Tentative Program

6th International Conference and Exhibition on

MATERIALS SCIENCE AND CHEMISTRY
May 17-18, 2018  Rome, Italy

Theme: “An Insight into the research aspects of Chemistry for the intuition of Materials Syntheses and Processing”

**For Available Speaker Slots**

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https://materialschemistry.conferenceseries.com/
## Tentative Program

### Day 1 May 17, 2018

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<th>Registrations</th>
<th>Olimpica 2</th>
<th>Opening Ceremony</th>
<th>Keynote Forum</th>
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</table>

**Title:** Surface multi-functionalisation of carbon fibres by novel plasma surface engineering technologies  
**Speaker:** Hanshan Dong, University of Birmingham, UK

**Title:** Jumping crystals: Controlled giant thermoelastic deformation of an organic molecular crystal  
**Speaker:** Theo Rasing, Radboud University, The Netherlands

**Title:** Design of metal-to-metal charge-transfer chromophores for visible-light activation of oxygen-evolving Mn oxide catalysts in a polymer film  
**Speaker:** Akira Yamaguchi, Tokyo Institute of technology, Japan

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### Keynote Forum

**Opening Ceremony**

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### Olimpica 2

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### Keynote Presentation slots are available

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### Group Photo

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### Sessions: Materials Science and Chemistry | Materials Science and Engineering

**Title:** Orientation studies of endohedral nitrogen fullerenes and their water-solubilization; progress and opportunities  
**Speaker:** Kyriakos Porfyakis, University of Oxford, UK

**Title:** Surface engineering of soda lime silicate glass under thermal poling process for hardness reinforcement  
**Speaker:** Fargin Evelyne, ICMCB-CNRS-University of Bordeaux, France

**Title:** Correlation of oxygen defects with surface Lewis acidity and catalytic properties of hybrid MoO3/SBA-15 catalysts  
**Speaker:** Jin An Wang, National Polytechnico Institute, Mexico

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### Keynote Presentation slots are available

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### Speaker Presentation slots are available

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### Sessions: Materials Chemistry in Developing Areas | Materials Synthesis and Characterization | Polymeric Materials

**Title:** Functionalization of MnO2 as a water oxidation catalysts in terms of the redox chemistry of Mn  
**Speaker:** Akira Yamaguchi, Tokyo Institute of technology, Japan

**Title:** Synthesis of novel copolymer based butylimidazolium ionic liquid and polybenzimidazole as anion exchange membrane for fuel cell application  
**Speaker:** Amina Ouadah, Beijing Institute of Technology, China

**Title:** Synthesis and characterization of supramolecules and its applications as a chemosensor for drugs  
**Speaker:** Kiramat Shah, University of Swat, Pakistan

**Title:** Electrochemical behavior study of salicylic acid following azo dye formation with 2,4-dinitrophenylhydrazine: Analytical evaluation  
**Speaker:** W. Boumya, University of Hassan, Morocco

**Title:** A functional approach to solubility parameter computations  
**Speaker:** Dave Boucher, College of Charleston, South Carolina

**Title:** Development of method for quantitative determination of Bromelain in gel formulation  
**Speaker:** Nana Gorgaslidze, Tbilisi State Medical University, Georgia

**Title:** A new hydrometallurgical process involving mechanochemical conversion with reagent  
**Speaker:** Seda CETINTAS, Kocaeli University, Turkey

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**https://materialschemistry.conferenceseries.com/registration.php**
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<tr>
<th>Title</th>
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<tr>
<td>Simple green synthesis of amino acid functionalised CdTe/CdSe/ZnSe core-multi shell with improved cell viability for cellular imaging</td>
<td>Lenaic Lartigue, University of Nantes, France</td>
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<tr>
<td>Development of an epoxy nanocomposite coating based on hyperbranched polymer-modified graphene oxide: Study of the performance enhancement</td>
<td>Oluwatobi S Oluwafemi, University of Johannesburg, South Africa</td>
</tr>
<tr>
<td>Magnetic nanoparticles: The effect of chemico-physical parameters on their fundamental and biomedical applicative properties</td>
<td>Layaa Ghazimoradi, Institute for Color Science and Technology (ICST), Iran</td>
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<tr>
<td>Heavy metal ions adsorption from waste waters using phosphonate metal organic frameworks</td>
<td>Paolo Arosio, University of Milan, Italy</td>
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<tr>
<td>Optimization of mechanochemical modification process of a lignocellulosic biomass waste for adsorption applications</td>
<td>Aurelia Visa, Institute of Chemistry Timisoara, Romania</td>
</tr>
<tr>
<td>Development of an epoxy nanocomposite coating based on hyperbranched polymer-modified graphene oxide: Study of the performance enhancement</td>
<td>Elif CERRAHOGLU, Kocaeli University, Turkey</td>
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<tr>
<td>Mesoporous CeO2-ZrO2-Based Mixed Oxides for Automotive Catalysis</td>
<td>Anatoly Bortun, PIDC, USA</td>
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<tr>
<td>Novel low-dimensional mixed-valent transition metal chalcogenides discovered by exploratory synthesis</td>
<td>Mihai I. Sturza, Leibniz Institute for Solid State and Materials Research, Germany</td>
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<tr>
<td>Title</td>
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<tr>
<td>Scaling up the synthesis of a hydroxyquinoline functionalized calix[4]arene — a designer molecule for selective rare earth extraction</td>
<td>Quirina Roode-Gutzmer, Freiberg University of Mining and Technology, Germany</td>
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<tr>
<td>Characterization of bis(indolyl) methane dye loaded human and bovine serum albumins immobilized magnetic nanoparticles for drug delivery systems</td>
<td>Roghaye Firooz, University of Guilan, Iran</td>
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<td>Roghaye Firooz, University of Guilan, Iran</td>
</tr>
<tr>
<td>Title: A joint spectrochemical, chemometrics and DFT/TD-DFT analysis of the ZnII, CuII and FeII metal ions complexation by MTB in aqueous solution</td>
<td>Jeong-Hoon Kim, Korea Research Institute Of Chemical Technology, South Korea</td>
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<tr>
<td>Title: Steroidal oximes modified by N-protected amino acids</td>
<td>Taiebeh Tamoradi, University of Kurdistan, Iran</td>
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<tr>
<td>Title: Synthesis and Characterization of Ultra-Thin and Ultra-Highly Conductive Poly(3,4-ethylenedioxythiophene) Nanofilm</td>
<td>Taiebeh Tamoradi, University of Kurdistan, Iran</td>
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<tr>
<td>Title: Synthesis of α-steroidal[17,16-d]pyrazolines</td>
<td>Nanuli Sh Nadaraia, Tbilisi State Medical University, Georgia</td>
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<tr>
<td>Title: Copper Sulfide nanocrystals for efficient photothermal ablation of tumor cells</td>
<td>Zhiyong Zheng, Technical University of Denmark, Denmark</td>
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<td>Title: Separation of by-product gases in steel industry for carbon resources utilization by semi-alicyclic polyimide membranes</td>
<td>Nana Gorgaslidze, Tbilisi State Medical University, Georgia</td>
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<td>Title: The lipid composition of some plants growing in Georgia</td>
<td>Nana Gorgaslidze, Tbilisi State Medical University, Georgia</td>
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<td>Title: Phenalenyl-like substructures in fullerene molecules</td>
<td>Ayrat R Khamatgalimov, Arbusov Institute of Organic and Physical Chemistry, Russia</td>
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<td>Title: Synthesis of 5α-androstane series</td>
<td>Nana N Barbakadze, Tbilisi State Medical University, Georgia</td>
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<tr>
<td>Title: Catalytic synthesis of alkylpyrazines over mixed oxides obtained from LDHs materials</td>
<td>Florina Teodorescu, Center for Organic Chemistry of Romanian Academy, Romania</td>
</tr>
<tr>
<td>Title: Separation of by-product gases in steel industry for carbon resources utilization by semi-alicyclic polyimide membranes</td>
<td>Nana Gorgaslidze, Tbilisi State Medical University, Georgia</td>
</tr>
<tr>
<td>Title: Synthesis of hydrazones of 5α-androstane series</td>
<td>Nana N Barbakadze, Tbilisi State Medical University, Georgia</td>
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Renowned Speakers

