



TRANSFORMING PROCESS ENGINEERING THROUGH INNOVATION

14 - 16 October 2019

Bahrain International Exhibition & Convention Centre

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Day 1 - Monday, 14 Oct 2019

Kingdom of Bahrain

09:30 - 09:40 **Opening Remarks**

📍 Palm Hall

Speakers

Nasser A. Abanmi Former President , SABIC - KEMYA

Tor Fjaeran President, World Petroleum Council (WPC)

09:40 - 10:00 **Keynote Speech**

📍 Palm Hall

Adapting to the Shifting Dynamics of the Global Energy Landscape

Speaker

Ahmad A. Al Sa'adi Senior Vice President, Technical Services, Saudi Aramco

10:00 - 10:50 **WPC Downstream, Global Leadership Panel - The Future of Refining and Petrochemicals**

📍 Palm Hall

Moderator

Pedro Miras Salamanca Chairman, CORES

Speakers

Suleyman M Ozmen Sr. Consultant, Independent

Dr. Madhukar Garg Head Refining & Petchem R&D, Reliance Industries Limited

10:50 - 11:10 **Coffee Break**

📍 Exhibition Hall

11:10 - 12:30 **Technical Sessions- 3**

Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Al Fanar	Digital Transformation 📍 Palm Hall
<p>Moderator Dr. Ayuba Adesina Lead Engineer, SABIC</p> <hr/> <p><i>Optimizing Value Through Converting Residuum Into Clean Fuels or Petrochemicals</i></p> <p>Speaker Dr. Julie Chabot Resid R&D Technical Team Leader- Applied Technology, Chevron Lummus Global</p> <hr/> <p><i>Constant Feed Composition and Performance Analysis Increases Pygas Run Length</i></p> <p>Speaker</p>	<p>Moderator Dr. Anissa Sedjerari Industry and Research Liaison Officer, Innovation & Economic Development Department, KAUST Catalysis Center</p> <hr/> <p><i>Conceptual Design and Energy Analysis of Integrated Gasification and Reforming Technologies for Syngas Production</i></p> <p>Speaker Hussain Alibrahim CHE Senior student, King Fahd University of Petroleum & Minerals (KFUPM)</p> <hr/> <p><i>Toward Optimum Design of Industrial Steam and Power Systems</i></p>	<p>Moderator Saifuddin Sheikh Director, Business Consulting , Aspen Technology</p> <hr/> <p><i>The Role of Process in the Digital Transformation</i></p> <p>Speaker Norbert Jung VP Product Management - Process and Simulation, AVEVA</p> <hr/> <p><i>Process Manufacturing Digital Twin to Achieve Operations Excellence</i></p> <p>Speaker Jim Brigman Managing Director, Ingenero Inc</p>

Faisal Al Ashour Process Engineer , Saudi Chevron Phillips (S-Chem)

Modeling and Optimization of Pressure Distillation to Achieve Pharma Grade Tetrahydrofuran Product From Tetrahydrofuran Water Mixture

Speaker

Vijay Shirpurkar Process Engineer, Sipchem

Speaker

Mana Alowaidh Engineering Consultant - Energy Systems, Saudi Aramco

Improvements in Residue Gasification Increase Feed Flexibility for Virtually Bottomless Refineries

Speaker

Simon Cackett Licensing Technology Manager, Shell Catalysts & Technologies

Sustaining Crude Quality Specifications by Leveraging IR 4.0 Solution in Midstream Processing

