

Scientific Program

3rd World Congress on

Petrochemistry and Chemical Engineering

November 30-December 02, 2015 Atlanta, USA



Exhibitor

**Greenfield
Advisors**

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Scientific Program

Day 1 November 30, 2015

09:00-09:30 Registrations

Grand Ball Room B



09:30-10:00

Opening Ceremony

Keynote Forum

- 10:00-10:05 **Introduction**
- 10:05-10:30 **Russell R Chianelli**
University of Texas at El Paso, USA
- 10:30-10:55 **Clifford Lipscomb**
Greenfield Advisors LLC, USA

Networking & Refreshments Break 10:55-11:10 @ Foyer

Track 1: Chemical Applications in Producing Oil & Gas

Track 2: Fuel Chemistry, Technology & Processing

Session Chair: Tereza Neuma de Castro Dantas, Federal University of Rio Grande do Norte, Brazil

Session Chair: Antanas Juostas, Aleksandras Stulginskis University, Lithuania

Session Introduction

- 11:10-11:30 **Transformation of vanadyl porphyrins in heavy residue during thermal upgrading under hydrogen**
Zongxian Wang, China University of Petroleum, China
- 11:30-11:50 **Pyrolytic and properties of endothermic fuels in minichannels at temperatures up to 750°C**
Qincheng Bi, Xi'an Jiaotong University, China
- 11:50-12:10 **Tractor fuel consumption, exhaust emissions and their normative assessment during field application**
Antanas Juostas, Aleksandras Stulginskis University, Lithuania
- 12:10-12:30 **Development and application of a fluid catalytic cracking gasoline hydro-upgrading process GARDES**
Xiaojun Bao, Fuzhou University, China
- 12:30-12:50 **Supercritical water oxidation for the treatment of hazardous effluents**
Bushra Al-Duri, University of Birmingham, UK

Lunch Break 12:50-13:35 @ Foyer

- 13:35-13:55 **A robust image analysis approach for high void fraction gas-liquid flows**
Ashish Karn, University of Minnesota Twin Cities, USA
- 13:55-14:15 **Complex processing of solid fuel in plasma chemical reactor**
Alexandr Ustimenko, Institute of Combustion Problems, Kazakhstan
- 14:15-14:35 **Geochemical significance of petroleum asphaltenes as maturity and source indicator of oil**
Manoj Kumar Sarmah, Oil India Limited, India
- 14:35-14:55 **Comparative study of oil recovery efficiency enhanced by surfactants, microemulsions, and nanoemulsions**
Tereza Neuma de Castro Dantas, Federal University of Rio Grande do Norte, Brazil
- 14:55-15:15 **Technology of pulse and wave development of a network of cracks in a bottomhole zone of oil or gas layer**
Shipulin Alexander Vladimirovich, National Mineral Resources University, Russia
- 15:15-15:35 **Research and application of compound viscosity reducer in ultra-heavy oil wells**
YuQi Yang, China University of Petroleum, China

Networking & Refreshments Break 15:35-15:50 @ Foyer

- 15:50-16:10 **Thermodynamic modeling behavior of cellulose acetate / polyvinyl chloride blend membrane preparation**
Ayman Taha Abd El-aziem El-gendi, National Research Center, Egypt
- 16:10-16:30 **Analysis of natural fractures and effect of deformation intensity on fracture density in Garau Formation for shale gas development within two anticlines of Zagros fold and thrust belt, Iran**
Asaad Pireh, Research Institute of Petroleum Industry, Iran
- 16:30-16:50 **CO₂-Prophet model based evaluation of CO₂-EOR and storage potential in mature oil reservoirs**
Dayanand Saini, California State University, USA

Day 2 December 01, 2015

Grand Ball Room B

Keynote Forum

- 10:00-10:25** **Erich Hums**
Consulting Environmental Catalysis, Germany
- 10:25-10:50** **Zulkhair Mansurov**
Institute of Combustion Problems, Kazakhstan

Networking & Refreshments Break 10:50-11:05 @ Foyer

Track 3: Petroleum Geology

Track 4: Renewable Energy & Feedstock

Track 5: Environmental & Pollution Issues

Track 6: Filtration & Separation

Session Chair: Peter Wasserscheid, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Session Co-Chair: Rakhi Mehta, Sarvajanic College of Engineering and Technology, India

