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# Tentative Program

International Conference on

# Environmental Chemistry and Engineering

July 24-25, 2017 Rome, Italy

*Theme: "Unique Pioneering Research on Fundamental and Upcoming Environmental Issues"*



## **For Available Speaker Slots**

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19+ Interactive Sessions

15+ Keynote Lectures

75+ Plenary Lectures

5+ Workshops


**Conference Secretariat**

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Email: environmental@chemistryconference.org


*http://environmentalchemistry.conferenceseries.com*

# Tentative Program

International Conference on

# Environmental Chemistry and Engineering

July 24-25, 2017 Rome, Italy

| Program at a Glance | | | | |
|---|---|---|---|---|
| **Day 1** | | | | |
| Morning Sessions | Reception/Registration | 08.00-09.00 | | 19 Speakers for Day 1 |
| | | Time | General Session | |
| | Least of 3 Keynote/Plenary Talks | 09.00-09.15 | Inaugural Address | |
| | | 09.15-09.45 | Keynote/Plenary Talk 1 | |
| | | 09.45-10.15 | Keynote/Plenary Talk 2 | |
| | | 10.15-10.45 | Keynote/Plenary Talk 3 | |
| | Panel Discussions/Group Photo | | | |
| | Coffee/Tea Break 10.45-11.00 (Networking) | | | |
| Evening Sessions | 11.00-12.40 | 5 Speakers (20 Mins Each) | | |
| | Lunch Break 12.40-13.30 | | | |
| | 13.30-15.30 | 6 Speakers (20 Mins Each) | | |
| | Coffee/Tea Break 15.30-15.45 (Networking) | | | |
| | 15.45-17.25 | 5 Speakers (20 Mins Each) | | |
| **Day 2** | | | | |
| Morning Sessions | | Time | Session 1 | Session 2 |
| | 09.00-10.40 | | 5 Speakers (20 Mins Each) | 5 Speakers (20 Mins Each) |
| | Coffee/Tea Break 10.40-10.55 (Networking) | | | |
| | 10.55-12.35 | | 5 Speakers (20 Mins Each) | 5 Speakers (20 Mins Each) |
| | | | | |
| | Lunch Break 12.35-13.25 | | | |
| Evening Sessions | 13.25-15.05 | | 5 Speakers (20 Mins Each) | 5 Speakers (20 Mins Each) |
| | Poster Sessions | | | |
| | Coffee/Tea Break 15.05-15.20 (Networking) | | | |
| | 15.20-17.00 | | 5 Speakers (20 Mins Each) | 5 Speakers (20 Mins Each) |
| | Closing Cermony | | | |
| | NOTE: Program Shedule is subject to change with final allotment of the speaker slots | | | |
| | environmental@chemistryconference.org | | | |

**Note:** Workshops and Symposia slots are available. To book slot for Workshop and Symposium send us the proposal

**Call for Abstract**: http://environmentalchemistry.conferenceseries.com/call-for-abstracts.php

**Registration**: http://environmentalchemistry.conferenceseries.com/registration.php

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**e-Poster**: http://environmentalchemistry.conferenceseries.com/eposter-presentation.php

# Glimpses of Chemistry Conferences











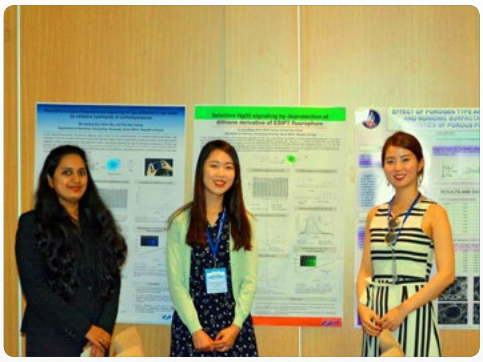



# Glimpses of Chemistry Conferences






























# Major Scientific Sessions

- Environmental Chemistry and Engineering
- Environmental Biotechnology
- Pollution Control Chemistry and Green Chemistry
- Environmental Toxicology and Mutagenicity
- Energy and Environment
- Applications of Environmental Chemistry
- Environmental Hazards
- Sustainability Science
- Environmental Management and Policy
- Environmental Biology
- Environmental Geology

## 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
**environmental@chemistryconference.org**

## Conference Venue

Rome, Italy


**Contact us**
**America: Conference Series LLC**
**Environmental Chemistry 2017**
2360 Corporate Circle., Suite 400 Henderson,
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# Scientific Program

3rd International Conference on

# Past and Present Research Systems of Green Chemistry

September 19-21, 2016 Las Vegas, USA




**Hosting Organizations: Conference Series LLC**

2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA

Ph: +1-702-508-5200, Fax: +1-650-618-1417, Toll free: +1-800-216-6499

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## Day 1 September 19, 2016

**Registrations**

**Flamingo 1**

conferenceseries.com **09:30-09:55** **Opening Ceremony**

## Keynote Forum

**Introduction**

**Title: The terawatt photovoltaic energy challenge: Status, recent advances and materials by design**
**William Tumas,** National Renewable Energy Laboratory, USA
**Title: Green materials-which are really green?**
**David A Schiraldi,** Case Western Reserve University, USA
**Title: Fluorinated organic compound and green sustainability**
**Yoshitomi Morizawa,** Asahi Glass Co., Ltd., Japan

Networking and Refreshments Break @ Foyer

Session:
Green Catalysis | Green Synthesis and Designing | Organic Synthesis | Industrial Applications of Green Chemistry
Green Nanotechnology

Session Introduction

**Session Chair: David A Schiraldi,** Case Western Reserve University, USA

**Session Chair: William Tumas,** National Renewable Energy Laboratory, USA

**Title: Using nature to flame retard polyolefins**
**David A Schiraldi,** Case Western Reserve University, USA
**Title: Environmentally benign organohalogen chemistry in Asahi Glass**
**Yoshitomi Morizawa,** Asahi Glass Co., Ltd., Japan
**Title: Modern green chemistry considerations in synthetic medicinal chemistry**
**Andrew C Flick,** Pfizer Global Research and Development, USA
**Title: An efficient and versatile method for synthesis of 1,4-dihydropridines at mild reaction conditions**
**Sharda Goel,** Maharshi Dayanand University, India
**Title: New approaches for green and cost-effective metal catalysis**
**Brindaban C Ranu,** Indian Association for the Cultivation of Science, India

Lunch Break @ Atrium

**Title: Applications of nanoclays in diagnostic microbiology**
**Claudio Rodríguez Martínez,** National Center of Biological Products, Cuba
**Title: Environmental assessment of different synthetic strategies towards engineered oxide nanomaterials**
**Roberto Rosa,** University of Modena and Reggio Emilia, Italy
**Title: Recent progress in catalytic aromatic trifluoromethylation**
**Hideki Amii,** Gunma University, Japan
**Title: Micellar catalysis for green chemistry: An approach to enhance reaction rate and product selectivity**
**Manish Mishra,** Dharmsinh Desai University, India
**Title: Inducible promoter-based biosensor: A potential tool for high throughput screening of lignin-degrading enzyme library**
**Barindra Sana,** Agency for Science Technology and Research (A*STAR), Singapore
**Title: Ru/$La_2O_3$-ZnO as catalyst for the selective hydrogenation of benzene in a difficult four-phase system (G/L/L/S)**
**Hendrik Spod,** Technische Universität Darmstadt, Germany
**Title: Mechanistic investigation inspired economic synthesis of pyrrole derivatives**
**Jingping Zhang,** Northeast Normal University, China

Networking and Refreshments Break @ Foyer

**Titile: Multicore metal catalysts effective for suzuki-heck couplings in water**
**Murat Emre Hanhan,** Bulent Ecevit University, Turkey
**Title: Heterogeneous base catalyzed depolymerization of lignin into aromatic monomers**
**Richa Km,** CSIR-National Chemical Laboratory, India
**Title: Synthesis, characterization and antibacterial activity of silver nanoparticles using *Acacia senegal* leaf extract**
**Edwina Uzunuigbe,** University of Zululand, South Africa

**Panel Discussion**

## Flamingo 1

## Keynote Forum

**Title: Importance of soft processing(=Low-Energy Production) of advanced inorganic materials for sustainable society**
**Masahiro Yoshimura,** National Cheng Kung University, Taiwan
**Title: Catalytis-Key to a sustainable future**
**Lakshmi Kantam Mannepalli,** Institute of Chemical Technology, India

Session:
Green Chemistry Applications | Analytical Methodologies | Green Materials and Marketing

Session Introduction

**Session Chair: Yoshitomi Morizawa,** Asahi Glass Co., Ltd., Japan

**Session Chair: Febee R Louka,** University of Louisiana, USA

**Title: Investigating the efficiency of economical adsorbents in removal of polycyclic cyclic aromatic hydrocarbons**
**Febee R Louka,** University of Louisiana, USA
**Title: An environmentally friendly procedure to quantify and localize cedrelone in *spodoptera frugiperda* after feeding with this limonoid**
**Maria Fátima das Graças Fernandes da Silva,** Federal University of São Carlos, Brazil

Networking and Refreshments Break @ Foyer

**Title: Biorefineries for valorization of food and agricultural residues using advanced technologies**
**Mauricio Rostagno,** University of Campinas (UNICAMP), Brazil
**Title: Emerging green analytical tools for food quality and safety**
**Quansheng Chen,** Jiangsu University, China
**Title: Green Chemistry - Not a solution but the most fundamental approach to prevent pollution**
**Sridevi Chigurupati,** AIMST University, Malaysia
**Title: Design and development of catalysts for the synthesis of fine chemicals**
**Lakshmi Kantam Mannepalli,** Institute of Chemical Technology, India
**Title: Computational studies of catalytic reactions in various platforms: From organic reactions to metal-organic frameworks**
**Hajime Hirao,** Nanyang Technological University, Singapore