Speakers

Syed A. Ahmed Process Engineer, Saudi Aramco

Majed A. Al-Jeshi Process Engineer, Saudi Aramco

12:30 - 13:30

Lunch Break

📍 Exhibition Hall

13:30 - 14:50

Technical Sessions- 3

Revolutionary Technology 📍 Al Seef	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Fanar	Energy Efficiency and Sustainability 📍 Palm Hall
<p>Moderator Dr. Nasiru Tukur Engineering Consultant, Saudi Aramco</p> <hr/> <p><i>Novel Catalytic Cracking Technologies for Producing More Low Carbon Olefins and Light Aromatics</i></p> <p>Speaker Jinquan Zhu R&D Senior Engineer , Research Institute of Petroleum Processing, SINOPEC</p> <hr/> <p><i>Digital Transformation - Using Simulation and Engineering Data with Analytical Sciences to, not only turn Data into Information, but also to Drive the Process</i></p> <p>Speaker Roy Calder Senior Director - Technical Solutions, AVEVA</p> <hr/> <p><i>Innovations in Catalysts and Processes for Refining Applications</i></p> <p>Speaker Dr. Theo Maesen Director CLG R&D, Chevron Lummus Global</p>	<p>Moderator David Renolayan Technology & Process Engineering Lead Domestic Refining & NGL Fractionation, Saudi Aramco</p> <hr/> <p><i>Mitigation of Hydrate Formation in Module 5 De-Ethanizer Overhead System at Yanbu NGL Fractionation Department</i></p> <p>Speakers Hae Yong Noh Senior Chemical Engineer, Saudi Aramco Ibrahim N Nashri Chemical Engineer, Saudi Aramco</p> <hr/> <p><i>Optimal Process Design Approaches for Diesel Hydrotreater Unit Revamps</i></p> <p>Speaker Muhammad Ilyas Technology Licensing Manager , HALDOR TOPSØE A/S DENMARK</p> <hr/> <p><i>Unlocking Potential of a Resid Hydroprocessing Unit Through Reactor Internals – A Case Study</i></p> <p>Speakers Abdullah Mandani Senior Process Engineer, Kuwait National Petroleum Company (KNPC) Mohammed Benchekchou Director Strategic Accounts - Middle East &</p>	<p><i>Utility Steam System Energy Optimization Best Practices at Khurais Crude Processing Facilities</i></p> <p>Speaker Abdullah Malki Gas & Shipping Lead Engineer, Saudi Aramco</p> <hr/> <p><i>Energy Performance Indices (EPIs) – Self-Benchmarking for Continual Improvement; a Statistical Approach</i></p> <p>Speakers Ahmed Aseeri Founder & CEO, Gulf Advanced Process Technologies Co. (GAPTECH) Satish Mantri Process Engineer, Sipchem</p> <hr/> <p><i>Energy Efficiency Improvement Initiatives in KNPC MAA Refinery</i></p> <p>Speaker Vijayaraghavan Ganeshkumar Process Engineer, Kuwait National Petroleum Company (KNPC)</p>

	<p>North Africa, Shell Catalysts & Technologies</p> <p>Mohammed Fahad Ajmi Senior Operations Engineer, Kuwait National Petroleum Company (KNPC)</p> <p>Dilipkumar Thakur, Shell Catalysts & Technologies</p>
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15:00 - 16:20 **Technical Sessions- 3**

<p>Debottlenecking: Exploiting Opportunities to Boost Performance</p> <p>📍 Al Seef</p>	<p>Energy Efficiency and Sustainability</p> <p>📍 Al Fanar</p>	<p>Digital Transformation</p> <p>📍 Palm Hall</p>
<p>Moderator</p> <p>Shahid Azam Chief Scientist, Functional Chemicals, SABIC</p> <hr/> <p><i>De-Butanizer Tower Bypass Facility</i></p> <p>Speaker</p> <p>Fahad Alsaad Process Engineer, SABIC - KEMVA</p> <hr/> <p><i>Ethylene Unit Reboiler Fouling Improvements</i></p> <p>Speaker</p> <p>Rawaf Alrawaf Process Engineer-Technical, Saudi Chevron Phillips (S-Chem)</p> <hr/> <p><i>An Innovative Approach in Re-energizing Internal Profit Improvement Programs (PIP)</i></p> <p>Speakers</p> <p>Ahmed Altarkeet Snr Manufacturing Excellence Engineer, Kuwait National Petroleum Company (KNPC)</p> <p>Azhari Dafaalla Senior Staff Consultant , KBC A Yokogawa Co</p>	<p>Moderator</p> <p>Dr. Oki Muraza Associate Professor, Center of Research Excellence in Nano-technology, King Fahd University of Petroleum & Minerals (KFUPM)</p> <hr/> <p><i>Energy Optimization in Air Separation Units (ASU) Using Advanced Process Control (APC)</i></p> <p>Speaker</p> <p>Carlos Gonzalez Senior Process Control Engineer, SABIC - GAS</p> <hr/> <p><i>Solid Slurry Stream Processing and Recovery Using Thin Film Evaporator Technology</i></p> <p>Speaker</p> <p>Majed Mulla Process Engineer , Saudi Chevron Phillips (S-Chem)</p> <hr/> <p><i>Energy Real-Time Optimizer - Steam & Condensate Balance</i></p> <p>Speaker</p> <p>Youngghee Jang Energy Engineer, Saudi Aramco</p>	<p>Moderator</p> <p>Ayman Salamah General Sales Manager , W.R. Grace & Co</p> <hr/> <p><i>SAMREF FCC DMC Controller Revamp</i></p> <p>Speaker</p> <p>Safi M AlBuhairi Senior Process Control Engineer , Saudi Aramco Mobil Refinery Company Ltd. (SAMREF)</p> <hr/> <p><i>Combining the Power of Digital Twins With Cloud-Based Collaboration</i></p> <p>Speaker</p> <p>Saptarshi Bhowmick PSS Department Manager, Yokogawa MEA</p> <hr/> <p><i>Improving Distillate Products Quality Using IR 4.0 Digital Solutions</i></p> <p>Speakers</p> <p>Abdelghani Daraiseh Sr. Engineering Consultant, Saudi Aramco</p> <p>Shahreyar Khan Project Advisor , Saudi Aramco</p>

