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# Tentative Program

2nd International Conference and Exhibition on

# Materials Science and Chemistry

**July 13-14, 2017 Berlin, Germany**

*Theme: "Strategic Approach Leading to Unfolding Tactics in the World of Materials Chemistry"*



## **For Available Speaker Slots**

materialschemistry@chemistryconference.org

| | | | |
|---|---|---|---|
| 19+ Interactive Sessions | 15+ Keynote Lectures | 75+ Plenary Lectures | 5+ Workshops |


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*http://materialschemistry.conferenceseries.com/*

# Tentative Program

**Day 1 July 13, 2017**

**Keynote Forum**

Introduction

**Speaker Presentations**

## Session 1: Materials Science and Engineering | Materials Chemistry in Developing Areas | Formulating Materials Chemistry

**Title: DFT study on the partial oxidation mechanism of benzyl alcohol to benzaldehyde by O2 on TiO2 surface under visible-light irradiation**

**Hisayoshi Kobayashi,** Kyoto Institute of Technology, Japan

**Title: Novel manufacturing and materials combinations for structured electrodes with improved energy storage performance**

**Patrick S. Grant,** Oxford University, UK

**Title: Anions tied up in a molecular knot**

**Rana A. Bilbeisi,** American University of Beirut, Lebanon

**Title: Synthesis of novel materials via hard x-ray photochemistry**

**Michael Pravica,** University of Nevada, USA

**Title: Solubilisation of phosphate minerals using organic acids and implications on rare earth processing**

**Daniel E. Lazo,** Curtin University, Australia

**Title: Integrative Chemistry-based morphosyntheses of advanced porous materials dedicated towar energy conversion and storage**

**Rénal BACKOV,** CRPP-UPR CNRS University of Bordeaux, France

**Title: Assessment of the antifouling effect of exopolysaccharides incorporated into copper oxide-based organic paint**

**Rodrigo de Siqueira Melo,** Federal University of Rio de Janeiro - UFRJ, Brazil

**Title: Adsorption of nisin into layered double hydroxide nanohybrids and in-vitro controlled release**

**Zaineb Bouaziz,** European Institute of Membranes-CNRS, France

## Session 2: Materials Synthesis and Characterization | Insilico Materials Chemistry | Regenerative Materials Chemistry

**Title: How to highlight the history of a material through the registration of luminescence properties**

**Véronique Jubera,** ICMCB-CNRS-University of Bordeaux, France

**Title: Inorganic metal atom clusters as phosphorescent dyes for the design of hybrid copolymers and nanomaterials**

**Stephane Cordier,** Institut des Sciences Chimiques de Rennes-CNRS, France

**Title: New Cerium and Praseodymium-based oxides as redox catalysts**

**Alain DEMOURGUES,** ICMCB-CNRS-University of Bordeaux, France

**Title: Mechanochemical synthesis: Novel materials for magnetic cooling applications**

**V. P. Balema,** Ames Laboratory of US DOE, USA

**Title: Salting-in effect on muscle protein extracted from the giant squid (*Dosidicusgigas*)**

**Weichun Pan,** Zhejiang Gognshang University School of Food and Biotechnology, PRC

**Title: Highlight of spark plasma sintering effect through the structural study and luminescence properties of YNbO3:Eu3+**

**Véronique Jubera,** ICMCB-CNRS-University of Bordeaux, France

| |
|---|
| **Title: Analysis and structural characterization of pigments and materials used in Nicolae Grigorescu heritage paintings** |
| **Mihaela Olaru,** Petru Poni Institute of Macromolecular Chemistry, Romania |
| **Title: The heterogeneous distribution of the transition metal oxidation states controls the magnetic and electronic properties of perovskite related oxides** |
| **Olivier Toulemonde,** ICMCB-CNRS-University of Bordeaux, France |
| **Title: Using fused deposition modeling 3d printing for simplified fabrication of integrated microfluidic devices** |
| **Varlei Rodrigues,** University of Campinas, Brazil |
| **Day 2 July 14, 2017** |
| **Keynote Forum** |
| Introduction |
| **Speaker Presentations** |
| **Session 1: Polymer Materials and Technology \| Applied Materials Chemistry \| Materials Chemistry and Physics \| Nanomaterials** |
| **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 of Science, 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,** ICMCB-CNRS-University of Bordeaux ,France |
| **Title: Dual purpose antimicrobial phase change materials** |
| **Carl M. Lentz,** Microtek Laboratories, USA |
| **Title: The effect of laser penetration depth on photothermal ablation of cancer cells by surface functionalized Fe3O4** |
| **Donglu Shi,** Tongji University School of Medicine, China |
| **Title: Sticky nanopads of crystallizable fluorescent polymers for rapid and sensitive detection of organic pollutants in water** |
| **Guodong Liang,** Sun Yat-sen University, China |
| **Title: Photocatalytic and gas sensing applications for lanthanide-doped/ co-doped Zno nanoparticles** |
| **Sonik Bhatia,** Kanya Maha Vidyalaya, India |
| **Title: Piezoelectric and dielectric properties of poly(vinylidene fluoride) /ZnO nanocomposites** |
| **P. Hemalatha,** Center for Advanced Materials, Qatar University, Qatar |
| **Title: Analysis of the heterogeneous structure of iron oxide/gold nanoparticles and their application in a nanosensor** |
| **Y. Bustami,** University of Waterloo, Canada |
| **Title: Fabrication of conductive trails using 3D printing technology** |
| **Gabriel Gaal,** University of Campinas, Brazil |
| **Title: The effect of synthesis conditions on enzymatic activity of metal ion incorporated enzyme based hybrid nanoflowers** |

