel

Session I – Chair: Nelson Duran

Monday, June 2, 2008 from 11h00 to 13h00 - **Room A**

11h00 Mon-am-AI1 - **BIOLOGICAL APPLICATIONS OF COLLOIDAL NANOPARTICLES**

Wolfgang J. Parak

11h30 Mon-am-AI2 - **MEDICAL AND ENVIRONMENTAL APPLICATIONS OF MAGNETIC NANOPARTICULATED MATERIALS**

Paulo Cesar Morais

12h00 Mon-am-AO1 - **DEVELOPMENT OF FEXO MESO-POROUS NANO-RODS FOR ORGAN-SPECIFIC DRUG DELIVERY VESSELS**

O. Vasylykiv, H. Borodianska, T. Kolodiazhnyi, A. Tok

12h15 Mon-am-AO2 - **VERSATILE TiO₂-AG-NANOCOMPOSITE COATINGS FOR BIOMEDICAL AND SERS APPLICATIONS**

Mohammed Es-Souni

12h30 Mon-am-AO3 - **SYNTHESIS, CHARACTERIZATION AND GENE EXPRESSION EVALUATION OF NANOVECTORS BASED ON NOVEL MODIFIED PEI**

Mohammad Ramezani, Reza Kazemi Oskuee, Ali Dehshahri, Wayne Thomas Shier

12h45 Mon-am-AO4 - **THE INFLUENCE OF TEMPERATURE ON THE MAGNETIC BEHAVIOUR OF COLLOIDAL COBALT NANOPARTICLES**

C.L. Dennis, G. Cheng, K. Baler, B.B. Maranville, J. Davies, K. Liu, A.R. Hight, **R.D. Shull**

Parallel

Session II – Chair: Walter Botta

Monday, June 2, 2008 from 11h00 to 13h00 - **Room B**

11h00 Mon-am-BI1 - **NANOSCALE DEFORMATION IN NC-TiC/A-C NANOCOMPOSITE COATINGS**

Jeff T. De Hosson

11h30 Mon-am-BI2 - **ANTI-AGING FOR FACADES WITH A SILICA-ACRYLATE NANOCOMPOSITE BINDER**

Harm Wiese

12h00 Mon-am-BO1 - **Melting of multiphase nanoscaled particles embedded in Al matrix: Case of Pb-Sn and Bi-Sn alloys**

Victoria Bhattacharya and Kamanio Chattopadhyay

12h15 Mon-am-BO2 - **EFFECT OF FILLER MODIFICATION LEVEL ON THE STRUCTURAL AND THERMOMECHANICAL CHARACTERISTICS OF POLY(α -CAPROLACTONE) CLAY NANOCOMPOSITES**

Sotirios Ioannis Marras, Ioannis Zuburtikudis, Kyriaki Tornikidou, Elpiniki Panayotidou, Georgia Christofidou

12h30 Mon-am-BO3 - **SUPERHARD NANOCOMPOSITES-BASED HIGH-MELTING POINT COMPOUNDS**

Rostislav A. Andrievskiy and Gennadiy V. Kalinnikov

12h45 Mon-am-BO4 - **SILICA-COATING OF CU NANOPARTICLES**

Yoshio Kobayashi, Takahito Sakuraba

Parallel

Session III – Chair: Veronique Dupuis

Monday, June 2, 2008 from 11h00 to 13h00 - **Room C**

11h00 Mon-am-CI1 - **STUDY OF THE MATERIALS AT THE NANOSCALE BY SCANNING TRANSMISSION ELECTRON MICROSCOPY AND FIRST-PRINCIPLES CALCULATIONS**

Juan C. Idrobo

11h30 Mon-am-CI2 - **CHEMICAL ASPECTS OF NANOTECHNOLOGY ADDRESSED WITH SCANNING PROBE MICROSCOPY**

J. Frommer

- 12h00 Mon-am-CO1 - **THIN MULTIFUNCTIONAL SILVER/FLUOROCARBON PLASMA POLYMER NANOCOMPOSITE FILMS ON METALS**
Dr. Xuemei Wang , Prof. Dr. Guido Grundmeier
- 12h15 Mon-am-CO2 - **ELLIPSOMETRIC POROSIMETRY : FAST AND NON DESTRUCTIVE MORPHOLOGICAL AND CHEMICAL CHARACTERIZATION OF POROUS THIN FILMS**
Alexis Bourgeois , **Laurent Kitzinger** , Christine Walsh , Yan Turcant , Christophe Defranoux
- 12h30 Mon-am-CO3 - **ATOMIC FORCE MICROSCOPE STUDY OF BIOFILMS**
Arunima Bhattacharjee
- 12h45 Mon-am-CO4 - **NANOSTRUCTURED TITANIUM BORIDE NITRIDE FILMS DEPOSITED BY DC MAGNETRON SPUTTERING: STRUCTURAL CHARACTERIZATION**
Carlos Manuel Sanchez Tasayco , Fernando Lazaro Freire Jr.

Plenary

Plenary Lecture II – Chair: Robert Shull

Monday, June 2, 2008 from 14h30 to 15h15 - Auditorium

- 14h30 Mon-pm-PL1 - **METROLOGY CHALLENGES FOR NANOSTRUCTURED MATERIALS**
João Alziro H. da Jornada

Poster

Poster Session I

Monday, June 2, 2008 from 15h15 to 16h30 -

- 15h15 Mon-PO001 - **STUDY OF THERMAL STABILITY OF HYDROUS TITANIUM OXIDE NANOTUBES**
P. Venegas , S. Fuentes , R. Espinoza , R.A. Zárate
- 15h15 Mon-PO002 - **SYNTHESIS AND CHARACTERIZATION OF CUO NANOWIRES STRUCTURE ON A COPPER SURFACE**
María Eugenia Bustos Rodriguez , Juan Aguilar , Sandra Fuentes , Ramon Antonio Zarate , D.E.Droguett
- 15h15 Mon-PO003 - **DIRECT PREPARATION AND CHARACTERIZATION OF NANOSTRUCTURED ZINC OXIDE**
Camilla Santos Zanatta , **Dayse Iara dos Santos** , Margarida Juri Saeki
- 15h15 Mon-PO004 - **SOFT PURIFICATION OF SINGLE-WALLED CARBON NANOTUBES PRODUCED BY THE ARC-DISCHARGE METHOD**
Mariane Cristina Schnitzler , Hélio Ribeiro , Sirlaine Diniz Brandão , Cristiano Fantini , Clascidia Aparecida Furtado , Adelina Pinheiro Santos
- 15h15 Mon-PO005 - **FINITE ELEMENT SIMULATION TO CALCULATE THE OPTIMUM DIAMETER OF SINGLE-WALL CARBON NANOTUBE TORI**
Mostafa Shojaie Barjuie , Hosein Golastaniyan , Mahdi Salmani Tehrani , Mehrdad Poursina
- 15h15 Mon-PO006 – **STUDY OF ELECTRICAL PROPERTIES OF ZNO NANOTUBES.**
Soosen Samuel M
- 15h15 Mon-PO007 - **COMPUTER SIMULATIONS OF COPPER AND GOLD NANOWIRES AND SINGLE WALL NANOWIRES**
Edgard Pacheco Moreira Amorim , Antônio José Roque da Silva , Edison Zacarias da Silva
- 15h15 Mon-PO008 - **MORPHOLOGIES AND THERMAL STABILITIES CHANGES ON NITRIC ACID OXIDIZED MULTIWALLED CARBON NANOTUBES**
Ana Paula Lemes , Priscyla Daniely Marcato , Odair Pastore Ferreira , Oswaldo Luiz Alves , **Nelson Durán**
- 15h15 Mon-PO009 - **ALUMINA NANOTUBES: MECHANISM OF FORMATION FOR ANODIZATION PROCESSES AND DISSOLUTION FOR ETCHING**
Adriano Friedrich Feil , Marlla Valerius da Costa , Pedro Migowski , Jairton Dupont , Livio Amaral , Sérgio Ribeiro Teixeira
- 15h15 Mon-PO010 - **THEORETICAL INVESTIGATION OF DEFECTIVE BC2N NANOTUBES AS A HYDROGEN STORAGE MATERIAL**
Jussane Rossato , Rogerio J. Baierle , Walter Orellana
- 15h15 Mon-PO011 - **MONOMER CONCENTRATION EFFECT ON ELECTROCHEMICALLY MODIFIED CARBON FIBER / 1-(4-METHOXY PHENYL)-1H-PYRROLE MICRO CAPACITOR**
Sibel Sezgin , murat ates , c.metehan turhan , A.Sezai Sarac
- 15h15 Mon-PO012 - **STABILITY AND ELECTRONIC PROPERTIES OF NATIVE DEFECTS AND SUBSTITUTIONAL IMPURITIES IN GAN NANOTUBES.**
Marcio Luiz Colussi , Rogério José Baierle
- 15h15 Mon-PO013 - **SYNTHESIS OF MULTI-WALLED CARBON NANOTUBES OVER FE, CO AND FE-CO CATALYSTS SUPPORTED IN SILICA**
Maria Inês Souza , **Victor Teixeira da Silva**
- 15h15 Mon-PO014 - **SYNTHESIS, STRUCTURAL AND MORPHOLOGICAL CHARACTERIZATION OF VANADIUM OXIDE / N-AMINE NANOTUBES**
Martin Eduardo Saleta , Mara Granada , Horacio Esteban Troiani , Rodolfo Daniel Sánchez , Marcos Malta , Roberto Manuel Torresi