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Country</th>
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<tbody>
<tr>
<td>Hanshan Dong</td>
<td>University of Birmingham</td>
<td>UK</td>
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<tr>
<td>Theo Rasing</td>
<td>Radboud University</td>
<td>The Netherlands</td>
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<tr>
<td>Jon Binner</td>
<td>University of Birmingham</td>
<td>UK</td>
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<tr>
<td>Alain Tressaud</td>
<td>ICMCB-CNRS-University of Bordeaux</td>
<td>France</td>
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<tr>
<td>Akira Yamaguchi</td>
<td>Tokyo Institute of technology</td>
<td>Japan</td>
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<tr>
<td>Kyriakos Porfyakis</td>
<td>University of Oxford</td>
<td>UK</td>
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<tr>
<td>Fargin Evelyne</td>
<td>ICMCB-CNRS-University of Bordeaux</td>
<td>France</td>
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<tr>
<td>Shouxun Ji</td>
<td>Brunel University London</td>
<td>UK</td>
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<tr>
<td>Takeo Tomiyama</td>
<td>Hitachi Chemical Co., Ltd.</td>
<td>Japan</td>
</tr>
<tr>
<td>Lenaic Lartigie</td>
<td>University of Nantes</td>
<td>France</td>
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Call for Abstract
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E-Poster
https://materialschemistry.conferenceseries.com/eposter-presentation.php

Note: Workshops and Symposia slots are available. To book slot for Workshop and Symposium send us the proposal.
Glimpses of Materials Chemistry Conferences

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Glimpses of Materials Chemistry Conferences

https://materialschemistry.conferenceseries.com/registration.php
• Materials Science and Chemistry
• Materials Science and Engineering
• Materials Chemistry in Developing Areas
• Materials Synthesis and Characterization
• Analytical Techniques and Instrumentation in Materials Chemistry

• Polymeric Materials
• Nanomaterials
• Inorganic Materials Chemistry
• Organic Materials Chemistry
• Applied Materials Chemistry
• Materials Chemistry and Physics
• Science and Technology of Advanced Materials

Best Poster Award
You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster.
• Judges will even evaluate the student’s enthusiasm towards their study, interest and knowledge in the area of their research.
• The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement.
• Apart from the judging time you may also be present at the poster to share your research with interested delegates.

Young Researchers Forum
• Present your research through oral presentations.
• Learn about career development and the latest research tools and technologies in your field.
• This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research.
• Develop a foundation for collaboration among young researchers.
• The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe.
• Interact and share ideas with both peers and mentors.

General Queries
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Rome, Italy

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Best Tourist Destinations in Rome

- Trevi Fountain
- Vatican Museums
- Roman Forum
- St. Peter's Basilica
- Castel Sant'Angelo
- Pantheon
- Spanish Steps
- Piazza Navona
- Villa Borghese gardens

https://materialschemistry.conferenceseries.com/registration.php
Day 1  July 13, 2017

Registrations

Sylt 3

Opening Ceremony

Keynote Forum

Introduction

Selected applications of molecular spectroscopy in cultural heritage studies
Ian S Butler, McGill University, Canada

Strategies for materials development in the field of solar light-driven water splitting
Sandra Luber, University of Zurich, Switzerland

Group Photo

Networking & Refreshments Break @ Sylt Foyer

Sessions:
- Materials Science and Engineering
- Materials Chemistry in Developing Areas
- Materials Synthesis and Characterization

Session Chairs:
- Patrick S Grant, Oxford University, UK
- Alain Demourgues, University of Bordeaux, ICMCB-CNRS, France
- Session Co-chair: Stéphane Cordier, Institute of Chemical Sciences of Rennes, CNRS, France

Session Introduction

Title: Novel manufacturing and materials combinations for structured electrodes with improved energy storage performance
Patrick S Grant, Oxford University, UK

Title: DFT study on the partial oxidation mechanism of benzyl alcohol to benzaldehyde by $O_2$ on TiO$_2$ surface under visible-light irradiation
Hisayoshi Kobayashi, Kyoto Institute of Technology, Japan

Title: Anions tied up in a molecular knot
Rana A Bilbeisi, American University of Beirut, Lebanon

Title: Ir catalyzed asymmetric tandem reaction of meso-diols
Takeyuki Suzuki, Osaka University, Japan

Title: Inorganic metal atom clusters as phosphorescent dyes for the design of hybrid copolymers and nanomaterials
Stéphane Cordier, Institute of Chemical Sciences of Rennes, CNRS, France

Lunch Break @ Restaurant Rienäcker

Title: New cerium and praseodymium-based oxides as redox catalysts
Alain Demourgues, University of Bordeaux, ICMCB-CNRS, France

Title: Mechanochemical synthesis: Novel materials for magnetic cooling applications
V P Balema, Ames Laboratory, US DOE, USA

Title: The heterogeneous distribution of the transition metal oxidation states controls the magnetic and electronic properties of perovskite related oxides
Olivier Toulemonde, University de Bordeaux, ICMCB-CNRS, France

Video Presentation

Title: Analysis and structural characterization of pigments and materials used in Nicolae Grigorescu heritage paintings
Mihaela Olaru, Petru Poni Institute of Macromolecular Chemistry, Romania

Networking & Refreshments Break @ Sylt Foyer
Young Researchers Forum

Title: Investigations on properties of polyhedral oligomeric silsesquioxane (POSS) and halloysite nanotubes (HNT) reinforced polyurethane elastomer hybrid nano-composites
Alinda Oyku Akar, Ravago R&D Center, Turkey

Title: Solubilization of phosphate minerals using organic acids and implications on rare earth processing
Daniel E Lazo, Curtin University, Australia

Title: Protein adsorption from aqueous solution by alumina supports: A new process for enzyme recovery and reuse
Razieh Sadraei, University of Torino, Italy

Title: Intramolecular locked dithioalkyl bithiophene based semiconductors for high performance organic field effect transistors
Sureshraju Vegiraju, National Central University, Taiwan

Special Talk: Highlight of spark plasma sintering effect through the structural study and luminescence properties of YNbO$_3$:Eu$^{3+}$
Véronique Jubera, University of Bordeaux, ICMCB-CNRS, France

Panel Discussion

Day 2 July 14, 2017

Sylt 3

Sessions: Polymer Materials and Technology | Applied Materials Chemistry | Materials Chemistry and Physics | Nanomaterials

Session Chair: Hwan Kyu Kim, Korea University, South Korea
Session Co-chair: P Hemalatha, Qatar University, Qatar

Session Introduction

Title: Infrared and Raman spectroscopic study of the effect of high mechanical pressures on selected organometallic complexes embedded in poly(methylmethacrylate)
Ian S Butler, McGill University, Canada

Title: Inorganic nanotubes and fullerene-like nanoparticles: Progress report
Reshef Tenne, Weizmann Institute, Israel

Title: Organic and polymeric semiconductor materials for commercially useful dye-sensitized solar cells
Hwan Kyu Kim, Korea University, South Korea

Title: Design and synthesis of hybrid nano-objects of unconventional morphologies
M Tréguer-Delapierre, University of Bordeaux, ICMCB-CNRS, France

Networking & Refreshments Break @ Sylt Foyer

Poster Presentations @ Sylt Foyer

Poster Judge: M Tréguer-Delapierre, University of Bordeaux, ICMCB-CNRS, France

Title: Synthesis of silver vanadates (AgVO$_3$, Ag$_3$VO$_4$, and Ag$_4$V$_2$O$_7$) by controlled hydrothermal method and their photocatalytic properties
Chung-Shin Lu, National Taichung University of Science and Technology, Taiwan
Title: Synthesis and characterization of conductive core-shell Ag-polystyrene latex particles used as fillers in anisotropic conductive films
Chia-Fen Lee, Chia Nan University of Pharmacy and Science, Taiwan

Title: Polymerization of N-1-naphtylacrylamide revisited
Valeria Pozzoli, University of Buenos Aires, Argentina

Title: Mg$^{2+}$ doped nano-hydroxyapatite/chitosan: Synthesis, characterization and study on bio-properties
Mina Samadipour, K N Toosi University of Technology, Iran