| Session 2: Current Innovations in Materials Chemistry \| Research Aspects of Materials Chemistry \| Role of Graphene in Advanced Materials |
|---|
| **Title: Crystalline characterization in atomistic simulation by predominant and cumulative atomic common neighborhood perspective** |
| **Ali Radhi,** University of Toronto, Canada |
| **Title: Crystallite size, composition and structural feature correlations and their impact on opto-electronic properties of inorganic oxides** |
| **Manuel Gaudon,** ICMCB-CNRS-University of Bordeaux, France |
| **Title: Electronic properties of graphene on metal substrates** |
| **Elena Voloshina,** Humboldt University of Berlin, Germany |
| **Title: Thermoelectric materials for power generation** |
| **Li-Dong Zhao,** Beihang University, China |
| **Title: Evaluation of doped graphene materials for electrochemical hydrogen evolution reaction and oxygen reduction reaction** |
| **Yan Jiao,** The University of Adelaide, Australia |
| **Title: The effects of gold nanoparticles obtained from the thermolysis ofn-hexanethiolate-stabilized gold nanoparticles on isobutaneoxidation over metal oxide catalysts** |
| **Hanadi A. Almukhlifi,** Tabiah University, KSA |
| **Title: Recovery of direct dyes from spent dyeing and soaping liquors by macro-reticular ion exchange resins** |
| **Mervette El Batouti,** Alexandria University, Egypt |
| **Title: Chemical interaction in the B-P system at high pressure: A route to new advanced materials** |
| **Vladimir L Solozhenko,** CNRS, France |
| **Title: Packing structures and electronic properties of Si-Ge alloy clusters from DFTB calculations** |
| **Lin Zhang,** Northeastern University, China |
| **Speaker opportunities available, submit your abstract online @ http://materialschemistry.conferenceseries.com/abstract-submission.php For more details, contact Monika Seles @ materialschemistry@conferenceseries.net** |
| *****Note: Tentative Program has been designed with the projected Speakers Names and Titles. Program may be subjected to change*** |

## *Media Partners & Collaborators*

# Renowned Speakers



**Ian S. Butler**
McGill University
Canada



**Hisayoshi Kobayashi**
Kyoto Institute of Technology
Japan



**Reshef Tenne**
Weizmann Institute of Science
Israel



**Patrick S Grant**
Oxford University
UK



**Elena Voloshina**
Humboldt University of Berlin
Germany



**Mona TREGUER-DELAPIERRE**
ICMCB-CNRS-University of Bordeaux
France



**Alain DEMOURGUES**
ICMCB-CNRS-University of Bordeaux
France



**Stephane Cordier**
Institut des Sciences Chimiques de Rennes-CNRS, France



**Hwan Kyu Kim**
Korea University
South Korea



**V P Balema**
Ames Laboratory of US DOE
USA

## Call for Abstract

*http://materialschemistry.conferenceseries.com/call-for-abstracts.php*

## Registration

*http://materialschemistry.conferenceseries.com/registration.php*

## Abstract Submission

*http://materialschemistry.conferenceseries.com/abstract-submission.php*

## E-Poster

*http://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 Chemistry Conferences



























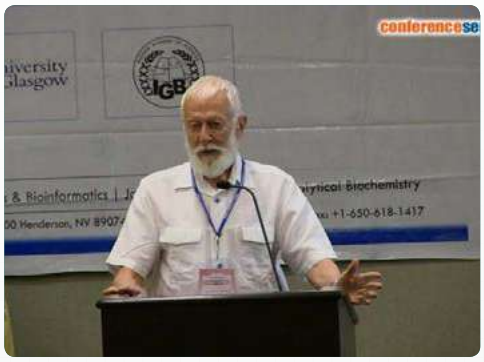






# Glimpses of Chemistry Conferences
























# Major Scientific Sessions

- Materials Science and Engineering
- Materials Chemistry in Developing Areas
- Formulating Materials Chemistry
- Materials Synthesis and Characterization
- Insilico Materials Chemistry
- Regenerative Materials Chemistry
- Polymer Materials and Technology
- Applied Materials Chemistry
- Materials Chemistry and Physics
- Nanomaterials
- Current Innovations in Materials Chemistry
- Research Aspects of Materials Chemistry
- Role of Graphene in 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

**materialschemistry@chemistryconference.org**

## Conference Venue

Berlin, Germany


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# Best Tourist Destinations in Berlin



Berlin Cathederal



Berlin Wall



Brandenburg-Gate



Charlottenburg Palace



Memorial to the Murdered Jews of Europe



Museum Island



Neues Museum



Pergamon Museum



Reichstag building

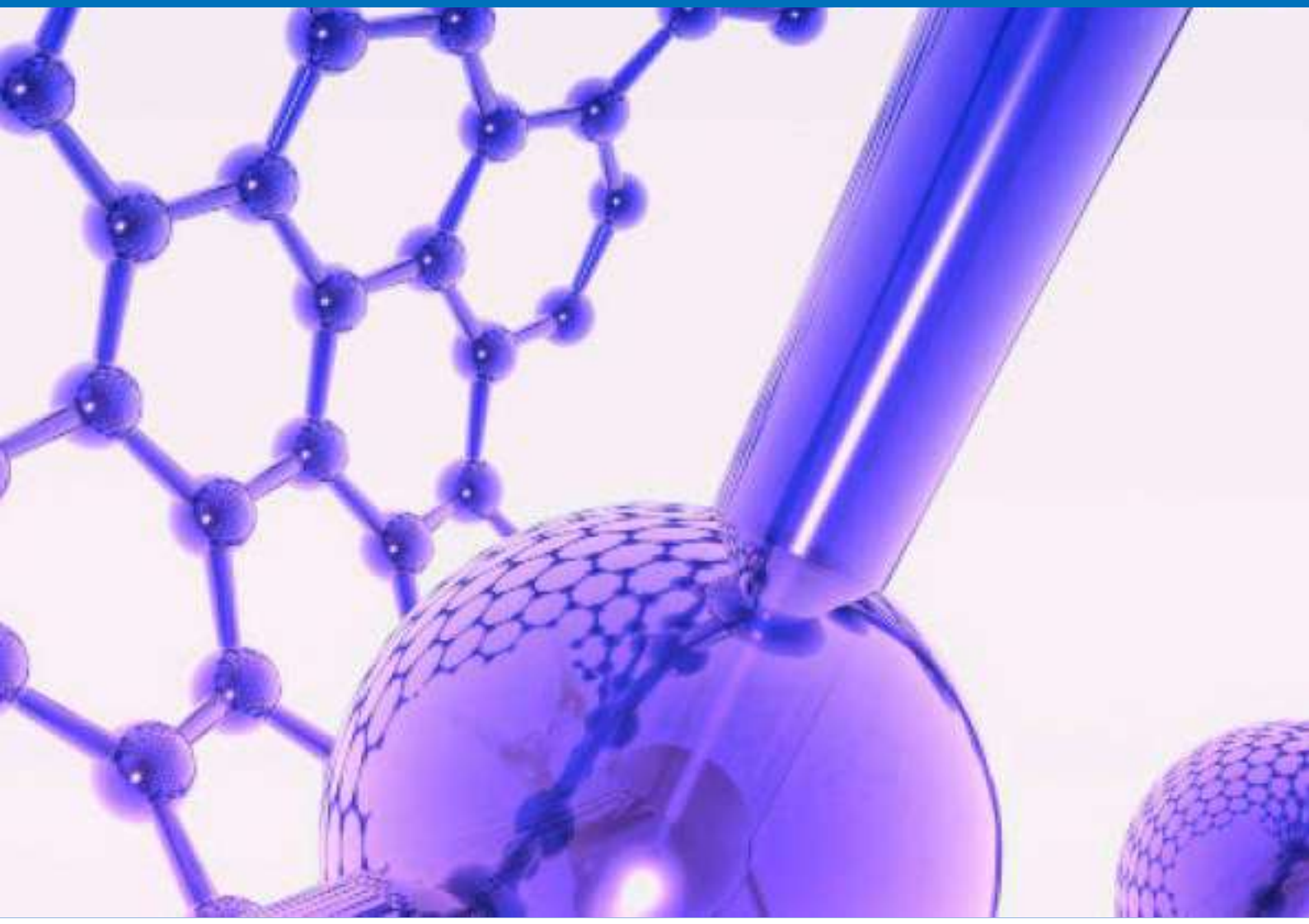
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Scientific Program