- 15h15 Mon-PO015 - **SYNTHESIS OF AU-PD BIMETALLIC NANOPARTICLES AND THEIR APPLICATION FOR THERMAL GROWTH OF COPPER NANOSTRUCTURES**
María De Lourdes Ruiz Peralta
- 15h15 Mon-PO016 - **INVESTIGATION OF DRUG RELEASE FROM FATTY ACID/COPOLYMER MAGNETIC MICELLE BY ITS ACTIVITY AGAINST PARACOCCIDIOIDES BRASILIENSIS**
André Corrêa Amaral, Camila A Saldanha, Patrícia Medeiros Basílio, Anamélia Lorenzetti Bocca, Luciana Rebelo Guilherme, Joel Rocha da Silva, Eloiza da Silva Nunes, Ricardo Bentes Azevedo, Emília Cela de Oliveira Lima, Maria Sueli Soares Felipe, Paulo César de Moraes
- 15h15 Mon-PO017 - **SYNTHESIS AND CHARACTERIZATION OF HYDROGEL-MAGNETIC NANOPARTICLES WITH IMMOBILIZED L-ASPARAGINASE**
Eugenia Dumitra Teodor, Irina Lupescu, Raluca Somoghi, Simona Carmen Litescu
- 15h15 Mon-PO018 - **NANOCARRIERS BASED ON HYDROPHOBIC PEI-OLIGOAMINES FOR PLASMID DNA TRANSFER**
Ali Dehshahri, Mohammad Ramezani, Reza Kazemi Oskuee, Wayne Thomas Shier
- 15h15 Mon-PO019 - **TISSUE RESPONSE TO SUBCUTANEOUS IMPLANTATION OF COLLAGEN-POLYURETHANE COMPOSITES IN RATS**
Otilia Zarnescu, Lucia Moldovan, Oana Craciunescu, Traian Leau
- 15h15 Mon-PO020 - **BIOCOMPATIBLE PROPERTIES OF HYDROGEL-MAGNETIC NANOPARTICLES WITH L-ASPARAGINASE IMMOBILIZED**
Eugenia Teodor, Camelia Albu, Georgiana Truica, C. Balotescu
- 15h15 Mon-PO021 - **PREPARATION AND CHARACTERIZATION OF LIPOSOMES AND CHITOSOMES CONTAINING MELATONIN AND INCORPORATION IN GELS DESIGNED FOR CUTANEOUS ADMINISTRATION**
Manuela França Gonçalves, Thatiana Ferreira Terroso, Nádyá Pesce da Silveira, Adriana Raffin Pohlmann, Sílvia Stanisçuaski Guterres
- 15h15 Mon-PO022 - **A NOVEL ALBUMIN-MAGHEMITE NANOCOMPOSITE ABLE TO CROSS THE BLOOD BRAIN BARRIER: HISTOLOGICAL AND ULTRA-STRUCTURAL STUDIES.**
Débora de Oliveira Cintra e Silva, Zulmira Guerrero Marques Lacava, Paulo César de Moraes, Antônio Cláudio Tedesco, Sônia Nair Bão
- 15h15 Mon-PO023 - **VARYING THE CAPRIC/CAPRYLIC TRIGLYCERIDE CONCENTRATION TO CONTROL THE RELEASE OF INDOMETACIN ESTER FROM POLYMERIC NANOCAPSULES**
Cristina de Garcia Venturini, Eliézer Jäger, Fernanda Poletto, Silvia Stanisçuaski Guterres, Adriana Raffin Pohlmann
- 15h15 Mon-PO024 - **MCM-41/N-IPAAM HYBRID MATERIAL FOR BIOAPPLICATION: SYNTHESIS AND CHARACTERIZATION**
Edesia Martins Barros de Sousa, Andreza de Sousa, Bernardo Furquim Werneck Marinho, Ricardo Geraldo de Sousa
- 15h15 Mon-PO025 - **PREPARATION AND CHARACTERIZATION OF LIPOSOMES ENTRAPPING AN ANTICARCINOGENIC BOWMAN-BIRK PROTEASE INHIBITOR (BTCI)**
Graziella Anselmo Joanitti, Jaqueline Rodrigues da Silva, Sonia Maria de Freitas, Ricardo Bentes Azevedo
- 15h15 Mon-PO026 - **EVALUATION OF MAGNETOHYPERHERMIA AND PHOTODYNAMIC THERAPY IN ERLICH ASCITIC TUMOR BEARING ANIMALS**
Luzirlane dos Santos Barbosa-Braun, Neda Sadeghiani, Sacha Braun Chaves, Daniela Cerville Zancanela, Ricardo Bentes de Azevedo, Antônio Cláudio Tedesco, Paulo César de Moraes, Zulmira Guerrero Marques Lacava
- 15h15 Mon-PO027 - **A POSSIBLE APPROACH TO PREPARING METAL-FULLERITE COMPOSITE**
Vladimir V. Milyavskiy
- 15h15 Mon-PO028 - **EFFECT OF PARTICLE TREATMENT ON THE VISCOELASTIC PROPERTIES OF POLYMER BASED NANOCOMPOSITES**
Rannier Marques Mendonça
- 15h15 Mon-PO029 - **COMPATIBILIZING PS/SAN BLENDS BY USING ORGANOCCLAYS**
Paolo Eduardo Rodrigues Araujo, Marcelo Silveira Rabello, Laura Hecker de Carvalho, Suedina Maria de Lima Silva
- 15h15 Mon-PO030 - **THE EFFECT OF PP-MA AMOUNT ON THE PROPERTIES OF PP/EPDM/ORGANOCLAY NANOCOMPOSITES**
Fernanda Cristina Fernandes Braga, Marcelo Ferreira Leão de Oliveira, Marcia Gomes de Oliveira
- 15h15 Mon-PO031 - **THE INFLUENCE OF EVA-MA ON MECHANICAL AND THERMAL PROPERTIES OF ORGANOCLAY REINFORCED PA 6/EPDM NANOCOMPOSITES**
Marcelo Ferreira Leão de Oliveira, Fernanda Cristina Fernandes Braga, Marcia Gomes de Oliveira
- 15h15 Mon-PO032 - **NANOCOMPOSITES FORMED BETWEEN CARBON NANOTUBES AND METAL NANOPARTICLES: SYNTHESIS, CHARACTERIZATION AND PROPERTIES**
Marcela Mohallem Oliveira, Eryza Guimarães Castro, Aldo José Gorgatti Zarbin
- 15h15 Mon-PO033 - **NI/CARBON NANOCOMPOSITE PREPARED BY HYDROTHERMAL CARBONIZATION AS SUPPORT FOR PTRU NANOPARTICLES**
Marcelo Marques Tusi, Michele Brandalise, Olandir Vercino Correa, Almir Oliveira Neto, Marcelo Linardi, Estevam Vitorio Spinacé
- 15h15 Mon-PO034 - **CONTRIBUTION OF THE NANODIAMOND FORMATION ON THE STRESS REDUCTION OF 3D DIAMOND/TI COMPOSITE**
Neila de Almeida Braga, Carlos Alberto Alves Cairo, Maurício Ribeiro Baldan, Neidenêi Gomes Ferreira
- 15h15 Mon-PO035 - **SYNTHESIS AND CHARACTERIZATION OF MAGNETIC COMPOSITES OBTAINED FROM THE DECOMPOSITION OF IRON PENTACARBONYL INSIDE A POROUS CARBON**
Miguel Angelo Schettino Junior, Jair Carlos Checon Freitas, Milton Koiti Morigaki, Evaristo Nunes, Alfredo Gonçalves Cunha, Edson Passamani Caetano, Francisco Guilherme Emmerich
- 15h15 Mon-PO036 - **DEVELOPMENT OF SOME BIOCOMPATIBLE COLLAGEN-CHONDROITIN SULFATE-HYDROXYAPATITE COMPOSITES FOR TISSUE REGENERATION**
Manuela Elisabeta Sidoroff, Lucia Moldovan, Oana Craciunescu, Sorin Manoiu

- 15h15 Mon-PO037 - **STRAIN MAPPING IN NANOSTRUCTURED COATINGS BY SYNCHROTRON RADIATION**
Thomas Tsakalakos , M. Croft , V. Shukla , N. M. Jisrawi , R. K. Sadangi , Z. Zhong
- 15h15 Mon-PO038 - **LOCAL NANOMECHANICAL PROPERTIES OF ALUMINUM PHOSPHATE AND TITANIUM DIOXIDE PARTICLES: DETERMINATION BY DIGITAL PULSED FORCE MODE (DPFM)**
Rubia Figueredo Gouveia , Fernando Galembeck
- 15h15 Mon-PO039 - **SHOCK-INDUCED TRANSFORMATIONS OF C70 FULLERITE**
Sergey N. Sokolov , Vladimir V. Milyavskiy , Tatiana I. Borodina
- 15h15 Mon-PO040 - **DEVELOPMENTS TOWARDS BULK NANOSTRUCTURED ALUMINUM BY SEVERE PLASTIC DEFORMATION (ECAP)**
J.C. Garcia de Blas , J. Dille , C. Barbosa , L.C. Pereira
- 15h15 Mon-PO041 - **SIZE-DEPENDENT MAGNETIC STRUCTURE OF MFE2O4 (M = FE, CO AND MN) NANOPARTICLES**
E. Lima Jr , A. D. Arelaro , L. M. Rossi , P. Kyohara , R. D. Zysler , H. R. Rechenberg
- 15h15 Mon-PO042 - **NANOSTRUCTURED MAGNETIC NANO-CARBON PRODUCED BY PULSED ARC EVAPORATION**
Stephen Muhl , Sandra Elizabeth Rodil , Roberto Escudero , Fermin Mayo , Dwight Acosta , Rene Asomoza
- 15h15 Mon-PO043 - **MAGNETIC NANOPARTICLES STABILIZED BY DETONATION NANODIAMOND**
Oleg V. Popkov , Gleb Yu. Yurkov , Alexandr S. Fionov
- 15h15 Mon-PO044 - **STUDY OF MAGNETIC COLLOIDS IN CHITOSAN MATRIX.**
Galo Cardenas T. , Christian Cruzat Contreras , Octavio Peña , Manuel Melendez , Judith Díaz Visurraga
- 15h15 Mon-PO045 - **MÖSSBAUER AND MAGNETIZATION STUDY OF MGFE2O4 NANOPARTICLES SYNTHESIZED BY SOL-GEL/COMBUSTION**
Lucia Helena Guimarães Cardoso
- 15h15 Mon-PO046 - **SYNTHESIS AND INFLUENCE OF THE ORGANIC COATING ON THE MAGNETIC PROPERTIES OF FE3O4 NANOPARTICLES**
Fernando Bacci Effenberger
- 15h15 Mon-PO047 - **MAGNETIC PROPERTIES OF MFE2O4 (M = FE, CO, NI) NANOPARTICLES SYNTHESIZED BY HIGH-TEMPERATURE REACTION**
Amanda Defendi Arelaro , Enio Lima Junior , Hercílio Rodolfo Rechenberg , Liane Marcia Rossi
- 15h15 Mon-PO048 - **TEMPERATURE EVOLUTION OF THE MAGNETIC ORDERING IN NANOCRYSTALLINE (FE79MN21)1-XCUX POWDERS**
Martín Mizrahi , Alejandra Fabiana Cabrera , Judith Desimoni
- 15h15 Mon-PO049 - **BIOMEDICAL APPLICATIONS OF MAGNETIC NANOPARTICLES**
Ana Lúcia Brandl , Marcelo Knobel
- 15h15 Mon-PO050 - **PREPARATION OF MN-ZN FERRITE BY COMBUSTION REACTION TECHNIQUE**
Valmir José da Silva , Anne Caroline A. Paiva , Rafaela Luiz P. Santos , Verônica Cristhina S. Diniz , Lucianna Gama , Daniel R. Cornejo , Ana Cristina F. M. Costa
- 15h15 Mon-PO051 - **GROWTH OF INAS NANOSTRUCTURES ON INP PRODUCED BY NANOLITHOGRAPHY AND METALORGANIC VAPOR PHASE EPITAXY**
H. D. Fonseca-Filho , R. Prioli , M. P. Pires , A. S. Lopes , P.L.Souza , F. A. Ponce
- 15h15 Mon-PO052 - **MODIFICATION OF SOLID SURFACE WITH NEW AMPHIPHILIC POLYELECTROLYTE.**
Marcela Urzúa Acevedo , Ximena Briones Olanar , María Peña Roja , Hernán E. Ríos Peña y Lillo
- 15h15 Mon-PO053 - **CARBON NANOTUBES PRODUCTION FROM CAMPHOR/FERROCENE MIXTURES**
Erica Freire Antunes , Anderson de Oliveira Lobo , Marcos Massi , Evaldo José Corat , Vladimir Jesus Trava-Airoldi
- 15h15 Mon-PO054 - **SYNTHESIS OF CARBON NANORODS FROM CARBON NANOTUBES**
Rodrigo Segura del Río , Alejandra Tello , Patricio Häberle
- 15h15 Mon-PO055 - **PREPARATION AND CHARACTERIZATION OF DIAMOND FILMS OBTAINED BY HOT FILAMENT CVD SYSTEM USING A HIGH ARGON CONCENTRATION**
Divani Carvalho Barbosa , Vladimir Jesus Trava-Airoldi , Evaldo José Corat
- 15h15 Mon-PO056 - **CUO NANOSTRUCTURES PREPARED BY ANODIZATION**
M. Ahumada , S. Fuentes , R. A. Zárate , D. E. Diaz-Drogett
- 15h15 Mon-PO057 - **AN INTEGRATED NANOPARTICLE FABRICATION AND PROCESSING PLATFORM**
Deepak Kapoor , Chris Haines , Darold Martin , Moon Chung
- 15h15 Mon-PO058 - **SYNTHESIS OF CARBON NANOSTRUCTURES IN LIQUID HELIUM**
Dmitry V. Schur
- 15h15 Mon-PO059 - **THE PROCESS OF HYDROGENATION OF FULLERENE MOLECULE C60**
Svetlana Yu. Zaginaichenko
- 15h15 Mon-PO060 - **DEPOSITION OF CATALYST-CONTAINING CARBON NANOSTRUCTURES ON PROTON-CONDUCTING POLYMER MEMBRANES BY ELECTROPHORESIS**
Anatoliy P. Pomytkin
- 15h15 Mon-PO061 - **BIFE03 OBTAINED BY A COORDINATION COMPOUND PRECURSOR ROUTE**
Carmen Paraschiv , Adelina Ianculescu , Lucian Diamandescu , Oana Carp
- 15h15 Mon-PO062 - **HIGH CONCENTRATION ECO-SYNTHESIS OF AG NANOPARTICLES BY ULTRASOUND**
Kenta Toisawa
- 15h15 Mon-PO063 - **FABRICATION OF NANOSTRUCTURED TI WITH UNIQUE PROPERTIES USING SEVERE PLASTIC DEFORMATION**

Vladimir Zhernakov , Salavat Kusimov , Irina Semenova , Ruslan Valiev

- 15h15 Mon-PO064 - **INFLUENCE OF MAGNETITE OXIDATION ON THE ADSORPTION OF OLEIC ACID AT THE NANOPARTICLE SURFACE**
Gustavo Braga Alcantara , Wesley Renato Viali , Patricia Pomme Confessori Sartoratto , Maria Aparecida Godoy Soler , Paulo Cesar de Morais
- 15h15 Mon-PO065 - **SYNTHESIS OF MULTIWALLED CARBON NANOTUBES FROM COAL**
Ashish Kumar Ghosh , Seema Awasthi , Raja Sen , Rajesh Kumar , S. K. Srivastava , Kalpana Awasthi , O. N. Srivastava
- 15h15 Mon-PO066 - **EXTRACTION FROM NON-POLAR MEDIUM – A NOVEL SYNTHETIC ROUTE TO HYDROPHILIC SILVER NANOPARTICLES**
Yurii Andreevich Krutyakov , Andrey Yur'evich Olenin , Alexey Aleksandrovich Kudrinskii , Georgii Vasil'evich Lisichkin
- 15h15 Mon-PO067 - **SYNTHESIS AND CHARACTERIZATION OF NANOSTRUCTURED HYBRID MEMBRANES WITH PHOSPHONATED POLYSILSESQUOXANES FOR FUEL CELL APPLICATIONS**
Sérgio Henrique Pezzin , Norbert Stock , Suzana Pereira Nunes
- 15h15 Mon-PO068 - **SYNTHESIS OF LA0.7SR0.3MNO3 NANOPOWDER FOR SOFC CATHODE BY NEW GEL COMBUSTION METHOD**
Nielson Fernando P Ribeiro