Lunch Break @ Atrium

**Workshop By**
**Andrew C Flick,** Pfizer Global Research and Development, USA

**Title: Genetically modified *Bacillus subtilis* bacterial strain for self-healing and sustainable green bio-concrete material**
**Brajadulal Chattopadhyay,** Jadavpur University, India
**Title: Dual-color bioconjugated upconversion fluorescent probes for simultaneous sensing two foodborne pathogenic bacteria**
**Huanhuan Li,** Jiangsu University, China
**Title: Development of on-line detection system for simultaneous assessment of edible quality and internal defect in apple by NIR transmittance spectroscopy**
**Zhiming Guo,** Jiangsu University, China
**Title: Direct-writing of paper based elctrodes using silver nano-ink for eletrochemical application: A greener aproach**
**Kamlesh Shrivas,** Guru Ghasidas Vishwavidyalaya, India

Networking and Refreshments Break @ Foyer

**Title: Kolanutpod husk: A potential biosorbent for $Cd^{2+}$, $Ni^{2+}$ and $Pb^{2+}$**
**F U Okwunodulu,** Ahmadu Bello University Zaria, Nigeria

**Poster Presentations** @ Atrium

**Title: Study of subcritical water hydrolysis of green coffee powder to ethanol second generation**
**Forster Carneiro Tania,** University of Campinas, Brazil
**Title: Solvent free synthesis of polyhydroquinolines: A green chemistry aspect**
**Vijender Goel,** Maharshi Dayanand University, India
**Title: Multi-response optimization based on Response Surface Methodology (RSM) and desirability function for the separation of Lutein and Chlorophyll from spinach by-products by a saponification procedure**
**Maelle Derrien,** Université Laval, Canada
**Title: Preparing $Ag/Al_2O_3$ catalyst with AlN addition to improve the low temperature reduciton activity of NOx by ethanol**
**Hua Deng,** Institute of Urban Environment, Chinese Academy of Sciences, China

**Title: $[DBU-H]^+$ and $H_2O$ as effective catalyst form for 2,3-dihydropyrido[2,3-d]pyrimidin-4(1H)-ones: A DFT Study**
**Haiyan Yuan,** Northeast Normal University, China

**Title: Design, synthesis and antibacterial studies 3-methlyquinoxaline-2-hydrazone derivatives**
**Taiwo Festus Osho,** Obafemi Awolowo University, Nigeria

**Title: Photocatalytic reduction of $CO_2$ by (Cu/ZnO)@C yolk-shell nanoreactors**
**H Paul Wang,** National Cheng Kung University, Taiwan
**Title: Improvement of $H_2O$ and $SO_2$ tolerance of Nb-modified VOx/$CeO_2$ catalysts for $NH_3$-SCR at low temperatures**
**Zhihua Lian,** Institute of Urban Environment, Chinese Academy of Sciences, China
**Title: Fabrication of reusable magnetic multi-wall carbon nanotube-$TiO_2$ nanocomposite by electrostatic adsorption**
**Ghazale Daneshvar Tarigh,** University of Tehran, Iran
**Title: Characterization and thermal properties of 2-thiocoumarin, NLO single crystal**
**K Sambathkumar,** A A Govt Arts College, India
**Title: Zirconyl chloride catalysed synthesis of 2,2'-arylmethylene bis(3-hydroxy-5,5-dimethyl-2-cyclohexene-1-ones) under green chemistry conditions**
**Anju bajwan,** Maharshi Dayanand University, India

## Day 3 September 21, 2016

### Flamingo 1

Session:
New Trends in Green Chemistry | Green Chemical Solvents | Green Metrics and Measurements
Sustainability and Environmental Safety | Green Chemistry and Engineering

Session Introduction

**Session Chair: Andrew C Flick,** Pfizer Global Research and Development, USA

**Session Chair: Kavita Shah,** Banaras Hindu University, India

**Title: Putting plant residue in use for dopamine estimation in human biofluids: A green technology**
**Kavita Shah,** Banaras Hindu University, India
**Title: Potential efficacy of nano-curcumin against nicotine toxicated mammalian proteins**
**Krishna Chattopadhyay,** Jadavpur University, India
**Title: Synthesis of TGA capped CdTe quantum dots as luminescent probe for carbazochrome sodium sulfonate determination**
**Yanhua Liu,** China Pharmaceutical University, China
**Title: Instrumental evaluation of Chinese rice wine sensory attributes using near infrared spectroscopy combined with multivariate calibration**
**Qin Ouyang,** Jiangsu University, China
**Title: Optimization of a supercritical fluid extraction of Lutein and Chlorophyll from spinach by-products using Response Surface Methodology**
**Maelle Derrien,** Université Laval, Canada

Networking and Refreshments Break @ Foyer

**Title: Characterization of biodiesel (b100) produced from neat and waste animal fry vegetable oil, ethanol, standard and ripe plantain peel potassium hydroxide**
**Abayomi Taiwo,** Moshood Abiola Polytechnic, Nigeria
**Title: Power generation from microbial fuel cell using *Comamonas sp.* BT UA and *Pseudomonas sp.* BT 302**
**Priyabrata Sarkar,** University of Calcutta, India
**Title: Green synthesis of cinnamyl adipate using enzyme as a catalyst**
**Virendra K Rathod,** Institute of Chemical Technology, India
**Title: Biofuel cells based on glucose electrooxidation at conducting polymer modified electrodes with palladium and platinum nanoparticles**
**Ziad Khalifa,** The British University, Egypt
**Title: Extracellular bio-mimetic green synthesis of multi-applicative silver nanoparticles using *Nicotiana tabacum* leaf extract**
**Neeraj R Prasad,** Shivaji University, India

Lunch Break @ Atrium

B2B Meetings & Award Ceremony


## Bookmark Your Dates

4th International Conference on

# Past and Present Research Systems of Green Chemistry

October 16-18, 2017 Atlanta, USA

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Scientific Program

# European Chemistry Congress

June 16-18, 2016 Rome, Italy



**Hosting Organization: Conference Series LLC**

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# Scientific Program

## Day 1 June 16, 2016

**Registrations**

**Olimpica 1 & 2**

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## Opening Ceremony

### Keynote Forum

**Title: Biomacromolecule poly[3-(3,4-dihydroxyphenyl)glyceric acid] with potential therapeutic effect**

**Vakhtang V Barbakadze,** Tbilisi State Medical University, Georgia

**Title: Carbohydrate microarrays for study of glycan associated biological events**

**Injae Shin,** Yonsei University, Korea

Track 1: Fundamentals of Organic Chemistry
Track 2: Inorganic Chemistry
Track 3: Analytical Chemistry

Session Introduction

**Session Chair: Ionel I Mangalagiu,** "Al.I.Cuza" University of Iasi, Romania

**Session Co-chair: Maia Merlani,** Tbilisi State Medical University, Georgia

**Title: An innovative method for the extraction and quantification of curcuminoids from a complex matrix**
**Jarintzi Yared Rico Ruiz,** Euro-Nutec Premix SA de CV, Mexico

**Title: Conjugates of hyaluronic acid with tyramine - synthesis and application**
**Radovan Buffa,** Contipro Pharma, Czech Republic

**Title: Diketopyrrolopyrroles - the journey from ferrari pigments to fluorescent functional dyes**
**Daniel T Gryko,** Polish Academy of Sciences, Poland

Coffee Break@ Foyer

**Title: Non-coulombic ionic crystals with non-alternate arrangement of complex cations and inorganic anions**
**Takumi Konno,** Osaka University, Japan

**Title: Toward molecular designing on graphene-based materials for catalytic applications**
**Sungjin Park,** Inha University, South Korea

**Title: Tailor-made synthesis of multilayered trimetallocyclophanes via transannula π-π Interactions**
**Ok-Sang Jung,** Pusan National University, Korea

**Title: Supramolecular catalysis within confined environment of metal-organic architectures**
**Chunying Duan,** Dalian University of Technology, P R China

**Title: Quantification of valproic acid in human plasma using high performance liquid chromatography-photodiode array**
**Yahdiana Harahap,** Universitas Indonesia, Indonesia

**Title: Validation guidelines of hydralazine hydrochloride spectrophotometric method**
**Laila A Al-Shatti,** The Public Authority for Applied Education and Training, Kuwait

Group Photos

Lunch Break@ Restaurant

**Title: Synthesis of ultramarine pigment from the mudstone of kutingkeng formation and the improvement of its refractory properties**
**S L Chen,** National Cheng-Kung University, Taiwan

**Title: New podants with azaheterocycles skeleton as smart versatile building blocks for multiple tasks**
**Ionel I Mangalagiu,** "Al.I.Cuza" University of Iasi, Romania

**Title: Analysis of *Botulinum* Neurotoxin A (BoNT/A) in pharmaceutical products using MALDI-TOF and LC-MS/MS**
**Yiu-chung Wong,** Hong Kong Government Laboratory, Hong Kong
**Title: Synthesis of natural biologically active poly[3-(3,4-dihydroxyphenyl)-glyceric acid] analogues**
**Maia Merlani,** Tbilisi State Medical University, Georgia
**Title: Preparation and synthetic application of 1-Azoniabicyclo[n.1.0]alkanes**
**Hyun-Joon Ha,** Hankuk University of Foreign Studies, Korea
**Title: Sulfur based metal complexes for synthesis of semiconductor nanoparticles**
**Makwena Justice Moloto,** Vaal University of Technology, South Africa
**Title: Functionalization of Keggin type nickel substituted phosphotungstate by immidazole: Synthesis, characterization and catalytic activity**
**Anjali Patel,** The M S University of Baroda, India

Coffee Break@ Foyer

Track 4: Green Chemistry: Green chemical principles
Track 5: Medical Biochemistry

Session Introduction

**Session Chair: Janis Gravitis,** Latvian State Institute of Wood Chemistry, Latvia
**Session Co-chair: M Paula Robalo,** Instituto Politécnico de Lisboa, Portugal, Portugal

