Day 1    March 31, 2016

Melia Meeting 4 & 5

Registrations

Conference Series

Opening Ceremony

Keynote Forum

Introduction
Michael W. Tausch
University of Wuppertal, Germany

Jas Pal Badyal
Durham University, UK

Track 1: Materials Science and Engineering
Track 2: Informatics in Various Fields of Materials

Session Introduction

Session Chair: Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
Session Co-chair: Jijeesh R Nair, Polytechnic University of Turin, Italy

Title: Molecular magnetic switches
Marat M. Khusniyarov, Friedrich-Alexander-University of Erlangen-Nuremberg, Germany

Title: The role of polymer electrolyte in constructing an aging resistant high energy lithium battery for wide temperature application
Jijeesh R Nair, Polytechnic University of Turin, Italy

Group Photo

Coffee Break @ Foyer

Title: The prediction of long-term creep data of fibrous polymer composites based on short term experiments
Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

Title: Group III-Nitride semiconductor nanostructures for novel photonic applications
Yong-Hoon Cho, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea

Title: Polymer derived boron nitride ceramics for energy applications
Philippe Miele, University of Montpellier, France

Title: Teaching from practice to theory
Mario Pablo Spector, National Technological University, Argentina

Title: Novel biological method for iron rust removal
S. Rajendran, Madurai Kamaraj University, India

Lunch Break @ Restaurant

Young Researchers Forum

Title: Towards more efficient upconverting materials based on NaYF₄ nanoparticles: Phase and size controlled synthesis and optical evaluation
Fabrizio Guzzetta, Universitat Jaume I, Spain

Title: High efficiency for photo-polymerizable VCP ester-amide resins: A universal concept providing low volume shrinkage, high reactivity and selectivity
Paul Pineda, University of Bayreuth, Germany

Title: Non-ionic UCST-type polymers: Synthesis and analysis of new thermoresponsive properties in aqueous media
Beatriz A Pineda-Contreras, University of Bayreuth, Germany

Title: Expanding the NMR palette: Insights on artificial charge separators
Brijith Thomas, Leiden Institute of Chemistry, Netherlands
Track 3: Role of Materials Chemistry in Pharmacy
Track 4: Design and Synthesis of Materials

Session Chair: Włodzimierz Stanczyk, Polish Academy of Sciences, Poland
Session Co-chair: Bruno Bureau, Institut Universitaire de France, France

**Title:** Synthesis of the first POSS cage - anthracycline nano-conjugates
Włodzimierz Stanczyk, Polish Academy of Sciences, Poland

**Title:** Synthesis of fine-controlled subano-metal particles using a dendrimer reactor
Kimihisa Yamamoto, Tokyo Institute of Technology, Japan

**Title:** Tellurium based glasses for far infrared and thermoelectric applications
Bruno Bureau, Institut Universitaire de France, France

**Title:** Game-based materials to teaching and learning the periodic table
Antonio Joaquín Franco-Mariscal, University of Malaga, Spain

Coffee Break @ Foyer

**Title:** Polymers with tunable properties via variable cross-linking conditions
Lee D. Wilson, University of Saskatchewan, Canada

**Title:** Fibre structures for energy harvesting in wearables
Elias Siores, Bolton University, UK

**Title:** Advanced functional organic-inorganic nano-composite membranes: Application of membrane technology for removal of contaminants of drinking water
Urfi Ishrat, Taibah University, Saudi Arabia

**Title:** Microstructure evolution at different cooling rates of a low carbon microalloyed steel
Elena Brandaleze, National Technological University, Argentina

**Title:** Mechanical response of Ti$_3$SiC$_2$ to He/H irradiation: Elaboration from first-principles calculation
Yuexia Wang, Fudan University, China

Track 5: Foundational Challenges in Predictive Materials Chemistry
Track 6: Rational Chemical Synthesis on Nanoscale and Nanostructured Materials
Track 7: Polymer Materials and their Technology

Session Chair: Michael W. Tausch, University of Wuppertal, Germany
Session Co-chair: Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

**Title:** Photoprocesses in science education
Michael W. Tausch, University of Wuppertal, Germany

**Title:** Hybrid organic-inorganic materials for thin-film lighting technologies
Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Keynote Forum