Parallel

Session IV – Chair: Carlos Achete

Monday, June 2, 2008 from 17h00 to 18h30 - Room A

- 17h00 Mon-pm-AI1 - **THE CHALLENGE OF NANOMETROLOGY: CARBON NANOTUBES AS PROTOTYPE MATERIAL**
Ado Jorio
- 17h30 Mon-pm-AO1 - **POLYPROPYLENE/MULTI-WALL CARBON NANOTUBE COMPOSITES: SYNTHESIS AND PROPERTIES**
Anton A. Kovalchuk , Alexander N. Shchegolikhin , Vitaliy G. Shevchenko , Polina M. Nedorezova , Alla N. Klyamkina , Alexander M. Aladyshev
- 17h45 Mon-pm-AO2 - **NANOMETROLOGY STUDY OF NON-CARBONACEOUS NANOTUBES**
vladimir Lavayen
- 18h00 Mon-pm-AO3 - **ISOTHERMAL TUNING OF MORPHOLOGY FROM NANOFIBERS TO NANOTUBES IN (NA,H)2TI2NO2N+1 SYSTEM THROUGH HYDROTHERMAL TREATMENT OF RUTILE MINERAL SAND**
Lidija Mancic , Bojan Marinkovic , Paula Jardim , Olivera Milosevic , Fernando Rizzo
- 18h15 Mon-pm-AO4 - **DETERMINATION OF CRYSTALLITE SIZE AND SHAPE BY X-RAY DIFFRACTION METHOD**
Alexei Kuznetsov , Rogerio Machado , Varghese Swamy , Carlos Alberto Achete

Parallel

Session V – Chair: Ruslan Valiev

Monday, June 2, 2008 from 17h00 to 18h30 – Room B

- 17h00 Mon-pm-BI1 - **SCALING EFFECTS IN ALLOY NANOPARTICLES CASE OF GRANULAR NANOCOMPOSITES**
K. Chattopadhyay
- 17h30 Mon-pm-BO1 - **SOLID STATE NMR CHARACTERIZATION APPLIED TO POLYMERIC NANOCOMPOSITES**
Maria Inês Bruno Tavares
- 17h45 Mon-pm-BO2 - **XRD, PERTURBED ANGULAR CORRELATION, AND MOESSBAUER STUDIES OF IRON OXIDE NANOPARTICLES**
Henrique Saitovitch , P. Silva , Dalber Sanchez , R. Alvillez , S. Schlabach , M. Forker
- 18h00 Mon-pm-BO3 - **IN-SITU TEM CHARACTERISATION OF THE TRIBOLOGY OF NANOSTRUCTURED AU 1**
Jing Jing Wang , M.S. Bobji , Yong Peng , Xiaojing Xu , Beverley Inkson
- 18h15 Mon-pm-BO4 - **KINETIC MODELS OF HYDRATION FOR PORTLAND CEMENT-BASED COMPOSITES WITH VARIOUS NANO SILICEOUS ADMIXTURES**
Jeng-Ywan Shih

Parallel

Session DAAD & DFG Chairs Gabriele Althoff, DAAD and Helmut Galle, DFG

Monday, June 2, 2008 from 17h00 to 18h30 – Room C

NANO IN GERMANY: NEW APPROACHES AND COOPERATION OPPORTUNITIES.

R.Bormann, TU Hamburg
G. von Freymann, Karlsruhe R Centre
Horst Hahn, Karlsruhe R. Centre
Wolfgang Parak, Uni Munich

Tuesday, June 3, 2008

Plenary

Plenary Lecture III – Chair: Jane Frommer

Tuesday, June 3, 2008 from 09h00 to 10h30 - Auditorium

09h00 Tue-am-PL1 - **HIERARCHICAL DESIGN OF 2D SELF-ASSEMBLED SUPRAMOLECULAR ARCHITECTURES: FROM MOLECULES TO DEVICES**

D. Fichou

09h45 Tue-am-PL2 - **A NEW MODEL FOR THE FORMATION OF ELECTRIC CHARGE NANOPATTERNS IN DIELECTRIC SURFACES**

Fernando Galembeck, André Galembeck, Sérgio Bertazzo, Eubia Figueredo Gouveia, Thiago Augusto Lima Burgo

Parallel

Session VI – Chair: Elisabetta Agostinelli

Tuesday, June 3, 2008 from 11h00 to 13h00 - Room A

11h00 Tue-am-AI1 - **NOVEL NANOSTRUCTURED MG-BASED REACTIVE HYDRIDE COMPOSITES FOR HYDROGEN STORAGE**

Rüdiger Bormann

11h30 Tue-am-AI2 - **ORIENTED METAL OXIDE NANOROD-BASED STRUCTURES AND DEVICES**

Lionel Vayssieres

12h00 Tue-am-AO1 - **FLEXIBLE ORGANIC BULK HETEROJUNCTION SOLAR CELL BASED ON A POLYTHIOPHENE/FULLERENE BLEND**

Jean-Paul PARNEIX

12h15 Tue-am-AO2 - **MARES AND MARFOS: A NEW APPROACH TO THE PRODUCTION OF NITI SMAS**

Filipe Neves, Francisco M Braz Fernandes, Isabel Martins, José Brito Correia, Manuela Oliveira, Eric Gaffet, N Boucharat, Jens Suffner, Horst Hahn

12h30 Tue-am-AO3 - **MEMBRANES WITH SILVER NANOPARTICLES FOR PROPYLENE FACILITATED TRANSPORT**

L.D.Pollo, H.E. Toma, K. Araki, C.P. Borges, A.C. Habert

Parallel

Session VII Chair: Ramesh Budhani

Tuesday, June 3, 2008 from 11h00 to 13h00 - Room B

11h00 Tue-am-BI1 - **MAGNETIC ANISOTROPY IN NANOSTRUCTURES**

Marek Przybylski

11h30 Tue-am-BI2 - **FERROMAGNETIC RESONANCE IN LAYERED MAGNETIC NANOSTRUCTURES**

Fernando Pelegrini, Denis Rezende de Jesus, Lúcio Braga dos Santos, Willian Alayo, Miguel Tafur, Valberto Pedruzi Nascimento, Armando Biondo, Edson Caetano Passamani, José Flávio Marcelino Borges, Elisa Baggio Saitovitch

12h00 Tue-am-BO1 - **MAGNETIC PROPERTIES OF FE-CO-B/FE MULTILAYERS**

Mohammad Ghafari, Robert Kruk, Ajay Mishra, Torsten Scherer, Richard Brand, Horst Hahn

12h15 Tue-am-BO2 - **GROWTH, STRUCTURE AND MAGNETISM OF EQUIATOMIC NI-MN MONOLAYERS ON CU3AU(100)**

Reinaldo Borges de Oliveira Jr., Maximiliano Delany Martins, **Waldemar Augusto de Almeida Macedo**

12h30 Tue-am-BO3 - **MAGNETIC, CHEMICAL AND STRUCTURAL INTERFACIAL DISORDER IN NIFE/FEMN/NIFE EXCHANGE-BIASED SYSTEM**

Valberto Pedruzi Nascimento, Edson Caetano Passamani, Willian Alayo, Miguel Tafur, Fernando Pelegrini, José Rafael Proveti, Elisa Baggio Saitovitch

Parallel

Session VIII – Chair: Georg von Freymann

Tuesday, June 3, 2008 from 11h00 to 12h45 - Room C

11h00 Tue-am-CI1 - **STRAIN AND PIEZOELECTRIC FIELDS IN INGAN NANOSTRUCTURES FOR LIGHT EMITTING DEVICES**

Fernando A. Ponce

11h30 Tue-am-CI2 - **CONFINEMENT AND GENERATION OF THZ HIPERSOUND IN SEMICONDUCTOR ACOUSTIC NANOCAVITIES**

A. Fainstein, N. D. Lanzillotti-Kimura, M. F. Pascual Winter, G. Rozas, A. Huynh, B. Jusserand, B. Perrin, Aristide Lemaître

12h00 Tue-am-CO1 - **METAL NANOCRESCENT ARRAYS AND THEIR OPTICAL ANISOTROPY**

Victor Ovchinnikov, Andrey Shevchenko

12h15 Tue-am-CO2 - **APPLICATION OF LINE PATTERNING TECHNIQUE TO DEVELOPED OPTICAL PH SENSORS, USING POLYANILINE BY IN-SITU DEPOSITION ONTO POLY(ETHYLENE TEREPHTHALATE) (PET).**

Rafaela Takehara Paschoalin , Paulo Sergio de Paula Herrmann Jr , Washington Luiz de Barro Melo , Julieta Bramorski , Silvio Crestana

12h30 Tue-am-CO3 - SYNTHESIS AND OPTICAL PROPERTIES OF ZNS NANOPARTICLES IN POLYELECTROLYTE MULTILAYER (PEM) HYBRID FILMS

Manca Logar, Bostjan Janèar, Danilo Suvorov

12h45 Tue-am-CO4 - STUDY OF PHOTOLUMINESCENCE PROPERTIES OF IN- SB- AND GA-DOPED ZnO NANOSTRUCTURES
Alejandro Escobedo Morales , Umapada Pal

Plenary

Plenary Lecture IV – Chair: Alejandro Fainstein

Tuesday, June 3, 2008 from 14h30 to 15h15 - Auditorium

14h30 Tue-pm-PL1- RAMAN MONITORING OF TOP GATED SINGLE AND BILAYER GRAPHENE TRANSISTOR

A. K. Sood

Poster

Poster Session

Tuesday, June 3, 2008 from 15h15 to 16h30 -

15h15 Tue-PO001 - CHARACTERIZATION OF NANOSTRUCTURED ORGANIC/INORGANIC HYBRID FILM BASED ON POLYPYRROLE AND [MEN4]2[NI(DMIT)2] COMPLEX SALT

Caroline Arantes , Ana Maria Rocco , Maria Luiza Miranda Rocco

15h15 Tue-PO002 - MESOSTRUCTURED THIN FILM FORMATION IN LOW CONCENTRATION POLYMER:SURFACTANT MIXTURES: CHARACTERIZATION AND STRUCTURAL ASPECTS

Aurora Pérez-Gramatges , Hansel Comas-Rojas , Simon Rodríguez-Calvo , Eduardo Aluicio-Sarduy , Carlos Enriquez-Victorero , S. J. Roser , K. J. Edler

15h15 Tue-PO003 - FORMATION OF RANDOM COPOLYMER, POLY[(N-ISOPROPYLACRYLAMIDE)-R-((3-(METHACRYLOYLAMINO)PROPYL)-DIMETHYL(3-SULFOPROPYL)AMMONIUM HYDROXIDE)]-GRAFTED SURFACES: APPLICATION TO CELL CULTURE

Bokyung Kong , Hyung Ju Park , Insung S. Choi

15h15 Tue-PO004 - RELAXATION OF NANODEFORMATIONS INDUCED IN POLYCARBONATE THIN FILMS BELOW THE GLASS TRANSITION

Rafael Gustavo Torres Leal , Zahra Fakhraai , Ricardo Meurer Papaléo

15h15 Tue-PO005 - INFLUENCE OF PARTICLE SIZE ON THE THERMAL AND WATER VAPOR BARRIER PROPERTIES OF HPMC FILMS CONTAINING CHITOSAN NANOPARTICLES

Márcia Regina de Moura , Tara H. McHugh , John M. Krochta , Luiz H. C. Mattoso

15h15 Tue-PO006 - SYNTHESIS AND THERMAL ANALYSIS OF CHITOSAN NANOPARTICLES

Fauze Ahmad Aouada , Márcia Regina de Moura , Luiz H. C. Mattoso

15h15 Tue-PO007 - MICROSTRUCTURE IN CUALNI SHAPE MEMORY ALLOY THIN FILMS

Carlos A. Espinoza Torres , Adriana M. Condó , Francisco C. Lovey , Julio Guimpel

15h15 Tue-PO008 - SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF NANOSTRUCTURED SRTI(1-X)FE(X)O3 COMPOUNDS

Luis Fernando da Silva , Maria Inês Basso Bernardi , Lauro June Queiroz Mais , Valmor Roberto Mastelaro

15h15 Tue-PO009 - PULSE LASER DEPOSITION OF AGINSE2 FILMS

Dinesh Pathak

15h15 Tue-PO010 - RELATION BETWEEN GRAIN SIZE AND STRESS ON UNCD FILMS ANALYZED BY DIFFERENT CHARACTERIZATION TECHNIQUES

Sandra Cristina Ramos , Adriana Faria Azevedo , Maurício Ribeiro Baldan , Neidenêi Gomes Ferreira

15h15 Tue-PO011 - MECHANISM OF STABILIZATION OF EXPANSIVE NANOCLAY.