**Title: Protein-specific approach to osteopontin purification from *Chlamydomonas reinhardtii***
**Zivko Nikolov,** Texas A&M University College Station, USA
**Title: Green forest and agricultural waste bio-refinery techniques and breakthrough materials**
**Janis Gravitis,** Latvian State Institute of Wood Chemistry, Latvia
**Title: Photocatalytic H2-production by homogeneous and heterogeneous advanced materials**
**Peter Brüggeller,** University of Innsbruck, Austria
**Title: New conceptual diary liodonium salts for metal-free arylation of carboxylic acids and other coupling reactions**
**Toshifumi Dohi,** Ritsumeikan University, Japan
**Title: Loss mechanism in the open circuit voltage of polymer solar cells**
**Zhicai He,** South China University of Technology, P R China
**Title: Preparation and swelling capacity of superabsorbent polymer composites based on attapulgite clay**
**El-Refaie Kenawy,** Tanta University, Egypt
**Title: Laccases: biocatalysts towards new heterocyclic cores**
**M Paula Robalo,** Instituto Politécnico de Lisboa, Portugal
**Title: Effect of Quercetin and Apigenin on LDL receptor gene (LDLR) and Hydroxy-methyl glutrate reductase gene (*Hmgcr*) in a cholesterol attenuating trial.**
**Marwa E Kenawy,** Tanta University, Egypt

## Day 2 June 17, 2016

**Olimpica 1 & 2**

## Keynote Forum

**Title: Selectivity control of Au-catalyzed oxidation of glycerol in water**
**Bo-Qing Xu,** Tsinghua University, China

**Title: Functions of nucleic acids with non-canonical structures**
**Naoki Sugimoto,** Konan University, Japan

**Title: Pyrrolo[3,2-b]pyrroles-new electron-rich functional π-electron system**
**Daniel T Gryko,** Polish Academy of Sciences, Poland

Coffee Break @ Foyer

**Poster Presentations**

| | |
|---|---|
| **ECPP001** | **Title: Unnatural fluoro-oxindole alkaloids produced by *Uncaria guianensis* plantlets** |
| | **Adriana A Lopes,** Universidade de Ribeirão Preto, Brazil |

| | |
|---|---|
| **ECPP002** | **Title: Spectrophotometric investigation of early lanthanide(III) porphyrin complexes** |
| | **Melitta Patrícia Kiss,** University of Pannonia, Hungary |
| **ECPP003** | **Title: Photoinduced heterogenous catalysis with $TiO_2$ and kaolinite** |
| | **Orsolya Fónagy,** University of Pannonia, Hungary |
| **ECPP004** | **Title: Photocatalytic decomposition of a nonionic detergent** |
| | **Hegedűs Péter,** University of Pannonia, Hungary |
| **ECPP005** | **Title: Patented method-based evaluation of the toxicity of some uncoupling dinitrophenol-like compounds** |
| | **Marius Zaharia,** Alexandru Ioan Cuza University, Romania |
| **ECPP006** | **Title: Synthesis, antiproliferative activity and molecular docking of new colchicine derivatives** |
| | **Adam Huczynski,** Adam Mickiewicz University, Poland |
| **ECPP007** | **Title: Antimycobacterial activity and QSAR studies of 2*H*-chromene and coumarin based hydrazones** |
| | **Violina T Angelova,** Medical University of Sofia, Bulgaria |
| **ECPP008** | **Title: Selective and stoichiometric fatty acids sensing with a polydiacetylene liposome** |
| | **Chang Wook Song,** Pohang University of Science and Technology, Republic of Korea |
| **ECPP009** | **Title: Novel two-photon dyes: Minimal autofluorescence in tissue imaging** |
| | **Juryang Bae,** Pohang University of Science and Technology, Republic of Korea |
| **ECPP010** | **Title: Lysosomal zinc ions imaging with two-photon fluorescent probe** |
| | **Hyeonjin Park,** Pohang University of Science and Technology, Republic of Korea |
| **ECPP011** | **Title: How to enhance fluorescence and two-photon properties of typical dipolar dyes in aqueous media?** |
| | **Hyerim Kim,** Pohang University of Science and Technology, Republic of Korea |
| **ECPP012** | **Title: Ionic conductivity on cyano-bridged bimetal assemblies** |
| | **Kosuke Nakagawa,** The University of Tokyo, Japan |
| **ECPP013** | **Title: A fluorenyl-based metal-organic framework with photocatalytic property** |
| | **Rong-Xin Yuan,** Changshu Institute of Technology, P.R.China |
| **ECPP014** | **Title: Palladium nanoparticles supported on four different materials as efficient catalysts for suzuki cross-coupling reactions** |
| | **Bilgehan Guzel,** University of Cukurova, Turkey |
| **ECPP015** | **Title: Synthesis of $ScCO_2$ soluble perfluorinated chiral shiff-base ligand and its metal complexes** |
| | **Burcu Darendeli,** University of Cukurova, Turkey |
| **ECPP016** | **Title: Synthesis and enzyme inhibition study of dihydrofurocumarin and dihydrofuropyrane compunds** |
| | **Asli Ustalar,** Kocaeli University, Turkey |
| **ECPP017** | **Title: Signaling of Hg(II) ions by reaction-based probes based on depro-tection of dithiane** |
| | **In Jung Chang,** Chung-Ang University, Republic of Korea |
| **ECPP018** | **Title: Smartphone-based fluorescence signaling of hypochlorite in tap water by oxidative hydrolysis of sulfonhydrazone** |
| | **Min Jeoung Cho,** Chung-Ang University, Republic of Korea |
| **ECPP019** | **Title: Dual signaling of the water content of biofuel-relevant ethanol and butanol by pyranines** |
| | **Yun-uk Jung,** Chung-Ang University, Republic of Korea |
| **ECPP020** | **Title: Photophysical properties of boron trifluoride complexes based on 2(2',4'-dihydroxyphenyl) benzothiazole and benzimidazole** |
| | **Sang Hun Lee,** Chung-Ang University, Republic of Korea |
| **ECPP021** | **Title: Phytochemical screening and antitumor effect of ethanol extract of Egyptian wild plants** |
| | **Thoria Diab,** Tanta University, Egypt |
| **ECPP022** | **Title: Calcineurin levels and activity in breast cancer: Relation to apoptosis** |
| | **Abeer Abdel Hamid Ahmed Khamis,** Tanta University, Egypt |
| **ECPP023** | **Title: Protection and functionalization of magnetic iron oxide nanoparticles with phthalic acid for the efficient removal of reactive black 5 from aqueous solutions** |
| | **Gehan M Nabil,** Alexandria University, Egypt |

| | |
|---|---|
| **ECPP024** | **Title: A new polymeric membrane Fe (III) Ion-selective sensor based on Fe (III)-Morin (3, 5, 7, 2', 4'-Pentahydroxyflavone) Schiff Base** |
| | **Tugba Ozer,** Yildiz Technical University, Turkey |
| **ECPP025** | **Title: A novel iron(II) selective membrane electrode based on 2-cyanomethyl n-methyl-n-phenyl dithiocarbamate and its applications** |
| | **Tugba Ozer,** Yildiz Technical University, Turkey |
| **ECPP026** | **Title: Computer simulation of the molecules of thermotropic substituted biphenyls** |
| | **Abulyaissova L K,** Buketov State University of Karagandy, Kazakhstan |
| **ECPP027** | **Title: Comparative study of corrosion of iron in cyanide and thiourea media in hydrometallurgical processes** |
| | **Hugo Romero,** Universidad Técnica de Machala, Ecuador |
| **ECPP028** | **Title: Adsorption kinetics, isotherms and thermodynamic studies for Hg2+ adsorption from aqueous medium using alizarin red-S loaded amberlite IRA-400 resin** |
| | **Mu Naushad,** King Saud University, Saudi Arabia |
| **ECPP029** | **Title: In situ preparation of nitrogen enriched hierarchically nanoporous carbon from polybenzoxazine precursor for $CO_2$ capture and storage** |
| | **Nicharat Manmuanpom,** Chulalongkorn University, Bangkok |
| **ECPP030** | **Title: Direct voltammetric determination of redox-active iron in carbon nanotubes** |
| | **Wei Zhe Teo,** Nanyang Technological University, Singapore |

**Speaker Presentations to be continued**

Track 6: Physical Chemistry
Track 9: Nuclear chemistry

Session Introduction

**Session Chair: Piotr Cysewski,** Nicolaus Copernicus University in Toruń, Poland

**Session Co-chair: Ken Cham-Fai Leung,** The Hong Kong Baptist University, Hong Kong

**Title: Impacts of conformational geometries in fluorinated hydrocarbons**
**Tim Brandenburg,** Helmholtz Zentrum Berlin, Germany
**Title: Decarboxylative fluorination of carboxylic acids with heterogeneous catalysts**
**Giulia Tarantino,** Cardiff University, UK
**Title: Conceptual design of a nano-leaf for artificial photosynthesis**
**Jacinto Sá,** Uppsala University, Sweden
**Title: Fabrication and characterization of Pd-Ni porous membrane for hydrogen separation**
**Sun Hee Choi,** Korea Institute of Science and Technology, South Korea
**Title: Anti-inflammatory and wound healing activities of *Hemisgraphis alternata***
**Joo Kheng Goh,** Monash University Malaysia, Malaysia

Lunch Break@ Restaurant

**Title: RNA self-assembly and RNA bio-nanotechnology**
**Luc Jaeger,** University of California, USA
**Title: Extraction and characterization of collagen from the white jellyfish (*Lobonema smithi Mayer.*)**
**Ubon Rerk-am,** Thailand Institute of Scientific and Technological Research, Thailand
**Title: Interfacial assembly and theranostic applications of organic-inorganic hybrid nanomaterials**
**Ken Cham-Fai Leung,** The Hong Kong Baptist University, Hong Kong
**Title: An efficient coformers selection for co-crystals screening of active pharmaceutical ingredients**
**Piotr Cysewski,** Nicolaus Copernicus University in Toruń, Poland

