Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

International Summit on Past and Present Research Systems of Green Chemistry

August 25-27, 2014 Hilton Philadelphia Airport, USA



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"Organize your Events at OMICS Group Conferences"

Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS Group Conferences
5716 Corsa Ave., Suite 110, Westlake Los Angeles, CA 91362-7354, USA
Phone: +1-650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499
Email: *greenchemistry2014@omicsgroup.us*

Day 1 August 25, 2014

08:30-09:30 Registrations

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

12:45-13:05 **Plasma chemistry for suitability and environmental safety**
Hai-Feng Ji, Drexel University, USA

Lunch Break 13:05-13:45 @ Benjamins

13:45-14:05 **Keratin waste: A valuable resource for pharmaceutical and forensic applications**
Ramiz Boulos, Flinders University, Australia

14:05-14:25 **Electronic states and photocatalytic activities of TiO_2 modified with metal nanoparticles studied by far-ultraviolet spectroscopy**
Ichiro Tanabe, Kwansei Gakuin University, Japan

14:25-14:45 ***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 **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 **Fluorescent dipyrrin-typical-element complexes responding to external stimuli**
Tatsuya Nabeshima, University of Tsukuba, Japan

15:25-15:45 **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	**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	**Supercapacitive swing adsorption of carbon dioxide** **Kai Landskron**, Lehigh University, USA
16:40-17:00	**Mechanism-based molecular design of chemicals with low carcinogenicity potential** **David Y Lai**, US Environmental Protection Agency, USA
17:00-17:20	**Application of aquatic plant phytoremediation as green technology treatment of lead in polluted water** **Nadia Badr**, Alexandria University, Egypt
17:20-17:40	**Chemical depolymerization of lignin in Ionic liquids** **Kei Saito**, Monash University, Australia
17:40-18:00	**Infiltration of green chemistry concept in chemistry experiment teaching** **Hua Yan**, Logistic Engineering University, China
18:00-18:20	**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	**Green chemistry in a changing landscape - Isn't green chemistry simply good chemistry?** **Steven J Langford**, Monash University, Australia
10:20-10:40	**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	**Inverse molecular design of green catalysts for biomass conversion** **Dequan Xiao**, University of New Haven, USA
11:15-11:35	**Efficient catalyst reuse by dissolution in non-conventional media** **Carlos A M Afonso**, University of Lisbon, Portugal
11:35-11:55	**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	**Minimally competent lewis acids for the synthesis of glycosides** **Robin Polt**, The University of Arizona, USA
12:15-12:35	**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	**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	**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	**Catalysis, atom economy and green toxicology: Tools for sustainable chemistry and drug discovery** **Nicholas Gathergood**, Dublin City University, Ireland
15:10-15:30	**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	**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 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	**Finding the innovation in green chemistry/engineering** **John A Glaser,** US Environmental Protection Agency, USA
10:20-10:40	**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	**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	**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	**Green chemistry innovation in the synthesis of medicines** **Rakeshwar Bandichhor,** Dr. Reddy's Laboratories, India
11:55-12:15	**Recent advances in heteropoly acids-catalyzed organic reactions in water** **Majid M Heravi,** Alzahra University, Iran
12:15-12:35	**Novel organic transformations in aqueous media** **J S Yadav,** Indian Institute of Chemical Technology, India
12:35-12:55	**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	**Polymer-supported siloxane transfer agents: A green chemistry approach toward cross-coupling reactions** **Minh H Nguyen,** University of Pennsylvania, USA
13:15-13:35	**Determination of organochlorine pesticides in water samplesand 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

OMICS Group Conferences
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2nd International Conference on
Past and Present Research Systems of Green Chemistry
September 14-16, 2015 Florida, USA