R.I. Malek , M.N. Salama , A. Pengelly

15h15 Tue-PO012 - SYNTHESIS AND DISPERSION OF COPPER NANOPARTICLES FOR LUBRICANT APPLICATIONS

Seung Dueg CHOI

15h15 Tue-PO013 - FABRICATION OF HIGH ASPECT RATIO NANOPILLAR ARRAYS FOR THE ANTIREFLECTION APPLICATIONS

Hong Gue Shin , Jong Tae Kwon , Young Ho Seo , Soo Hun Lee , Byeong Hee Kim

15h15 Tue-PO014 - SURVEY ON ROLLER-TYPE NANO IMPRINT LITHOGRAPHY PROCESS

Shuhuai Lan , Hye-Jin Lee , Jun Ni , Soo-Hun Lee , Yong Hwan Yoo , Moon G. Lee

15h15 Tue-PO015 - ECONOMY AND ECOLOGY FABRICATION OF NANO METAL PARTICLE RELATED MATERIALS BY HOME ELECTRIC APPLIANCES

Yamato HAYASHI

15h15 Tue-PO016 - NANO-POSITIONING SYSTEM WITH POSITION FEEDBACK SYSTEM USING MAGNIFIED MECHANISM

- Soo Chang Choi , Yong Woo Kim , Jeong Woo Park , Young Hyu Choi , Deug Woo Lee
- 15h15 Tue-PO017 - **INFLUENCE OF W CONTENT AND SUBSTRATE BIAS IN THE MICROSTRUCTURE AND TRIBOLOGICAL PROPERTIES OF W DOPED CARBON FILMS**
C.W. Moura e Silva , J.R.T. Branco , E.P. Muniz , M. Rinke , M. Stüber , A. Cavaleiro
- 15h15 Tue-PO018 - **MOLECULAR DEVICE BASED ON PPO-FULLERENE LINKED: DESIGN OF ELECTRONIC TRANSPORT**
sheila Cristina dos Santos Costa , Jordan Del Nero
- 15h15 Tue-PO019 - **TUNING SURFACE WETTABILITY OF POLY(3-SULFOPROPYL METHACRYLATE) BRUSHES BY CATIONIC SURFACTANTS DRIVEN INTERACTIONS**
Sergio Moya , Markus Döbbelin , Irantzu Llaena , David Mecerreyes
- 15h15 Tue-PO020 - **SYNTHESIS AND MAGNETIC STUDY OF SURFACE - FUNCIONALIZED MAGNETITE NANOPARTICLES**
Anselmo Fortunato Ruiz Rodriguez , Judes Goncalves dos Santo , Laudileni Olenka , Luciene Batista da Silveira , Edgar Martinez Marmolejo , Walter Tennpohl , Miguel Jafelicci Jr , Rodrigo F. C. Marques , T.P. Costa , Jose Antonio H. Coaquira , Aderbal Carlos de Oliveira , Paulo Cesar de Moraes
- 15h15 Tue-PO021 - **SELF-ADHESIVE NANOCOMPOSITE LAMINATE**
Sergio Augusto Venturinelli Jannuzzi , Fábio do Carmo Bragança , Fernando Galembeck
- 15h15 Tue-PO022 - **CATALYTIC BEHAVIOR OF MASSIC AND NANOSTRUCTURED CE1- XMXO_2 , M: LA, RU SOLID SOLUTIONS**
R. Rangel , Fernando Huerta , Eunice Vargas , Felipe Catillón , Andrey Simakov
- 15h15 Tue-PO023 - **W-C NANOSIZED COMPOSITION SYNTHESIS AND CHARACTERIZATION**
Andrey Samokhin , Nikolai Alexeev , Yuriy Blagoveschenskiy , Sergei Kornev , Yuriy Tsvetkov
- 15h15 Tue-PO024 - **SIZE INFLUENCE OF SILVER NANOPARTICLES IN ITS FUNCTIONALIZATION**
Ferenc Diniz Kiss , Ronei Miotto , Armando Corbani Ferraz
- 15h15 Tue-PO025 - **GAS SENSOR FOR NO₂ DETECTION BASED ON ZNO THIN FILMS DOPPED WITH GA NANOPARTICLES**
Galo Cardenas , Manuel Meléndrez , Joan Morante , Teresa Andreu , Judith Diaz , Christian Cruzat
- 15h15 Tue-PO026 - **MECHANICAL AND TRIBOLOGICAL PROPERTIES OF NI-P AND NI-P/AL₂O₃ COATINGS**
Everton Galvão de Neiva , Carlos Wagner Moura e Silva , Wagner Sade , José Roberto Tavares Branco
- 15h15 Tue-PO027 - **SYNTHESIS AND CHARACTERISTICS OF ULTRAFINE FECO ALLOY POWDERS BY SPRAY DRYING PROCESS**
Ji-Hun Yu , Dong-Won Lee , Byoung-Kee Kim , Taesuk Jang
- 15h15 Tue-PO028 - **SYNTHESIS AND PHYSICAL PROPERTIES OF SAMARIUM OXIDE NANOPARTICLES**
Eliana Navarro dos Santos Muccillo , Eduardo Caetano Camilo de Souza , Hermi Felinto de Brito , Reginaldo Muccillo
- 15h15 Tue-PO029 - **SYNTHESIS OF ULTRA HIGHLY CONCENTRATED SILVER NANO SOL FOR INK-JET METHOD**
Beyong-Hwan Ryu
- 15h15 Tue-PO030 - **MICROSTRUCTURE AND MAGNETIC PROPERTIES OF SPRAY FORMED FE-6WT%SI AFTER ROLLING AND HEAT TREATMENT**
C. Bolfarini , R.D. Cava , C. S. Kiminami , W. J. Botta , J. Almeida Jr
- 15h15 Tue-PO031 - **FABRICATION AND CHARACTERIZATION OF GEO₂-PBO RIB-WAVEGUIDES**
Vanessa Duarte Del Cacho , Luciana Reyes Pires Kassab , Antonio Domingues dos Santos , Acácio Luiz Siarkowski , Marco Isaías Alayo Chávez
- 15h15 Tue-PO032 - **PROPERTIES OF SAMARIUM DOPED CERIA NANOPARTICLES SYNTHESIZED BY A MODIFIED HOMOGENEOUS PRECIPITATION METHOD**
Eduardo Caetano C de Souza , Eliana Navarro S Muccillo
- 15h15 Tue-PO033 - **SYNTHESIS AND CHARACTERIZATION OF GOLD-COPOLYMER NANOPARTICLES. POLY(E-CAPROLACTONE)/POLY(N-VINYL-2-PYRROLIDONE) COPOLYMERS AS REDUCING AND STABILIZER AGENT.**
Angel Leiva Campusano , César Saldias , Caterina Quezada , Ligia Gargallo , Deodato Radic´
- 15h15 Tue-PO034 - **SERS NANOPROBES FOR PH SENSORS BASED ON TRIMERCAPTOTRIAZINE MODIFIED GOLD NANOPARTICLES**
Vitor de Moraes Zamarion , Ronaldo Adriano Timm , Juliano Alves Bonacin , Sergio Hiroshi Toma , Koiti Araki , Henrique Eisi Toma
- 15h15 Tue-PO035 - **NANOCOMPOSITE AND NANOPARTICULATE MATERIALS: PREPARATION, CHARACTERIZATION AND APPLICATIONS**
Nelcy Della santina Mohallem
- 15h15 Tue-PO036 - **ELECTROCHEMICAL PERFORMANCE OF OXIDIZED MULTI-WALLED CARBON NANOTUBES**
João Paulo de Mesquita , Patrícia Benedini Martelli , Honoria de Fátima Gorgulho
- 15h15 Tue-PO037 - **OPTICAL PROPERTIES OF CORE/SHELL-TYPE LNPO₄:EU / LNPO₄ (LN=LA, GD) NANOPARTICLES UNDER UV EXCITATION**
Ha-Kyun Jung , Sungho Choi
- 15h15 Tue-PO038 - **STUDY OF THE INTERACTION OF SINGLE-STRANDED DNA HOMOPOLYMERS WITH SINGLE-WALLED CARBON NANOTUBES**
Valdirene Sullas Teixeira Peressinotto , Clascídia Aparecida Furtado , Antônio Carlos Herrera Braga , Adelina Pinheiro Santos
- 15h15 Tue-PO039 - **IMPEDANCE AND BIOSENSOR BEHAVIOUR OF POLY[ETHYLENEDIOXYTHIOPHENE-CO-P-TOLYLSULFONYLPYRROLE] ON CARBON FIBER MICROBUTTON ELECTRODE**
Bilge Kilic , A.Sezai Sarac
- 15h15 Tue-PO040 - **STUDY THE ELECTROCHEMICAL DEGRADATION OF POLYANILINE FILMS OBTAINED BY ELECTROCHEMICAL AND SELF-ASSEMBLY METHODS**
Fábio Ruiz Simões , Ernesto Chaves Pereira

- 15h15 Tue-PO041 - X-RAY PHOTOELECTRON SPECTROSCOPY STUDY OF CeO₂ AND CODOPED CeO₂ THIN FILMS ON Si(100)
V. Fernandes, J. J. Klein, W. H. Schreiner, N. Mattoso, J. Valada, D. H. Mosca
- 15h15 Tue-PO042 - OSCILLATIONS OF THE FERROMAGNETIC RESONANCE LINEWIDTH AND INTERLAYER COUPLING IN CO/RU SUPERLATTICES
William Alayo, Fernando Pelegrini, Valberto Pedrucci Nascimento, Elisa Saitovitch
- 15h15 Tue-PO043 - EXCHANGE COUPLING EFFECTS IN NiO/NiFe BILAYER ANALYZED BY X-RAY MAGNETIC CIRCULAR DICHROISM (XMCD)
Miguel Tafur, V. P. Nascimento, W. Alayo, E. Baggio Saitovitch
- 15h15 Tue-PO044 - FABRICATION OF MAGNETIC NANOSTRUCTURED PILLARS
Jaqueline Alves de Almeida, Waldemar Augusto de Almeida Macedo, Maximiliano Delany Martins
- 15h15 Tue-PO045 - THE EFFECT OF THE PREPARATION METHOD ON THE PHYSICO-CHEMICAL AND MAGNETIC PROPERTIES OF Fe/MCM-41
Marcos Iván Oliva, Verónica R. Elías, Griselda A. Eimer, Sílvia Patricia Silvetti, Sílvia Elena Urreta
- 15h15 Tue-PO046 - TWO DIMENSIONAL NANOMAGNETIC CLUSTERS IN SUPERCONDUCTING RuSr₂Eu_{1.5}Ce_{0.5}Cu₂O₁₀ (Ru-1222)
Sergio Garcia Garcia, Jose Andres Matutes-Aquino, Maria Eugenia Botello-Zubiate, Israel Felner, Luis Ghivelder
- 15h15 Tue-PO047 - PARTICLE SIZE EFFECT ON THE MAGNETIC AND STRUCTURAL PROPERTIES OF Fe₅₀Mn₁₀Al₄₀ NANOSTRUCTURED SYSTEM: MELTED ALLOYS
Germán Antonio Pérez Alcázar, Ligia Edith Zamora Alfonso, Otto Reina, Jesús María González, Jean-Marc Greneche, Juan José Romero, Álvaro Martínez, Francisco Javier Palomares, Francisco José Marco
- 15h15 Tue-PO048 - LARGE LOOP SHIFTS IN MECHANICALLY SYNTHESIZED (Mn,Fe)₂O₃-T NANOGRAINS
Edson Passamani Caetano, Carlos Larica, Célio Marques, Armando Yoshihaki Takeuchi, Emmanuel Favre-Nicolin, Antonio Alberto Ribeiro Fernandes
- 15h15 Tue-PO049 - FABRICATION AND CHARACTERIZATION OF MULTISEGMENT NANOWIRES
Andrea Fornara, Laura Cattaneo, Stefano Bonetti, Jian Qin, Johan Åkerman, Mamoun Muhammed
- 15h15 Tue-PO050 - MAGNETIC ORDERING DEPENDENCE OF ANTIFERROMAGNETIC Cr₂O₃ NANOPARTICLES WITH PARTICLE SIZE
D. Tobia, E. Winkler, R. D. Zysler, M. Granada, H. E. Troiani
- 15h15 Tue-PO051 - STRUCTURAL AND MAGNETIC PROPERTIES OF ULTRATHIN CO FILMS ON Cu₉₀Au₁₀ (100)
Alysson Martins Almeida Silva, Maximiliano Delane Martins, Manoel José Mendes Pires, Waldemar Augusto de Almeida Macedo
- 15h15 Tue-PO052 - MAGNETIC AND STRUCTURAL PROPERTIES OF ULTRATHIN CO FILMS ON MgO(100)
Alexandre A.C. Cotta, Jaqueline A. Almeida, Manoel J. M. Pires, Maximiliano D. Martins, Waldemar A. A. Macedo
- 15h15 Tue-PO053 - STRUCTURAL AND MAGNETIC STUDY OF (Å-Fe₂O₃)_x-(TiO₂)_{1-x} OXIDES
Vitaliy Bilovol, A.M. Mudarra Navarro, C.E. Rodríguez Torres, F.H. Sánchez, A.F. Cabrera
- 15h15 Tue-PO054 - STUDY OF THE MAGNETIC AND MAGNETORESISTANCE PROPERTIES IN SPIN VALVES WITH PERPENDICULAR MAGNETIC ANISOTROPY.
Gustavo Montgomery Bonfim Castro, Luiz Carlos Camargo Miranda Nagamine, Elisa Baggio Saitovitch, João Edgar Schmidt
- 15h15 Tue-PO055 - PREPARATION AND CHARACTERIZATION OF Fe/ND-Fe-B AND CO/ND-Fe-B MULTILAYERS
Laura Gabriela Pampillo, Federico Golmar, Fabio Daniel Saccone
- 15h15 Tue-PO056 - MAGNETORESISTANCE OF TM/ALOX/TM/COFe₂O₄ MULTILAYERS DEPOSITED BY LASER ABLATION
Federico Golmar, Fabio Daniel Saccone
- 15h15 Tue-PO057 - TB³⁺ LUMINESCENCE IN TeO₂-ZnO-Na₂O-PbO GLASSES WITH SILVER NANOPARTICLES
R. Almeida, D. M. da Silva, L. R. P. Kassab, Cid B. de Araújo
- 15h15 Tue-PO058 - GROWTH AND CHARACTERIZATION OF TiO₂ 3D NANOSTRUCTURES
Marina Fuser Pillis, Ana-Maria Lazar, Denis Chaumont, Yvon Lacroute, I Ciobanu, Maria Elena Gomez, R. Chassagnon, Eguiberto Galego, Marco Sacilotti
- 15h15 Tue-PO059 - SELF-ORGANIZED METAL NANOPARTICLES ENSEMBLES ON SEMICONDUCTOR SURFACE: TECHNOLOGY & OPTICAL PROPERTIES
Nicholas Dmitruk, Tetyana Barlas, Andriy Dmytruk, Alexander Korovin, Volodymyr Romanyuk
- 15h15 Tue-PO060 - THE INFLUENCE OF SILVER NANOPARTICLES IN THE Yb³⁺ ER³⁺ ENERGY TRANSFER MECHANISM OF PBO-GEO₂ GLASSES
francisco araujo bomfim junior, Luciana Reyes Pires Kassab, José Roberto Martinelli, Jonas Jakutis Neto, Niklaus Ursus Wetter, Cid Ribeiro de Araújo
- 15h15 Tue-PO061 - BRAGG LATTICES IN PLASTIC OPTICAL FIBER (POF)
Marcos de Castro Carvalho, Raul José da Silva Camara Mauricio da Fonseca, Valberto Pedrucci Nascimento, Elisa Baggio-Saitovitch
- 15h15 Tue-PO062 - LOW TEMPERATURE PREPARATION OF COLLOIDAL CdSe QDots FOR QD-LED
Beyong-Hwan Ryu
- 15h15 Tue-PO063 - METALLIC NANOSPHEROIDS: THE INFLUENCE OF THE GEOMETRY AND THE SURROUNDING MEDIUM IN THE CHARACTERISTICS OF THE SURFACE PLASMON RESONANCE
Vladimir Rodríguez Iglesias, Ovidio Y. Peña Rodríguez, Umapada Pal, Luis Rodríguez Fernández, Alicia Oliver Gutiérrez