Track 7: Biological Chemistry
Track 8: Environmental Chemistry
Track 10: Theoretical Chemistry

Session Introduction

**Session Chair: Yanli Wang,** National Center for Biotechnology Information, USA

**Session Co-chair: Min Jae Lee,** Seoul National University, Korea

**Title: Data mining drug, chemical probe and their biological activity in PubChem**

**Yanli Wang,** National Center for Biotechnology Information, USA

**Title: NMR Molecular Replacement, NMR$^2$**

**Julien Orts,** Swiss Federal Institute of Technology, Switzerland

**Title: Opening the core particle gate of mammalian proteasomes to enhance their degradatory activity**

**Min Jae Lee,** Seoul National University, Korea

Coffee Break @ Foyer

**Poster Presentations**

| | |
|---|---|
| **ECPP031** | **Title: Promotion of sorghum hybrids bran grown in southern italy for PHB ecological production by Sphingomonas cynarae** |
| | **Roberta Romano,** University of Salento, Italy |
| **ECPP032** | **Title: Synthesis of NiO nanoparticles for new nanocomposite materials** |
| | **Sevil Çetinkaya,** Kirikkale University, Turkey |
| **ECPP033** | **Title: Antioxidant activity of wild garlic extract (*Allium ursinum*) obtained by subcritical water extraction** |
| | **Alena Tomsik,** University of Novi Sad, Serbia |
| **ECPP034** | **Title: Preparation of biological active steroids** |
| | **Sevinc Ilkar Erdagi,** Kocaeli University, Turkey |
| **ECPP035** | **Title: Synthesis of 4-amino-N-4-pyridin-1,8-naphthalimide, a new ligand for complexes and metalorganic frameworks** |
| | **Ulisses Fiorin Angelo,** University of São Paulo, Brazil |
| **ECPP036** | **Title: In vivo anti-wrinkle and anti-melasma activities of peptides isolated from Pigeon pea (*Cajanus cajan L. Millsp*)** |
| | **Tuanta Sematong,** Thailand Institute of Scientific and Technological Research, Thailand |
| **ECPP037** | **Title: Effect of porogen type and cationic, anionic and nonionic surfactant ratio on the properties of porous polymer supports** |
| | **Vesile Şima Ünnü,** Kirikkale University, Turkey |
| **ECPP038** | **Title: Polyaniline–Ionic liquid mixtures and their application in dye-sensitized solar cells** |
| | **Sang Jun Lee,** Kwangwoon University, Korea |
| **ECPP039** | **Title: Air annealing technique to improve photoelectric properties of pristine graphene** |
| | **Dapeng Wei,** Chinese Academy of Sciences, China |
| **ECPP040** | **Title: Development of lateral-flow immunoassay for the diagnosis of laryngopharyngeal reflux disease** |
| | **Jiyoon Kwon,** Kwangwoon University, Korea |
| **ECPP041** | **Title: Characteristics of the different S=O, S-O, N---H, O---H and Na---O bonds into the powerful laxative sodium picosulphate drug and their effects on the properties** |
| | **Silvia Antonia Brandan,** Institute of Inorganic Chemistry, Argentina |
| **ECPP042** | **Title: Multiresidue analysis of selected pharmaceutical compouds in poultry manure by gas chromatography–mass spectrometry** |
| | **Ramón Aznar,** Spanish National Institute for Agricultural and Food Research and Technology, Spain |
| **ECPP043** | **Title: Study on the micro pulsed electro-chemical machining of invar alloy according to electrolyte variables** |
| | **Seong-Hyun Kim,** Inha University, Republic of Korea |
| **ECPP044** | **Title: Antimicrobial activity of collagen/silver doped hydroxyapatite composites against gram-pozitive and gram-negative bacteria** |
| | **A M Prodan,** Carol Davila University of Medicine and Pharmacy, Romania |
| **ECPP045** | **Title: Antimicrobial activity of collagen/silver doped hydroxyapatite composites against gram-pozitive and gram-negative bacteria** |
| | **C L Popa,** National Institute of Materials Physics, Romania |

| | |
|---|---|
| **ECPP046** | **Title: The Nitrogen Cycle in air, soil and water** |
| | **Reza Pashaei,** University of Siena, Italy |
| **ECPP047** | **Title: Tunable magnetic property and millimeter wave absorption property of ε-$Fe_2O_3$ by metal substutution** |
| | **Asuka Namai,** The University of Tokyo, Japan |
| **ECPP048** | **Title: Anticonvulsant activity of newly synthesized benzoylhydrazones with 2*H*-chromene and coumarin moieties in ICR mice** |
| | **Valentin Karabelyov,** Medical University of Sofia, Bulgaria |
| **ECPP049** | **Title: Perpendicularly-oriented microdomain ordering of lamella-forming PS-*b*-PMMA thin film observed by tuning film thickness** |
| | **Wooseop Lee,** Yonsei University, Republic of Korea |
| **ECPP050** | **Title: Phase transition behavior of asymmetric polystyrene-b-poly(2-vinylpyridine) thin films under strong interfacial Interactions : A stable hexagonally modulated layer (HML) structure** |
| | **Sungmin Park,** Yonsei University, Republic of Korea |
| **ECPP051** | **Title: Interaction between the hydroxyl functionalized PS and dPS in dry brush system** |
| | **Seongjun Jo,** Yonsei University, Republic of Korea |
| **ECPP052** | **Title: Synthesis and characterization of new quaternary niobium selenites** |
| | **Bongsu Kim,** Chung-Ang University, Republic of Korea |
| **ECPP053** | **Title: Polar noncentrosymmetric $ZnMoSb_2O_7$ and nonpolar centrosymmetric $CdMoSb_4O_{10}$: $d_{10}$ transition metal size effect influencing the stoichiometry and the centricity** |
| | **Hongil Jo,** Chung-Ang University, Korea |
| **ECPP054** | **Title: Effective removal of rare earth metals using surface-active agent** |
| | **Dzhevaga Natalia Vladimirovna,** National Mineral Resources University, Russia |
| **ECPP055** | **Title: Thermodynamic characteristics of sorption extraction of anionic complexes of erbium with trilon B on weakly basic anionite** |
| | **Ponomareva Mariya,** National Mineral Resources University, Russia |
| **ECPP056** | **Title: The interaction of 1-nitro- and 1-bromo-1-nitro-3,3,3-trifluoro(chloro)propenes with phenylazide** |
| | **Alena Kuzhaeva,** National Mineral Resources University, Russia |
| **ECPP057** | **Title: Modern glassy phosphate fertilizers** |
| | **Kirill Karapetian,** National mineral resources university, Russia |

**Speaker Presentations to be continued**

**Title: Arsenic speciation studies in *Oriza sativa* L. grown in wahalkada, Sri Lanka**
**Samanthika R Hettiarachchi,** The Open University of Sri Lanka, Sri Lanka
**Title: Effect of preanalytical techniques and variables on plasma ammonia determination**
**Ibraheem M Al-Qurashi,** Taif University, Saudi Arabia
**Title: Bioavailability and concentration of selected heavy metals from soils at the Ecton mining area with long-mining history of Cu, Pb, and Zn, Derbyshire, UK**
**Zahid O Alibrahim,** Wolverhampton University, United Kingdom
**Title: Ion-imprinted thermoresponsive fluorescent hydrogel for removal and determination of uranyl ion**
**Elif Gökçe Atçakan,** Istanbul Technical University, Turkey
**Title: Electrophilic phosphinidene complex affords novel organophosphorus compounds**
**Arif Ali Khan,** Guru Gobind Singh Indraprastha University, India
**Title: Synthesis of composite materials for chromatographic column separations**
**Amjad Mumtaz Khan,** Aligarh Muslim University, India
**Title: Regulation of electron transfer in nitric oxide synthase by conformational dynamics**
**Changjian Feng,** University of New Mexico, USA

**Title: Aggregation-free gold nanoparticles in ordered mesoporous carbons: towards highly active and stable heterogeneous catalysts for selective oxidation of alcohols and selective reduction of nitroarenes**
**Ying Wan,** Shanghai Normal University, China

## Day 3 June 18, 2016

### Olimpica 1 & 2

Track 11: Medicinal Chemistry
Track 12: Materials Chemistry

Session Introduction

**Session Chair: Brian W Dymock,** University of Singapore, Singapore
**Session Co-chair: Marc Le Borgne,** Université Lyon, France

**Title: Ruthenium organometallic compounds as promising anti-metastatic drugs for breast cancer chemotherapy**
**M Helena Garcia,** Universidade de Lisboa, Portugal
**Title: Polymer-metal conjugates: Versatile scaffolds for the synthesis of new antitumor drugs**
**Andreia Valente,** Universidade de Lisboa, Portugal
**Title: Novel functional materials based on cyanido-bridged metal assemblies and metal oxides**
**Shin-ichi Ohkoshi,** The University of Tokyo, Japan
**Title: The medicinal chemist's toolbox: how to use it to develop small molecule CK2 inhibitors**
**Marc Le Borgne,** Université Lyon, France

Coffee Break@ Foyer

**Title: Designed bispecific molecules selectively inhibiting both JAK2 and HDAC at low nanomolar concentrations**
**Brian W Dymock,** University of Singapore, Singapore
**Title: *In silico* screening of *Aloysia citrodora* Palau. leaf essential oil for anticholinesterase inhibitors**
**Sawsan Abuhamdah,** The University of Jordan, Jordan
**Title: Design of active and durable catalysts with non-precious materials for oxygen reduction and evolution reactions: First principles prediction and experimental validation**
**Byungchan Han,** Yonsei University, Korea
**Title: The effect of doping NiMgAl catalysts with lanthanum on the dry reforming of methane**
**Samer Aouad,** University of Balamand, Lebanon
**Title: S-Nitrosothiol-modified silica/polymer hybrid nanofibers as a nitric oxide storage/delivery scaffold**
**Soo Ji Son,** Kwangwoon University, Korea

