Day 1
March 31, 2016

08:00-09:00  Registrations

Melia Meeting 4 & 5

09:00-09:25  Opening Ceremony

Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:25-09:30</td>
<td>Introduction</td>
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<tr>
<td>09:30-09:55</td>
<td><strong>Title: Photocatalytic Redox Reactions</strong></td>
<td><strong>Michael W. Tausch</strong>, University of Wuppertal, Germany</td>
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<tr>
<td>09:55-10:20</td>
<td><strong>Title: Scalable functional nanocoatings</strong></td>
<td><strong>Jijeesh R Nair</strong>, Polytechnic University of Turin, Italy</td>
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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

10:20-10:40  Title: Molecular magnetic switches  
**Marat M. Khusniyarov**, Friedrich-Alexander-University of Erlangen-Nuremberg, Germany

10:40-11:00  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

11:00-11:15  Group Photo  
Coffee Break 11:00-11:15 @ Foyer

11:15-11:35  **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

11:35-11:55  **Title: Group III-Nitride semiconductor nanostructures for novel photonic applications**  
**Yong-Hoon Cho**, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea

11:55-12:15  **Title: Polymer derived boron nitride ceramics for energy applications**  
**Philippe Miele**, University of Montpellier, France

12:15-12:35  **Title: Teaching from practice to theory**  
**Mario Pablo Spector**, National Technological University, Argentina

12:35-12:55  **Title: Novel biological method for iron rust removal**  
**S. Rajendran**, Madurai Kamaraj University, India

Lunch Break 12:55-13:55 @ Restaurant

Young Researchers Forum

13:55-14:05  **Title: Towards more efficient upconverting materials based on NaYF₄ nanoparticles: Phase and size controlled synthesis and optical evaluation**  
**Fabrizio Guzzetta**, Universitat Jaume I, Spain

14:05-14:15  **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: Wlodzimierz 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
Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland

Title: Synthesis of fine-controlled subnano-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 15:55-16:10 @ Foyer

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

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

Day 2 April 01, 2016
Melia Meeting 4 & 5

Keynote Forum

09:00-09:25 Title: Inorganic nanotubes and fullerene-like nanoparticles at the crossroad between materials science and nanotechnology and their applications
Reshef Tenne, Weizmann Institute, Israel

09:25-09:50 Title: Novel Functional Polymeric Nanomaterials: Synthesis, Optoelectronic, Selective Dispersion of SWNTs and Photovoltaics Applications
Der-Jang Liaw, National Taiwan University of Science and Technology, Taiwan

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

Session Introduction

09:50-10:10 Title: Photoprocesses in science education
Michael W. Tausch, University of Wuppertal, Germany

10:10-10:30 Title: Hybrid organic-inorganic materials for thin-film lighting technologies
Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Coffee Break 10:30-10:45 @ Foyer

10:45-11:05 Title: Novel polymer-peptide conjugates and polymer-based peptidomimetics
Marc Devocelle, Royal College of Surgeons in Ireland (RCSI), Ireland
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<tr>
<td>11:05-11:25</td>
<td>Conjugated copolymers and their optimization for ambipolar field effect transistors</td>
<td>Martin Baumgarten, Max Planck Institute for Polymer Research, Germany</td>
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<td>11:25-11:45</td>
<td>Spectroscopic tools to study and interpret macromolecular dynamics at a molecular scale</td>
<td>Jorge Teno Diaz, Carlos III University of Madrid, Spain</td>
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<td>11:45-12:05</td>
<td>Ultrasonic fabrication of microfluidic polymer chips</td>
<td>Werner Karl Schomburg, RWTH Aachen University, Germany</td>
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<td>12:05-12:25</td>
<td>Synthetic polymers from easily available monossacharides</td>
<td>M. Gracia García-Martín, University of Seville, Spain</td>
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**Lunch Break: 12:25-13:25 @ Restaurant**

**Poster Presentations 13:25 - 14:10 @ Foyer**

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<td>Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins II: <em>In vitro</em> assessment of antifungal properties</td>
<td>Irina Rosca, Petru Poni Institute of Macromolecular Chemistry, Romania</td>
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<tr>
<td>Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins: Synthesis, characterization and in silico assessment</td>
<td>Narcisa Laura Marangoci, Petru Poni Institute of Macromolecular Chemistry, Romania</td>
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<td>Silver nanoclusters doped in mordenite zeolite as photocatalysts toward pesticides</td>
<td>Imad A Abu-Yousef, American University of Sharjah, UAE</td>
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<td>Improving PLA properties through the incorporation of electrospun nanofibers based on PVA and cellulose nanowhiskers</td>
<td>Carol Lopez de Dicastillo, Santiago de Chile University, Chile</td>
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<td>Antimicrobial supercritical impregnation of nanocomposites for food packaging</td>
<td>Maria Jose Galotto, Santiago de Chile University, Chile</td>
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<td>Preparation and characterization of chitosan-co-hyaluronic acid cryogels</td>
<td>Tugce Kutlusoy, Marmara University, Turkey</td>
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<td>Synthesis and characterization of high performance polyimide nanofibers and application on lithium-ion batteries</td>
<td>Emre Aytan, Marmara University, Turkey</td>
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<td>Molecularly imprinted polymeric nanoparticle: Preparation and characterization</td>
<td>Merve Yasar, Marmara University, Turkey</td>
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<td>Novel macroporous poly-pickering-HIPE composites for heterogeneous photocatalysis</td>
<td>Elif Yüce, Yalova University</td>
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<td>Poly-pickering-HIPEs as heterogeneous photocatalysts</td>
<td>Fatma Nur Parın, Yalova University</td>
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**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

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<td>14:10-14:30</td>
<td>Solute effect on grain boundary migration in ultrafine/nanostructured materials</td>
<td>Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK</td>
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<td>14:30-14:50</td>
<td>Application of ultra-thin flexible glass sheets to microfluidic devices</td>
<td>Yo Tanaka, RIKEN, Japan</td>
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<td>14:50-15:10</td>
<td>Nanoscale strategies towards development of advanced Mn-based permanent magnets</td>
<td>Felix Jimenez-Villacorta, Materials Science Institute of Madrid (ICMM-CSIC), Spain</td>
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<td>15:10-15:30</td>
<td>Sialon nano-composites matrix reinforced by cubic boron nitride prepared by using spark plasma sintering</td>
<td>Abbas Saeed Hakeem, King Fahd University of Petroleum &amp; Minerals, Saudi Arabia</td>
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15:30-15:50  Title: Segregation of ions in deliquesced droplets of alkali halide nano-crystals on SiO₂
Kenta Arima, Osaka University, Japan

15:50-16:10  Title: Nanomechanics with nanotubes and fullerene-like-WS₂ (MoS₂)
Reshef Tenne, Weizmann Institute, Israel

Coffee Break 16:10-16:25 @ Foyer

16:25-16:45  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

16:45-17:05  Title: On the peculiar mechanical and tribological behavior of polymer nanocomposites with nanotubes of WS₂ and nanowires of Mo₆S₁₈I₈
Johann G Meier, ITAINNOVA Instituto Tecnológico de Aragón, Spain

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Materials Chemistry

April 24-26, 2017  Frankfurt, Germany

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