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661st Conference

Scientific Program

International Conference on

Chemical Engineering

September 12-14, 2016 Phoenix, USA



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Day 1 September 12, 2016

09:00-09:30 Registrations

Staghorn

conferenceseries.com 09:30-09:45 **Opening Ceremony**

Keynote Forum

09:45-10:00 Introduction

10:00-10:40 **Title: Frontiers in chemical engineering for sustainable earth**

Ravindra Pogaku, University Malaysia Sabah (UMS), Malaysia

Refreshments and Networking Break: 10:40-11:00 @ Foyer

11:00-11:40 **Title: Stimuli-responsive and nanostructured polymer films for modulating surface properties: Fabrications, applications and limitations**

Suzanne Giasson, Université de Montréal, Canada

Panel Discussion

Sessions:
Advances in Chemical & Process Engineering | Advances in renewable chemicals | Thermodynamics | Separation process

Session Chair: Amarjit Bakshi, Refining Hydrocarbon Technologies LLC, USA
Session Co-Chair: Aymn Abdulrahman, University of Jeddah, Saudi Arabia

Session Introduction

11:40-12:15 **Title: Change refinery gasoline economics by breakthrough smart technologies: RHT- alkylation and RHT-iso-octene and iso-octane technology**

Amarjit Bakshi, Refining Hydrocarbon Technologies LLC, USA

12:15-12:45 **Title: Acetic acid removal from pre-pulping wood extract**

Aymn Abdulrahman, University of Maine, USA

12:45-13:15 **Title: Selective removal of boron from solutions using radiation grafted microfibrous and nanofibrious adsorbents containing glucamine ligands**

Mohamed Mahmoud Nasef, Universiti Teknologi Malaysia, Malaysia

Lunch Break: 13:15-14:00 @ Foyer

14:00-14:30 **Title: Application of Acti-Zyme in wastewater treatment for recovering biogas**

Daniel Ikhu-Omoregbe, Cape Peninsula University of Technology, South Africa

14:30-15:00 **Title: Production of high value added petroleum additives by esterification of carboxylic acids using solid acid catalyst zeolite Hβ**

Vaishali Rakesh Umrigar, Sardar Vallabhbhai National Institute of Technology, India

15:00-15:30 **Title: Use of distillery spent grains in fermentative lactic acid production**

Dragomir Yankov, Bulgarian Academy of Sciences, Bulgaria

15:30-16:00 **Title: Treatment of an alternative water source for drought relief**

Talbott G. Howard, ECT Services & Solutions Inc., USA

Refreshments and Networking Break: 16:00-16:20 @ Foyer

Panel Discussion

Day 2 September 13, 2016

Staghorn

Keynote Forum

10:00-10:40	Introduction **Title: Controlling the morphological and property development in network-forming multiblock ionomers** **Richard J Spontak**, NC State University, USA

Refreshments and Networking Break: 10:40-11:00 @ Foyer

11:00-11:40	**Title: Process intensification using catalysis for renewable fuels and chemicals** **Haresh Manyar**, Queen's University Belfast, UK

Panel Discussion

Sessions:
Chemical Polymer Technology | Petroleum Refining and Petrochemicals | Applications of Chemical Technology | Biomolecular Engineering

Session Chair: Ravindra Pogaku, University Malaysia Sabah (UMS), Malaysia
Session Co-Chair: Haresh Manyar, Queen's University Belfast, UK

11:40-12:10	**Title: Impact of biopolymer's chemical heterogeneity on drug release from matrix formulations – An experimental study combined with simulations of the drug release** **Anette Larssson**, Chalmers University of Technology, Sweden
12:10-12:40	**Title: Gold based catalyst for low temperature water-gas shift reaction** **Jehad Abu-Dahrieh**, Queen's University Belfast, UK
12:40-13:10	**Title: Study of non-isothermal crystallization kinetics of polypropylene and acrylonitrile butadiene styrene (ABS) blends** **Bader Albusairi**, Kuwait University, Kuwait

Lunch Break 13:10-13:55 @ Foyer

13:55:14:30	**Title: Chemical Engineers: Untold contributions to humanity** **Tony Green**, Speaking Green Communications Livermore, USA
14:30-15:00	**Title: Removal of sulfides and oil from produced water** **Ana Karla Costa de Oliveira**, Federal Institute of Rio Grande do Norte, Brazil
15:00-15:30	**Title: Systematic and knowledge-based invention in science and industry - 1; context, problematics, and research strategy** **Ali Taheri**, Exaura Artefact Inc., USA

Workshop Session

15:30-16:15	**Title: Biofuels 2016** **Ravindra Pogaku**, University Malaysia Sabah (UMS), Malaysia

Panel Discussion

Refreshments and Networking Break: 16:15-16:35 @ Foyer

Poster presentations: 16:35-17:00

CME-1	**Title: Energy efficiency of a fuel cell for environmental purposes** **Dragomir Yankov**, Bulgarian Academy of Sciences, Bulgaria
CME-2	**Title: Synthesis and characterization of a photoluminescent Zr-based metal-organic framework with controllable UV-induced structural variation and ultrahigh hydrostability** **Bohan Shan**, Arizona State University School for Engineering of Matter, USA
CME-3	**Title: Effective reduction of aromatic rings of phenols and anisoles as lignin-like compounds using iron powder and Rh/C in sulfuric acid** **Daiki Yokoyama**, Prefectural University of Hiroshima, Japan

Day 3 September 14, 2016

Staghorn

Sessions:
Electrochemical Engineering | Biochemical engineering | Renewable energy & Environment

Session Chair: Daniel Ikhu-Omoregbe, Cape Peninsula University of Technology, South Africa
Session Co-Chair: Ali Taheri, Exaura Artefact Inc., USA

09:30-10:00	**Title: Analysis of heavy metals distribution in municipal solid wastes in Cape Town** **Daniel Ikhu-Omoregbe,** Cape Peninsula University of Technology, South Africa
10:00-10:30	**Title: An overview of renewable fuels ethanol from cellulose and bio-diesel from conventional / Algae feed status and economic options for ETBE** **Amarjit Bakshi,** Refining Hydrocarbon Technologies LLC, USA

Refreshments and Networking Break: 10:30-10:50 @ Foyer

10:50-11:20	**Title: Systematic and knowledge-based invention in science and industry - 2; TRIZ, IDM-TRIZ, and STEPS software** **Ali Taheri,** Exaura Artefact Inc., USA
11:20-11:50	**Title: Removal of mixed acids from aqueous solution** **Aymn Abdulrahman,** University of Maine, USA

Workshop Session

11:50-13:00	**Title: Fundamentals of pipeline corrosion principles and mitigation** **Amarjit Bakshi,** Refining Hydrocarbon Technologies LLC, USA

Panel Discussion

Lunch Break: 13:00-13:45 @ Foyer

Closing Ceremony



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2nd International Conference on

Chemical Engineering

October 2-4, 2017 Chicago, USA

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