Lunch Break@ Restaurant

Track 13: Petro Chemistry
Track 14: Multi-disciplinary Chemistry

Session Introduction

**Session Chair: Jean-Bernard Regnouf-de-Vains,** Universite de Lorraine, France
**Session Co-chair: Rukan Can Seyfeli,** Gazi University, Turkey

**Title: Study of intermolecular and intramolecular vibrations in heterocyclic aromatic hydrocarbons**
**Patricia Guevara Level,** Université de Pau et des Pays de l'Adour, France
**Title: From discrete to supported antibacterial calixarenes: toward bacteriophilic materials**
**Jean-Bernard Regnouf-de-Vains,** Universite de Lorraine, France
**Title: First-principles calculation of $\varepsilon$-$Fe_2O_3$ with a huge coercive field**
**Marie Yoshikiyo,** The University of Tokyo, Japan
**Title: *Thymus* and *Origanum* species growing in Turkey: Their phytochemical and biological activity properties**
**Ufuk Özgen,** Karadeniz Technical University, Turkey
**Title: Bentonite-Treatment of Bentonite with $Na_2CO_3$ and MgO**
**Rukan Can Seyfeli,** Gazi University, Turkey
**Title: The benefit of supplementing with Iron and vitamin B12 singly and in combination on haemoglobin among 6 to 9 years old rural primary school children in Kilifi County, Kenya?**
**Priscilla Monyangi Nyakundi,** Kenya Medical Research Institute, Kenya

**Title: Exploring DNA interaction and anticancer activity of ruthenium (II) mononuclear complexes and their luminescent properties**

**S Satyanarayana,** Osmania University, India

Coffee Break: @ Foyer

**Title: Determination of skin softeners, skin shiners and phytoconstituents from eugenol oil extracted from clove buds of clove trees found in zanzibar**

**Ochieng Anthony,** Sumait University, Tanzania

**Title: Quantitative analysis of multi-component alkane mixture with fourier transform infrared spectrometer based on TR-LSSVM-PSO**

**Feng Zhang,** Xi'an Jiaotong University, China

**Title: An attractor-repulsor molecular design prinicple for the exploration of supramolecular steric hindrance (SSH) effects**

**Linghai Xie,** Nanjing University of Posts & Telecommunications, China

**Title: Arithmetic progression way in calibration STD curve**

**Hisham H A Mohammedkhair,** University of Khartoum, Sudan

**Award Ceremony**



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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

conferenceseries.com **08:30-08:55** **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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# Scientific Program

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## Day 1 August 25, 2014

Registrations

Independence A

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# Opening Ceremony

## Keynote Forum

**Introduction**

**Tatsuya Nabeshima**
University of Tsukuba, Japan

**Ingrid Mergelsberg**
Merck Co., Inc., USA

**Mark Hayward**
Active Ingredient Technologies, USA

Coffee Break @ Foyer

**Steven J Langford**
Monash University, Australia

**Moinuddin Sarker**
AEE-CT Chapter, USA

**Lothar Brecker**
University of Vienna, Austria

**Track 1: Basic Principles and New Trends in Green Chemistry**
**Track 3: Green Synthesis**
**Track 10: Analytical Methodologies**
**Track 11: Sustainability and Environmental Safety**

Session Introduction

**Session Chair: Lothar Brecker**, University of Vienna, Austria
**Session Co-Chair: Bingbing Li**, Central Michigan University, USA

**Title: Methods and systems for converting plastic to fuel**
**Moinuddin Sarker**, AEE-CT Chapter, USA

**Title: Plasma chemistry for suitability and environmental safety**
**Hai-Feng Ji**, Drexel University, USA

Lunch Break @ Benjamins

**Title: Keratin waste: A valuable resource for pharmaceutical and forensic applications**
**Ramiz Boulos**, Flinders University, Australia

**Title: Electronic states and photocatalytic activities of $TiO_2$ modified with metal nanoparticles studied by far-ultraviolet spectroscopy**
**Ichiro Tanabe**, Kwansei Gakuin University, Japan

**Title: *In-situ* NMR and STD NMR to study mechanisms of enzyme catalyzed reactions to optimize use of enzymes in organic synthesis**
**Lothar Brecker**, University of Vienna, Austria

**Title: Reduction of solvent usage in HPLC during column re-equilibration after gradient elution in Reversed- Phase Liquid Chromatography**
**Joe P Foley**, Drexel University, USA

**Title: Fluorescent dipyrrin-typical-element complexes responding to external stimuli**
**Tatsuya Nabeshima**, University of Tsukuba, Japan

**Title: Recent structure relationship studies (SAR) on natural occurring sulfonium salts as potent α-glucosidase inhibitors**
**Weijia Xie**, China Pharmaceutical University, China

**Title: Nanostructured biodegradable polymeric materials through a green chemical approach**
**Bingbing Li,** Central Michigan University, USA

**Coffee Break @ Foyer**

**Title: Supercapacitive swing adsorption of carbon dioxide**
**Kai Landskron,** Lehigh University, USA
**Title: Mechanism-based molecular design of chemicals with low carcinogenicity potential**
**David Y Lai,** US Environmental Protection Agency, USA
**Title: Application of aquatic plant phytoremediation as green technology treatment of lead in polluted water**
**Nadia Badr,** Alexandria University, Egypt
**Title: Chemical depolymerization of lignin in Ionic liquids**
**Kei Saito,** Monash University, Australia
**Title: Infiltration of green chemistry concept in chemistry experiment teaching**
**Hua Yan,** Logistic Engineering University, China
**Title: The use of thermal release technique with atomic absorption detection for the study of mercury transformation in contaminated environment**
**Olga V Shuvaeva,** Siberian Branch of Russian Academy of Science, Russia

**Panel Discussions**

Cocktails sponsored by **Journal of Environmental Analytical Chemistry @ Foyer**

## Day 2 August 26, 2014

## Independence A

**Track 2: Green Chemistry-Chemical Applications**
**Track 4: Green Chemistry-Catalyst Compatibility**
**Track 7: Benefits of Green Chemistry**
**Track 9: Industrial Applications of Green Chemistry**

**Session Chair: Jon D Stewart,** University of Florida, USA
**Session Co-Chair: Abel E Navarro,** Borough of Manhattan Community College, USA

**09:00-10:00** Workshop on **"Progress in Chemistry for Suitability & Environmental Safety"**
**Haifeng Frank Ji,** Drexel University, USA

**Title: Green chemistry in a changing landscape - Isn't green chemistry simply good chemistry?**
**Steven J Langford,** Monash University, Australia
**Title: Developing flavoprotein alkene reductases into synthetically useful catalysts for asymmetric reductions**
**Jon D Stewart,** University of Florida, USA

**Coffee Break @ Foyer**

**Title: Inverse molecular design of green catalysts for biomass conversion**
**Dequan Xiao,** University of New Haven, USA
**Title: Efficient catalyst reuse by dissolution in non-conventional media**
**Carlos A M Afonso,** University of Lisbon, Portugal
**Title: Improving the adsorptive properties of biomaterials for the removal of heavy metals**
**Abel E Navarro,** Borough of Manhattan Community College, USA
**Title: Minimally competent lewis acids for the synthesis of glycosides**
**Robin Polt,** The University of Arizona, USA
**Title: Arylation of Weakly Acidic C–H's**
**Patrick J Walsh,** University of Pennsylvania, USA

**12:35-13:30** Workshop on **"Toward the Inverse Molecular Design of Green Catalysts"**
**Dequan Xiao,** University of New Haven, USA

**Lunch Break @ Benjamins**

**Title: An extremely stable and highly active periodic mesoporous lewis acid silica for mukaiyama-aldol reaction in water**
**Fang Zhang,** Shanghai Normal University, China
**Title: Bi-functional catalyst for conversion of 2-*methylfuran* as an waste biomass derived chemical to biodiesel**
**Hattrick-Simpers,** University of South Carolina, USA
**Title: Catalysis, atom economy and green toxicology: Tools for sustainable chemistry and drug discovery**
**Nicholas Gathergood,** Dublin City University, Ireland
**Title: Recreational water sources and health hazard (contamination of recreational water sources to pathogenic *Acanthamoeba* in Iran)**
**Maryam Niyyati,** Shahid beheshti university of medical sciences, Iran
**Title: Recent findings on anti-tumoral and antioxidant triterpene saponins from some Cameroonian medicinal plants**
**Tapondjou A Leon,** University of Dschang, Cameroon

**Coffee Break @ Foyer**

**Panel Discussion**

**Poster Presentations @ Foyer**

Cocktails Sponsored by **Journal of Organic Chemistry @ Foyer**

## Day 3 August 27, 2014

### Independence A

**Track 5: Green Chemical Solvents**
**Track 6: Aromatic and Non-Aromatic Green Chemistry**
**Track 8: Organic Synthesis in Different States**
**Track 12: Green Chemistry and Engineering**

**Session Introduction**

**Session Chair: John A Glaser,** US Environmental Protection Agency, USA
**Session Co-Chair: Shipra Roy,** Sarojini Naidu Government Girls PG College, India

**09:00-10:00** Workshop on **"Insight from Computer Modelling for Drug Discovery"**
**Ramiz A Boulos,** Flinders University, Australia

**Title: Finding the innovation in green chemistry/engineering**
**John A Glaser,** US Environmental Protection Agency, USA
**Title: Green chemistry at merck - A development chemist's perspective**
**Ingrid Mergelsberg,** Merck Co., Inc., USA