International Conference and Exhibition on

# Materials Chemistry

March 31-April 01, 2016 Valencia, Spain



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Registrations

Melia Meeting 4 & 5

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# 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 $NaYF_4$ 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 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 $Ti_3SiC_2$ 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

**Session Introduction**

**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 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 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: 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

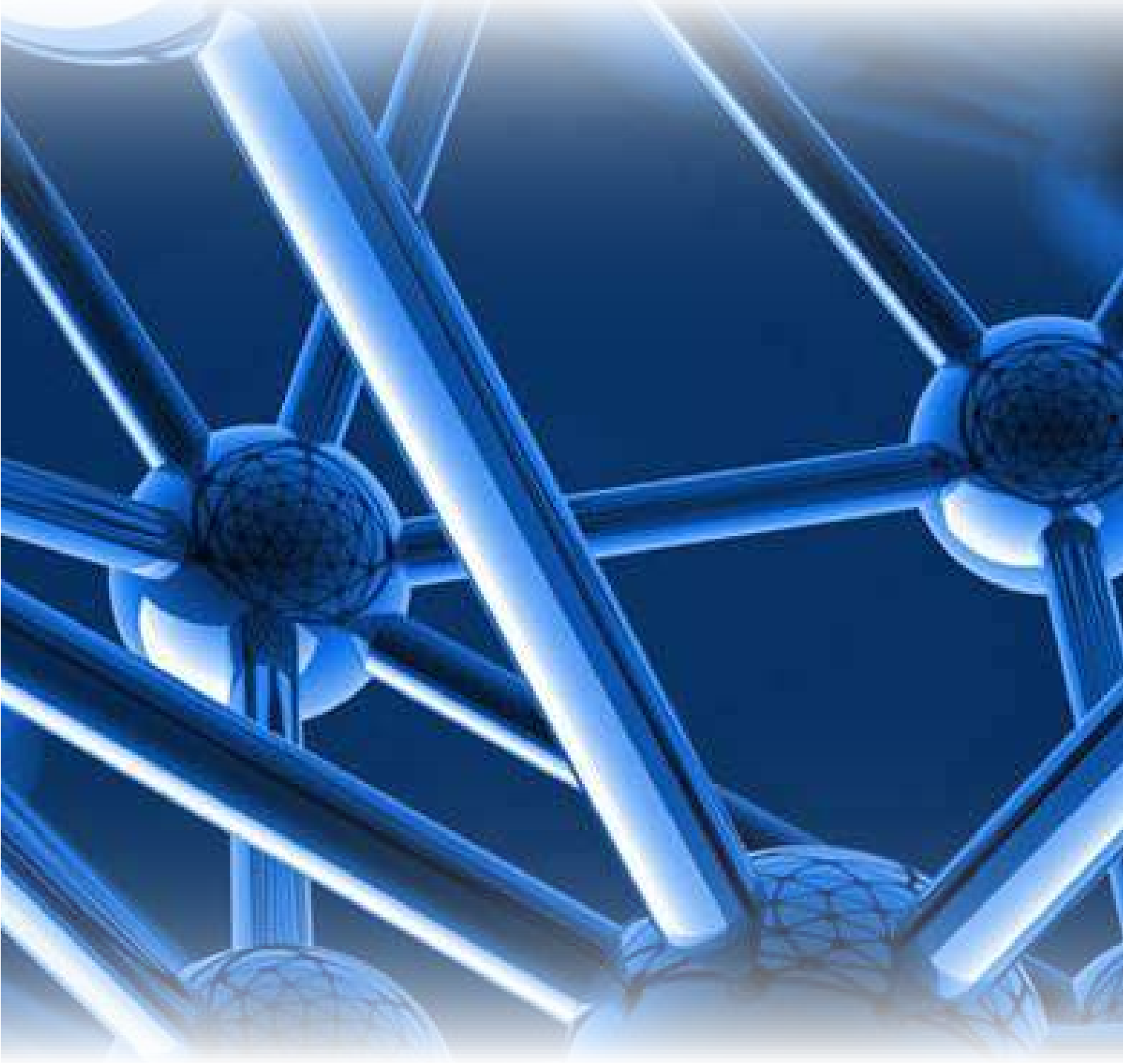
**Session Chair: Yan Huang**, Brunel University London Institute of Materials and Manufacturing, UK

**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 $SiO_2$**
**Kenta Arima**, Osaka University, Japan
**Title: Nanomechanics with nanotubes and fullerene-like-$WS_2$ ($MoS_2$)**
**Reshef Tenne**, Weizmann Institute, Israel