**Reshef Tenne**
Weizmann Institute, Israel

**Der-Jang Liaw**
National Taiwan University of Science and Technology, Taiwan

Coffee Break @ Foyer

**Title:** Novel polymer-peptide conjugates and polymer-based peptidomimetics
Marc Devocelle, Royal College of Surgeons in Ireland (RCSI), Ireland

**Title:** Conjugated copolymers and their optimization for ambipolar field effect transistors
Martin Baumgarten, Max Planck Institute for Polymer Research, Germany

**Title:** Spectroscopic tools to study and interpret macromolecular dynamics at a molecular scale
Jorge Teno Díaz, Carlos III University of Madrid, Spain

**Title:** Ultrasonic fabrication of microfluidic polymer chips
Werner Karl Schomburg, RWTH Aachen University, Germany

**Title:** Synthetic polymers from easily available monossacharides
M. Gracia García-Martín, University of Seville, Spain

Lunch Break: @ Restaurant
Poster Presentations @ Foyer

Title: Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins II: In vitro assessment of antifungal properties
Irina Rosca, Petru Poni Institute of Macromolecular Chemistry, Romania

Title: Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins: Synthesis, characterization and in silico assessment
Narcisa Laura Marangoci, Petru Poni Institute of Macromolecular Chemistry, Romania

Title: Silver nanoclusters doped in mordenite zeolite as photocatalysts toward pesticides
Imad A Abou-Yousef, American University of Sharjah, UAE

Title: Improving PLA properties through the incorporation of electrospun nanofibers based on PVA and cellulose nanowhiskers
Carol Lopez de Dicastillo, Santiago de Chile University, Chile

Title: Antimicrobial supercritical impregnation of nanocomposites for food packaging
Maria Jose Galotto, Santiago de Chile University, Chile

Title: Preparation and characterization of chitosan-co-hyaluronic acid cryogels
Tugce Kutlusoy, Marmara University, Turkey

Title: Synthesis and characterization of high performance polyimide nanofibers and application on lithium-ion batteries
Emre Aytan, Marmara University, Turkey

Title: Molecularly imprinted polymeric nanoparticle: Preparation and characterization
Merve Yasar, Marmara University, Turkey

Title: Novel macroporous poly-pickering-HIPE composites for heterogeneous photocatalysis
Elif Yüce, Yalova University

Title: Poly-pickering-HIPEs as heterogeneous photocatalysts
Fatma Nur Parın, Yalova University

Track 8: Applied Materials Chemistry
Track 9: Current Innovations and Emerging Areas in Materials Chemistry
Track 10: Research Aspects of Materials Chemistry
Track 11: Science of Advanced Materials

Session Chair: Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK
Session Co-chair: Yo Tanaka, RIKEN, Japan

Title: Solute effect on grain boundary migration in ultrafine/nanostructured materials
Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK

Title: Application of ultra-thin flexible glass sheets to microfluidic devices
Yo Tanaka, RIKEN, Japan

Title: Nanoscale strategies towards development of advanced Mn-based permanent magnets
Felix Jimenez-Villacorta, Materials Science Institute of Madrid (ICMM-CSIC), Spain

Title: Sialon nano-composites matrix reinforced by cubic boron nitride prepared by using spark plasma sintering
Abbas Saeed Hakeem, King Fahd University of Petroleum & Minerals, Saudi Arabia

Title: Segregation of ions in deliquesced droplets of alkali halide nano-crystals on SiO₂
Kenta Arima, Osaka University, Japan

Title: Nanomechanics with nanotubes and fullerene-like-WS₂ (MoS₂)
Reshef Tenne, Weizmann Institute, Israel

Video Presentation: One-pot waterborne superhydrophobic pigment coatings at high solids with improved scratch and water resistance
Agne Swerin, SP Technical Research Institute of Sweden – Chemistry, Sweden

Title: Fuel briquettes from municipal solid waste through solid state fermentation
S. Rajendran, Saraswathi Narayanan College, India

Title: Microreactors based on nanostructured monolithic materials for electrochromatography separation and catalysis applications
Seydina Ibrahima KEBE, University Paris-East, France

Title: Heterogeneous kinetic uptake studies of conventional and nanomaterials in solution
Lee D. Wilson, University of Saskatchewan, Canada
Bookmark your dates

2nd International Conference and Exhibition on

Materials Chemistry

April 24-26, 2017 Frankfurt, Germany

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