**Coffee Break @ Foyer**

**Title: Development of sisal fiber reinforced cement composites as substitute of asbestos cement composites- A green chemical approach**
**Shipra Roy,** Sarojini Naidu Government Girls PG College, India
**Title: New separations strategies with an emphasis on recycling chemistry for high value rare earth elements**
**Eric J Schelter,** University of Pennsylvania, USA
**Title: Green chemistry innovation in the synthesis of medicines**
**Rakeshwar Bandichhor,** Dr. Reddy's Laboratories, India
**Title: Recent advances in heteropoly acids-catalyzed organic reactions in water**
**Majid M Heravi,** Alzahra University, Iran
**Title: Novel organic transformations in aqueous media**
**J S Yadav,** Indian Institute of Chemical Technology, India
**Title: Green processes to diisocyanates and polyurethane-urea elastomers via carbonate raw materials: New NPR and NIR processes**
**Shenghong A Dai,** National Chung-Hsin University, Taiwan
**Title: Polymer-supported siloxane transfer agents: A green chemistry approach toward cross-coupling reactions**
**Minh H Nguyen,** University of Pennsylvania, USA
**Title: Determination of organochlorine pesticides in water samplesand decomposition kinetics of Chlorpyrifos using advanced oxidation process**
**Muhammad Ismail, University of Peshawar, Pakistan**

**Lunch Break @ Benjamins**

**Panel Discussions**

## Bookmark your dates

2nd International Conference on

# Past and Present Research Systems of Green Chemistry

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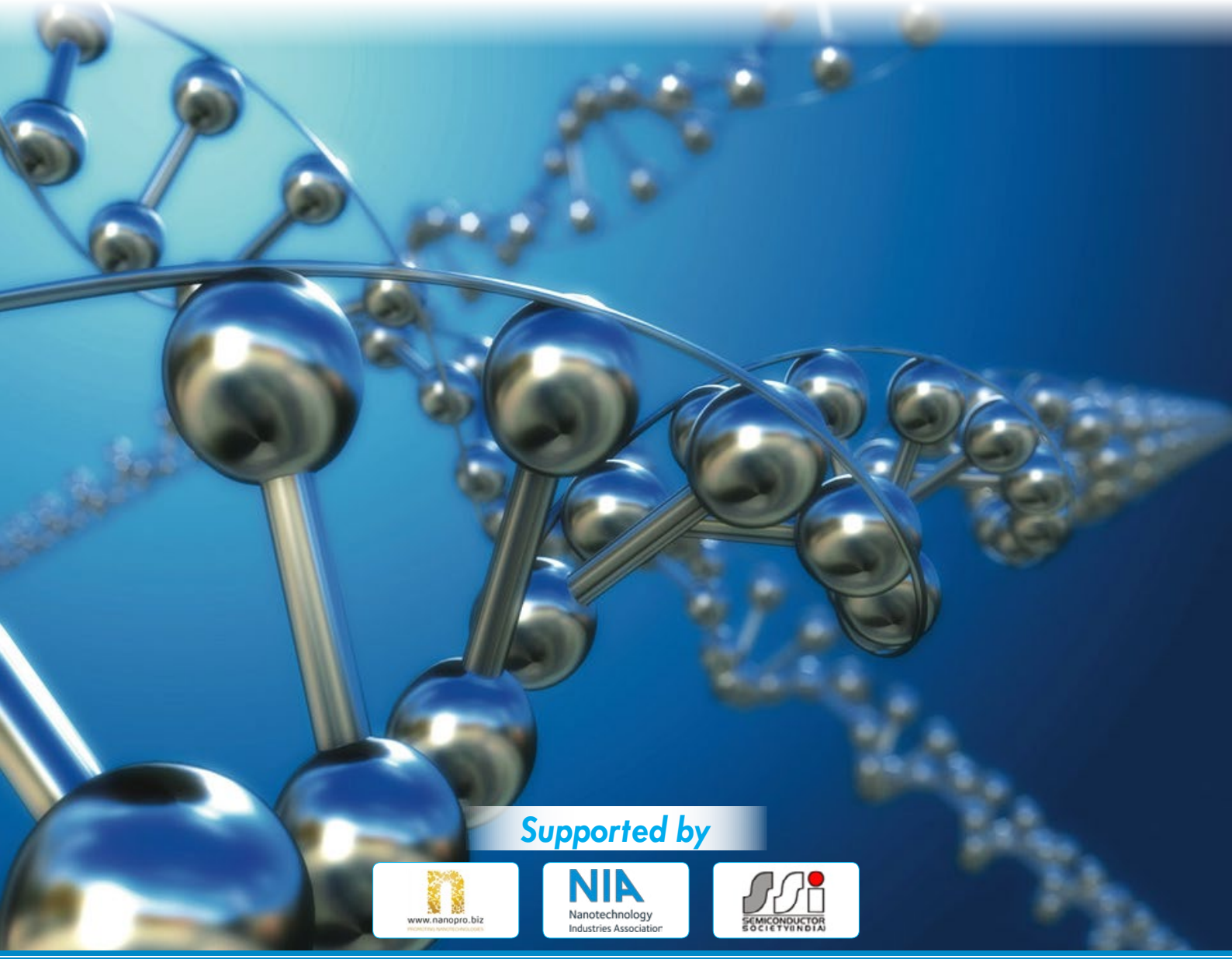
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# Scientific Program

## 2nd International Conference and Exhibition on

# Materials Science & Engineering

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## October 06, 2013

**Registrations**

## Day 1 October 07, 2013

**Registrations**

**Salon A**

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# Opening Ceremony

## Keynote Forum

### Introduction

### Isaac C. Sanchez
University of Texas, USA

### Arumugam Manthiram
University of Texas at Austin, USA

### Dongyang Li
University of Alberta, Canada

**Coffee Break @ Event Center**

### Aris Christou
of Maryland, USA

### Zhifeng Ren
University of Houston, USA

### Federico Rosei
University of Quebec, Canada

**Track 1: Materials Science and Engineering (Session 1)**

**Session Chair: Xiao Wang Zheou,** Sandia National Laboratories, USA

**Session Co-Chair: Frederique Gadot,** University of South Paris, France

**Session Introduction**

**Title: Big data is the future of material science**
**Alex V. Vasenkov,** Multiscale Solutions Inc., USA

**Title: Analytical bond-order potential for aluminum**
**Xiao Wang Zhou,** Sandia National Laboratories, USA

**Group Photo @ Salon A**

**Lunch Break @ Event Center**

**Title: Effect of bio field treatment on the physical and thermal characteristics of silicon, Tin and lead powders**
**Shrikant Patil,** Trivedi foundation, USA

**Title: Metamaterials and their applications for astrophysical and medical domains**
**Frederique GADOT,** University of South Paris, France

**Title: Atomistic simulations of initial yield mechanism in ultrafine-grained metals**
**Tomohito Tsuru,** Japan Atomic Energy Agency, Japan

**Title: Understanding materials based on the electron work function**
**Dongyang Li,** University of Alberta, Canada

**Title: Physical characterization and microstructure evaluation of titanium dioxide semiconductor discs processed with binders**
**Shahida Begum,** Universiti Tenaga Nasional, Malaysia

**Title: Potential of microwave processed cordierite based glass-ceramic glazes for next generation floor tiles**
**Sumana Ghosh,** Central Glass and Ceramic Research Institute, (CSIR), India

**Coffee Break @ Event Center**

**Title: Mechanical behavior of pure aluminum processed by constrained groove pressing**
**Shantharaja M,** Bangalore University, India

**Title: Evaluation of material and mechanical properties of mullite bonded porous SiC ceramics prepared by an infiltration technique and conventional powder processing routes**
**Nijhuma Kayal,** Central Glass and Ceramic Research Institute, (CSIR), India

**Title: Characterization study of functionally graded metal ceramic composites fabricated by layer processing technique**
**Kumar R,** M S Ramaiah Institute of Technology, India

**Title: Enhanced performance of zinc oxide arrester by simple modification in processing and design**
**Shahida Begum,** Universiti Tenaga Nasional, Malaysia

**Title: Comparative Study of microstructure & mechanical properties of plain wire rod and TMT wire rod manufactured at Bhilai Steel Plant (BSP), India**
**Aparna Lohiya,** Kansas State University, USA

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**Fiji**

**Track 1: Materials Science and Engineering (Session 2)**

**Session Chair: Anand Chokkalingam,** The University of Queensland, Australia

**Session Co-Chair: Kholmurad Khasnov,** M. V. Lomonosov Moscow State University, Russia

Session Introduction

**Title: The effect of binder and pressure on the preparation of recycled soda lime silica glass composite bodies**
**Adele Dzikwi Garkida,** Ahmadu Bello University, Nigeria

**Title: Production of new conjugated polymer through maillard reaction between Durian Seed Gum (DSG) and Whey Protein Isolate (WPI)**
**Hamed Mirhosseini,** University Putra Malaysia, Malaysia

**Group Photo @ Salon A**

Lunch Break @ Event Center

**Title: Phenomena of interaction of external field and synthesis of new materials**
**Kholmurad Khasanov,** M. V. Lomonosov Moscow State University, Russia

**Title: Flow ability characteristics, functional properties and rheological properties of a natural carbohydrate-protein biopolymer**
**Bahareh Tabatabaee Amid,** University Putra Malaysia, Malaysia

**Title: Novel nanoporous superacids with ordered porous structure for fFine chemical synthesis**
**Chokkalingam Anand,** The University of Queensland, Australia

**Title: Computing macroscopic mechanical properties of heterogeneous composites**
**Hyunsun Lee,** Hawaii Pacific University, USA

**Title: Magnetoelectric and dielectric properties of $PbZr_{0.52}Ti_{0.48}O_3$-$Co_{0.6}Zn_{0.4}Mn_{0.3}Fe_{1.7}O_4$- $PbZr_{0.52}Ti_{0.48}O_3$ trilayer composites**
**Arti Gupta,** University of Delhi, India