## Coffee Break @ Foyer

**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

e-mail: materialschemistry@insightconferences.com; materialschemistry@conferenceseries.net

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# Scientific Program

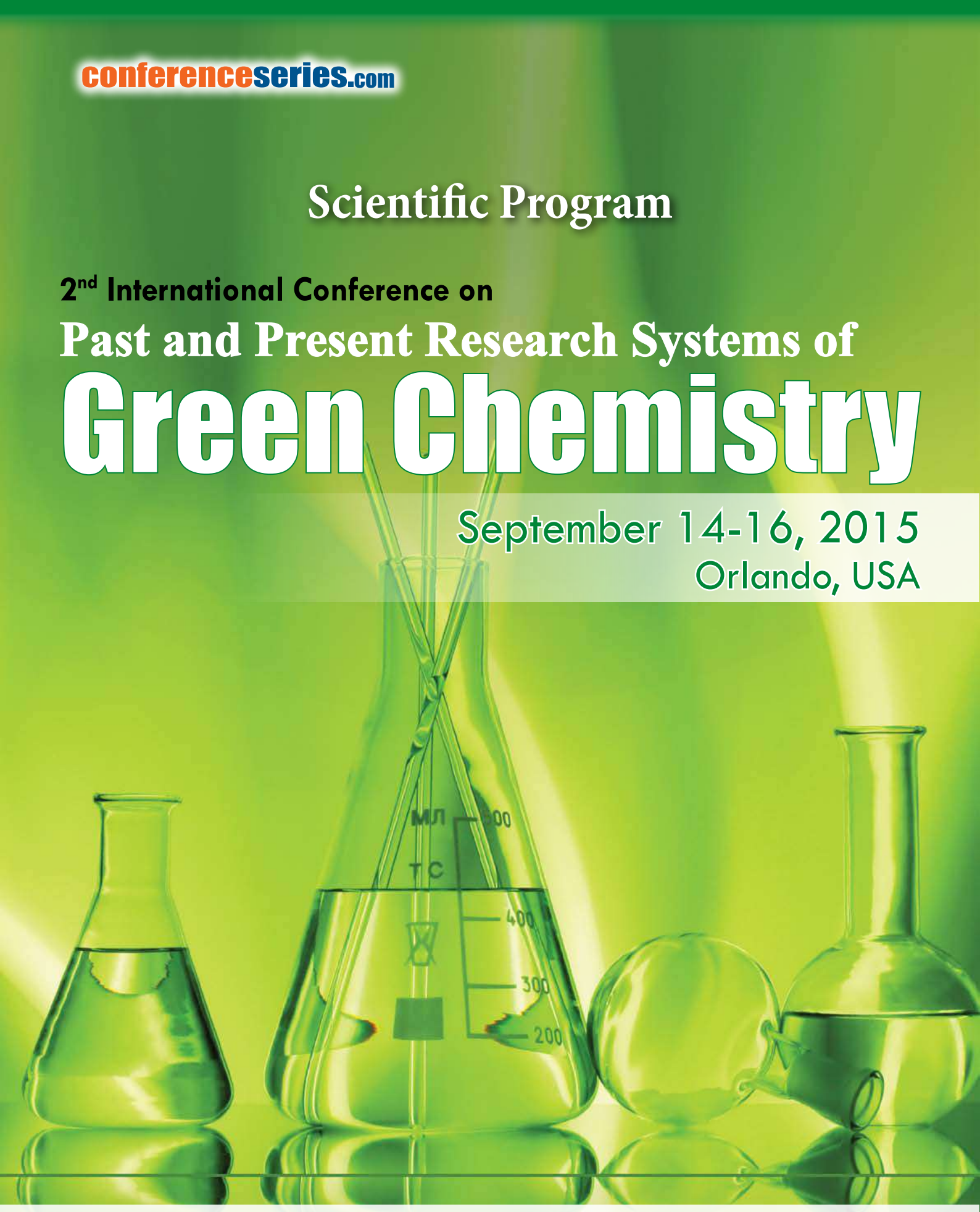
## 2nd International Conference on

## Past and Present Research Systems of

# Green Chemistry

September 14-16, 2015

Orlando, USA




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# Scientific Program

**Day 1** **September 14, 2015**

## Continental Ballroom 6-8

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## 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 $co_2$ 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: $SnO_2$-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

**Networking & Refreshment Break @ Foyer**

**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 Quimica, Mexico

**Panel Discussions**

**Day 2 September15, 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

**Session Introduction**

**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 $TiO_2$ nanoparticles: An Approach towards Green Chemistry**
**Medhat A Shaker,** University of Jeddah, KSA

**Title: De-polymerization of sugarcane bagasse lignin to value added products in sub and supercritical water**
**Sunil Joshi,** National Chemical Laboratory, India
**Title: Towards sustainable surface processing and products through green chemistry and engineering**
**Kwang-Leong Choy,** University College of London, UK
**Title: Triazole stabilized transition metal nanoparticles for 4-Nitrophenol reduction**
**Pengxiang Zhao,** China Academy of Enginnering Physics, China
**Title: Nanocatalysis and continuous-flow processing: Towards greener and more sustainable chemistry**
**Mostafa Baghbanzadeh,** Harvard University, USA

**Networking & Refreshment Break @ Foyer**

**Title: The study of trace elements uptake by plants from contaminated waters**
**Olga V Shuvaeva,** Novosibirsk State University, Russia
**Title: Gelatin wastes for better plant growth**
**Nabil H Elsayed Khamis,** National Research Center, Egypt
**Title: Improvements to the biorefinery model through lignin valorization**
**Ian Klein,** Spero Energy, Inc., USA
**Title: Detection of human osteosarcoma cell (MG-63) and evaluation of the cytotoxicity of cisplatin using the $TiO_2$ nanotubes modified wireless magnetoelastic sensing device**
**Xilin Xiao,** University of South China, China
**Title: Fabrication of miniaturized capillary waveguide integrated fiber-optic sensor for fluoride determination in water**
**Yan Xiong,** Southwest Petroleum University, China