Session Introduction

- 11:05-11:25** **The structural changes of asphaltenes and metalloporphyrins during hydroconversion**
Olga Vladimirovna Zaitceva, Topchiev Institute of Petrochemical Synthesis, Russia
- 11:25-11:45** **Automating sandstone acidizing using a rule-based system**
Ali Garrouch, Kuwait University, Kuwait
- 11:45-12:05** **Title:Modelling of steam gasification of char in a circulating fluidised bed**
Mukhtar Bashir, Aston University, UK
- 12:05-12:25** **Real and perceived risks in communities near unconventional shale gas/oil activities**
Clifford A Lipscomb, Greenfield Advisors LLC, USA
- 12:25-12:45** **Evaluation of the causes of increasing the pressure drop of fixed bed reactor RCD unit**
Ali Shaeri, NIOEC, Iran

Lunch Break 12:45-13:30 @ Foyer

- 13:30-13:50** **Nanofuels: Preparation, stabilization and combustion**
Rakhi Mehta, Sarvajanic College of Engineering and Technology, India
- 13:50-14:10** **Numerical prediction of the reaction rate constant of chlorine disinfection process at a wastewater treatment plant. Experimental model validation and simulation studies**
Feridun Demir, OsmaniyeKorkut Ata University, Turkey
- 14:10-14:30** **HT-PEMFC electrocatalysts applied in desulfurization**
Maria Sol Rau, Fraunhofer Institute for Chemical Technology ICT, Germany
- 14:30-14:50** **Hydrogen storage and transport in Liquid Organic Hydrogen Carriers (LOHCs)**
Peter Wasserscheid, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- 14:50-15:10** **A surfactant/polymer flood potential in a typical Middle Eastern reservoir**
Ridha Gharbi, Kuwait Oil Company, Kuwait
- 15:10-15:30** **Characterization of the corrosion of oilwell cement exposed to H₂S under high-sulfur gas reservoir conditions**
Gu Tao, Southwest Petroleum University, China

Networking & Refreshments Break 15:30-15:45 @ Foyer

Poster Presentations 15:45-16:45

Day 3 December 02, 2015

Grand Ball Room B

Track 7: Chemical Reaction Engineering

Track 8: Process Chemistry & Technology

Track 9: Applied Catalysis

Session Chair: Mamdouh A Gadalla, The British University in Egypt, Egypt

Session Co-Chair: Masanobu Kubota, Kyushu University, Japan

Session Introduction

- 09:30-09:50** **Aqueous extraction of organic part of oil sands under influence of ultrasound**
F Sultanov, Institute of Combustion Problems, Kazakhstan
- 09:50-10:10** **A novel graphical technique for pinch analysis applications: Mass and energy integration**
Mamdouh A Gadalla, The British University in Egypt, Egypt
- 10:10-10:30** **Plasma unit for processing of carbon containing waste**
Alexandr Ustimenko, Institute of Combustion Problems, Kazakhstan
- 10:30-10:50** **Fretting fatigue in hydrogen and the effect of impurity addition to hydrogen on fretting fatigue properties**
Masanobu Kubota, Kyushu University, Japan

Networking & Refreshments Break 10:50-11:05 @ Foyer

- 11:05-11:25 Trans-esterification of locally used cooking oil over zirconia/titania nano-catalyst**
Jabbar Gardy, University of Leeds, UK
- 11:25-11:45 Numerical simulation of the liquid-solid counter-current fluidization processes inside an extraction column based on the particle trajectory model**
Li Zhongyuan, Tianjin University, China
- 11:45-12:05 The effects of research octane number and fuel systems on the performance and emissions of a spark ignition engine: A study on Saudi Arabian RON91 and RON95 with port injection and direct injection systems**
Ibrahim Alshunaifi, King Abdulaziz City of Science and Technology, Saudi Arabia
- 12:05-12:25 Investigation of vanadium phosphorus oxide seeds and their effect of the transformation of $VO(H_2PO_4)_2$ to the V-P-O catalyst precursors**
Raja L Al Otaibi, King Abdulaziz City for Science and Technology, Saudi Arabia
- 12:25-12:45 Macroeconomic analysis of current trends in the formation of world prices for oil**
Lyudmila Berezhnaya, Gubkin Russian State Oil and Gas University, Russia

Lunch Break 12:45-13:30 @ Foyer

Awards & Closing Ceremony

Bookmark your dates

4th World Congress on

Petrochemistry and Chemical Engineering

December 05-07, 2016 Phoenix, USA



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