**Track 3: Energy Materials**

**Session Chair: Satish K. Nune,** Pacific Northwest National Laboratory, USA

**Session Co-Chair: Takao Mori,** National Institute for Materials Science (NIMS), Japan

Session Introduction

**Title: Hierarchical nanoporous carbon architectures for super capacitor applications**
**Satish K. Nune,** Pacific Northwest National Laboratory, USA

Coffee Break @ Event Center

**Title: Developing high temperature thermoelectric materials through control of atomic and grain structure**
**Takao Mori,** National Institute for Materials Science (NIMS), Japan

**Title: Development and characterization of poly(arylene ether sulphone)based polymer electrolyte membranes for direct methanol fuel cell applications**
**Erde Can,** Yeditepe University, Turkey

**Title: Seeing small: Enabling new discoveries in energy materials through advanced transmission electron microscopy**
**Paulo J. Ferreira,** University of Texas at Austin, USA

**Title: A simple thermal plasma method to produce pure graphene flake structures**
**Ramona Pristavita,** McGill University, Canada

**Title: Beyond li-ion - A case for magnesium battery systems**
**Nikhilendra Singh,** Toyota Research Institute of North America, USA

**Title: Evolution of the flux combination for pelletization of high alumina iron ore fines**
**T. K. Sandeep Kumar,** Lulea University of Technology, Sweden

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## Tahiti

**Track 4: Mining and Metallurgy**
**Track 5: Surface Science and Engineering**

**Session Chair: Raymundo Ordonez Olivares,** University of Pittsburgh, USA

**Session Co-Chair: Viswanathan S. Saji,** Korea University, Republic of Korea

Session Introduction

**Title: Strategic metals in the United States civil war**
**Charles D. Ross,** Longwood University, USA

**Title: Annealing behavior of titanium bearing HSLA steel through electron back scattering diffraction**
**R. Ordonez,** University of Pittsburgh, USA

**Group Photo @ Salon A**

Lunch Break @ Event Center

**Title: Electrochemical reduction of Eu (III) for the recovery of Eu from rare earth materials solution using turbulent-induced cell**
**Kyeong Woo Chung,** Korea Institute of Geoscience and Mineral Resources, Korea

**Title: Corrosion control and nanomaterials**
**Viswanathan S. Saji,** Korea University, Republic of Korea

**Title: High-wavelength, low-energy photochemical surface engineering**
**Jason R. Tavares,** Polytechnique Montreal, Canada

**Title: Catalyst surface design by molecular imprinting of oxide-supported ru complex catalyst for regioselective epoxidation**
**Satoshi Muratsugu,** Institute for Molecular Science, Japan

**Title: Creation of an environmental atlas for a quarry cluster**
**Sampath Kumar M.C,** B.M.S College of engineering, India

**Title: Recovery of valuable metals from spent SCR catalysts for de-NOx by soda roasting**
**Jin-Young Lee,** Korea Institute of Geoscience & Mineral Resources, Korea

Coffee Break @ Event Center

**Title: Optimization of coating parameters on coating morphology of basalt short fiber for preparation of Al/Ba salt metal matrix composites**
**S. Paul Vizhian,** Bangalore University, India

**Title: The hydrophobic to hydrophilic transition of graphene in the presence of $H_2O$ molecules**
**Zhimin Ao,** The University of Technology, Australia

**Title: Effect of thermal treatment and rolling on mechanical properties and corrosion resistance of aluminum- hematite composite**
**C. N. Chandrappa,** M S Ramaiah Institute of Technology, India

**Title: Effect of particle size on mechanical properties of SiC particle-reinforced aluminium alloy composites**
**M. C. Krishnamurthy,** BMS Evening College of Engineering, India

**Title: Cutting force and surface roughness analysis using gray based taguchi method for turning operation**
**Umesh C. K,** Bangalore University, India

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# Day 2 October 08, 2013

## Salon A

**Track 2: Nanomaterials and Nanocomposites (Session 1 A)**

**Session Chair: Kytai T. Nguyen,** University of Texas at Arlington, USA

**Session Co-Chair: Ramesh K. Agarwal,** Washington University in St. Louis, USA

**Session Introduction**

**Title: Dual-imaging enable nanoparticles for diagnosis and therapy of prostate cancer**
**Kytai T. Nguyen,** University of Texas at Arlington, USA
**Title: Controlling the interfacial properties of carbon nanotubes**
**Kirk J. Ziegler,** University of Florida, USA
**Title: CFD Simulations of transport of atmospheric aerosols and nanoparticles in models of human respiratory system**
**Ramesh K. Agarwal,** Washington University in St. Louis, USA
**Title: Controlling interphase formations in polymer/nano-carbon composite fibers for improving mechanical performance**
**M. L. Minus,** Northeastern University, USA
**Title: Cutting edge developments in the analysis of protein colloids in amyloid fiber formation**
**Jonathan R. Anson,** Florida Institute of Technology, USA
**Title: Nanostructured composites for controlled drug delivery and stem cell functions**
**Huinan Liu,** University of California at Riverside, USA

**Coffee Break & Poster Presentations @ Event Center**

**Title: Precision manipulation, assembling, and actuation of nanoentities by electric tweezers**
**Donglei (Emma) Fan,** The University of Texas at Austin, USA
**Title: Site-targeting nanotherapeutics for micro vascular normalization**
**Kaustabh Ghosh,** University of California, USA
**Title: Properties and fabrication of functional oxide nanoparticles for future electronic devices**
**Keigo Suzuki,** Murata Manufacturing Co.Ltd., Japan
**Title: Smart nanostructured implants for regenerative nanomedicine**
**N. Benkirane-Jessel,** French National Institute of Health and Medical Research, France

**Lunch Break @ Event Center**

**Track 2: Nanomaterials and Nanocomposites (Session 1 B)**

**Session Chair: Farid Menaa,** Fluorotronics Inc., USA

**Session Co-Chair: Abdel Hadi Kassiba,** University of Maine, France

**Session Introduction**

**Title: Nanostructures for control of nansocale light-matter interaction**
**Ganapathi Subramania,** Sandia National Laboratories, USA
**Title: Popping up graphene oxide for capacitive applications**
**Lianxi Zheng,** Nanyang Technological University, Singapore
**Title: Functional nanocomposites based on silicon carbide nanoparticles: Selected insights on electronic and optical features**
**Abdel Hadi Kassiba,** University of Maine, France
**Title: Characterization and application of nanoalumina prepared by different routes**
**Nelcy D. S. Mohallem,** Universidade Federal de Minas Gerais, Brazil
**Title: Flame retardant nanocomposites for engineering application**
**R. Suresh,** R V College of Engineering, India
**Title: Preparation and wear characterisation of zirconium nano particle reinforced with Al356.1 aluminium alloy matrix**
**Chittappa H. C,** Bangalore University, India
**Title: Chiral quantum dots**
**Y. K. Gun'ko,** Trinity College of Dublin, Ireland
**Title: Graphene & derivatives: The G point in regenerative medicine?**
**Farid Menaa,** Fluorotronics Inc., USA

**Coffee Break @ Event Center**

**Title: Thermal stability and mechanical properties of nanostructured coatings for innovative applications in the oil and gas industry**
**F. Musharavati,** Qatar University, Qatar
**Title: Catalytic reactions on Pt nanoclusters. Size and coverage effects in CO oxidation and methanol decomposition**
**Sergey Dobrin,** University of Toronto, Canada
**Title: Graphite reinforced polymer nanocomposites for conducting packaging applications**
**Sarat K. Swain,** Veer Surendra Sai University of Technology, India
**Title: Biotemplated semiconductor/metal nanostructures - Their characteristic features and future prospects**
**Anil Kumar,** Indian Institute of Technology Roorkee, India

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## Fiji

**Track 2: Nanomaterials and Nanocomposites (Session 2)**

**Session Chair: Cengiz S. Ozkan,** University of California Riverside, USA

**Session Co-Chair: Hai- Feng Frank Ji,** Drexel University, USA

**Session Introduction**

**Title: Nanoparticles in humans: Experiments, methods and strategies**
**Lev S. Ruzer,** Lawrence Berkeley National Laboratory, USA
**Title: Needleless electrospinning of nanofiber nonwovens and highly-twisted nanofiber yarns**
**Tong Lin,** Deakin University, Australia
**Title: Self assembled organic and organic-Inorganic nanopillars**
**Hai-Feng Frank Ji,** Drexel University, USA
**Title: Van der Waals interaction between nanostructures**
**Jianmin Tao,** Tulane University, USA
**Title: Nanostructured materials for advanced energy storage**
**Cengiz S. Ozkan,** University of California Riverside, USA
**Title: Synthesis and self-assembly of dielectric nanocubes**
**Dewei Chu,** University of New South Wales, Australia

**Coffee Break & Poster Presentations @ Event Center**

**Title: Aerosols handbook: Measurement, dosimetry, and health effects**
**Lev S. Ruzer,** Lawrence Berkeley National Laboratory, USA
**Title: Titanium dioxide based nanostructured polycarbazole reinforced Organic-Inorganic composite material**
**Mohammad Shakir,** Aligarh Muslim University, India
**Title: Design of nanoporous cluster-assembled materials**
**Jon M. Matxain,** University of the Basque Country, Spain
**Title: Origin of huge coercivity in iron oxide ε-Fe2O3**
**Marie Yoshikiyo,** The University of Tokyo, Japan
**Title: Interface engineering of $CeO_2$ nanostructure based memristors**
**Adnan Younis,** University of New South Wales, Australia