Title: The effect of catalyst preparation for the competitive hydrogenation of an octanal/octene mixture using Cu–SCILL catalysts
Letisha Deeplal, University of KwaZulu-Natal, South Africa

Title: State of the art on laser sealing of zirconia-based plasma sprayed thermal barrier coatings
Maryam Ali Bash, University of Technology, Iraq

Title: Enhancement of photovoltaic characteristics of Si nanostructure via metal-assisted etching
Falah A H Mutlak, University of Baghdad, Iraq

Sessions: Current Innovations in Materials Chemistry | Research Aspects of Materials Chemistry | Role of Graphene in Advanced Materials
Session Chair: Janah Shaya, University of Strasbourg, France
Session Co-chair: Yan Jiao, University of Adelaide, Australia

Session Introduction

Title: Crystallite size, composition and structural feature correlations and their impact on opto-electronic properties of inorganic oxides
Manuel Gaudon, University of Bordeaux, France

Title: Crystalline characterization in atomistic simulation by predominant and cumulative atomic common neighborhood perspective
Ali Radhi, University of Toronto, Canada

Title: Electronic properties of graphene on metal substrates
Elena Voloshina, Humboldt University of Berlin, Germany

Networking & Refreshments Break @ Sylt Foyer

Title: Towards liquid optoelectronics
Janah Shaya, University of Strasbourg, France

Title: Evaluation of doped graphene materials for electrochemical hydrogen evolution reaction and oxygen reduction reaction
Yan Jiao, University of Adelaide, Australia

Title: Effect of laser sealing on hot corrosion resistance of ceria-yttria stabilized zirconia thermal barrier coating exposed to eutectic vanadium pentoxide-sodium sulfate
Maryam Ali Bash, University of Technology, Iraq

Title: How to highlight the history of a material through the registration of luminescence properties
Véronique Jubera, University of Bordeaux, ICMCB-CNRS, France

Video Presentation

Title: How green is green nano?
Reshma karkera, A J Institute of Dental Sciences, India

Awards & Closing Ceremony
Bookmark your dates

6th International Conference and Exhibition on

Materials Science and Chemistry

March 22-23, 2018    London, UK

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Website: materialschemistry.conferenceseries.com
Day 1                March 31, 2016

Melia Meeting 4 & 5

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: 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 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 Joaquin 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,3SiC,2 to He/H irradiation: Elaboration from first-principles calculation
Yuexia Wang, Fudan University, China

Day 2 April 01, 2016
Melia Meeting 4 & 5

Keynote Forum

Reshef Tenne
Weizmann Institute, Israel
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

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

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 Diaz, 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 Garcia-Martín, University of Seville, Spain

Lunch Break: @ Restaurant
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 Abu-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: Silver nanoclusters doped in mordenite zeolite as photocatalysts toward pesticides
Narcisa Laura Marangoci, Petru Poni Institute of Macromolecular Chemistry, Romania

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 electrospray chromatography 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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Website: materialschemistry.conferenceseries.com
Scientific Program

Day 1                     September 14, 2015

Continental Ballroom 6-8

Opening Ceremony

Keynote Forum

Introduction
John Littleton
University of Kentucky, USA
Lothar Brecker
University of Vienna, Austria

Special Session

Title: Green Chemistry: An opportunity for growth and competitive advantage
John C Warner, Warner Babcock Institute for Green Chemistry, USA

Networking & Refreshment Break @ Foyer

Track 1: Basic Principles and New Trends in Green Chemistry
Track 3: Green Synthesis-Designing the Starting Materials
Track 4: Green Catalysis
Track 6: Green Metrics and Measurements

Session Chair: Joseph M Fortunak, Howard University, USA
Session Co-Chair: Dequan Xiao, University of New Haven, USA

Session Introduction

Title: Green pharmaceutical chemistry: Target-directed evolution of plant secondary metabolism
John Littleton, University of Kentucky, USA
Title: Transition metal catalysis for non-directed C-H functionalization
Marion Heidi Emmert, Worcester Polytechnic Institute, USA
Title: Green chemistry and global access to medicines: New chemistry for access to HIV, Malaria, and Hepatitis medicines
Joseph M Fortunak, Howard University, USA
Title: Rapid catalyst screening using a high pressure, Tandem micro-reactor GC/MS
Bob Freeman, Frontier Laboratories Ltd., Japan
Title: Green chemistry in higher education
Amy S Cannon, Beyond Benign, USA
Title: Recent developments of the fixation of atmospheric co₂ by transition metals and lanthanide complexes
Salah S Massoud, University of Louisiana at Lafayette, USA

Lunch Break @ Continental Ballroom 2-4

Title: Exploring the mildest thermodynamic conditions for the inverse design of hydrogenation catalysts
Dequan Xiao, University of New Haven, USA
Title: Efficient cubane catalysts for artificial water-splitting
Sandra Luber, University of Zurich, Switzerland
Title: SnO₂-PbS nanocomposites and hetero structures: Fabrication, structures and applications
Arik Kar, University of Cambridge, UK
Title: The contribution of photochemistry and photocatalysis to Green Chemistry
Angelo Albini, University of Pavia, Italy
Title: Practical catalytic hydrogenation
Xumu Zhang, The State University of New Jersey, USA
Title: Asymmetric heterogeneous catalysts based on copper(II) complexes with bis(oxazoline) ligands
Ana Rosa Silva, Aveiro University, Portugal
Title: Green chemistry in niche applications: Development of “green” photoresists
Frank Wiesbrock, Polymer Competence Center Leoben, Austria
Title: Pulicaria glutinosa plant extract: A green and ecofriendly reducing agent for the preparation of highly reduced graphene oxide
Abdulrahman Al-Warthan, King Saud University, KSA

Title: Leaf extract mediated Green synthesis of silver nanoparticles from Phyllanthus amarus: As an antibacterial agent against wide range of microbes
Jaya Parkash Yadav, M.D. University, India

Title: Biogenic preparation of ZnO nanoparticles reduced from Ocimum tenuiflorum and their antioxidant activity
B Deva Prasad Raju, Sri Venkateswara University, India

Title: Facile and eco-friendly method for the synthesis of magnesium oxide nanoparticles and their antioxidant properties
Nannepaga John Sushma, Sri Padmavati Women's University, India

Title: Green synthesis of Ag, Au and Au-Ag bimetallic nanoparticles using C. albidum for catalytic application in electro-oxidation of methanol
Kehinde Oluseun Sodeinde, Federal University Oye-Ekiti, Nigeria

Title: Synthesis, antibacterial, cytotoxicity and sensing properties of biopolymer-capped silver nanoparticles
Samuel Oluwatobi Oluwafemi, University of Johannesburg, South Africa

Title: Suzuki-Miyaura Cross coupling reactions in water: New hydrophilic ligand scaffolds from Pincer compounds to cocoa beans
David Morales-Morales, Instituto de Química, Mexico

Panel Discussions

Day 2 September 15, 2015
Continental Ballroom 6-8

Keynote Forum

Mahdi M Abu-Omar
Purdue University, USA

Craig L Hill
Emory University, USA

Track 2: Green Chemistry-Chemical Applications from Laboratories to Industries
Track 8: Organic Synthesis in Different States
Track 10: Analytical Methodologies
Track 11: Sustainability and Environmental Safety

Session Chair: Mahdi M Abu-Omar, Purdue University, USA
Session Co-Chair: Miguel Yus, University of Alicante, Spain

Title: Sustainability through catalysis: Making biofuels and chemicals from biomass
Mahdi M Abu-Omar, Purdue University, USA

Title: Natural products as active agents: On the border between sustainable application and risky use
Lothar Brecker, University of Vienna, Austria

Title: Comparing the effect of ecofriendly adsorbents and bioturbators on the concentration pyrene
Febee Louka, University of Louisiana, USA

Networking & Refreshment Break @ Foyer

Title: Green fuel: Selective and water compatible catalysts for solar fuel production
Craig L Hill, Emory University, USA

Title: Atom-economical and sustainable C-N bond formation reactions from alcohols and N-Sources via catalytic hydrogen transfer reactions
Soon H Hong, Seoul National University, South Korea

Title: Atom and step economy in synthetic organic chemistry
Miguel Yus, University of Alicante, Spain

