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5th International Conference on

Advances in Chemical Engineering & Technology

October 04-05, 2018
London, UK



SCIENTIFIC PROGRAM

DAY 1
october 4th thursday

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On: Chemical engineering	**Talks On: catalysis engineering**
Nano technology	Photo & Electrocatalysis
process control	Reaction Engineering
Organic Chemical Technology	Structured Catalysts
Inorganic Chemical Technology	Chemical Intermediates

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: Chemical Reactions Engineering	**Talks On:** Thermodynamics process
Modelling of Chemical Reaction Engineering	Thermodynamic equilibrium
Non ideal Reactors and Mixers	Laws of Thermodynamics
Fluidized Bed Technologies	Chemical Thermodynamics
Reaction Testings	Non Equilibrium thermodynamics
Chemical Reactor Designs	Biological Thermodynamics
Mass spectrometry techniques	Plasma electrolytic oxidation

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
young researcher in chemical engineering	Workshop

DAY 2
october 5th friday

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50	MEETING HALL 01	MEETING HALL 02
	Talks On: Polymer Technology	**Talks On: Fluid Dynamics**
	Advances in polymer Science	Newtonian Fluids
	Polymer Processing	Non Newtonian Fluids
	Industrial Aspects of Polymers	Complex Fluids
	Biomics	Navier-Stokes Theorem
	Kinetics of Polymerization Reactions	Computational Fluid Dynamics
	Polymer Modifications	Compressible Flows

12:50-13:35 LUNCH BREAK

13:35-15:55	MEETING HALL 01	MEETING HALL 02
	Talks On: Separation technique	**Talks On: Biofuels**
	Membrane Separation	Biomaterials
	Ion Exchange	Biochemical Engineering
	Micro Filtration	Petroleum Engineering
	Fractional distillation	Environmental Engineering
	Fractional distillation	Water Technology and Innovation
	Electrophoresis	Biotechnology
	Chromatography	Safety Methods
		Enterpreneurship Investment Meet

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

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LONDON Attractions



















Chemical Engineering













Glimpses of Advanced Chemical Engineering Conferences 2017

















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1485th Conference

Scientific Program

2nd International Conference on

Advances in Chemical Engineering and Technology

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Registration

Sunset 2

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Opening Ceremony

Keynote Forum

Introduction

Title: Oil and gas developments and future growth

Amarjit Bakshi, Refining Hydrocarbon Technologies LLC, USA

Networking and Refreshments Break

Title: Spray Flash Evaporation (SFE): A technique for breakthrough chemical engineering challenges

Denis Spitzer, Director NS3E Laboratory, France

Sessions: Chemical Engineering | Catalysis Engineering

Session Chair: P. S. T. Sai, Indian Institute of Technology Madras, India

Session Introduction

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

Title: Reforming of toluene with bimetallic catalysts supported on alumina and synthesized by an aqueous sol-gel process

Stéphanie D. Lambert, , University of Liege, Belgium

Title: Foaming in gas sweetening process: Comprehensive experimental efforts lead to better understanding and predication of amine foaming

Emad Alhseinat, Khalifa University, UAE

Group Photo

Lunch Break

Title: Effect of initial salt concentration on acid and base production from NH_4Cl - NaCl solution by bipolar membrane electrodialysis

Sinan Yapici, Inonu University, Turkey

Title: Synthesis and application of β-cyclodextrin-based cinchona organocatalysts and their recovery by organic solvent nanofiltration

Jozsef Kupai, Budapest University of Technology and Economics, Hungary

Title: Mathematical model for the prediction of the dissolution of residual coffee beans for the sustainable production of energy materials

José Angel Loredo-Medrano, University of Nuevo Leon, Mexico

Sessions: Biotechnology | Biologically Engineered Systems

Session Chair: Kenji Abe, Ajinomoto Inc. , Japan

Session Introduction

Title: Microbial pretreatment of biomass for renewable energy production

Jaron Hansen, Brigham Young University, USA

Title: Biological breakdown of lignocellulose to produce renewable energy

Conly Hansen, Utah State University, USA

Networking and Refreshments Break

Title: Engineering of *Escherichia coli* to facilitate efficient utilization of isomaltose and panose in industrial glucose feedstock

Kenji Abe,Ajinomoto Inc. , Japan

Video Presentation

Title: Chemical looping combustion and gasification technologies for production of heat and valuable commodities

Ranjani Siriwardane, National Energy Technology, USA

Panel Discussion

Day 2 November 17, 2017

Sunset 2

Keynote Forum

Title: Biothermodynamics: Bridging thermodynamics with biochemical Engineering

Urs von Stockar, Swiss Federal Institute of Technology, Lausanne (EPFL), Switzerland