**Lunch Break @ Event Center**

**Track 6: Biomaterials and Tissue Engineering**

**Session Chair: Narayan Bhattarai,** North Carolina A&T State University, USA

**Session Co-Chair: Hongjing Dou,** Shanghai Jiao Tong University, China

**Session Introduction**

**Title: The Effect of polymer/ceramic scaffold architecture and composition on the growth of MC3T3 osteoblastic cell line**
**Amy Yousefi,** Miami University, USA
**Title: Functional electrospun nanofibers for biomedical applications**
**Narayan Bhattarai,** North Carolina A&T State University, USA
**Title: *In vitro* and *ex vivo* toxicology of antimicrobial conjugated electrolytes: Interactions with mammalian cells**
**Heather Canavan,** University of New Mexico, USA
**Title: Osteoporosis treatment of hybrid biomaterial chitosan- bioactive glass graft: Effects on bone remodeling**
**Hassane Oudadesse,** University of Rennes1, France
**Title: Solid-liquid multiphase simulation of protein-surface interaction and protein adsorption on polymer surfaces**
**P. K. Biswas,** Tougaloo College, USA
**Title: Revolutionizing metallic biomaterials for biodegradable implants**
**J. Sankar,** North Carolina A&T State University, USA
**Title: Electrochemical synthesis and evaluation of platinum-iridium-oxide thin film for biomedical applications**
**Artin Petrossians,** University of Southern California, USA
**Title: Hierarchical scaffolds produced by a hybrid solid free form fabrication/thermally-induced phase separation technique**
**Amy Yousefi,** Miami University, USA

**Coffee Break @ Event Center**

**Title: Medical applications of amphiphilic comb type graft copolymer containing inorganic nanoparticles**
**Derya Burcu Hazer,** Mugla Sitki Kocman University, Turkey
**Title: Structured PEGs for manipulation of biological macromolecules**
**Kazushi Kinbara,** Tohoku University, Japan
**Title: Bulk compounding of PCL-PEO blends for 3D plotting of scaffolds for cardiovascular tissue engineering**
**K. Ragaert,** Ghent University, Belgium
**Title: Advancement in tissue engineering scaffold development: Rapid prototyping technology**
**Md Enamul Hoque,** University of Nottingham Malaysia Campus, Malaysia
**Title: Enhanced effect of silver nanoparticles on the bioactivity of hydroxyapatite nanocomposite**
**A. A. Mostafa,** University of Rennes 1, France
**Title: Facile preparation of multi-scaled quantum dot barcodes and their application in multiplexed hepatitis B detection**
**Hongjing Dou,** Shanghai Jiao Tong University, China
**Title: Reprogramming macrophages to combat cancer by engineering polymer surface properties**
**Kaitlin M. Bratlie,** Iowa State University, USA

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## Day 3 October 09, 2013

## Salon A

**Track 7: Materials Chemistry (Organic and inorganic) and Sustainable Chemistry**
**Track 8: Biophysics & Systems Biology**

**Session Chair: Shin-ichi Ohkoshi,** The University of Tokyo, Japan

**Session Co-Chair: Toshio Naito,** Ehime University, Japan

**Session Introduction**

**Title: Giant vesicles prepared by nitroxide-mediated photo-controlled/ living radical polymerization-induced self-assembly**
**Eri Yoshida,** Toyohashi University of Technology, Japan
**Title: Production of jet and diesel fuel blend stocks from dienes via catalysis**
**Padmaja Gunda,** Pacific Northwest National Laboratory, USA
**Title: Novel functionalities on metal complex material and metal oxide-based nanomaterial**
**Shin-ichi Ohkoshi,** The University of Tokyo, Japan
**Title: Reversible and simultaneous control of conduction and magnetism in organic materials by UV irradiation**
**Toshio Naito,** Ehime University, Japan
**Title: Hepatic and renal toxicity of cadmium in protein malnourished rats**
**Syed Saleem Husain,** Jazan University, KSA

**Coffee Break @ Event Center**

**Title: The study of rhodium substituted ε-iron oxide nanomagnets exhibiting gigantic coercive field, high frequency millimeter wave absorption**
**Asuka Namai,** University of Tokyo, Japan
**Title: Evaluation of effect of different solvents on the oxidation of benzyl alcohol & cyclohexanol using modified clays**
**N. Suma,** Global Academy of Technology, India

**Track 9: Optics and Laser Technology**
**Track 10: Advances in Instrumentation Technology**
**Track 11: Emerging Areas of Materials Science**

**Session Chair: Avin Pillay,** The Petroleum Institute, UAE

**Session Co-Chair: Victor Abrukov,** Chuvash State University, Russia

**Session Introduction**

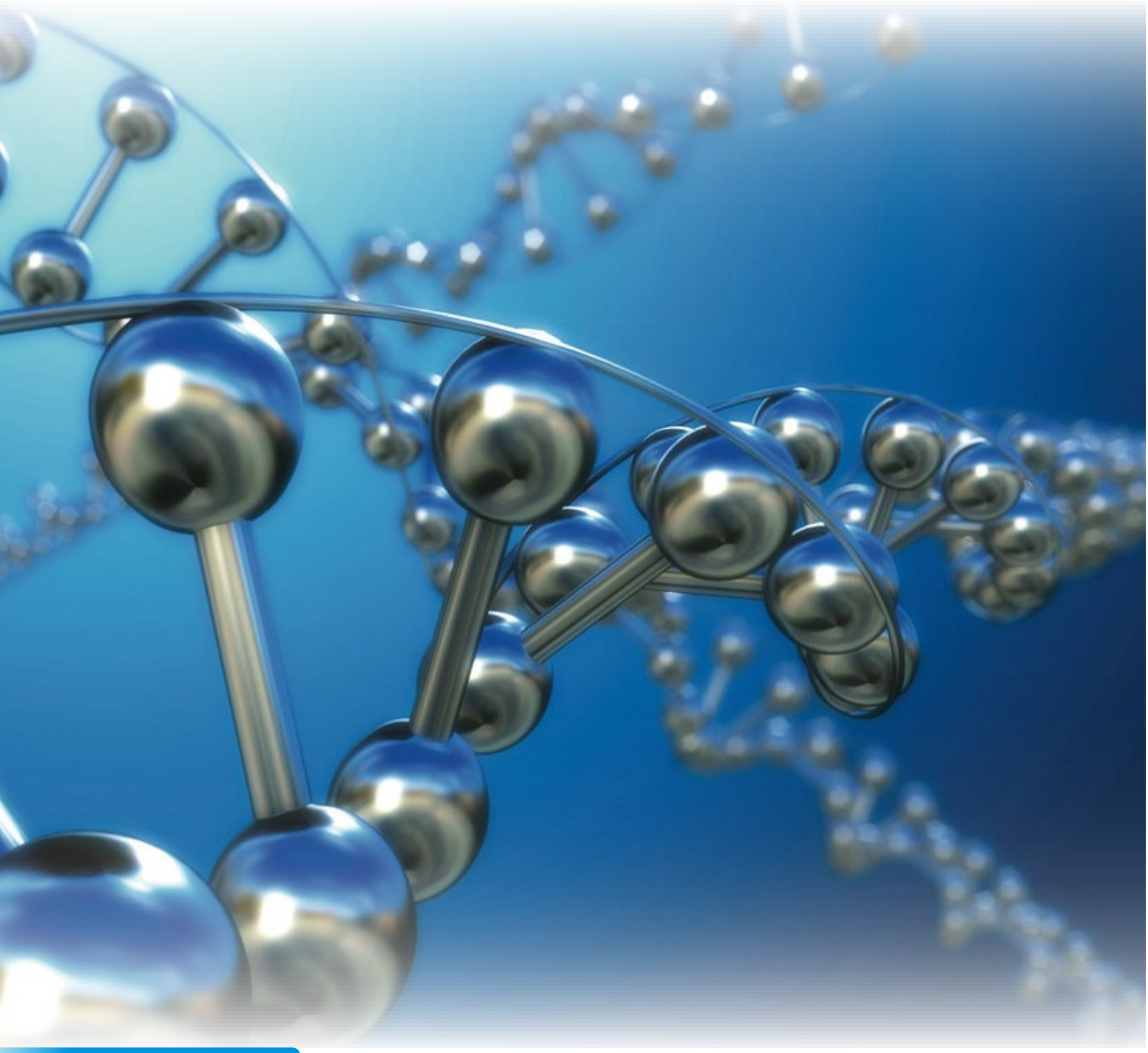
**Title: Atomic-level precise artificial atom towards material innovation**
**Norifusa Satoh,** National Institute for Materials Science, Japan
**Title: High-speed atomic force microscopy for video imaging of functioning biological molecules**
**Noriyuki Kodera,** Kanazawa University, Japan
**Title: Antimicrobial surfaces containing immobilized photosensitizers**
**Marina Nisnevitch,** Ariel University, Israel
**Title: PAC Spectroscopy: A technique to characterize materials at an atomic scale**
**R. Dogra,** Beant College of Engineering & Technology, India

**Lunch Break @ Event Center**

**Title: An educational perspective on Materials Science**
**Souhaila F. Almutawa,** Kuwait University, Kuwait
**Title: In-homogenous broadening in InP/AlGaInP quantum dot laser structures**
**Mohammed Saad Al-Ghamdi,** King Abdulaziz University, Saudi Arabia
**Title: Geometric stabilities, electronic and magnetic properties of stable palladium adsorption on graphene-A first principle study**
**Md Mahmudur Rahman,** Universiti Putra Malaysia, Malaysia
**Title: Novel approach for deep-UV depth-profiling studies (ICP-MS) of soft waxes and asphaltenes using liquid nitrogen pre-treatment**
**Avin Pillay,** The Petroleum Institute, UAE

**Title: A new material experiment: Data mining for modeling, data mining for presentation**
**Victor Abrukov,** Chuvash State University, Russia
**Title: Development of a radial basis function neural network for the recognition of common phases Present in carbon steel metallographs**
**Sara E. McCaslin,** The University of Texas at Tyler, USA

**Coffee Break @ Event Center**



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## 3rd International Conference and Exhibition on

# Materials Science & Engineering

**October 06-08, 2014 San Antonio, USA**


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