Title: Organolithium chemistry using flow microreactors to Green Chemistry
Aiichiro Nagaki, Kyoto University, Japan

Title: New versatile nanostructured catalysts: From green preparation to environmentally concerned challenges
Capucine Sassoye, UPMC University, France

Title: Sustainable development of infrastructure for electric vehicles
Jennifer L Anthony, Kansas State University, USA

Lunch Break @ Continental Ballroom 2-4

Title: Green capillary electrophoretic stacking of analytes by ionic liquid collapse and its application coupled with ionic liquid based ultrasound assisted liquid extraction to acrylamides determination
Deia Abd El-Hady, University of Jeddah, KSA

Title: Kinetic and thermodynamic profile of solifenacin succinate sorption from wastewater by humic acid-coated TiO₂ nanoparticles: An Approach towards Green Chemistry
Medhat A Shaker, University of Jeddah, KSA
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<td>Sunil Joshi, National Chemical Laboratory, India</td>
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<td>Kwang-Leong Choy, University College of London, UK</td>
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<td>Triazole stabilized transition metal nanoparticles for 4-Nitrophenol reduction</td>
<td>Pengxiang Zhao, China Academy of Engineering Physics, China</td>
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<td>Nanocatalysis and continuous-flow processing: Towards greener and more sustainable chemistry</td>
<td>Mostafa Baghbanzadeh, Harvard University, USA</td>
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<td>The study of trace elements uptake by plants from contaminated waters</td>
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<td>Gelatin wastes for better plant growth</td>
<td>Nabil H Elsayed Khamis, National Research Center, Egypt</td>
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<td>Improvements to the biorefinery model through lignin valorization</td>
<td>Ian Klein, Spero Energy, Inc., USA</td>
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<td>Detection of human osteosarcoma cell (MG-63) and evaluation of the cytotoxicity of cisplatin using the TiO2 nanotubes modified wireless magnetoelastic sensing device</td>
<td>XiLin Xiao, University of South China, China</td>
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<td>Fabrication of miniaturized capillary waveguide integrated fiber-optic sensor for fluoride determination in water</td>
<td>Yan Xiong, Southwest Petroleum University, China</td>
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**Networking & Refreshment Break @ Foyer**

**Poster Presentations @ Continental Ballroom 1-3**

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**Day 3 September 16, 2015**

**Continental Ballroom 6-8**

Track 5: Green Chemical Solvents
Track 7: New Ideas for Non Toxic By-Products
Track 9: Industrial Applications of Green Chemistry
Track 12: Green Chemistry and Engineering
Session Chair: Feng Xu, Merck Research Laboratories, USA
Session Co-Chair: Carmen Najera, University of Alicante, Spain
Session Co-Chair: Abel E Navarro, Borough of Manhattan Community College, USA

Session Introduction
Title: Green by design for process evolution: Asymmetric syntheses of vibegron
Feng Xu, Merck Research Laboratories, USA
Title: Bioremediation of pollutants from pharmaceutical residual waters with marine algae and derivatives
Abel E Navarro, Borough of Manhattan Community College, USA

Workshop By
Title: Greener Fenton processes for removal of persistent organic pollutants from wastewaters
Andreja Zgajnar Gotvajn, University of Ljubljana, Slovenia

Networking & Refreshment Break @ Foyer
Title: Novel lignocellulosic hydrolysate detoxification using pyrochar from digestate: Application for bioethanol fermentation
Monlau Florian, INRA UMR IATE, France
Title: Thermo-chemical pretreatments for the combined recovery of extractives and bioethanol production from Douglas-fir bark
Cecilia Sambusiti, INRA UMR IATE, France
Title: Environmental impact assessment and bio-treatability potential of deep eutectic solvent based on holing chloride
Andreja Zgajnar Gotvajn, University of Ljubljana, Slovenia
Title: SA Metrics-comparative sustainability metrics for biomass and petrochemical succinic acid production and its catalytic Valorization into Y-Butyrolactone
Marcelo E Domine, The Institute of Chemical Technology (ITQ), Spain
Title: Cross-coupling reactions in aqueous media
Carmen Najera, University of Alicante, Spain
Title: Atom economic synthesis of amides
Diego Gamba Sánchez, Universidad de los Andes, Colombia
Title: Production of biofuels and biobased compounds in urban biorefineries: A new paradigm for green chemistry?
Aurore Richel, University of Liege – Gembloux Agro-Bio Tech, Belgium

Lunch Break @ Continental Ballroom 2-4
Title: Alternative ionic liquid-based Lignocellulosic biomass pre-treatment and fractionation towards progress in biorefinery
Ewa Bogel-Lukasik, Universidade Nova de Lisboa, Portugal
Title: Thermodynamics and topological investigations of ternary mixtures containing ionic liquid with organic solvents: Excess molar volumes and excess isentropic compressibilities
Vinod Kumar Sharma, M D University, India
Title: Industrial enzymes used to build green technology for Pre-treatment of textile dyeing
Hui Song, Chinese Academy of Sciences, China
Title: Green chemistry as a tool to prevent pharmaceutical hazards and pollution
Gannu Praveen Kumar, Sahasra Institute of Pharmaceutical Sciences, India
Title: Chromate and arsenate removal by layered double hydroxides-polymer beads
Nguyen Thi Kim Phuong, Institute of Chemical Technology, Vietnam
Title: Shaped carbon nanomaterial supports based heterogeneous catalytic systems for various green routes of chemical synthesis
Vilas M Ravat, Reliance Industries Limited, India

Young Researchers Forum
Title: Conversion of cellulose and lignocellulosic based feedstock over heterogeneous catalysts into liquid polyols
Katarina Fabricovcovà, University of Technology Darmstadt, Germany
Title: From batch to continuous conversion of bio-derived platform chemicals: Aqueous phase hydrogenolysis of furfuryl alcohol into 1,2-pentanediol using a trickle bed reactor
Dominik Gotz, Technical University Darmstadt, Germany
Title: Selective extraction and separation of platinum group metals from chloride media using phosphonium based ionic liquid
Viet Tu Nguyen, Korea University of Science and Technology, Korea
Title: A truly green synthesis of α-aminonitriles via Strecker reaction
Juliana M Velazquez, University of Texas Pan American, USA

Award Ceremony
Networking & Refreshment Break @ Foyer
Bookmark your dates

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Day 1  October 27, 2014

Tropicana Ball Room

Registrations

Opening Ceremony

Keynote Forum

Introduction

Davis L Ford
Texas A&M University, USA

Ashok Kumar Ray
CSIR-National Metallurgical Laboratory, India

Mileva Radonjic
Louisiana State University, USA

S S Amritphale
CSIR-Advanced Materials and Processes Research Institute, India

Group Photo

Track 1: Processing Technologies
Track 2: Petroleum Exploration & Field Management

Session Chair: Ildenize Barbosa da Silva Cunha, University of Campinas, Brazil
Session Co-Chair: Bushra Al-Duri, University of Birmingham, UK

Coffee Break: @ Atrium

Session Introduction

Title: Novel methods for upgrading heavy petroleum products
Russell R Chianelli, University of Texas at El Paso, USA

Title: Mass Spectrometry: A pioneer and renewed tool for petrochemical analysis
Ildenize Barbosa da Silva Cunha, University of Campinas, Brazil

Title: Ethylene–vinyl acetate copolymer-based depressants in marine fuels
Nataliya Kondrasheva, The National Mineral Resources University, Russia

Title: Heterogeneity of fine grained sediment and its hydrocarbon generation and expulsion: An case from Dongying depression
Chen Zhonghong, China University of Petroleum, China

Title: High performance oxygen carriers for chemical looping combustion process by using architectural structure of silica nanoparticles
Yujing Liu, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

Title: Further work on energy-return-on-energy-invested
J C Jones, Kazakh-British Technical University, Kazakhstan

Lunch Break @ Atrium

Title: Plasma processing of fossil fuels
Alexandr Ustimenko, Research Institute of Experimental and Theoretical Physics, Kazakhstan

Title: Production of furans (2,5 dimethylfuran) from furfurals (Hydromethoxyfurfural-HMF) as transport fuel molecules
Bushra Al-Duri, University of Birmingham, UK

