

198th OMICS Group Conference

Scientific Program



International Summit on Past and Present Research Systems of Green Chemistry

August 25-27, 2014 Hilton Philadelphia Airport, USA

Media Partners



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OMICS Group Conferences

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Email: greenchemistry2014@omicsgroup.us

Independence A



09:00-09:35

Opening Ceremony

Keynote Forum

- 09:35-09:40 **Introduction**
- 09:40-10:05 **Tatsuya Nabeshima**
University of Tsukuba, Japan
- 10:05-10:30 **Ingrid Mergelsberg**
Merck Co., Inc., USA
- 10:30-10:55 **Mark Hayward**
Active Ingredient Technologies, USA

Coffee Break 10:55-11:10 @ Foyer

- 11:10-11:35 **Steven J Langford**
Monash University, Australia
- 11:35-12:00 **Moinuddin Sarker**
AEE-CT Chapter, USA
- 12:00-12:25 **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

- 12:25-12:45 **Title: Methods and systems for converting plastic to fuel**
Moinuddin Sarker, AEE-CT Chapter, USA
- 12:45-13:05 **Title: Plasma chemistry for suitability and environmental safety**
Hai-Feng Ji, Drexel University, USA

Lunch Break 13:05-13:45 @ Benjamins

- 13:45-14:05 **Title: Keratin waste: A valuable resource for pharmaceutical and forensic applications**
Ramiz Boulos, Flinders University, Australia
- 14:05-14:25 **Title: Electronic states and photocatalytic activities of TiO₂ modified with metal nanoparticles studied by far-ultraviolet spectroscopy**
Ichiro Tanabe, Kwansei Gakuin University, Japan
- 14:25-14:45 **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
- 14:45-15:05 **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
- 15:05-15:25 **Title: Fluorescent dipyrin-typical-element complexes responding to external stimuli**
Tatsuya Nabeshima, University of Tsukuba, Japan
- 15:25-15:45 **Title: Recent structure relationship studies (SAR) on natural occurring sulfonium salts as potent α-glucosidase inhibitors**
Weijia Xie, China Pharmaceutical University, China

15:45-16:05 **Title: Nanostructured biodegradable polymeric materials through a green chemical approach**
Bingbing Li, Central Michigan University, USA

Coffee Break 16:05-16:20 @ Foyer

16:20-16:40 **Title: Supercapacitive swing adsorption of carbon dioxide**
Kai Landskron, Lehigh University, USA

16:40-17:00 **Title: Mechanism-based molecular design of chemicals with low carcinogenicity potential**
David Y Lai, US Environmental Protection Agency, USA

17:00-17:20 **Title: Application of aquatic plant phytoremediation as green technology treatment of lead in polluted water**

Nadia Badr, Alexandria University, Egypt

17:20-17:40 **Title: Chemical depolymerization of lignin in ionic liquids**
Kei Saito, Monash University, Australia

17:40-18:00 **Title: Infiltration of green chemistry concept in chemistry experiment teaching**
Hua Yan, Logistic Engineering University, China

18:00-18:20 **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

18:30-19:30 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

10:00-10:20 **Title: Green chemistry in a changing landscape - Isn't green chemistry simply good chemistry?**
Steven J Langford, Monash University, Australia

10:20-10:40 **Title: Developing flavoprotein alkene reductases into synthetically useful catalysts for asymmetric reductions**
Jon D Stewart, University of Florida, USA

Coffee Break 10:40-10:55 @ Foyer

10:55-11:15 **Title: Inverse molecular design of green catalysts for biomass conversion**
Dequan Xiao, University of New Haven, USA

11:15-11:35 **Title: Efficient catalyst reuse by dissolution in non-conventional media**
Carlos A M Afonso, University of Lisbon, Portugal

11:35-11:55 **Title: Improving the adsorptive properties of biomaterials for the removal of heavy metals**
Abel E Navarro, Borough of Manhattan Community College, USA

11:55-12:15 **Title: Minimally competent lewis acids for the synthesis of glycosides**
Robin Polt, The University of Arizona, USA

12:15-12:35 **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 13:30-14:10 @ Benjamins

14:10-14:30 **Title: An extremely stable and highly active periodic mesoporous lewis acid silica for mukaiyama-aldol reaction in water**

Fang Zhang, Shanghai Normal University, China

14:30-14:50 **Title: Bi-functional catalyst for conversion of 2-methylfuran as an waste biomass derived chemical to biodiesel**

Hattrick-Simpers, University of South Carolina, USA

14:50-15:10 **Title: Catalysis, atom economy and green toxicology: Tools for sustainable chemistry and drug discovery**
Nicholas Gathergood, Dublin City University, Ireland

15:10-15:30 **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

15:30-15:50 Title: Recent findings on anti-tumoral and antioxidant triterpene saponins from some Cameroonian medicinal plants

Tapondjou A Leon, University of Dschang, Cameroon

Coffee Break 15:50-16:05 @ Foyer

Panel Discussion

16:05-17:00 Poster Presentations @ Foyer

18:30-19:30 Cocktails Sponsored by Journal of 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

10:00-10:20 Title: Finding the innovation in green chemistry/engineering

John A Glaser, US Environmental Protection Agency, USA

10:20-10:40 Title: Green chemistry at merck - A development chemist's perspective

Ingrid Mergelsberg, Merck Co., Inc., USA

Coffee Break 10:40-10:55 @ Foyer

10:55-11:15 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

11:15-11:35 Title: New separations strategies with an emphasis on recycling chemistry for high value rare earth elements

Eric J Schelter, University of Pennsylvania, USA

11:35-11:55 Title: Green chemistry innovation in the synthesis of medicines

Rakeshwar Bandichhor, Dr. Reddy's Laboratories, India

11:55-12:15 Title: Recent advances in heteropoly acids-catalyzed organic reactions in water

Majid M Heravi, Alzahra University, Iran

12:15-12:35 Title: Novel organic transformations in aqueous media

J S Yadav, Indian Institute of Chemical Technology, India

12:35-12:55 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

12:55-13:15 Title: Polymer-supported siloxane transfer agents: A green chemistry approach toward cross-coupling reactions

Minh H Nguyen, University of Pennsylvania, USA

13:15-13:35 Title: Determination of organochlorine pesticides in water samples and decomposition kinetics of Chlorpyrifos using advanced oxidation process

Muhammad Ismail, University of Peshawar, Pakistan

Lunch Break 13:35-14:15 @ Benjamins

Panel Discussions

Bookmark your dates

2nd International Conference on

Past and Present

Research Systems of Green Chemistry

September 14-16, 2015 Florida, USA

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Accelerating Scientific Discovery

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