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

**Title: An alternative process of reduction of diimines**
**Ingrid Miranda–Carvajal,** National University of Colombia, Colombia
**Title: Arsenic adsorption into thermally treated dolomite**
**Yousef Salameh,** American University Beirut, Lebanon
**Title: Conversion of crude glycerol, the biodiesel production by-product, into value-add chemical 2,3-butanediol through microbial fermentation**
**Hsin-Yao Cheng,** Green Technology Research Institute, Taiwan
**Title: The current progress of cellulosic ethanol development in CPC corporation, Taiwan**
**Jui-Hui Chen,** Green Technology Research Institute, Taiwan

**Title: Peanut virginia type (*Arachis hypogaea* L.) as feedstock for biodiesel production: Comparative analysis from methylic and ethylic routes**
**Euripedes G Silveira Junior,** University of Northern of Rio de Janeiro, Brazil
**Title: Integrated process of unconventional biodiesel production reusing glycerol: Techno-economic and environmental impact evaluation**
**Victor Haber Perez,** University of Northern of Rio de Janeiro, Brazil
**Title: Novel nanoparticles of Ru and Pd supported on bacterial biomass for catalytic hydrogenation of 5-HMF to produce 2,5-DMF**
**Bayonle Kayode,** University of Birmingham, UK
**Title: Modeling and simulation of a fuel cell of polymer membrane for the generation of electricity**
**Claudia Milena Cabrera-Sanmartin,** State University of Northern of Rio de Janeiro, Brazil
**Title: Study of hydrolysis of sugarcane bagasse in pilot plant for fermentable sugars obtaining for second generation ethanol**
**Tania F Carneiro,** State University of Campinas, Brazil
**Title: Extraction and purification of bioactive compounds by combining supercritical fluids and ultrasound and on-line coupling with solid-phase extraction**
**Mauricio A Rostagno,** Universidade Estadual de Campinas , Brazil

**Title: Ethanol production in bioreactor assisted by electromagnetic field: Kinetic modeling**
**Manuel G Mendoza Turizo,** University of Northern of Rio de Janeiro, Brazil
**Title: Equilibrium and kinetics studies on the biosorption of caffeine by hydrogel beads**
**Ziu Wing Lo,** Borough of Manhattan Community College, USA
**Title: Uptake of organic pollutants by solid wastes as an eco-friendly remediation alternative**
**Kateryna Zhdanova,** Borough of Manhattan Community College, USA
**Title: Evaluation of deep eutectic solvents as electrolytes for a non-aqueous vanadium redox battery**
**Laleh Bahadori,** University of Malaya, Malaysia
**Title: Green route to synthesis of (4-methoxy-phenyl)- phosphonodithioic acid and its Ni & Co complexes**
**Tomilola Ajayi,** University of Kwazulu-natal, South Africa

**Title: Isolation and characterization of heavy metal tolerant bacteria for the purpose of bioremediation**
**Finola Fung-Khee,** Borough of Manhattan Community College, USA
**Title: Chemoselective reactions of Diaminomaleonitrile (Damn) in water**
**Jicli Jose Rojas Salgado,** Universidad Nacional de Colombia, Colombia

**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, Slovenian
**Title: SA Metrics-comparative sustainability metrics for biomass and petrochemical succinic acid production and its catalytic Valorization into ϒ-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-Łukasik,** 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 Fabicovicova,** 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**



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# 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

Coffee Break: @ Atrium

**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

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

Session Introduction

**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 Ghaniyari 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 Insititute of Petroleum Exploration and Development (RIPED) of CNPC, China

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## 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

Session Introduction

**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 $CO_2$ 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: Dearomatization of straight-run diesel fuel by using adsorbents under magnetic field**
**Irana Safarli 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 oxycombustion 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

**Lunch Break @ Atrium**

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

Session Introduction

**Title: Fast pyrolysis of lignin**
**Hilkka Kenttamaa,** Purdue University, USA
**Title: Photosynthetic bioenergy utilizing $CO_2$: An approach on flue gases utilization for third generation biofuels**
**Roberto Parra Saldivir,** Monterrey Institute of Technology and Higher Education, Mexico

**Coffee Break @ Atrium**

**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 (*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 *Acrocomiaaculeata* acid oil by (enzyme/enzyme) hydroesterification process: Use of vegetable lipase and fermented solid as low-cost biocatalysts**
**Erika Cristina G Aguieiras,** 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. Ab initio and DFT studies**
**Ahmed El-Nahas,** El-Menoufia University, Egypt

**Title: Thermogravimetric 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-Il 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 Dossumov,** 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**
**Aikaterini 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**
**Xiaoliang Zhao,** China University of Petroleum, China
**Title: Determination of dynamic deliverability equation for fractured horizontal well in tight gas reservoir**
**Xiangji Dou,** China University of Petroleum, China
**Title: The mechanisms of gas generation during coal deformation**
**Rongting Xu,** University of Chinese Academy of Sciences, 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

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## 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 catalyts for biodiesel of 1st and 2nd generation**
**Wolfgang F Hoelderich,** TCHK Holderich-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**
**Raffie 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 asemblies by their morphology and surface functionalization**
**Grigoriy A Sereda,** University of South Dakota, USA
**Title: Non-equilibrium modellingof 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 $Al_{62,2}Cu_{25,3}Fe_{12,5}$ 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

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**Registrations**

**Salon A**

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# Opening Ceremony

## Keynote Forum

**Introduction**

**James K. Bashkin**
University of Missouri-St. Louis, USA

**Brian S. J. Blagg**
The University of Kansas, USA

**Coffeebreak: @ Foyer**

**Xiang-Qun (Sean) Xie**
University of Pittsburgh, USA

**Tulay Aygan Atesin**
The University of Texas-Pan American, USA

**Track 1: Rational Drug Designing**

**Session Chair: Victor J Hruby,** University of Arizona, USA

**Session Co-Chair: Alexander Heifetz,** Evotec (UK) Ltd., UK

**Session Introduction**

**Title: Design and investigation of multivalent ligands for the detection and treatment of diseases**
**Victor J Hruby,** University of Arizona, USA
**Title: Structure-based drug discovery for GPCRs: From receptors to ligands**
**Alexander Heifetz,** Evotec (UK) Ltd., UK
**Title: DNA-binding polyamides designed against E1, E2 binding sites of HPV DNA show dramatic anti-HPV activity in cell and tissue culture**
**James K Bashkin,** University of Missouri-St. Louis, USA
**Title: Structure-guided design, synthesis, and evaluation of guanine-derived inhibitors of the eIF4E mRNA-cap interaction**
**Xiaoqi Chen,** Amgen, USA