16:20 - 16:40 **Coffee Break**
📍 Exhibition Hall

16:40 - 17:30 **Opening Ministerial Session**
📍 Palm Hall

Introduction
Tor Fjaeran President, World Petroleum Council (WPC)

Speakers
His Excellency Shaikh Mohamed bin Khalifa Al Khalifa Minister of Oil, Kingdom of Bahrain
His Excellency Elnur Soltanov Deputy Minister of Energy, Republic of Azerbaijan

Dr. Sun Xiansheng Secretary General, International Energy Forum (IEF)

17:30 - 18:20 **WPC Downstream, Panel Discussion - Digital Transformation Strategies in Downstream**

📍 Palm Hall

Moderator

Milton Costa Filho Secretary General, IBP - Brazilian Petroleum, Gas and Biofuels Institute

Speakers

Norm Gilsdorf President, Honeywell High Growth Regions Middle East, Russia, Turkey, Central Asia and Customs Union, Honeywell

Rob Howard Vice President - MENA, Aspen Technology

Mohammed Al-Habib Downstream Account Director, Baker Hughes

18:20 - 18:30 **Coffee Break**

📍 Exhibition Hall

18:30 - 19:15 **Exhibition Inauguration**

📍 Hall 1

Guest of Honor

His Royal Highness Prince Khalifa bin Salman Al Khalifa Prime Minister, Kingdom of Bahrain
(invited)

20:00 - **Gala Dinner**

📍 Gulf Hotel

Speakers

His Excellency Shaikh Mohamed bin Khalifa Al Khalifa Minister of Oil, Kingdom of Bahrain

June Wispelwey CEO & Executive Director, American Institute of Chemical Engineers (AIChE)

Day 2 - Tuesday, 15 Oct 2019

Kingdom of Bahrain

09:00 - 10:30 **WPC Downstream - Keynote Session**

📍 Palm Hall 1

Shaping the Future for Industrial Gas Customers

Speaker

Naji Skaf President - Middle East, Egypt, Turkey, Air Products

Developing Future Innovative Workforce to Sustain Reliable Operational Excellence and Value Creation

Speaker

Bassam Al Bokhari CEO, Saudi Petroleum Services Polytechnic

Inventing the Future – Chevron’s Commitment to Innovation

Speaker

Walt Szopiak Vice President, Chevron Energy Technology

Ethical Practice is Foundational to Great Safety

Speaker

Deborah L. Grubbe Owner and President, Operations and Safety Solutions, LLC

10:30 - 10:40 **Coffee Break**

📍 Exhibition Hall

10:40 - 12:00 **Technical Sessions- 3**

Revolutionary Technology 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
<p>Moderator Saeed S. AlAlloush Engineering Specialist, Process & Control Systems Department, Saudi Aramco</p> <hr/> <p><i>Simultaneous Production of Benzene and Gasoline From C-6 Heart Cut of FCC Gasoline</i></p> <p>Speaker Dr. Madhukar Garg Head Refining & Petchem R&D, Reliance Industries Limited</p> <hr/> <p><i>Incremental Value From FCC Catalyst Innovation</i></p>	<p>Moderator Shahid Azam Chief Scientist, Functional Chemicals, SABIC</p> <hr/> <p><i>Modifying Aging Assets With Advanced Condition Monitoring Solution to Increase Availability, Reliability and Profitability by Optimizing Operation and Reducing Maintenance Costs</i></p> <p>Speaker Fayyaz Karim Qureshi RECIPs and D&IS (Retrofit) Technical Leader, Baker Hughes</p>	<p><i>Advanced Process Control in Aromatics Plant</i></p> <p>Speaker Abdulrahman Ashour Engineer I, Process Control, SABIC - IBNRUSHD</p> <hr/> <p><i>Technology of Refinery Off-Gas Recovery by Cold Oil Absorption</i></p> <p>Speaker Dr. Huawei Shao Senior Engineer, Beijing Research Institute of Chemical Industry, SINOPEC Group</p>