Title: Highly active nano-dispersed Ruthenium catalyst for efficient oxidation of p-cymene and cumene C-H bond by molecular oxygen
Peter R Makgwane, Council for Scientific Industrial Research, South Africa

Title: The Ural-African transcontinental oil & gas belt
Valentin Stepanov, The National Mineral Resources University, Russia
Title: Surfactants and other factors input for the control of the reservoir interfacial tension (IFT)
M.S Benzagouta, University Larbi Ben Mhidi OEB, Algeria

Title: Pore volume compressibilities and stress sensitivity of low permeability reservoir rocks in China's oilfield development
Sun He, China University of Petroleum, China

Title: Selective propping of high conductivity fractures
David Dogon, Eindhoven University of Technology, Netherlands

Title: Equilibrium calculations in aqueous carbonation of oil shale waste – sulfur compounds
Kadriann Tamm, Tallinn University of Technology, Estonia

Coffee Break @ Atrium

Track 3: Drilling & Well Completions Challenges
Track 4: Piping and vessel engineering & Transport Phenomena

Session Chair: Byoung Yoon Park, Sandia National Laboratories, USA
Session Co-Chair: Arya Shahdi, Islamic Azad University, Iran

Title: Interbed modeling to predict wellbore damage for big hill strategic petroleum reserve
Byoung Yoon Park, Sandia National Laboratories, USA

Title: Performance investigation of an experimental shale shaker in filtration of low concentration slurry
Saeid Ghaniany Benis, The University of Akron, USA

Title: A robust modeling approach for frictional pressure loss calculation of three phase flow in inclined eccentric annuli
Arya Shahdi, Islamic Azad University, Iran

Title: Study on gas hydrate blocking mechanism and precaution in wellbore of deep water drilling
Xiangfang Li, China University of Petroleum, China

Title: Inhibitive properties comparison of different polyetheramines in water-based drilling fluid
Hanyi Zhong, China University of Petroleum, China

Title: A new understanding on low permeability oilfield development
Tang Wei, Research Institute of Petroleum Exploration and Development (RIPED) of CNPC, China

Cocktails Sponsored by: Journal of Petroleum & Environmental Biotechnology @ Atrium

Day 2   October 28, 2014

Tropicana Ball Room

Track 5: Chemical Applications in Producing Oil and Gas
Track 6: Coal & Natural Gas
Track 7: Challenges and Safety in Petrochemical Industry
Track 8: Energy Economics

Session Chair: Ahmed El-Nahas, El-Menoufia University, Egypt
Session Co-Chair: Xi Liu, Cardiff University, UK

Title: Nanoparticle stabilized emulsions and foams for EOR and LNG spill mitigation
Zhengdong Cheng, Texas A&M University, USA

Title: Development of porous radiant burners for domestic LPG cooking and industrial applications
P Muthukumar, Indian Institute of Technology Guwahati, India

Title: Porous media for improved polymer electrolyte membrane fuel cells
Aimy Bazylak, University of Toronto, Canada

Title: Use of sulfide/phosphate based sorbents for mercury removal from natural gas: A focus on the Hg stabilization
Carla Luciane Manske Camargo, Federal University of Rio de Janeiro, Brazil

Title: Experimental investigation of polymer adsorption-induced permeability reduction in low permeability reservoirs
Hyemin Park, Hanyang University, Korea

Title: First-principles analysis on enzymatic degradation of nylon
Yasuteru Shigeta, University of Tsukuba, Japan

Coffee Break @ Atrium
Title: Effect of miscibility condition for \text{CO}_2 flooding on gravity drainage in 2D vertical system
Jinju Han, Hanyang University, Korea

Title: Thermodynamic and kinetic hydrate inhibition performance of MEG solution and its synergistic inhibition with PVCap
Yutaek Seo, Korea Advanced Institute of Science and Technology, Korea

Title: Deasphaltization of straight-run diesel fuel by using adsorbents under magnetic field
Irana Safari Almas, Institute of Petrochemical Processes of Azerbaijan NAS, Azerbaijan

Title: The use of an ultrasonic technology to increase the productivity of oil wells
Anna Abramova, Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Russia

Title: Experimental study of pulverized coal oxy-combustion and modelling of devolatilization kinetics
Romain Lemaire, Université Lille Nord de France, France

Title: The investigation of catalytic activity of polyoxide catalysts on the base of fiberglass in the reaction of carbon dioxide conversion of methane
Z A Mansurov, Institute of Combustion Problems, Kazakhstan

Title: LES and RANS of pulverized coal oxy-combustion in swirl burners
Andrzej Boguslawski, Czestochowa University of Technology, Poland

Title: Application of non-exhaustive extraction procedures using Tenax® and HPCD to estimate biodegradable contaminant fractions in soil
Kerstin Derz, Fraunhofer Institute for Molecular Biology and Applied Ecology, Germany

Title: E-Neutron scattering studies of catalyst systems at the ISIS neutron spallation Source
Martin Owen Jones, Oxford University, UK

Title: Avoiding gas hydrate problems in Qatar oil and gas industry: Environmentally friendly solvents for gas hydrate inhibition
Nabila Mohamed, Qatar University, Qatar

Title: In-situ transesterification of wet activated sludge under subcritical conditions
Lan Nguyen Phuong Tran, National Taiwan University of Science and Technology, Taiwan

Title: The development of the methods for processing and using of oil sands as the alternative hydrocarbon feedstock
Sultanov F, Al-Farabi Kazakh National University, Kazakhstan

Track 9: Renewable Energy & Feedstock
Session Chair: Abdallah S Berrouk, The Petroleum Institute, UAE
Session Co-Chair: Stella Bezergianni, Centre for Research & Technology Hellas, Greece

Title: Fast pyrolysis of lignin
Hilkka Kenttamaa, Purdue University, USA

Title: Photosynthetic bioenergy utilizing \text{CO}_2: An approach on flue gases utilization for third generation biofuels
Roberto Parra Saldivir, Monterey Institute of Technology and Higher Education, Mexico

Title: Decarbonization of transportation fuels via co-hydroprocessing bio-based feedstocks with petroleum fractions
Stella Bezergianni, Centre for Research & Technology Hellas, Greece

Title: Evaluation of methylic and ethylic biodiesels from Pequi oil (\textit{Caryocar Brasiliense} Camb.) as possible diesel substituents
Marcelo Firmino de Oliveira, Universidade de Sao Paulo, Brazil

Title: Combustion heat release models of biodiesels
Abdullah Abuhabaya, King Abdulaziz University, Saudi Arabia

Title: Biodiesel production from \textit{Acrocomiaaculeata} acid oil by (enzyme/enzyme) hydroesterification process: Use of vegetable lipase and fermented solid as low-cost biocatalysts
Erika Cristina G Agueiras, Federal University of Rio de Janeiro, Brazil

Title: Drying of energy wood by compression
Tuomas Hakonen, Seinäjoki University of Applied Sciences, Finland

Title: Thermochemistry and kinetics of bioalcohols and bioesters as fossil fuel alternatives. \textit{Ab initio} and DFT studies
Ahmed El-Nahas, El-Menoufiya University, Egypt

Title: Thermo gravimetric study of powdered laboratory safety examination gloves
Nasrollah Hamidi, South Carolina State University, USA

Poster Presentations @ Atrium
Title: Fischer-Tropsch synthesis reaction in a novel reactor system of cobalt catalyst coated metallic foam and heat-exchanger type reactor
Jung-II Yang, Korea Institute of Energy Research, Korea

Title: Study of solvent recovery in solvent deasphalting process
Seonju Ahn, Korea University, South Korea

Title: Reforming of methane with carbon dioxide
Kusman Dossymov, Al-Farabi Kazakh National University, Kazakhstan

Title: Green synthesis of Fe nanoparticles for chromate removal
Christiana Mystrioti, National Technical University of Athens, Greece

Title: Investigation of hexavalent chromium removal from polluted soil using electroremediation
Alkaterini Toli, National Technical University of Athens, Greece

Title: Selective viscosifying for conformance control
Joris van Santvoort, Eindhoven University of Technology, The Netherlands

Title: Fracture flow control
Boaz van der Plas, Eindhoven University of Technology, The Netherlands