Parallel

Session IX – Chair: Mahendra Kumar

Tuesday, June 3, 2008 from 17h00 to 18h30 - Room A

- 17h00 Tue-pm-AI1 - **NANOSTRUCTURE PROCESSING OF ADVANCED BIOMATERIALS**
Jackie Y. Ying
- 17h30 Tue-pm-AO1 - **DEVELOPMENT OF LIPID NANOCARRIERS FOR DELIVERY OF PHARMACOLOGICAL ACTIVE AGENTS**
Mihaela Trif , Anca Roseanu , Magda Moisei , James Brewer
- 17h45 Tue-pm-AO2 - **POLYMERIZED LIPOSOMES: BINDING STUDIES OF ANTIPHOSPHOLIPID ANTIBODIES ON CARDIOLIPIN AND ITS APPLICATION AS A COLORIMETRIC BIOSENSOR**
MARIA HELENA ANDRADE SANTANA , Moyses Ost Damm Martins , Thais de Paula Rigoletto , Ricardo de Lima Zollner , Carlos Roque Duarte Correia
- 18h00 Tue-pm-AO3 - **GREEN POLYMER/LAYERED SILICATE NANOCOMPOSITES FOR BIOMEDICAL AND PACKAGING APPLICATIONS**
Ioannis Zuburtikudis , Kyriaki Tornikidou , Sotirios Ioannis Marras , Elpiniki Panayotidou , Gerogia Christofidou
- 18h15 Tue-pm-AO4 - **COATING SILICON AND MICA WITH A THIN POLYSACCHARIDE FILM: IS FILM STABILITY THE SAME?**
Adriana Freire Lubambo , Neoli Lucyszyn , Jorge J. Klein , Wido H. Schreiner , Paulo C. de Camargo , Maria -R. Sierakowski

Parallel

Session X – Chair: Juan-Carlos Idrobo

Tuesday, June 3, 2008 from 17h00 to 18h30 - Room B

- 17h00 Tue-pm-BI1 - **STUDIES OF ELECTRICAL AND MAGNETIC PROPERTIES OF SILVER FILMS CONTAINING NANOMETER SIZE CLUSTERS OF IRON**
William Victor Trujillo Herrera , Yutao Xing , Pablo Munayco , Elisa Maria Baggio-Saitovitch , **Fred Jochen Litterst** , Hans Micklitz
- 17h30 Tue-pm-BI2 - **MAGNETIC PROPERTIES OF NANOFERRITES**
Greneche Jean-Marc
- 18h00 Tue-pm-BO1 - **MAGNETIC REVERSALS OF SINGLE COBALT CLUSTERS**
Veronique Dupuis
- 18h15 Tue-pm-BO2 - **NANOCOMPOSITE IMMISCIBLE COPPER-NIOBIUM THIN FILMS**
Rajarshi Banerjee , Junyeon Hwang , Sangita Bose , Pushan Ayyub

Parallel

Session XI – Chair: Rudiger Bormann

Tuesday, June 3, 2008 from 17h00 to 18h30 - Room C

- 17h00 Tue-pm-CI1 - **SELF ORGANIZATION OF INORGANIC NANOCRYSTALS: A NEW CHALLENGE FOR A NEW PHYSICS**
Marie-Paule Pileni
- 17h30 Tue-pm-CO1 - **AG NANOSTRUCTURES ON FLUOROALKYLSILANE SELF ASSEMBLED MONOLAYERS: THE DEPENDENCE ON PERFLUOROALKYL CHAIN LENGTH**
Juan Zuo , Patrick Keil , Markus Valtiner , Peter Thissen , Guido Grundmeier
- 17h45 Tue-pm-CO2 - **SELF-ASSEMBLY OF CRYSTALLINE MOLECULAR ONE-DIMENSIONAL NANOSTRUCTURES BY VAPOR-PHASE TRANSPORT**
Tobias Niko Krauss , Esther Barrena , Xue Na Zhang , Theobald Lohmueller , Marion Kelsch , Peter A. van Aken , Joachim P. Spatz , Helmut Dosch
- 18h00 Tue-pm-CO3 - **THERMAL STABILITY INVESTIGATIONS OF PURE AND MIXED PHOSPHONIC ACID SELF-ASSEMBLED MONOLAYERS.**
Mariana de Castro Prado , Bernardo Ruegger Almeida Neves
- 18h15 Tue-pm-CO4 - **NOVEL SELF-ORGANIZED RE NANOSTRUCTURES FROM DIRECTIONALLY SOLIDIFIED EUTECTICS**
Srdjan Milenkovic , Belen Bello Rodriguez , Achim Walter Hassel

Wednesday, June 4, 2008

Plenary

Plenary Lecture – Chair: Antonio Azevedo

Wednesday, June 4, 2008 from 09h00 to 10h30 - Auditorium

09h00 Wed-am-PL1 - **GIANT MAGNETORESISTANCE: FROM DISCOVERY TO THE NOBEL PRIZE AND BEYOND**

Mario Norberto Baibich

09h45 Wed-am-PL2 - **NANOGRAPHENE AND ITS UNCONVENTIONAL ELECTRONIC AND MAGNETIC PROPERTIES**

Toshiaki Enoki

Parallel

Session XII – Chair: Mucio Continentino

Wednesday, June 4, 2008 from 11h00 to 13h00 - Room A

11h00 Wed-am-AI1 - **REENTRANT SUPERCONDUCTIVITY IN NANOENGINEERED FERROMAGNET-SUPERCONDUCTOR HETEROSTRUCTURES**

Ramesh Chandra Budhani

11h30 Wed-am-AI2 - **SUPERCONDUCTIVITY IN NANOSTRUCTURED MATERIALS**

Pushan Ayyub

12h00 Wed-am-AI3 - **FERROMAGNETIC PARTICLE INDUCED VORTEX PHASE TRANSITION IN SUPERCONDUCTOR-FERROMAGNETIC NANO-COMPOSITES**

Yutao Xing , Hans Micklitz , T. G. Rappoport , Elisa Baggio-Saitovitch

12h15 Wed-am-AI4 - **MICRO- AND NANOSTRUCTURED SUPERCONDUCTORS - IMPORTANT ISSUES FOR APPLICATIONS IN SMALL SCALE DEVICES**

Wilson Aires Ortiz

12h45 Wed-am-AO1 - **BIMETALLIC CORE-SHELL NANOPARTICLES: SYNTHESIS, STRUCTURE AND MAGNETIC FEATURES**

Ovidiu Crisan , Kostas Simeonidis , Alina Daniela Crisan , Makis Angelakeris

Parallel

Session XIII – Chair: Horst Hahn

Wednesday, June 4, 2008 from 11h00 to 13h00 - Room B

11h00 Wed-am-BI1 - **MELTING AND FREEZING OF SPHERICAL BI NANOPARTICLES CONFINED IN A HOMOGENEOUS SODIUM BORATE GLASS**

Guinther Kellermann , **Aldo Felix Craievich**

11h30 Wed-am-AI2 - **NANOQUASICRYSTAL FORMATION IN ZIRCONIUM BASED TERNARY ALLOYS : ZR-(PT,PD)- (CU,AG,AU)**

J. Saida , **A. Inoue** , **S. Ranganathan**

12h00 Wed-am-BO1 - **ENHANCED STABILITY AGAINST OXIDATION DUE TO 2D SELF-ORGANIZATION OF HCP CO NANOCRYSTALS**

Isabelle Lisiecki

12h15 Wed-am-BO2 - **VIBRATIONAL PROPERTIES OF NANOGRAINS AND INTERFACES IN NANOCRYSTALLINE MATERIALS**

Svetoslav Stankov , Yuanzheng Yue , Marcel Miglierini , Bogdan Sepiol , Ilya Sergueev , Alexander I. Chumakov , Lina Hu , Peter Svec , Rudolf Ruffer

12h30 Wed-am-BO3 - **DIFFUSION IN NANOCRYSTALLINE ION CONDUCTORS STUDIED BY NMR AND IMPEDANCE SPECTROSCOPIES**

Paul Heitjans , Martin Wilkening

12h45 Wed-am-BO4 - **COMPARISON OF THE PYROPHORIC BEHAVIOR OF ALPHA-Fe NANOPARTICLES SYNTHESIZED FROM FE-OXALATE AND OXIDE**

Rajesh Shende , Alok Vats , Zac Doorenbos , Deepak Kapoor , Chris Haines , Darold Martin , Jan Puszynski

Parallel

Session XIV – Chair: Thomas Tsakalakos

Wednesday, June 4, 2008 from 11h00 to 13h00 - Room C

- 11h00 Wed-am-C11 - **MECHANICAL PROPERTIES AND BULK NANOSTRUCTURED MATERIALS**
Amiya K. Mukherjee
- 11h30 Wed -am-C12 - **DEFORMATION BEHAVIOR OF METALLIC GLASSES**
Walter José Botta Filho , Marcelo Falcão de Oliveira , Alberto Moreira Jorge Jr , Claudemiro Bolfarini , Claudio Shyinti Kiminami
- 12h00 Wed-am-CO1 - **MICROSTRUCTURAL FEATURES AND HIGH TEMPERATURE DEGRADATION RESISTANCE OF THERMAL SPRAYED NANOSTRUCTURED CR3C2-NICR COATINGS**
C.A. de Cunha , O.V.Correa , N.B.de Lima , J.R.Martinelli , A.Padial , L.V.Ramanathan
- 12h15 Wed-am-CO2 - **NANOCRYSTALLINE LOW-CARBON 0.1%C-MN-V-TI STEEL PROCESSED BY HIGH PRESSURE TORSION**
Dobatkin Sergey Vladimirovich , Naidenkin Evgeniy Vladimirovich , Astafurova Elena Gennadievna , Shagalina Svetlana Valerievna
- 12h30 Wed-am-CO3 - **MICROSTRUCTURE AND PLASTICITY OF 3Y-PSZ – 20 WT % AL2O3 COMPOSITES OBTAINED BY SPARK PLASMA SINTERING OF METASTABLE POWDERS**
Jens Suffner , Horst Hahn , Clara Musa , Antonio M. Locci , Roberto Orrù , Giacomo Cao , Irene G. Cano , Sergi Dosta , Josep M. Guilemany
- 12h45 Wed-am-CO4 - **ENHANCEMENT THE PROPERTIES OF NANOSTRUCTURE AL6061**
K. Dehghani , Maryam salehi