**Lunch Break @ Carol & Patio**

**Title: The design and discovery of CXCR4 chemokine receptor antagonists through incorporation of GPCR-MedChem based fragments**
**Larry Wilson,** Emory University and Emory Institute for Drug Development, USA
**Title: Understanding the essential requirements for success in structure-based design**
**Gregory L Warren,** OpenEye Scientific Software, USA
**Title: Site Identification by Ligand Competitive Saturation (SILCS): Computational approach for the identification and optimization of ligands targeting proteins, RNA and other macromolecules**
**Alexander D MacKerell,** University of Maryland, USA
**Title: Computer-aided design of glucokinase activators**
**Meihua Tu,** Pfizer, USA
**Title: Non-competitive regulation of the human proteasome by natural products and natural product inspired scaffolds**
**Jetze J Tepe,** Michigan State University, USA

**Coffee Break @ Foyer**

**Title: Rational design approaches to find novel ligands targeting the aryl hydrocarbon receptor: successful applications and mechanistic studies**
**William H Bisson,** Oregon State University, USA
**Title: Modulations of protein-protein interactions of EGFRs: Structure, inhibition, dynamics and its implications in breast cancer**
**Seetharama D. Satyanarayanajois,** University of Louisiana at Monroe, USA
**Title: Development of new antibiotics by targeting essential enzymes in bacteria: Structure-based design and simulation studies**
**Concepción González-Bello,** Universidad de Santiago de Compostela, Spain
**Title: Design and synthesis of novel pyrimidone analogues as HIV-1 integrase inhibitors**
**Guisen Zhao,** Shandong University, China
**Title: Synthesis and anti-candida activity evaluation of new [1,2,4] triazolo[3,4-b][1,3,4] thiadiazines**
**Mashooq Ahmad Bhat,** King Saud University, Kingdom of Saudi Arabia
**Title: Newer approaches to the discovery of glitazones**
**Praveen Thaggikuppe Krishnamurthy,** JSS College of Pharmacy, India

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**Tahiti**

**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

**Session Introduction**

**Title: New approaches to "Hit" optimization**
**Istvan J. Enyedy,** Biogen Idec, USA
**Title: Accurate binding site models can be derived from low quality PDB files using an empirical geometry based force field**
**Colin McMartin,** Thistlesoft, USA
**Integrating computational approaches into high throughput screening for rational drug discovery**
**Xin Hu,** National Center for Advancing Translational Sciences, National Institutes of Health, USA
**Title: Using side-chain models derived from atomic resolution X-ray crystallography to develop force fields which can predict global energy minimum geometries**
**Regine S Bohacek,** BostondeNovo, USA

**Lunch Break @ Carol & Patio**

**Title: Forecaster: A computational tool for drug design and discovery developed by experimentalists for experimentalists**
**Nicolas Moitessier,** McGill University, Canada
**Title: Genes to Leads: A rational structure guided lead discovery technology that works for both enzymes and protein-protein interaction targets**
**Kal Ramnarayan,** Sapient Discovery, LLC, USA

**Title: Discovery of highly-potent and selective inhibitors for the ABCG2 transporter**
**Achene Boumedjel,** Université Joseph Fourier de Grenoble, France
**Title: Predictive application of bioisostere transformations to identify novel high quality compound ideas**
**Matthew Segall,** Optibrium Ltd., UK
**Title: Novel sildenafil analogues: Possible drugs for increased sensitivity to chemotherapeutic agents**
**Aina Westrheim Ravna,** University of Tromso, Norway

**Coffee Break @ Foyer**

**Title: Structural insights of SIR2 proteins from T. cruzi as promising targets to fight against Chagas disease**
**Alessandra Nurisso,** University of Geneva-University of Lausanne, Switzerland
**Title: Stratification of surface lysine residues of bovine testicular hyaluronidase on the base of its 3D structure model: Computer aided drug designing of chondroitin sulphate modified enzyme derivative**
**Alexander V. Maksimenko,** Institute of Experimental Cardiology, Russia

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## Day 2 October 16, 2013

### Salon B

**Track 3: Quantitative Structure-Activity Relationships**
**Track 4: Drug Development and Delivery System**
**Track 6: Drug Interactions**
**Track 8: Pharmacognosy**

**Session Chair: Tatsuya TAKAGI,** Osaka University, Japan
**Session Co-Chair: Cesar M Compadre,** University of Arkansas for Medical Sciences, USA

**Session Introduction**

**Title: In Silico screening for anti-HPV agents using docking studies**
**Tatsuya TAKAGI,** Osaka University, Japan
**Title: The development of the tocoflexols, a series of novel vitamin E analogues with enhanced bioavailability**
**Cesar M Compadre,** University of Arkansas for Medical Sciences, USA
**Title: New polymeric "ruthenium-cyclopentadienyl" complexes for drug delivery in cancer therapy**
**Andreia Valente,** Universidade de Lisboa, Portugal
**Title: Unraveling the human multidrug resistance p-glycoprotein poly-specificity**
**Pierre Falson,** Institute of Biology and Chemistry of Proteins, France

**Coffee Break @ Foyer**

**Title: PK modulation of haptenylated peptides via non-covalent antibody complexation**
**Stefan Dengl,** Roche Diagnostics GmbH, Germany
**Title: Tumour active plant derived compounds in combination with targeted therapy towards overcoming drug resistance in ovarian cancer**
**Fazlul Huq,** The University of Sydney, Australia
**Title: Designed monofunctional platinums found to have significant antitumor activity**
**Laila Arzuman,** The University of Sydney, Australia
**Title: A phytochemical and biological investigation of aloe grandidentata salm.-Dyck**
**Taghreed Abdou Ibrahim,** King Saud University, Saudi Arabia
**Title: Docking guided QSAR study on a series of N-acetamideindolecarboxylic acid derivatives acting as HCV NS 5B polymerase inhibitors**
**Vaishali M. Patil,** Bharat Institute of Technology, India