Networking and Refreshments Break

Title: Bio-based chemistry in water: Future perspectives in catalysis

Christophe LEN, Sorbonne Université, France

Sessions: Petroleum Engineering

Session Chair: Amarjit Bakshi, Refining Hydrocarbon Technologies LLC, USA

Session Introduction

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

Title: How can augmented reality change the future of the oil and gas Industry

Mohammad A. AlKazimi, Kuwait Oil Company, Kuwait

Title: Optimization of delay coker unit by using of artificial neural network

Ali Shaeri , The National Iranian Oil Engineering & Construction Co., Iran

Title: Increasing research octane number in a catalytic reforming unit by employing artificial neural network

Ali Shaeri , The National Iranian Oil Engineering & Construction Co., Iran

Lunch Break

Sessions: Biofuels | Chemical Reaction Engineering | Transport Phenomenon | Safety Methods

Session Chair: Emad Alhseinat, Khalifa University, UAE

Session Introduction

Title: Temperature sensors position in chemical reactors: The use of CFD.

Valentina Busini, Politecnico di Milano, Italy

Title: New types, halogen-free, eco-safe, inexpensive fire-extinguishing and fire- protective materials

Lali Gurchumelia, TSU Rafael Agladze Institute of Inorganic Chemistry and Electrochemistry, Georgia

Title: Modeling and simulation of coal gasification in internally circulating fluidized bed

P. S. T. Sai , Indian Institute of Technology Madras, India

Title: The performance of dual-bed system of MoS_2/Al_2O_3 and Co-MoS_2/Al_2O_3 catalysts in ULSD production from the mixture of rapeseed oil and SRGO

Irina V. Deliy, Novosibirsk National Research University, Russia

Title: Investigating the effects of inlet gas velocity on the operation of multi-zone circulating reactors: A CFD study

Reza Marandi, National Petrochemical Company, Research and Technology,Iran

Networking and Refreshments Break

Young Researchers Forum

Title: Study of the retention of hydrophobic actives from cosmetic emulsions on optimized human skin mimics

Georgios Gkotsis, University of Birmingham

Title: Potential of dry fermentation using novel reactors

Regina J. Patinvoh, University of Borås, Sweden

Title: Amino Acids as gas hydrate inhibitors for offshore oil and gas industry

M. Fahed Qureshi , Qatar University, Qatar

Poster Presentations

ECH-01 **Title: Numerical simulation of the mass transfer in hydrophobic hollow fiber using the finite volume method**

Carlos Zambra , Universidad de Talca, Curico, Chile

ECH-02	**Title: Kinetic model and simulation of Fischer Tropsch (FT) reactor with iron catalyst: state of art and FASTCARD alternative.** **Irene Rapone,** Eni SpA, Italy
ECH-03	**Title: First principle Study of the magnetic properties of SnO_2 slab** **Mahmoud Jafari,** K .N. Toosi University of Technology, Iran
ECH-04	**Title: Effect of synthesis process variables on morphological and mechanical properties of vitreous carbon scaffolds for tissue engineering applications** **Natalia Terán-Acuña,** Universidad Industrial de Santander, Colombia
ECH-05	**Title: Adsorption of oxytetracyclin on modified bentonites** **Faroudja Mohellebi ,** Ecole Nationale Polytechnique, Algeria
ECH-06	**Title: Computational Study of thermal properties of TiC Nanowires** **Maryam Jafari ,** University of Tehran, Iran
ECH-07	**Title: Synthesis, characterization and reactivity of mesoporous materials Fe-TUD-1** **Saliha HADDOUM,** Ecole Nationale Polytechnique, Algeria
ECH-08	**Title: Effectiveness of Pyrrolidinium Ionic Liquids as gas hydrate inhibitors** **M. Fahed Qureshi,** Qatar University, Qatar

Panel Discussion

Award & Closing Ceremony



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Day 1 October 02, 2017

Registrations

ZURICH

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Opening Ceremony

Keynote Forum

Introduction

Title: Techno-economic data and feasibility of hydrogen production from biogas using a novel low cost Ni-based reforming catalyst derived from metallurgical residues
Nicolas Abatzoglou, Université de Sherbrooke, Canada

Networking & Refreshment Break

Title: Crossing the gap between research and market in chemical engineering: Application to supercritical technology
Ignacio Gracia, University of Castilla-La Mancha, Spain

Title: The past and future of enhanced oil and gas extraction in the United States
Davis L. Ford, The University of Texas, USA

Panel Discussions

Sessions: Chemical Engineering | Electrochemistry and Electrochemical Engineering | Biochemical Engineering

Session Chair: Ignacio Gracia, University of Castilla-La Mancha, Spain
Session Co-chair: Jong Moon Park, Pohang University of Science and Technology, South Korea

Session Introduction

Title: Opportunities for innovation in chemical industry
Anil Oroskar, Orochem Technologies Inc., USA