Thursday, June 5, 2008

Plenary

Plenary Lecture VI – Chair: Mario Baibich

Thursday, June 5, 2008 from 9h45 to 10h30 - Auditorium

- 09h45 Thu-am-PL1 - **RACETRACK MEMORY**
Stuart Parkin

Parallel

Session XV – Chair: Pushan Ayyub

Thursday, June 5, 2008 from 11h00 to 13h00 - Room A

- 11h00 Thu-am-AI1 - **MAGNETIZATION OSCILLATIONS AND SWITCHING IN MAGNETIC NANOSTRUCTURES**
Antonio Azevedo , Flavio M. de Aguiar , Roberto L. Rodriguez-Suarez , Alexandre Barbosa de Oliveira , Sergio M. Rezende
- 11h30 Thu-am-AI2 - **TILTED MEDIA FOR PERPENDICULAR RECORDING**
G.Varvaro , E. Agostinelli , S. Laureti , A.M. Testa , D. Fiorani
- 12h00 Thu-am-AO1 - **STUDY OF CONJUGATED POLYMER NANOCAPACITORS: POSSIBLE APPLICATION AS MEMORY ELEMENTS**
Rodrigo E. Palacios , Leonid Fradkin , Kwang Jik Lee , Josh Bolinger , Paul F. Barbara
- 12h15 Thu-am-AO2 - **CAPABILITIES OF EBPVD METHOD FOR NANOSTRUCTURED MATERIALS PREPARATION AND THEIR PROPERTIES**
Anatolii Ustinov
- 12h30 Thu-am-AO3 - **ANALYTICAL ELECTRON MICROSCOPY OF IN-SITU-NITROGENATED SM-FE-TA MAGNETIC NANOSPHERES PREPARED BY PLD**
Saso Sturm , Kristina Zuzek Rozman , Alciviadis Constantinos Cefalas , Spomenka Kobe

Parallel

Session XVI – Chair: Enrique Anda

Thursday, June 5, 2008 from 11h00 to 13h00 - Room B

- 11h00 Thu-am-BI1 - **THE EFFECT OF THE ABRIKOSOV VORTEX PHASE ON SPIN AND CHARGE STATES IN MAGNETIC SEMICONDUCTOR-SUPERCONDUCTOR HYBRIDS**
Tatiana Gabriela Rappoport

- 11h30 Thu-am-BI2 - **MAGNETIC INTERACTION BETWEEN IMPURITIES IN QUANTUM CORRALS**
Karen Hallberg , Marco Nizama , Jose d'Albuquerque e Castro
- 12h00 Thu-am-BO1 - **PARALLEL DEVICE FABRICATION OF NM-SIZED STRUCTURES WITH SPATIAL DIMENSIONS DOWN TO ABOUT 10 NM**
Holger Bartolf , Andreas Engel , Luis Gómez , Andreas Schilling , Konstantin Il'in , Michael Siegel
- 12h15 Thu-am-BO2 - **EFFECT OF SIZE REDUCTION ON THE ELECTRICAL RESISTIVITY IN NICKEL NANOWIRES**
M Venkata Kamalakar , A. K. Raychaudhuri
- 12h30 Thu-am-BO3 - **NEW OPTICALLY ACTIVE NANOWIRES FROM PORPHYRIN ORGANOGELS**
Patrizia Iavicoli , David Amabilino
- 12h45 Thu-am-BO4 - **SYMMETRY CONTROLLED SPIN POLARIZED CONDUCTANCE IN AU NANOWIRES**
Edison Zacarias da Silva , Renato B. Pontes , Antonio J.R da Silva , Adalberto Fazzio

Parallel

Session XVII – Chair: Fernando Ponce

Thursday, June 5, 2008 from 11h00 to 13h00 - Room C

- 11h00 Thu-am-CI1 - **NONLINEAR OPTICAL PROPERTIES OF NANOSTRUCTURED PHOTONIC MATERIALS**
Cid B. de Araújo
- 11h30 Thu-am-CI2 - **COMPLEX 3D MATERIALS FOR NANOPHOTONICS**
Georg von Freymann
- 12h00 Thu-am-CO1 - **NEAR-INFRARED THIRD ORDER NONLINEARITY OF PBO-GEO2 FILMS CONTAINING CU AND CU2O NANOPARTICLES**
Davinson Mariano da Silva , Windson Gomes Hora , Luciana Reyes Pires Kassab , Luis Arturo Gomez , Francisco Eroni P. dos Santos , Anderson Stevens Leônidas Gomes , Cid Bartolomeu de Araújo
- 12h15 Thu-am-CO2 - **SHIFTS AND SPLITTING OF SURFACE PLASMON IN COPPER NANOPARTICLES UNDER FEMTOSECOND LASER IRRADIATION**
Igor Dmitruk , Ivan Blonskiy , Ihor Pavlov , Oleg Yeshchenko , Alexandr Alexeenko , Andriy Dmytruk , Petro Korenyuk , Viktor Kadan
- 12h30 Thu-am-CO3 - **ELECTRON ENERGY STRUCTURE OF ZNSE/ZNS CORE/SHELL QUANTUM DOTS**
Amit D. Lad , Shailaja Mahamuni
- 12h45 Thu-am-CO4 - **THE OPPORTUNITIES OF THE ULTRASONIC AEROSOL ROUTE FOR THE SYNTHESIS OF RARE EARTH OXIDE NANOPARTICLES FOR LUMINESCENT APPLICATIONS**
Olivera Milosevic , Lidija Mancic , Katarina Marinkovic , Luz Gomez , Isabel Martin , Maria Eugenia Rabanal , Peter Townsend

Plenary

Plenary Lecture VII – Chair: Jean-Paul Parneix

Thursday, June 5, 2008 from 14h30 to 15h15 - Auditorium

- 14h30 Thu-pm-PL1 - **PROCESSING AND PROPERTIES OF ULTRAFINE-GRAINED MATERIALS FABRICATED USING SEVERE PLASTIC DEFORMATION**
Terence G. Langdon

Poster

Poster Session

Thursday, June 5, 2008 from 15h15 to 16h30 -

- 15h15 Thu-PO001 - **NANOCRYSTALLIZATION OF FE-P-M (M: V, NB) AMORPHOUS ALLOYS**
Baldokhin Yuri Vladimirovich , Vavilova Valeria Vasilievna , Kolotyркиn Petr Yakovlevich , Palii Natalia Alekseevna , Anosova Marina Olegovna , Kalinin Yuri Egorovich
- 15h15 Thu-PO002 - **NANOCOMPOSITES BASED ON IR-PYROLISED POLY(ACRYLONITRILE)/GD**
Karina Bagdasarova , Galina Karpacheva , Lev Zemtsov , Ella Dzidziguri , Zoya Voronina , Elena Sidorova
- 15h15 Thu-PO003 - **SIZE CONFINEMENT OF NANOSTRUCTURED CORE@SHELL NANOPARTICLES: PVG/TIO2@CEO2**
Deleon Nascimento Correa , Italo Odone Mazali
- 15h15 Thu-PO004 - **MORFOLOGY OF RUTILE AND BROOKITE NANOCRYSTALLITES OBTAINED BY X RAY DIFFRACTION AND RIETVELD REFINEMENTS**
A. Garcia-Ruiz , A. Morales , X. Bokhimi
- 15h15 Thu-PO005 - **SOLID ELECTROLYTES WITH ZIRCONIA-SCANDIA NANOPARTICLES SYNTHESIZED BY THE POLYACRYLAMIDE**

METHOD

Gustavo Carneiro Cardoso da Costa , Reginaldo Muccillo

- 15h15 Thu-PO006 - **PHASE TRANSITIONS IN NANO-DISPERSED BORON NITRIDE DURING THERMO BARIC PROCESSING**
Nickolay Ivanovich Polushin , I.I.Bairamgulov , N.N.Stepareva
- 15h15 Thu-PO007 – **EXPERIMENTAL STUDY OF THE SYNTHESIS AND STRUCTURAL PROPERTIES OF THE NANOSTRUCTURED AL64CU23FE13 ICOSAHEDRAL QUASICRYSTAL**
Justiniano Quispe , Carlos V. Landauro , Moisés Yaro , Chachi Rojas , Victor Peña , Manolo Taquire
- 15h15 Thu-PO008 - **NANO-APATITE PREPARED BY MECHANO-CHEMICAL REACTION**
J. Quispe , M. Moreno , J. Montano , V.A. Peña , R. J. Medina , G. Ocharán
- 15h15 Thu-PO009 - **DYNAMIC EFFECTS ON COPPER NANOPOWDER UNDER ELECTRON BEAM: COARSENING AND FORMATION OF SINGLE CRYSTAL NANOSPHERES**
Donovan Enrique Díaz-Droguett , Victor Manuel Fuenzalida Escobar , Guillermo Solórzano Naranjo
- 15h15 Thu-PO010 - **INFLUENCE OF DRYING ON THE CHARACTERISTICS OF ZINC OXIDE NANOPARTICLES**
Cristiana Perdigão Rezende , Juliana Batista da Silva , Nelcy Della Santina Mohallem
- 15h15 Thu-PO011 - **ORDERED MESOPOROUS ZRO2-CEO2**
Rebeca Bacani , Tereza da Silva Martins , Marcia Carvalho de Abreu Fantini , Jivaldo do Rosario Matos , Diego German Lamas
- 15h15 Thu-PO012 - **THE FORMATION OF ICE NANOCLUSTERS ON METAL SURFACES**
Soon Jia Mei , Masashi Nakamura , Hiroo Tajiri , Osami Sakata
- 15h15 Thu-PO013 - **SYNTHESIS AND CHARACTERIZATION OF NANO-STRUCTURED MATERIALS**
Eduardo de Albuquerque Brocchi , Ivan Guillermo Naranjo , Francisco Jose Moura , Roberto Ribeiro de Avillez
- 15h15 Thu-PO014 - **QUANTUM SIZE EFFECTS ON THE EXCITON ENERGY OF SNO2 QUANTUM DOTS IMPREGNATED INTO PVG SUPPORT**
Deleon Nascimento Correa , Italo Odone Mazali
- 15h15 Thu-PO015 - **STUDY OF THE CORRELATION BETWEEN TEMPERATURE AND ACTIVITY PHOTOCATALYTIC OF NANOPARTICULATE TIO2 IN THE ORGANIC DYES DEGRADATION**
Marcelo Machado Viana , Nelcy Della Santina Mohallem
- 15h15 Thu-PO016 - **LOCAL ENVIRONMENTS OF FE AND CO ON (FEX CO1-X)75SI15B10 MECHANICAL ALLOYED**
Victor Antonio Peña Rodriguez , Chachi Rojas Ayala , Justiniano Quispe Marcatoma , Elisa Baggio-Saitovitch , Edson Caetano Passamani
- 15h15 Thu-PO017 - **BIOCOMPATIBILITY INVESTIGATION OF MAGNETIC ALBUMIN POLYMERS**
Luciana Landim Carneiro Estevanato , Débora de Oliveira Cintra e Silva , Flávia Arruda Portilho , Danielle Guedes Peixoto , Júlia Poubel Coelho , Luzirlane dos Santos Barbosa Braun , Sônia Nair Bão , Antônio Cláudio Tedesco , Paulo César de Moraes , Zulmira Guerrero Marques Lacava
- 15h15 Thu-PO018 - **NANOPARTICLES: POTENTIAL TOXICOLOGIC EFFECTS AND PREVENTIVE MEASURES IN OCCUPATIONAL HEALTH**
Bianca Pires Cotta
- 15h15 Thu-PO019 - **POLYMERIC NANOPARTICLES AS CARRIER SYSTEM OF PEPTIDE: PREPARATION, CHARACTERIZATION AND ITS CYTOTOXICITY**
Priscyla Daniely Marcato , Leonardo Francisconi Adami , Patrícia da Silva Melo , Nelson Durán
- 15h15 Thu-PO020 – **INVESTIGATION OF FIBER MORPHOLOGY AND PARAMETERS INVOLVED DURING ELECTROSPINNING OF POLY(VINYL ALCOHOL) (PVA) FOCUSING ON THE USE OF NANOTECHNOLOGY IN TISSUE ENGINEERING.**
Geancarlo Zanatta , César L. Petzhold , Daniela Steffens , Carlos A. Netto , Patricia Pranke
- 15h15 Thu-PO021 - **UNBINDING FORCE OF BIOTIN-AVIDIN COMPLEX USING A NEW METHOD OF PROTEIN IMMOBILIZATION**
L.T. Costa , L.C.S. Santos , Cristiano Legnani , Cecília Vilani , C. A. Achete
- 15h15 Thu-PO022 – **DEVELOPMENT, CHARACTERIZATION AND CITOTOXICITY OF POLY(D,L-LACTIDE-CO-GLYCOLIDE) NANOSPHERES CONTAINING BUPIVACAINE**
Carolina Morales Moraes , Angélica P. Matos , André Henrique Rosa , Eneida de Paula , Leonardo Fernandes Fraceto
- 15h15 Thu-PO023 - **BENZOPHENONE-3 LOADED-NANOCAPSULES: A PHOTOSTABILITY STUDY**
Karina Paese , Alessandro Jäger , Fernanda S. Poletto , Adriana Raffin Pohlmann , Sílvia Stanisçuaski Guterres
- 15h15 Thu-PO024 - **PREPARATION, CHARACTERIZATION AND STABILITY EVALUATION OF POLYMERIC NANOCAPSULES CONTAINING LIPOIC ACID**
Irene Clemes Kulkamp , Sílvia Stanisçuaski Guterres
- 15h15 Thu-PO025 - **SYNTHESIS OF MESOPOROUS SILICA WITH MAGNETIC NANOPARTICLES FOR BIOAPPLICATIONS**
Karynne Cristina de Souza , Nelcy Della Santina Mohallem , Jose Domingos Ardisson , Waldemar Augusto Almeida Macedo , Edesia Martins Barros de Sousa
- 15h15 Thu-PO026 - **PREPARATION AND CHARACTERIZATION OF POLYMERIC NANOPARTICLES IN THE HEPARIN ENCAPSULATION**
Carla Pazzini , Priscyla Daniely Marcato , Nelson Duran , Nelci Fenalt Höehr , Joyce Maria Annichino-Bizzacchi
- 15h15 Thu-PO027 - **CHARACTERIZATION OF HDPE/POSS COMPOSITES BY LOW FIELD NMR**
Diego Piazza , Luciane Calabria , Ricardo Vinicius Bof de Oliveira , Estevão Freire
- 15h15 Thu-PO028 - **CHARACTERIZATION OF NANOCOMPOSITES OF POLYURETHANE BASED ON CASTOR OIL AND CELLULOSE NANOFIBERS**
William Ferreira Alves , Edson N Ito , José Manoel Marconcini , Marcelo Ornaghi Orlandi , Jose Antonio Malmonge , Luiz Henrique Capparelli Mattoso
- 15h15 Thu-PO029 - **PREPARATION OF POLYETHYLENE/GRAPHITE NANOCOMPOSITES**