**Track 5: Drug Discovery**

**Session Chair: Gerard Rosse,** Dart Neuroscience, USA
**Session Co-Chair: Craig M Williams,** University of Queensland, Australia

**Session Introduction**

**Title: Innovative approaches to expand medicinal chemistry space**
**Gerard Rosse,** Dart Neuroscience, USA

**Lunch Break @ Carol & Patio**

**Title: Discovery of a first-in-class topically bioavailable kit inhibitor with clinical activity using computational chemogenomics technology**
**James Hendrix,** nPharmakon LLC, USA
**Title: Discovery of a small molecule direct keap1-Nrf2 inhibitor as an anti-oxidant inflammation modulator**
**Magesh Sadagopan,** Otsuka Maryland Medicinal Laboratories, Inc., USA
**Title: Can cubane act as a benzene isostere?**
**Craig M Williams,** University of Queensland, Australia
**Title: Research and development on novel antitumor agents: Preparation, evaluation, and mechanism of low-molecular-weighted phospha sugar derivatives as IER5/Cdc25B targeted antileukemic agents**
**Mitsuji YAMASHITA,** Shizuoka University, Japan
**Title: Modulators of FGF-FGFR-Heparan sulfate complex: identifications of allosteric antagonists and oligosaccharide agonists as potential novel therapeutics**
**Gilbert Lassalle,** Sanofi Aventis, France
**Title: Chemistry, bioactivity, and computational prediction of binding modes for sarsolenane and capnosane diterpenes as PTP1B inhibitors from the hainan soft coral Sarcophyton trocheliophorum marenzeller**
**Yue-Wei Guo,** Shanghai Institute of Materia Medica, China

**Coffee Break @ Foyer**

**Title: On the field of metallodrugs-new ruthenium compounds as anti-tumor agents**
**Ana Isabel Tomaz,** Universidade de Lisboa, Portugal
**Title: Design, synthesis and antidiabetic, cardiomyopathy studies of cinnamic acid-amino acid hybrid analogs**
**Subir Samanta,** Birla Institute of Technology, India
**Title: Synthesis and screening of newer quinazolin-3(h)-4-0ne derivatives for anticonvulsant activity**
**Jayasekhar P Nair,** Oman Medical College, Sultanate of Oman
**Title: Drug profile matching- drug discovery by polypharmacology-based interaction profiling**
**Zoltan Simon,** Eotvos Lorand University, Hungary
**Title: Novel structural elements for drug discovery: Identification, synthesis and application**
**Pavel Mykhailiuk,** Enamine Ltd., Ukraine

### Tahiti

**Track 12: Recent Research and Developments**

**Session Chair: John Spencer,** University of Sussex, UK
**Session Co-Chair: Carsten Detering,** BioSolveIT Inc, USA

**Session Introduction**

**Title: Synthesis and evaluation of some novel thiazolidinedione derivatives as PPAR-$\alpha/\gamma$ dual agonist**
**Praveen Thaggikuppe Krishnamurthy,** JSS College of Pharmacy, India
**Title: Unleash the power of the amygdala: How to incorporate MedChem know-how early on in the CADD lead optimization phase**
**Carsten Detering,** BioSolveIT Inc., USA
**Title: Drug discovery: Hit to lead, lead to possible clinical candidates-development of androgen receptor down-regulating agents for the treatment of castration resistant prostate cancer**
**Purushottamachar Puranik,** University of Maryland School of Medicine, USA
**Title: Synthesis of privileged structure libraries for biological evaluation**
**John Spencer,** University of Sussex, UK

**Coffee Break @ Foyer**

**Title: Design, synthesis and pharmacological evaluation of novel hybrid compounds to treat sickle cell disease symptoms**
**Jean Leandro Dos Santos,** State University of Sao Paulo, 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 Aliev,** GALLY International Biomedical Research Consulting LLC, USA

**Poster Presentations @ Carol & Patio**
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## 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,** Glycosyn 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 Mohan,** Amrita Vishwa Vidyapeetham University, India
**Title: Discovery of small molecule inhibitors of protein-protein interactions using DNA-encoded chemical libraries**
**Nils 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**


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3rd International Conference on
# Medicinal Chemistry & Computer Aided Drug Designing
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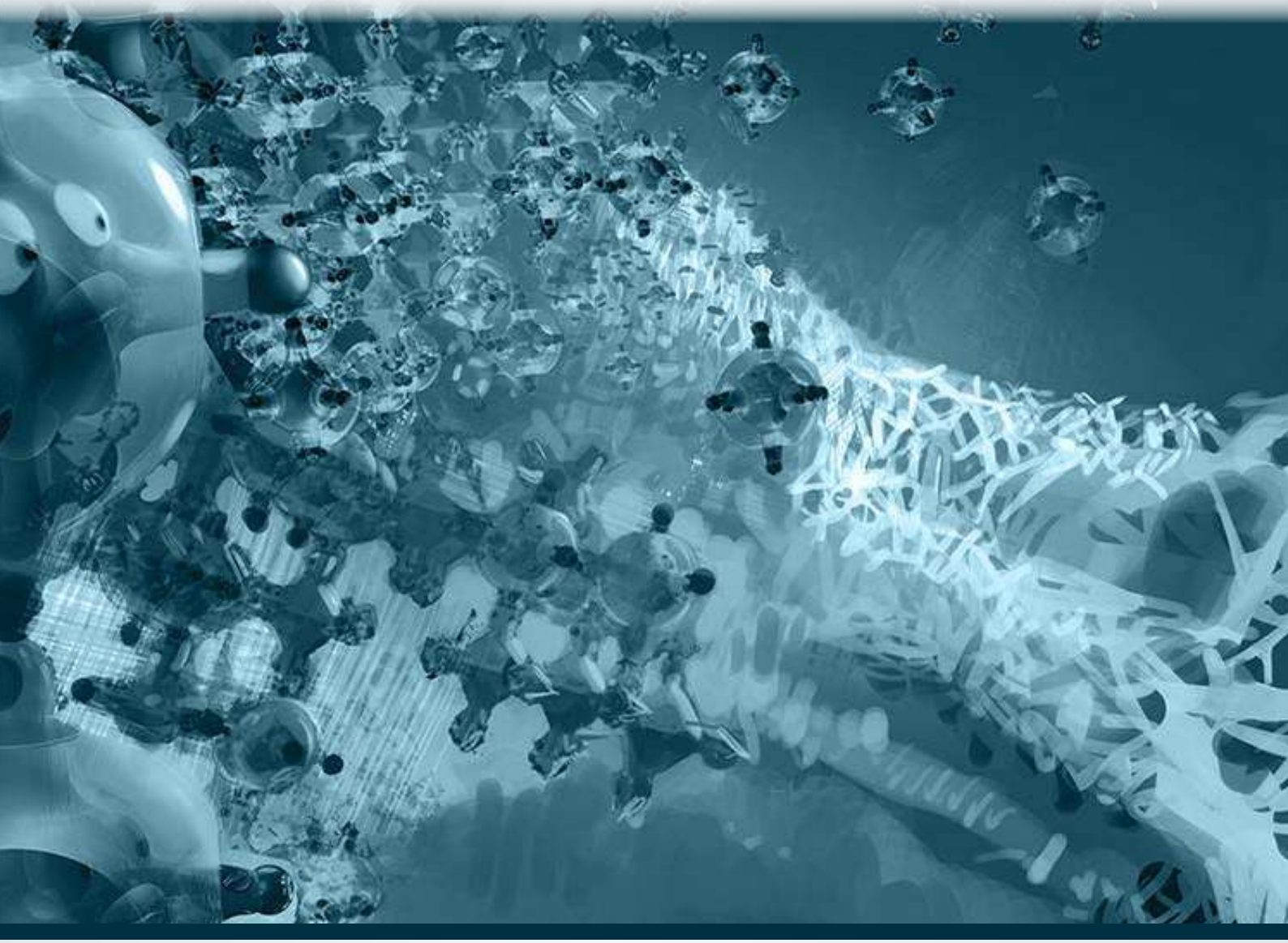
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# Scientific Program