Title: Vapor-liquid equilibria of the binary system 2-methylfuran + 1-butanol, present in the production of 2,5-dimethylfuran from biomass
Luis A Follegatti-Romero, University of Campinas, Brazil

Title: Production of a solid enzymatic preparation by Rhizomucor miehei from a low-cost agroindustrial residue
Jaqueline Greco Duarte, Federal University of Rio de Janeiro, Brazil

Title: Electrical, optical and structural properties of Ga-Al doped ZnO/Copper/Ga-Al doped ZnO multilayer electrode for thin film solar cells
Kyung Hwan Kim, Gachon University, Republic of Korea

Title: Fracture diagnostics of SRV by well testing and micro-seismic method in tight reservoirs, China
Li Xiaolong Zhao, China University of Petroleum, China

Title: Determination of dynamic deliverability equation for fractured horizontal well in tight gas reservoir
Xiaoliang Dou, China University of Petroleum, China

Title: The mechanisms of gas generation during coal deformation
Xiangji Dou, China University of Petroleum, China

Title: The effect of water salinity on silica dissolution rate and subsequent formation damage during chemical EOR process
Khaled A. Elraies, Universiti Teknologi PETRONAS, Malaysia

Title: Influence of crude oil type and production technology on bitumen fractional composition
Audrius Vaitkus, Vilnius Gediminas Technical University, Lithuania

Title: Study on chemical properties of some bituminous materials
Nader Nciri, Korea University of Technology and Education, Republic of Korea

Title: Agricultural machinery problems on fuel consumption, exhaust emissions and their normative assessment
Antanas Juostas, Konekesko Lietuva, Lithuania

Cocktails Sponsored by: Journal of Chemical Engineering & Process Technology @ Atrium

Day 3 October 29, 2014
Tropicana Ball Room

Track 13: Modeling & Simulation
Track 14: Catalysis Concepts

Session Chair: Renbi Bai, National University of Singapore, Singapore
Session Co-Chair: Joseph Zeaiter, American University Beirut, Lebanon

Session Introduction

Title: Determination of boiling point of petrochemicals by gas chromatography-mass spectrometry and multivariate regression analysis of structural activity relationship
Sayo Fakayode, North Carolina A&T State University, USA

Title: Feedback control over the chlorine disinfection process at a wastewater treatment plant using a smith predictor, a method of characteristics and odometric transformation
Feridun Demir, Osmaniye Korkut Ata University, Turkey

Title: CFD and process simulations of air gasification of plastic wastes in a conical spouted bed gasifier
Abdallah S Berrouk, The Petroleum Institute, UAE
Title: Modelling approaches for the estimation of irreducible water saturation and heterogeneities of the commercial Ashtart reservoir from the Gulf of Gabès, Tunisia
Fatma Taktak, UMS University, Dubai

Title: Liquid phase oxidation of cyclohexane using supported novel metals: Catalytic oxidation or autoxidation?
Xi Liu, Cardiff University, UK

Title: Mathematical modelling of the aqueous phase reforming of sorbitol
Joseph Zeaiter, American University Beirut, Lebanon

Coffee Break @ Atrium

Title: Fixed-bed catalytic wet peroxide oxidation of phenol with titania and Au/titania catalysts in dark
Miron Landau, Ben-Gurion University of the Negev, Israel

Title: Process simulation-based optimization of a commercial amine gas sweetening unit
Abdallah S Berrouk, The Petroleum Institute, UAE

Title: The features of structural transformations of asphaltene molecules during hydro conversion of vacuum residue in the presence of nanosized molybdenum disulfide particles
Olga Zaitceva, Gubkin Russian University of Oil and Gas, Russia

Title: New catalysts for biodiesel of 1st and 2nd generation
Wolfgang F Hoelderich, TCHK Holdenerich-Consultancy, Germany

Title: Foamability and foam stability of several surfactants solutions: The role of salinity and oil presence
Abdulrahman AlQuraishi, King Abdulaziz City for Science and Technology, Saudi Arabia

Title: A four coefficient model for extending the heptanes-plus fraction for gas condensate systems
Raffle Hosein, The University of The West Indies, West Indies

Lunch Break @ Atrium

Track 11: Chemical Reaction Engineering & Applications
Track 12: Processing Technology & Separation Techniques
Track 15: Reservoir Engineering

Session Chair: Romain Lemaire, Université Lille Nord de France, France
Session Co-Chair: Erik Von Harbou, University of Kaiserslautern, Germany

Session Introduction

Title: Operational behavior and reforming kinetics over Ni/YSZ of a planar type pre-reformer for SOFC systems
Van Nhu Nguyen, Forschungszentrum Jülich GmbH, Germany

Title: Analysis of oil sands bitumen pyrolysis based on thermogravimetry and Py-GC/MS
Sangcheol Shin, Korea University, South Korea

Title: Tuning photocatalytic activity of carbon-based assembles by their morphology and surface functionalization
Grigoriy A Sereda, University of South Dakota, USA

Title: Non-equilibrium modelling of simulated moving bed processes for separation of Xylenes in petrochemical industry
Ahmet R Ozdural, Hacettepe University, Turkey

Title: Morphological analysis and optimisation of heterogeneously catalysed reactive distillation of complex chemical systems
Erik Von Harbou, University of Kaiserslautern, Germany

Title: Experimental investigation of the transport mechanism of several gases during the CVD post-treatment of nanoporous membranes
Anastasios Labropoulos, NCSR Demokritos, Greece

Coffee Break @ Atrium

Title: Novel hydrophilic and oleophobic hollow fiber membrane for effective and low fouling oil/water separation applications
Renbi Bai, National University of Singapore, Singapore

Title: Experimental analysis of the sooting tendency of different oxygenated molecules used as additives in a diesel surrogate
Romain Lemaire, Université Lille Nord de France, France

Title: Coarse-grained simulations of Multiphase distribution in porous media, with application for oil and for gas hydrates
David Wu, Colorado School of Mines, USA

Title: Behavior of oxidative amorphous alloy Co$_{72}$Nb$_{24}$B$_4$ on catalytic cracking of methanol to olefin production
Luciano Nascimento, University Pernambuco-UFPE, Brazil

Title: Use alloy quasicrystalline Al$_{62.2}$Cu$_{35.3}$Fe$_{12.5}$ for steam reforming of methanol
Lourdes Cristina Lucena Agostinho Jamshidi, University Pernambuco-UFPE, Brazil
Title: Enhanced oil recovery by injection of nanoemulsion systems
Tereza Neuma de Castro Dantas, Federal University of Rio Grande do Norte, Brazil

Title: Multivariable constrained predictive control of main steam temperature in ultra-supercritical coal-fired power unit
Shi-He Chen, Guangdong Electric Power Research Institute, China

Award Ceremony @ Tropicana Ball Room

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3rd World Congress on Petrochemistry and Chemical Engineering
November 30-December 02, 2015 Atlanta, USA
Proposals are invited for organizing Symposia/Workshops at Conference Series LLC LTD will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to sympsiaconferenceseries.org
### Track 1: Rational Drug Designing

**Session Chair:** Victor J Hruby, University of Arizona, USA  
**Session Co-Chair:** Alexander Heifetz, Evotec (UK) Ltd., UK

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design and investigation of multivalent ligands for the detection and treatment of diseases</td>
<td>Victor J Hruby</td>
<td>University of Arizona, USA</td>
</tr>
<tr>
<td>Structure-based drug discovery for GPCRs: From receptors to ligands</td>
<td>Alexander Heifetz</td>
<td>Evotec (UK) Ltd., UK</td>
</tr>
<tr>
<td>DNA-binding polyamides designed against E1, E2 binding sites of HPV DNA show dramatic anti-HPV activity in cell and tissue culture</td>
<td>James K Bashkin</td>
<td>University of Missouri-St. Louis, USA</td>
</tr>
<tr>
<td>Structure-guided design, synthesis, and evaluation of guanine-derived inhibitors of the eIF4E mRNA-cap interaction</td>
<td>Xiaoqi Chen</td>
<td>Amgen, USA</td>
</tr>
<tr>
<td>The design and discovery of CXCR4 chemokine receptor antagonists through incorporation of GPCR-MedChem based fragments</td>
<td>Larry Wilson</td>
<td>Emory University and Emory Institute for Drug Development, USA</td>
</tr>
<tr>
<td>Understanding the essential requirements for success in structure-based design</td>
<td>Gregory L Warren</td>
<td>OpenEye Scientific Software, USA</td>
</tr>
<tr>
<td>Site Identification by Ligand Competitive Saturation (SILCS): Computational approach for the identification and optimization of ligands targeting proteins, RNA and other macromolecules</td>
<td>Alexander D MacKerell</td>
<td>University of Maryland, USA</td>
</tr>
<tr>
<td>Computer-aided design of glucokinase activators</td>
<td>Meihsia Tu</td>
<td>Pfizer, USA</td>
</tr>
<tr>
<td>Non-competitive regulation of the human proteasome by natural products and natural product inspired scaffolds</td>
<td>Jetze J Tepe</td>
<td>Michigan State University, USA</td>
</tr>
</tbody>
</table>