- Nara Regina de Souza Basso , Griselda Barrera Galland , Fabiana de Carvalho Fim , Jonnathan Mosselin Guterres
- 15h15 Thu-PO030 - **NYLON6/BRAZILIAN CLAY NANOCOMPOSITES: EVALUATION OF MELT FLOW INDEX AND MECHANICAL PROPERTIES**
Rene Anisio da Paz , Amanda Melissa Damião Leite , Edcleide Maria Araújo , Tomas Jeferson Alves de Melo
- 15h15 Thu-PO031 - **HDPE NANOCOMPOSITES OBTAINED BY IMPORTED CLAYS**
Renata Barbosa , Dayanne Diniz Souza , Luana Rodrigues Kojuch , Edcleide Maria Araújo , Tomás Jeferson Alves de Mélo
- 15h15 Thu-PO032 - **STUDIES ON AN ADEQUATE TECHNIQUE FOR SYNTHETIZING PMMA-MWNT COMPOSITES OF DIVERSE CONCENTRATIONS**
Yuly Mendez , Camilo Zuniga , Fernando Gomez-Baquero , Alvaro Duarte Ruiz
- 15h15 Thu-PO033 - **SINGLE-SCATTERING MODEL ANALYSIS OF AIR VOIDS IN A NON-ABSORBING MEDIUM**
Cristiane Aparecida Silva e Souza , Fernando Galembeck
- 15h15 Thu-PO034 - **MORPHOLOGY AND PROPERTIES OF NANOSTRUCTURED LATEX BLENDS**
Elisângela Moura Linares , Fernando Galembeck
- 15h15 Thu-PO035 - **INFLUENCE OF SOLVENT IN THE OBTENTION OF AU COLLOID PRODUCED BY CHEMICAL LIQUID DEPOSITION TECHNIQUE.**
Galo Cárdenas Triviño , Vanessa Sáez Urrea , Judith Díaz Visurraga , Manuel Méléndrez Castro , Christian Cruzat Contreras
- 15h15 Thu-PO036 - **NYLON6/ BRAZILIAN CLAY NANOCOMPOSITES: EVALUATION OF THE STRUCTURE.**
Amanda Melissa Damião Leite , Larissa Fernandes Maia , Osanildo Damião Pereira , Edcleide Maria Araújo , Hélio de Lucena Lira
- 15h15 Thu-PO037 - **PULSATION OF NANOPARTICLES**
M.A.Korshunov
- 15h15 Thu-PO038 - **STUDY ON NANOSILVER APPLICATION FOR MANUFACTURE OF LEATHERS AND SHEEPSKINS FOR MEDICAL USE**
Carmen Cornelia Gaidau , Aurora Petica , Constantin Ciobanu , Tamara Martinescu
- 15h15 Thu-PO039 - **UREIDO DI-PEPTIDE NANOTUBE: NOVEL MATERIAL FOR CLASSIC MOLECULAR SELF-ASSEMBLY**
Mandar R. Maduskar , Dr. M.M.V. Ramana
- 15h15 Thu-PO040 - **THE NANOSCIENCE AND NANOTECHNOLOGY CENTER AT THE FEDERAL UNIVERSITY OF RIO GRANDE DO SUL/BRAZIL**
Naira Maria Balzaretto
- 15h15 Thu-PO041 - **PREPARATION OF PTRU/C, PTBI/C AND PTRUBI/C ELECTROCATALYSTS BY AN ALCOHOL-REDUCTION PROCESS FOR ETHANOL OXIDATION**
Michele Brandalise , Marcelo Marques Tusi , Marcelo Linardi , Estevam Vitorio Spinacé , Almir Oliveira Neto
- 15h15 Thu-PO042 - **LANDAU LEVEL CROSSING IN A DOUBLE WELL WITH VANISHING ELECTRONIC G-FACTOR**
Luis Enrique Gomez Armas
- 15h15 Thu-PO043 - **A TIGHT-BINDING STUDY OF THE ELECTRONIC PROPERTIES OF COPPER NANO-PARTICLES: FROM CLUSTERS TO SOLIDS**
Juan Torres , Carlos V. Landauro , Justo Rojas , Chachi Rojas
- 15h15 Thu-PO044 - **EFFECT OF PREPARATION PARAMETERS ON THE MORPHOLOGY AND STRUCTURE OF TIO₂ NANOPARTICLES CATALYSTS**
Neuman Solange Resende , Vinicius Menez da Silva , Silvana Karele dos Santos , Carlos Andre Castro Perez , Deborah Vargas Cesar
- 15h15 Thu-PO045 - **SCAN RATE AND SCAN NUMBER EFFECT ON ELECTROPOLYMERIZATION AND ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY OF POLYCARBAZOLE ON CARBON FIBER MICRO ELECTRODES**
Hacer Dolas , Murat Ates , A.Sezai Sarac
- 15h15 Thu-PO046 - **RECENT ADVANCES IN THE IRON DOPING OF TITANIUM OXIDE PHOTOCATALYTIC NANOPARTICLES PREPARED BY THE LASER PYROLYSIS**
Victor Ciupina
- 15h15 Thu-PO047 - **CHARGE AND DISCHARGE PROCESS ON SIO₂ BY SPM TECHNIQUES: TOWARDS DATA STORAGE DEVICES**
Elisângela Silva Pinto , Bernardo Ruegger Almeida Neves
- 15h15 Thu-PO048 - **STUDIES AND CHARACTERIZATION OF CO-NI/AL₂O₃ AND CO-NI/SIO₂ CATALYSTS PREPARED BY NI AND CO SOLVATED METAL ATOM DISPERSION**
Galo Cárdenas , Saddys Rodríguez Llamazares
- 15h15 Thu-PO049 - **MOLECULAR MATERIALS CONFINED IN MESOPOROUS SURFACES, PREPARATION, CHARACTERIZATION AND PROPERTIES**
Martin Hernan Gaitan , Galo J. A. A. Soler-Illia , Luis M.Baraldo
- 15h15 Thu-PO050 - **AFM STUDY OF INTERACTION BETWEEN PARTICLE AND SUBSTRATE IN CHEMICAL MECHANICAL PLANARIZATION PROCESS**
Youngmin Choi , Jong-Ung Kim , Byong-Hwan Ryu , Hocheol Kang , Dongmook Shin , Junseok Nho , Seungbeom Cho
- 15h15 Thu-PO051 - **BIFUNCTIONALIZED MESOPOROUS SILICA FOR TEXTILE REACTIVE DYE REMOVAL**
Andrea Sales de Oliveira Moscofian , Claudio Airoidi
- 15h15 Thu-PO052 - **SYNTHESIS AND CHARACTERIZATION OF UREA FUNCTIONALIZED HEXAGONAL MESOPOROUS SILICAS**
José Ricardo da Costa , Claudio Airoidi , José de Alencar Simoni
- 15h15 Thu-PO053 - **C-CONTAINING COMPOUNDS AT THE SIO₂/SIC INTERFACE**
Silma Alberton Corrêa , Cláudio Radtke , Aline Tais da Rosa , Gabriel Vieira Soares , Israel Jacob Rabin Baumvol , Cristiano Krug ,

Fernanda Chiarello Stedile

- 15h15 Thu-PO054 - **TIO2 PHOTOSENSITIZATION USING SEMICONDUCTOR NANOPHASES**
Márcia Carvalho Neves , Tito Trindade , Maria Helena Mendonça , Olinda Coelho Monteiro
- 15h15 Thu-PO055 - **STUDY OF NIO AND TIO2 FILMS FOR SOLAR APPLICATIONS**
Wagner Sade , Reinaldo Trindade Proença , Gilson Ronaldo Guimarães , Adriano Rodrigues Menezes , Jose Roberto Tavares Branco
- 15h15 Thu-PO056 - **CONVERSION OF SUNLIGHT TO ELECTRIC POWER BY TIO2 NANOCRYSTALLINE DYE-SENSITIZED SOLAR CELLS**
Tábata Simone Salgado , Ana Lúcia Brandl , Antônio José Felix de Carvalho
- 15h15 Thu-PO057 - **LIGHT-SCATTERING DEPOLARIZATION BY METALLIC NANOPARTICLES:SIZE DEPENDENCE**
Beatriz Setién Araujo , Braulio García-Cámara , Fernando Moreno , Francisco González , José María Saiz
- 15h15 Thu-PO058 - **STUDYING GRAPHENE LAYERS USING RAMAN SPECTROSCOPY AND ATOMIC FORCE MICROSCOPY**
Marcia Maria Lucchese , Lilian Terezinha Costa , Fernando Stavale , Suzana Peripolli , Carlos Alberto Achete , Ado Jorio
- 15h15 Thu-PO059 - **DETERMINATION OF THE NANOPORES SIZE AND STRUCTURE USING A DUAL BEAM FIB/SEM**
S. B. Peripolli , L. C. Lima , R. A. Simão , L. S. Gomes , C. A. Achete

Parallel

Session XVIII – Chair: Srinvasa Ranganathan

Thursday, June 5, 2008 from 17h00 to 18h30 - Room A

- 17h00 Thu-pm-AI1 - **MAGNETIC LITHOGRAPHY ON PARAMAGNETIC FEAL ALLOYS BY SELECTIVE ION IRRADIATION**
Jordi Sort , Enric Menendez , Oskar Liedke , T. Strache , Jürgen Fassbender , Thomas Gemming , Anja Weber , Laura Heyderman , Santiago Suriñach , S. C. Deevi , K.V. Rao , Josep Nogués , Maria Dolors Baró
- 17h30 Thu-pm-AO1 - **PATTERNING OF NANOSCALE BUILDING BLOCKS**
Maxim V. Kiryukhin , Maria N. Antipina , Karen Chong , Oliver Kreft , Gleb B. Sukhorukov , Low Hong Yee
- 17h45 Thu-pm-AO2 - **FABRICATION OF ISO-ORIENTED GOLD NANOBELT ARRAYS FROM AN FE-AU EUTECTOID**
Ying Chen , Srdjan Milenkovic , Achim Walter Hassel
- 18h00 Thu-pm-AO3 - **NOVEL NANOSTRUCTURED MACRO-POROUS SURFACES FOR ENHANCED BOILING**
Shanghua Li , Richard Furberg , Muhammet Toprak , Björn Palm , Mamoun Muhammed
- 18h15 Thu-pm-AO4 - **PREPARATION OF NOBLE METAL NANOSTRUCTURES IN THE ORGANIC PHASE WITHIN HEXAGONAL SWOLLEN LIQUID CRYSTAL TEMPLATES**
Prem Felix Siril , Hynd Remita , Laurence Ramos