Group Photo @ ZURICH

Lunch Break

Title: Preventing thermal runaway propagation in li-ion batteries
Said Al-Hallaj, University of Illinois, Chicago, USA

Title: Identifying electrochemical limitations of solar energy storage
Luca Gael Bertoluzzi, Stanford University, USA

Title: Enhancement of cyanobacterial ethanol production by co-factor engineering
Jong Moon Park, Pohang University of Science and Technology, South Korea

Panel Discussions

Networking & Refreshment Break

Title: Highly efficient oxygen-deficient reduced Tio_{2-x} for sunlight-induced water splitting for H_2 generation
Jong-Sung Yu, Daegu Gyeongbuk Institute of Sicence & Technology, South Korea

Title: An ultra scale-down method to predict diafiltration performance during formulation of concentrated mAb solutions
Lara Fernandez-Cerezo, University College London, UK

Panel Discussions

Day 2 October 03, 2017

ZURICH

Keynote Forum

Introduction

Title: Microwave applications in petroleum processing

Adango Miadonye, Cape Breton University, Canada

Networking & Refreshment Break

Title: Computational fluid dynamics modeling and simulations of fluidized beds for chemical looping combustion

Mr. Ramesh Agarwal, Washington University, USA

Panel Discussions

Sessions:
Chemical Polymer Technology | Thermodynamics |Environmental and Sustainable Chemical Engineering

Session Chair: Ying Liu, University of Illinois, USA

Session Introduction

Title: Colloidal methods for the fabrication of advanced electrodes for electrochemical supercapacitors

Igor Zhitomirsky, McMaster University, Canada

Title: Reduction on water consumption on a cooling tower with the application of a novel biocide

Anderson Beber, Solenis Water Technologies, Brazil

Title: Pre-and post-combustion NOx control system with hydrogen assistance and using microwave technology for biogas engines

Valentino Tiangco, Sacramento Municipal Utility District, USA

Panel Discussions

Lunch Break

Title: Polymeric nanoparticles encapsulating hydrophobic compounds for drug delivery

Ying Liu, University of Illinois, USA

Title: Artificial biomembrane models using polymer giant vesicles: Morphological changes and enhanced permeability of the vesicles by incorporation of ionic segments into the polymer amphiphiles

Eri Yoshida, Toyohashi University of Technology, Japan

Title: Systematic generation of reaction pathways for manufacturing bulk industrial chemicals from carbon- neutral feedstocks

Rakesh Govind, University of Cincinnati, USA

Title: Polymer thermodynamics for pharmaceutical applications

Sabine Enders, Karlsruher Institut für Technologie (KIT), Germany

Networking & Refreshment Break

Title: Experimental solubility study on the high-pressure absorption of small molecules in ethanol oxidation reactions

Kirsten Grubel, Ruhr-University Bochum, Germany

Panel Discussions

Poster Presentations

Title: The definition of the integral characteristics of the process of formation of cavitation bubbles when operating the control valve

Anna Kapranova, Yaroslavl State Technical University, Russia

Title: The study of the volume fraction of key component in the second phase of the portion mixing by means of the device of gravity type

Anna Kapranova, Yaroslavl State Technical University, Russia

Title: Electrochemical carbon dioxide conversion system

Md Obaidullah, Chungbuk National University, South South Korea

Keynote Forum

Introduction

Title: Description of the molecules of heavy oil cuts and their thermodynamic properties to improve physical and chemical kinetic modelling

Melaz Tayakout Fayolle, University of Lyon, France

Networking & Refreshment Break

Sessions:
Petroleum Refining and Petrochemicals | Chemical Reaction Engineering | Chemical Industry and Market Analysis | Biofuels

Session Chair: M. Angeles Martin Luengo, Consejo Superior de Investigaciones Científicas (CSIC), Spain

Session Introduction

Title: Sustainable chemical engineering of renewable resources
M. Angeles Martin Luengo, Consejo Superior de Investigaciones Científicas (CSIC), Spain

Title: Biomolecular engineering of elastin protein for cell transplantation
Mr. Won Bae Jeon, Daegu Gyeongbuk Institute of Science and Technology, South South Korea

Title: Theory and application practice of the binary mixtures sol-gel transition concept for fire and explosion prevention
Denis S Kuprin, Saint Petersburg State University, Russia

Title: The shift of raw materials from oil, coal and natural gas to biomass and residues
Daniela Almeida Streitwieser, Universidad San Francisco de Quito USFQ, Ecuador

Lunch Break

Title: Nanocomposite of polyacrylamide-rGO-Ag-PEDOT/PSS hydrogels by photo polymerization method
Yoon Kuk Ro, Hannam University, South Korea