### Track 2: Computer-Aided Drug Design and Structure Determination

**Session Chair:** Istvan J Enyedy, Biogen Idec, USA  
**Session Co-Chair:** Nicolas Moitessier, McGill University, Canada

<table>
<thead>
<tr>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>New approaches to “Hit” optimization</td>
<td>Istvan J. Enyedy</td>
<td>Biogen Idec, USA</td>
</tr>
<tr>
<td>Integrating computational approaches into high throughput screening for rational drug discovery</td>
<td>Colin MCMartín</td>
<td>Thalidoc, USA</td>
</tr>
<tr>
<td>Using side-chain models derived from atomic resolution X-ray crystallography to enforce force fields which can predict global energy minimum geometries</td>
<td>Regina S Bohaceck</td>
<td>BostondNovo, USA</td>
</tr>
</tbody>
</table>

### Keynote Forum

**Introduction**  
**James K. Bashkin**  
University of Missouri-St. Louis, USA  
**Brian S. J. Blagg**  
The University of Kansas, USA  
**Xiang-Qun (Sean) Xie**  
University of Pittsburgh, USA  
**Tulay Aygan Atesin**  
The University of Texas-Pan American, USA

**Coffeebreak:** @ Foyer

**Forecaster: A computational tool for drug design and discovery developed by experimentalists for experimentalists**  
**Nicolas Moitessier, McGill University, Canada**
Title: Design, synthesis and pharmacological evaluation of novel hybrid compounds to treat sickle cell disease symptoms  
Jean Leandro Dos Santos, State University of Sao Paolo, Brazil
Title: Evaluation of serum levels of cadmium and lead in occupationally exposed painters with administration of probiotic (Lactobacillus pentosus kca 1) supplemented yogurt: A pilot study  
Osadolor H. B, University of Benin, Nigeria
Title: Lipid pattern in serum of patients with type 2 diabetes mellitus  
Ashur S Eljamil, Tripoli University, Libya
Title: What can we expect from new therapeutic strategies in nano-pharmacology and nano-medicine?  
Hans-Christian Siebert, Research Institute for Bioinformatics and Nanotechnology (Ri-B-NT), Germany
Title: Mitochondria specific antioxidants and their derivatives in the context of the drug development for neuro degeneration and cancer  
Gjumrakch Aliiev, GALLY International Biomedical Research Consulting LLC, USA

Poster Presentations @ Carol & Patio
Cocktails Sponsored by Drug Designing: Open Access @ Foyer

Day 3 October 17, 2013
Salon A

Track 10: Receptors and Inhibitors
Session Chair: Prabagaran Narayanasamy, University of Nebraska Medical Center, USA  
Session Co-Chair: Xiang-Qun (Sean) Xie, University of Pittsburgh, USA

Session Introduction
Title: The Hsp90 C-terminal binding site, instructions for and ramifications of inhibition  
Brian S. J. Blagg, The University of Kansas, USA
Title: Inhibition of prostanoid receptor EP2: A novel anti-inflammatory therapy for chronic neurodegenerative and autoimmune diseases  
Thota Ganesh, Emory University School of Medicine, USA
Title: Selective vitamin K2 biosynthesis inhibitors to treat non-replicating Mycobacterium tuberculosis  
Michio Kurosu, University of Tennessee Health Science Center, USA
Title: Inhibitors of fatty acid amide hydrolase (FAAH): SAR and results in pre-clinical pain models  
J. Guy Breitenbucher, Dart Neuroscience LLC, USA

Coffee Break @ Foyer

Title: Discovery of novel bicyclic derivatives to stop the growth of mycobacterium tuberculosis by Inhibiting MenA  
Prabagaran Narayanasamy, University of Nebraska Medical Center, USA
Title: The synthesis of potential inhibitors of panthothenate synthetase  
Kellie L Tuck, Monash University, Australia
Title: Design and synthesis of inhibitors of cysteine protease  
Debatosh Majumdar, Glycoasyn LLC, USA
Title: Inward rectifier potassium channels as emerging drug targets  
Jerod S. Denton, Vanderbilt University School of Medicine, USA
Title: Identification of a new class of SUMO specific protease 2 inhibitors utilizing structure based virtual screening approach  
Ashutosh Kumar, Zhang Initiative Research Unit, RIKEN, Japan
Title: Are D-neurons and trace amine-associated receptor, Type 1 involved in mesolimbic dopamine hyperactivity of schizophrenia?  
Keiko Ikemoto, Fukushima Medical University, Japan

Lunch Break @ Carol & Patio

Title: Harnessing human N-type Ca2+ channel receptor by identifying the atomic hotspot regions for its blocker design  
C. Gopi Mahan, Amrita Vidyapeeth University, India
Title: Discovery of small molecule inhibitors of protein-protein interactions using DNA-encoded chemical libraries  
Niels Jakob Vest Hansen, Vipergen ApS, Denmark
Title: Post-marketing surveillance of active pharmaceutical ingredients in antimalarial drugs used in Malawi  
Ibrahim Chikowe, University of Ghana, Ghana

Award Ceremony

Bookmark your dates

3rd International Conference on  
Medicinal Chemistry & Computer Aided Drug Designing  
August 18-20, 2014  Beijing, China
Proposals are invited for organizing Symposia/Workshops at Conference Series LLC LTD in related areas under the scheme title of your own. These proposals can be sent to respective conference mail ids or to symposia@omicsonline.com
**Opening Ceremony**

### Keynote Forum

**Introduction**

**Guy M. Genin**  
Washington University, USA

**Alex V. Vasenkov**  
CFD Research Corporation, USA

**Eugene P. Goldberg**  
University of Florida, USA

**Stephen J Beebe**  
Old Dominion University, USA

**Coffee Break**

**Track 2: Materials Science & Engineering**

**Session Introduction**

**Title:** Accelerated material design  
Alex V. Vasenkov, CFD Research Corporation, USA

**Title:** Simple models for plastic deformation and slip avalanches: From crystals to bulk metallic glasses to granular materials  
K. A. Dahmen, University of Illinois, USA

**Title:** Plasticity improvement of Zr-based Bulk Metallic Glasses (BMGs) by laser treatment  
P. K. Liaw, The University of Tennessee, USA

**Title:** Electronic and phonon transport in bulk quantum dot engineered semiconductors  
Pierre F. P. Poudeu, University of Michigan, USA

**Title:** High throughput tribometer for friction, wear, and adhesion measurements  
Vivek Kalihari, The Dow Chemical Company, USA

**Lunch Break**

**Title:** Energy of slip nucleation and transmission at grain boundaries  
Michael D. Sangid, Purdue University, USA

**Title:** The materials science of powder sorbents for CO₂ capture at high temperatures  
Steven J Milne, University of Leeds, UK

**Title:** Homogeneity measures in functionally graded materials  
Jerzy Ratajski, Koszalin University of Technology, Poland

**Title:** Structural and dielectric characterization of Nickel-Cobalt oxide nanocomposite  
Raveendran R, Nanoscience Research Laboratory, India

**Title:** Determination of the mechanical properties of carbide composites by spherical instrumented indentation  
Fjodor Sergejev, Tallinn University of Technology, Estonia

**Coffee Break**

**Title:** Thermo-Mechanical large deformation responses of an aluminum alloy processed by Equal Channel Angular Pressing (ECAP)  
Muneer Baig, King Saud University, Kingdom of Saudi Arabia

