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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

Organizing Committee Members



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Head of Department of Plant Biopolymers

Tbilisi State Medical University Institute of Pharmacochemistry

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Mohammed Kuddus

Associate Professor

University of Hail

Saudi Arabia

Featured Speaker Presentations

ACADEMIC SPEAKER PRESENTATIONS

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

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

New Developments in OIL and Gas production and Future Developments
Amarjit Bakshi, REFINING HYDROCARBON TECHNOLOGIES LLC, USA

Indoor Air Disinfection in Dynamic Dark Operating Conditions
Aliénor Chauvin, France

Multi-purpose camoflauge suit using nanotechnology and thermosensitive polymer
Anshul Kestwal, B.tech in Chemical Engineering

Revised interpretations of the laws regarding voids and chaos
Catherine Kari Derow, UK

Effect of device configuration for water in diesel emulsion
Christopher Roberts

Pulse transient analysis as a diagnostic tool of soft sparking transition in plasma electrolytic oxidation
Dah-Shyang Tsai, National Taiwan University, Taiwan

Process Modelling to Stimulate and Optimise a Carbon Capture and Sequestration Process and determine its economical viability
Edona Qerasaj, University of Nottingham, uk

Iron sulfide scale removal from production wells by new chemical formulation: A Field Application in a sandstone Reservoir in Egypt
Emad H Riad, Process engineer lead with 16 years in oil & gas industry

Immobilized phosphotungstic acid for catalytic alkylation of aromatic compounds
Aleksey Vasiliev, East Tennessee State University, USA

Coupling the kinetics and fluid dynamics models to predict asphaltene precipitation and deposition in the oil production wells and pipelines
Hossein Dashti, University of Queensland, Australia

Graphene based BaTiO3 Composite Films, Durable and Efficient Energy Harvesting Materials
Ikram Ullah, The Chair and Principal of the Department of Chemistry

Magnetic macroporous copolymer as oxyanions sorbent
Ljiljana Suručić, University of Banja Luka, BIH

Antibacterial activity of free and encapsulated in liposomes photosensitizers against oral cavity bacteria
Margarita Barel, Ariel University, Israel

Featured Speaker Presentations

Development of novel autoreactive and ecological mono-component adhesives
Mariana Costa, Portugal

The Dynamic role of chemical engineers and impact on our economy
Martin P Atkins, Green Lizard Technologies, UK

CO2 absorption studies with hybrid solvents of 1-butyl-3-methylimidazolium tetrafluoroborate (BMIM[BF4]) + N-methyl-2-pyrrolidone (NMP) using a new static-synthetic equilibrium cell
Mojgan Ebrahiminejadhasanabadi, The doctoral student

Separation and purification of gas or liquid mixtures via gas hydrate technology
Prathieka Naidoo, The Co-Director of the Thermodynamics Research Unit

POST COMBUSTION CAPTURE OF CARBONDIOXIDE BY ADSORPTION WITH GROUNDNUT HUSK-BASED ACTIVATED CARBON
Nwabueze Henrieta Ogochukwu

Adsorption studies of CO2 capture on carbon from waste PET
Raj Kumar Gupta, Professor of Chemical Engineering

PC-SAFT modeling and PrT measurements of benzyl alcohol at high temperature and pressure
Rokhsareh Mohammadkhani, PhD student

Antibiotic fate in the process environment: Informing on waste management options to mitigate veterinary antibiotics as drivers of antimicrobial resistance
Rosa María Baena-Nogueras, University of Nottingham, UK

Graphene and Graphene Oxide Nanostructure Material for Spintronic Applications
Sekhar Chandra Ray

Numerical investigation of the effect of dual turbulent intensity on pulverized coal swirl burner
Seongyool Ahn, Kyushu University, Japan

Investigation of influential parameter in the supercritical fluid extraction of turmeric root: A screening design study
Shabina Khanam, Associate Professor in Chemical Engineering Department

Highly Efficient Low-Temperature N-Doped TiO2 Catalysts for Visible Light Photocatalytic Applications
Stéphanie D. Lambert , University of Liege, Belgium

Numerical analysis of gas distribution system in fluidized bed dryers
Swamy T Toolahalli, Process Engineer in Manufacturing industry

Membrane in polymer fuel cells
Tahereh Safari, Solid state physics master's degree

Caffeic Acid-Derived Biopolymer, Synthesis of its Monomer and Methylated Derivative and their Comparative Anticancer Efficacy
V.Barbakadze, Tbilisi State Medical University, Georgia

Fuzzy Induced Counter Propagation Neural Network (CPNN) for the Control of Reactive Distillation Column
Vandana Sakhre, Manipal Academy of Higher Education (MAHE), UAE

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LONDON Attractions



















Chemical Engineering Reminisce













Glimpses of Advances in Chemical Engineering Conferences 2017

















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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