Parallel

Session XIX – Chair: Annie Powell

Thursday, June 5, 2008 from 17h00 to 18h30 - Room B

- 17h00 Thu-pm-BI1 - **IN SITU XRD TO IDENTIFY SUPPORTED GOLD NANOPARTICLES**
N. F. P Ribeiro , M.M.V.M Souza , M. Schmal
- 17h30 Thu-pm-BO1 - **HIERARCHICALLY BUILT-UP NANOSTRUCTURED RANEY-TYPE NI CATALYSTS WITH VERY HIGH CATALYTIC ACTIVITY**
Ute Hörmann , Ute Kaiser , Nick Adkins , Rainer Wunderlich , Alexander Minkow , Hans Fecht , Heinz Schils , Francois Devred , Bernard Nieuwenhuys , Horst Blumtritt
- 17h45 Thu-pm-BO2 - **POLYMER.METAL, CERAMIC NANOFIBERS AND NANORODS VIA ELECTROSPINN**
Joachim Heinz Wendorff , Roland Dersch , Martin Graeser , Andreas Greiner
- 18h00 Thu-pm-BO3 - **NANOSTRUCTURED TITANATES OBTAINED VIA HYDROTHERMAL ALKALI ROUTE**
Edisson Morgado Jr. , Marco Antonio Santos de Abreu , Gustavo Torres Moure , Bojan Marinkovic , Paula Mendes Jardim , Antonio Souza de Araujo
- 18h15 Thu-pm-BO4 - **STOICHIOMETRICALLY CONTROLLED SYNTHESIS OF TERNARY NANOMATERIALS BY ALKALIDE REDUCTION**
Michael James Wagner

Parallel

Session XX – Chair: Amiya Mukherjee

Thursday, June 5, 2008 from 17h00 to 18h15 - Room C

- 17h00 Thu-pm-CI1 - **BULK NANOSTRUCTURED SPD-PROCESSED MATERIALS FOR ADVANCED APPLICATIONS IN ENGINEERING AND MEDICINE**
Ruslan Valiev , Murat Guzairov
- 17h30 Thu-pm-CO1 - **ON THE RELATION BETWEEN POP-INS IN NANOINDENTATION TESTS AND THE IDEAL SHEAR STRENGTH**
Jana Hornikova , Jaroslav Pokluda , Pavel Sandera , Miroslav Cerny
- 17h45 Thu-pm-CO2 - **INNOVATIVE RETROFIT SYSTEM WITH NANO-CONSTITUENT MATERIALS FOR STRENGTHENING OF REINFORCED CONCRETE**
Christos G. Papakonstantinou , Konstantinos Katakalos
- 18h00 Thu-pm-CO3 - **DEFORMATION MECHANISMS OF NANOSTRUCTURED LAMELLAR BLOCK COPOLYMERS**
Emmanuelle Chabert

Friday, June 6, 2008

Plenary

Plenary Lecture VIII – Chair: Lionel Vayssieres

Friday, June 6, 2008 from 09h00 to 10h30 - Auditorium

09h00 Fri-am-PL1 - TETRAPLEX BUILDING BLOCKS AND ALTERNATIVE APPROACHES TO STRUCTURAL DNA NANOTECHNOLOGY

Yamuna Krishnan

09h45 Fri-am-PL2 - FERRIMAGNETIC DOUBLE PEROVSKITE MATERIALS FOR SPINTRONICS

Lambert Alff

Parallel

Session XXI – Chair: Kamanio Chottopadhyay

Friday, June 6, 2008 from 11h00 to 13h00 - Room A

11h00 Fri-am-AI1 - TUNABLE PROPERTIES OF NANOSTRUCTURED OXIDES

Horst Hahn

11h30 Fri-am-AI2 - ULTRATHIN OXIDE FILMS: NEW MATERIALS AT THE NANOSCALE WITH UNPRECEDENTED PROPERTIES

Gianfranco Pacchioni

12h00 Fri-am-AO1 - PREPARATION AND CHARACTERIZATION OF THE GEOMETRICALLY FRUSTRATED ZN1-XMNXL2O4 THIN FILMS.

Rodolfo D. Sánchez, Oleg Shapoval, Kai Gehrke, Vasily Moshnyaga, Konrad Samwer

12h15 Fri-am-AO2 - THE IMPROVEMENT OF PHOTOCATALYTIC DECOMPOSITION OF AQUEOUS ACETIC ACID WITH TiO2 NANOSTRUCTURED THIN FILMS PRODUCED BY SPIN-COATING SOL-GEL METHOD

Hamid Javadi, Amir Abdollah-zadeh, Sohrab Sanjabi

12h30 Fri-am-AO3 - CONDUCTANCE ENHANCEMENT OF NANOPARTICULATE INDIUM TIN OXIDE LAYERS MADE BY PRINTING TECHNIQUE

Michael Gross, Ilya Maksimenko, Hendrik Faber, Nicolas Linse, Peter J. Wellmann

12h45 Fri-am-AO4 - STRUCTURE OF THE RUTILE TiO2-(011) SURFACE

Navid Khorshidi, Andreas Stierle, Vedran Vonk, Claus Ellinger, Helmut Dosch, Ulrike Diebold, Xueqing Gong, Annabella Selloni

Parallel

Session XXII – Chair: Galo Cardenas

Friday, June 6, 2008 from 11h00 to 13h00 - Room B

11h00 Fri-am-BI1 - COORDINATION CHEMISTRY ROUTES TO NANOMAGNETS

Annie K. Powell

11h30 Fri-am-BI2 - HYBRID SUPRAMOLECULAR MATERIALS FOR SENSOR DEVICES

Henrique Eisi Toma

12h00 Fri-am-BO1 - FACILE PREPARATION OF THREE DIMENSIONAL POLYMERIC CAPSULES

Maciej Mazur

12h15 Fri-am-BO2 - PHOTOCHEMICAL ROUTE FOR THE SYNTHESIS OF METAL-SILOXANE-POLYMER NANOCOMPOSITES: SOME NEW INSIGHTS ON THE STRUCTURE MODIFICATIONS

Rodica Alexandrescu, Ion Morjan, Monica Scarisoreanu, Claudiu Fleaca, Lavinia Gavrila, Ruxandra Birjega, Gabriel Prodan, Adelina Tomescu

12h30 Fri-am-BO3 - NANOSTRUCTURED RESPONSIVE SURFACES OF PNIPAM AND PSMP BLOCK COPOLYMER BRUSHES.

Irantzu Llarena Conde, Sergio E. Moya, Jagoba J. Iturri Ramos

12h45 Fri-am-BO4 - CONTROL OVER NANOSTRAND NETWORK FORMATION

Iryna I. Perepichka, Antonella Badia, C. Geraldine Bazuin

Parallel

Session XXIII – Chair: Rodrigo E. Palacios

Friday, June 6, 2008 from 11h00 to 13h00 - Room C

11h00 Fri-am-CI1 - ENGINEERING OF ADVANCED NANOCOMPOSITES

Mamoun Muhammed

11h30 Fri-am-CI2 - NANOTECHNOLOGY RESEARCH NET AT PETROBRAS

A. Saavedra, L.M.X. Lowe

12h00 Fri-am-CO1 - A NOVEL FABRICATION OF NANOCHANNELS METAL MEMBRANES BY TWO-STEP REPLICATION TECHNIQUE

Xiaodi Wang

- 12h15 Fri-am-CO2 - **SYNTHESIS AND CHARACTERIZATION OF NANOCOMPOSITE LSCF-GDC THIN FILM FOR LOW TEMPERATURE MICRO-SOFC APPLICATIONS**
Azad Jaber Darbandi , Horst Hahn
- 12h30 Fri-am-CO3 - **ELECTROCHEMICALLY-GATED FIELD-EFFECT TRANSISTOR WITH INDIUM TIN OXIDE NANOPARTICLES AS ACTIVE LAYER**
Subho Dasgupta , Sebastian Gottschalk , Robert Kruk , Horst Hahn
- 12h45 Fri-am-CO4 - **SYNTHESIS AND CHARACTERISATION OF CONDUCTING POLYANILINE NANOPARTICULAR AND APPLICATION AS AMMONIA SENSOR**
Chabukswar Vasant Vidyadhar1 and S.Sivaram 2 , Vasant Vidyadhar Chabukswar

Plenary

Plenary Lecture IX – Chair: Wolfgang Parak

Friday, June 6, 2008 from 14h30 to 15h15 - Auditorium

- 14h30 Fri-pm-PL1 - **POLYMERIC NANOCAPSULES FOR BRAIN OR CUTANEOUS DRUG DELIVERY**
S.S. Guterres , A.R. Pohlmann

Parallel

Session XXIV – Chair: Mamoun Muhammed

Friday, June 6, 2008 from 15h15 to 16h30 - Room A

- 15h15 Fri-pm-AI1 - **NANOTECHNOLOGY AND MEDICINE AT THE CROSS ROADS**
Thomas Tsakalacos
- 15h45 Fri-pm-AO1 - **IN VITRO EVALUATION OF MYCOSYNTHESIZED SILVER NANOPARTICLES USED IN COMBINATION WITH DIFFERENT ANTIBIOTICS AGAINST SOME HUMAN PATHOGENS**
Aniket Gade , **Mahendra Kumar Rai** , Manisha Bawaskar , Avinash Ingle
- 16h00 Fri-pm-AO2 - **THE QUANTITATIVE EFFECT OF ETHANOL ON THE SIZE REDUCTION OF NANOPARTICLES PREPARED BY EMULSION-SOLVENT DIFFUSION TECHNIQUE**
Fernanda S. Poletto , Luana Almeida Fiel , Rodrigo Paulo Silveira , Silvia Stanisçuaski Guterres , Adriana Raffin Pohlmann
- 16h15 Fri-pm-AO3 - **EFFECT OF ALBUMIN ON THE MORPHOLOGY OF HYDROXYAPATITE**
Silvia Maria de Paula , **Koiti Araki** , Henrique Eisi Toma
- 16h30 Fri-pm-AO4 - **NEW FUNCTIONAL NANOMATERIALS AND SUPERNANOSTRUCTURES.**
Vladimir Kislov , Igor Taranov

Parallel

Session XXV – Chair: Martin Schmall

Friday, June 6, 2008 from 15h15 to 16h30 - Room B

- 15h15 Fri-pm-BI1 - **A COMPARATIVE STUDY OF PHYSICOCHEMICAL PROPERTIES BETWEEN AG COLLOID NANOPARTICLES SUPPORTED IN CHITOSAN FILMS, CHITOSAN-AG COMPLEX BASED FILM AND FREE CHITOSAN FILM**
G. Cárdenas , J. Díaz V , M. F. Meléndrez , C. Cruzat
- 15h45 Fri-pm-BO1 - **SYNTHESIS OF THERMOELECTRIC QUANTUM DOTS BY ALKALIDE REDUCTION**
Jason A. Michel , Amal Bassa , Michael J. Wagner
- 16h00 Fri-pm-BO2 - **CALCIUM TITANATE NANOSTRUCTURES SYNTHESIZED FROM HYDROTHERMALLY DERIVED TEMPLATES**
Bostjan Jancar , Ines Bracko , Saso Sturm , Danilo Suvorov
- 16h15 Fri-pm-BO3 - **A NOVEL CHEMICAL ROUTE TO SYNTHESIZE CEO2 NANOWIRES**
Ying Ma , Xiaodi Wang , Bin Zhu , Mamoun Muhammed
- 16h30 Fri-pm-BO4 - **PREPARATION OF PLATINUM-CARBON HOLLOW FIBER CATALYTIC MEMBRANES**
Gabriela Fernandes Moreira , Rafael Bertges S. Carvalho , Carlos André Pérez , Cristiano Piacsek Borges , **Vera Maria M. Salim**

Parallel

Session XXVI – Chair: Maria D. Baró

Friday, June 6, 2008 from 15h15 to 16h30 - Room C

- 15h15 Fri-pm-CI1 - **AB INITIO CALCULATIONS OF ELECTRONIC AND TRANSPORT PROPERTIES OF DISORDERED ONE-DIMENSIONAL CARBON SYSTEMS**
Antonio José Roque da Silva , Alexandre R. Rocha , Thiago B. Martins , Adalberto Fazzio
- 15h45 Fri-pm-CO1 - **PROBING ELECTRONIC STRUCTURE OF GRAPHENE BY RESONANT RAMAN SPECTROSCOPY**
Marcos A Pimenta , Leandro Malard , Daniela L. Mafra , Daniel C. Elias , Juliana C Brant , Flavio Plentz , Elmo S. Alves

16h00 Fri-pm-CO2 - EFFECT OF NON-CONVENTIONAL CATALYST METAL ON THE GROWTH OF CARBON NANOSTRUCTURES BY THERMAL CVD

Carla Verissimo , Stanislav A. Moshkalev

16h15 Fri-pm-CO3 - SYNTHESIS OF NOVEL NANOPOROUS CARBON: NCCR-1

B. Kuppan , **B. Viswanathan** , **P. Selvam**