**Title:** Entrapment of fungus *Rhizomucor tauricus*, removal of Zn (II) from aqueous solution and spectroscopic characterization  
A.V.N Swamy, JNTUniversity, India

**Title:** Potential use of leaf biomass, *Araucaria heterophylla* for removal of Pb⁺²  
Ch. V.R. Murthy, Andhra University, India

**Title:** Effect of bio field treatment on the physical and thermal characteristics of Vanadium pentoxide powders  
Shrinkant Patil, Trivedi Foundation, USA
Title: Evolution of Nickel Silicide contacts in Silicon nanowires during thermal cycling
Alex Katsman, Israel Institute of Technology, Israel

Title: Fixed-free single walled Boron Nitride nanotube based mass sensor
S. P. Harsha, Indian Institute of Technology Roorkee, India

Track 4: Biophysics & Systems Biology

Title: Mechanical and electrical interactions between cardiomyocytes and cardiac myofibroblasts in a model of fibrotic remodeling
Guy M. Genin, Washington University, USA

Title: Biophysics models and applications in the study of polysaccharides
Antonio Peramo, University of Michigan, USA

Title: Aerosols hand book
Lev Ruzer, Lawrence Berkeley National Laboratory, USA

Title: Modulation of the mechanical response of biomolecular complexes by the dynamics of applied tension
Ruxandra I. Dima, University of Cincinnati, USA

Title: Ultrashort laser modification of transparent materials: Synergy of excitation/relaxation kinetics, thermodynamics, and mechanics
Nadezhda M. Bulgakova, University of Southampton, UK

Title: Pulse power ablation of melanoma and hepatocellular carcinoma with nanosecond pulsed electric fields
Stephen J Beebe, Old Dominion University, USA

Title: Management of heavy metals in ground water- A case study
Sampath kumar M. C, B.M.S College of Engineering, India

Cocktail: Sponsored by Journal of Material Sciences & Engineering

Day 2 October 23, 2012

Registrations

Versailles B

Track 1: Nanotechnology & Nanoscience

Title: Atomistic simulations of peptide unfolding and translocation by AAA+ biological nanomachines
George Stan, University of Cincinnati, USA

Title: Application of cellulose nanobiocomposite coating in fruits
Kelen Cristina dos Reis, Universidade Federal de Lavras, Brazil

Title: Green-Nanotechnology based smart composite for structural integrity monitoring
Mohamed Saafi, University of Strathclyde, UK

Title: Shape-dependent oriented scaffolding of plasmonic nanoparticles by topological defects for colloidal dimer self-assembly in liquid crystals
Ivan I. Smalyukh, University of Colorado at Boulder, USA

Title: Electric tweezers
Donglei (Emma) Fan, University of Texas at Austin, USA

Coffee Break

Title: Thermosensitive magnetic nanostructured media for hyperthermia and bioimaging
Karen S. Martirosyan, University of Texas at Brownsville, USA

Title: Fabrication and characterization of well-defined organic nanopillar arrays on surfaces
Hai-Feng Frank Ji, Drexel University, USA

Title: Fibronectin adsorption on electronically nanostructured biomaterial surfaces
Andreas Kortge, University of Rostock, Germany

Title: Structural complexity at nanoscale: From single nanoparticle to membrane
Xiao-Min Lin, Center for Nanoscale Materials, USA

Title: Prospects for engineering semiconductor nanowire materials for optoelectronics
Harry E. Ruda, University of Toronto, Canada

Title: Laterally energy transfer in thin film quantum dot induced via plasmonic effects
Seyed M. Sadeghi, University of Alabama, USA

Lunch Break

Title: p-Type conduction in ZnO nanowires from Sb-Decorated Head-to-Head basal plane inversion domain boundaries
Andrew B. Yankovich, University of Wisconsin Madison, USA

Title: Real-Time probing of nanophasic evolution in solutions
Yugang Sun, Center for Nanoscale Materials, USA

Title: The ionic liquid effect on the preparation of epoxy-silica nanocomposites
Henri S. Schrekker, UFRGS, Brazil

Title: Influence of quality factor on the dynamics of single walled carbon nanotube based mass sensor
Anand Y Joshi, G.H.Patel College of Engineering & Technology, India
| Title: High temperature nanophotonics: Controlling the flow of thermal radiation  
V. Rinnerbauer, Massachusetts Institute of Technology, USA |
| Title: Controlled GeSi nanoislands: Fabrication and properties  
Zhengyang Zhong, Fudan University, China |
| Coffee Break |
| Title: Nanocomposite alternatives to rare-earth permanent magnets  
Everett E. Carpenter, Virginia Commonwealth University, USA |
| Title: Engineered nanopores for protein detection  
Liviu Movileanu, Syracuse University, USA |
| Title: Synthesis and characterization of anti-microbial Ag-TiO$_2$ nano composite particles and their coatings onto 3-D filters  
Cansu Noberi, Yildiz Technical University, Turkey |
| Title: Natural rubber with gold nanoparticles: Estimation of the amount of nanoparticles in a sample using wavelet transforms  
Alexandre Siqueira, Unesp, Brazil |
| Panel Discussion |
| Breakout |
| Track 3: Biomaterials & Biomedical Materials  
Track 8: Nonlinear Dynamics and Chaos |
| Title: Biopolymer-Cell implants and injectable gels for CNS Repair  
Eugene P. Goldberg, University of Florida, USA |
| Title: Use of biomaterials for delivery of chemotrophic proteins in the central nervous system  
Elisa Tamariz, Universidad Veracruzana, Mexico |
| Title: Understanding role of length scale and temperature in indentation induced creep and thermal behavior of Si based materials  
Vikas Tomar, Purdue University, USA |
| Title: Polyoxometalate (POM) nanocluster- Induced phase transition in phospholipid biomembranes  
Y. Elaine Zhu, University of Notre Dame, USA |
| Title: Next generation polymer nanocomposite electrolytes for lithium ion batteries  
Haleh Ardebili, University of Houston, USA |
| Coffee Break |
| Title: Radiopaque polymeric microspheres for clinical applications  
Ketie Saralidze, Maastricht University, Netherlands |
| Title: Modal damping as index of structural quality  
Sofia Panteliou, University of Patras, Greece |
| Title: The next generation of controlled drug delivery devices based on Micro-Electro-Mechanical-Systems (MEMS) and novel integration of biomaterials  
Noel M. Elman, Massachusetts Institute of Technology, USA |
| Title: Mora tree (Maclura tintorea) leaves as a component in polymer  
Svetlana Nikolaeva, Costa Rica’s National University, Costa Rica |
| Title: Sulfonated poly (indene) and PVDF hybrid polyelectrolyte polymer membranes for use in fuel cells  
Deyse Elisabeth Ortiz Suman Carpenter, University of Blumenau, Brazil |
| Panel Discussion |
| Lunch Break |
| Poster Presentations |
| B2B meetings |
| Cocktail: Sponsored by Journal of Material Sciences & Engineering |
| Day 3  
October 24, 2012  
Versailles B |
| Registrations |
| Track 6 : Atomic and Nuclear Physics  
Track 7 : Optics  
Track 9 : Advances in Instrumentation and Techniques  
Track 10: Materials Chemistry |
| Session Introduction |
| Title: Enhancement and recovery in atomic force microscopy images  
Alex Chen, University of North Carolina, USA |
| Title: Smart materials design in non-linear optics for telecommunications  
Jacqueline M. Cole, University of Cambridge, UK |
Title: Hollow sphere of copper oxide microparticle prepared by free template and low temperature hydrothermal method
Kanda Wongwailikhit, Rangsit University, Thailand

Coffee Break

Title: Spin polarized current in Graphene pumped by a THz-Signal
Aziz N. Mina, Beni-Suef University, Egypt

Title: Enhancement of washfastness of the Lemongrass oil treated mosquito repellent Nylon nets by air plasma pretreatment
Hasabo A Muhammad Ahamed, Africa City of Technology, Sudan

Title: Structural, optical, photoconductivity and humidity sensing properties of biocomposite doped Cobalt oxide
Udaya Aruldoss, Anna University, India

Panel Discussion

Lunch Break

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2nd International Conference and Expo on
Materials Science & Engineering

October 15-17, 2013   Las Vegas, USA