International Conference and Expo on

# Materials Science & Engineering

**October 22-24, 2012 DoubleTree by Hilton Chicago-North Shore, USA**



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Day 1 October 22, 2012

Registrations

Versailles B

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# 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 ransport 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 $CO_2$ 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**
**Shrikant 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**
**Track 5: Engineering Physics**

**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**

**Session Introduction**

**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: Lateral 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 nanophase 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**
**Zhenyang 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**
**VikasTomar,** 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**

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## 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**

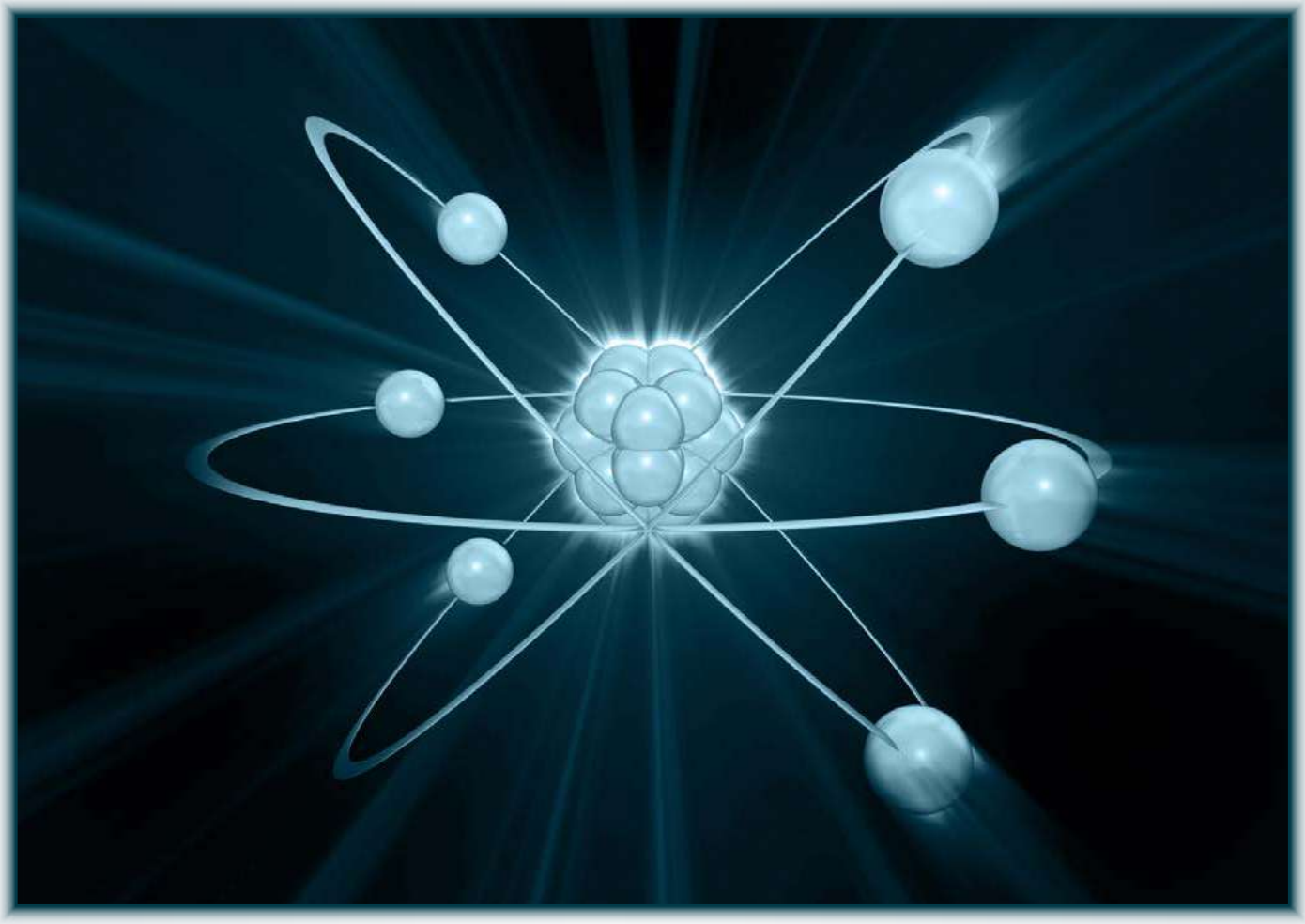
**Lunch Break**

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2nd International Conference and Expo on

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