Panel Discussions

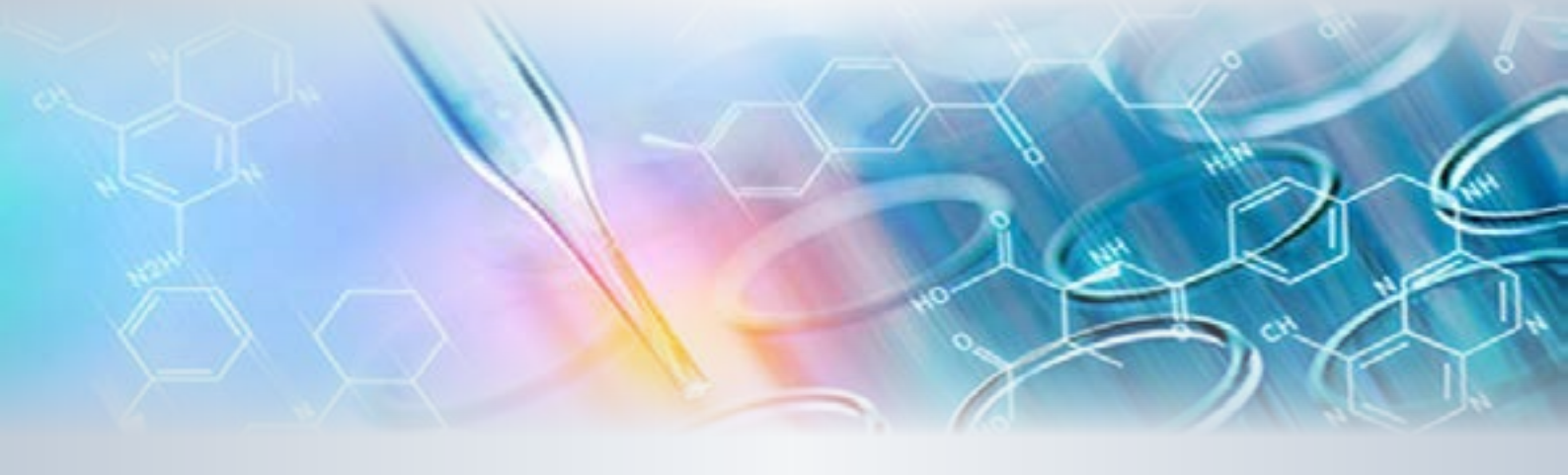
Title : Hybrid metal-Cu_2S nanostructures as efficient co-catalysts for photocatalytic hydrogen generation
Jong-Soo Lee, Daegu Gyeongbuk Institute of Science and Technology, South South Korea

Title: Smart bioactive compounds: Their synthesis and potential application in biodiesel oxidation stability enhancement
Anuchaya Devi, Tezpur University, India

Title: Comparison of pid parameter using multiple dominant poleplacement technique with other techniques for stable third order processes
Ch V Naga Sowjanya, Sri Venkateswara University, India

Networking & Refreshment Break

Closing and Award Ceremony



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Day 1 September 12, 2016

Registrations

Staghorn

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Opening Ceremony

Keynote Forum

Introduction

Title: Frontiers in chemical engineering for sustainable earth

Ravindra Pogaku, University Malaysia Sabah (UMS), Malaysia

Refreshments and Networking Break

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

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
Title: Acetic acid removal from pre-pulping wood extract
Aymn Abdulrahman, University of Maine, USA
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

Title: Application of Acti-Zyme in wastewater treatment for recovering biogas
Daniel Ikhu-Omoregbe, Cape Peninsula University of Technology, South Africa
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
Title: Use of distillery spent grains in fermentative lactic acid production
Dragomir Yankov, Bulgarian Academy of Sciences, Bulgaria
Title: Treatment of an alternative water source for drought relief
Talbott G. Howard, ECT Services & Solutions Inc., USA

Refreshments and Networking Break

Panel Discussion

Day 2 September 13, 2016

Staghorn

Keynote Forum

Introduction

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

Refreshments and Networking Break

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

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
Title: Gold based catalyst for low temperature water-gas shift reaction
Jehad Abu-Dahrieh, Queen's University Belfast, UK
Title: Study of non-isothermal crystallization kinetics of polypropylene and acrylonitrile butadiene styrene (ABS) blends
Bader Albusairi, Kuwait University, Kuwait

Lunch Break

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

Workshop Session

Title: Biofuels 2016
Ravindra Pogaku, University Malaysia Sabah (UMS), Malaysia

Panel Discussion

Refreshments and Networking Break

Poster presentations

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

Title: Analysis of heavy metals distribution in municipal solid wastes in Cape Town
Daniel Ikhu-Omoregbe, Cape Peninsula University of Technology, South Africa
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

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

Workshop Session

Title: Fundamentals of pipeline corrosion principles and mitigation
Amarjit Bakshi, Refining Hydrocarbon Technologies LLC, USA

Panel Discussion

Lunch Break

Closing Ceremony



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