<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00-9:30</td>
<td>Registration</td>
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<tr>
<td>09:30-10:00</td>
<td>Opening Ceremony</td>
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<tr>
<td>10:00-10:05</td>
<td>Introduction</td>
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<tr>
<td>10:05-10:45</td>
<td>Keynote Forum</td>
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<tr>
<td></td>
<td>Title: Oil and gas developments and future growth</td>
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<tr>
<td></td>
<td>Amarjit Bakshi, Refining Hydrocarbon Technologies LLC, USA</td>
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<tr>
<td>10:45-11:05</td>
<td>Networking and Refreshments Break</td>
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<tr>
<td></td>
<td>Title: Spray Flash Evaporation (SFE): A technique for breakthrough chemical engineering challenges</td>
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<td>Denis Spitzer, Director NS3E Laboratory, France</td>
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<td>11:05-12:35</td>
<td>Sessions: Chemical Engineering</td>
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<tr>
<td></td>
<td>Session Chair: P. S. T. Sai, Indian Institute of Technology Madras, India</td>
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<tr>
<td>11:45-12:10</td>
<td>Session Introduction</td>
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<tr>
<td></td>
<td>Title: An overview of renewable fuels ethanol from cellulose and bio-diesel from conventional/algae feed status and economic options for ETBE</td>
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<td>Amarjit Bakshi, Refining Hydrocarbon Technologies LLC, USA</td>
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<td>Title: Reforming of toluene with bimetallic catalysts supported on alumina and synthesized by an aqueous sol-gel process</td>
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<td>Stéphanie D. Lambert, University of Liege, Belgium</td>
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<td>12:10-12:35</td>
<td>Title: Foaming in gas sweetening process: Comprehensive experimental efforts lead to better understanding and prediction of amine foaming</td>
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<td>Emad Alhseinat, Khalifa University, UAE</td>
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<td>12:35-13:00</td>
<td>Lunch Break</td>
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<td>14:00-14:25</td>
<td>Session Introduction</td>
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<tr>
<td></td>
<td>Title: Effect of initial salt concentration on acid and base production from NH₄Cl - NaCl solution by bipolar membrane electrodialysis</td>
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<td>Sinan Yapici, Inonu University, Turkey</td>
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<td>14:25-15:00</td>
<td>Title: Mathematical model for the prediction of the dissolution of residual coffee beans for the sustainable production of energy materials</td>
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<td>Jozsef Kupai, Budapest University of Technology and Economics, Hungary</td>
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<td>15:15-15:40</td>
<td>Title: Microbial pretreatment of biomass for renewable energy production</td>
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<td>Jaron Hansen, Brigham Young University, USA</td>
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<td>15:40-16:05</td>
<td>Title: Biological breakdown of lignocellulose to produce renewable energy</td>
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<td>Conly Hansen, Utah State University, USA</td>
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<td>16:05-16:25</td>
<td>Networking and Refreshments Break</td>
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<td>16:25-16:50</td>
<td>Title: Engineering of <em>Escherichia coli</em> to facilitate efficient utilization of isomaltose and panose in industrial glucose feedstock</td>
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<td>Kenji Abe, Ajinomoto Inc., Japan</td>
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### 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

**10:00-10:40**

**Title:** Biothermodynamics: Bridging thermodynamics with biochemical Engineering  
**Urs von Stockar,** Swiss Federal Institute of Technology, Lausanne (EPFL), Switzerland

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

**11:00-11:40**

**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

**11:40-12:05**

**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

**12:05-12:30**

**Title:** How can augmented reality change the future of the oil and gas Industry  
**Mohammad A. AlKazimi,** Kuwait Oil Company, Kuwait

**12:30-12:45**

**Title:** Optimization of delay coker unit by using of artificial neural network  
**Ali Shaeri,** The National Iranian Oil Engineering & Construction Co., Iran

**12:45-13:00**

**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 13:00-14:00 @ Ncafé**

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

**Session Chair:** Emad Alhseinat, Khalifa University, UAE

#### Session Introduction

**14:00-14:25**

**Title:** Temperature sensors position in chemical reactors: The use of CFD.  
**Valentina Busini,** Politecnico di Milano, Italy

**14:25-14:50**

**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

**14:50-15:15**

**Title:** Modeling and simulation of coal gasification in internally circulating fluidized bed  
**P. S. T. Sai,** Indian Institute of Technology Madras, India

**15:15-15:40**

**Title:** The performance of dual-bed system of MoS$_2$/Al$_2$O$_3$ and Co-MoS$_2$/Al$_2$O$_3$ catalysts in ULSD production from the mixture of rapeseed oil and SRGO  
**Irina V. Deliy,** Novosibirsk National Research University, Russia

**15:40-16:05**

**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 16:05-16:20 @ Foyer**

### Young Researchers Forum

**16:20-16:40**

**Title:** Study of the retention of hydrophobic actives from cosmetic emulsions on optimized human skin mimics  
**Georgios Gkotsis,** University of Birmingham
16:40-17:00

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: 17:20-17:45 @ Meeting rooms

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 SnO₂ 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