Speaker

Matt Kirchner Marketing Director -
FCC Catalysts, W.R. Grace & Co

*Reactor and Catalyst for the Direct
Conversion of Crude Oil to
Chemicals*

Speaker

Mohammad Alabdullah PhD
Student, King Abdullah University of
Science and Technology (KAUST)

*Optimal Temperature Control of a
Batch Tank Equipped With a Steam
Heating Coil System*

Speaker

Anas H. Safar Process Engineer,
Saudi Aramco

*Capacity Stretch Evaluation Study
and Implementation for Polyolefin
Plant*

Speaker

Ibrahim Alsugai Scientist -
Technology and Innovation, SABIC

*Identifying Energy Saving
Opportunities in Fluid Networks via
Hydraulic Modeling Techniques*

Speaker

Shardul Shindadkar Asst. Manager
– Project Development, Ingenero Inc

12:00 - 13:00 **Lunch Break**

📍 Exhibition Hall

13:10 - 14:30 **Technical Sessions- 3**

Digital Transformation 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
<p>Moderator Hiroki Usami General Manager - R&D Center- Process Solution Business, Yokogawa Saudi Arabia Company</p>	<p>Moderator Waddah Al-Zaabi Sales Manager, ART Hydroprocessing</p>	<p>Moderator Dr. Hayat Abdulla Yusuf Assistant Professor, Department of Chemical Engineering , University of Bahrain</p>
<p><i>The Digital Refinery: Using Artificial Intelligence to Optimise Utilities Planning</i></p>	<p><i>Synergizing De-foamer and Demulsifier Chemicals for Improved Crude Desalting</i></p>	<p><i>A Quantitative Approach for Assessing Automatic Tank Overfilling Protection Systems (AOPS) Requirements</i></p>
<p>Speaker Gerardo Sanchis Andreu Senior Consultant Engineer , Process Systems Enterprise (PSE)</p>	<p>Speakers Abdullaziz Alghanim Operation Engineer , Saudi Aramco Dr. Enow Achuo Kima Chemical Treatment Specialist, Saudi Aramco</p>	<p>Speaker Hesham Fandy Principal Risk Management Advisory Consultant, DNV GL Middle East</p>
<p><i>Digital Technologies to Support Plant Operations for Profitability</i></p>	<p><i>Improving Refinery, Petrochemical and Upstream Margins by Closing the Gaps Between Planning, Scheduling and Advanced Process Control</i></p>	<p><i>Advanced Digital Twin Solution for CDU Column With Preheat Train Optimization</i></p>
<p>Speaker Jatin Shah Director, Automation & Process Technologies, KBR Technology</p>	<p>Speaker Krishna Chada Principal Solutions Consultant , Aspen Technology</p>	<p>Speakers Nageswararao Kesanapalli Principal Solution Consultant , Aspen Technology Saifuddin Sheikh Director, Business Consulting , Aspen Technology</p>
<p><i>Advanced Analytics for Smart Positioner Monitoring and Diagnostics</i></p>	<p><i>Optimising Chemical Injection Performance & Reducing Cost</i></p>	<p><i>Flare System – Design Optimization Using Reboiler Pinch</i></p>
<p>Speakers Ayman Abu-Shameh Instrumentation Team Lead, Saudi Aramco Ammar S. Bakhurji Advanced Process Control Engineer, Saudi Aramco</p>	<p>Speaker Narayanan Suresh Regional Subject Matter Expert – Flow Applications, Yokogawa MEA</p>	<p>Speakers Hasan Ali Amin Engineer I, Saudi Aramco Praveen Dhote Chemical Engineer , Siemens</p>

Sachin Kanade Process Safety Lead, Siemens

14:30 - 15:00 **Coffee Break**
📍 Exhibition Hall

15:00 - 15:40 **WPC Downstream, Special Session -The Permian Success Story and the Resurgence of the U.S. Refining Sector**
📍 Palm Hall 1

Speaker
Gerardo Uria Vice President, American Petroleum Institute

15:40 - 17:00 **Technical Sessions- 3**

Revolutionary Technology 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
<p>Moderator Gerrit Polhaar Regional Director - MENA, Chevron Lummus Global</p>	<p>Moderator Hamza Alawi Business Development Manager, Lummus Technology</p>	<p>Moderator Jim Brigman Managing Director, Ingenero Inc</p>
<p><i>Carbon Utilization & Petrochemical Integration: Capturing Value via Residue to Chemicals Projects</i></p> <p>Speaker Jacinthe Frécon Technology Group Manager , Axens</p>	<p><i>Advanced Thermodynamic Model for Predicting Hydrochloride Salt Formation and Corrosivity in Crude Distillation Overheads</i></p> <p>Speaker Dr. Anthony Gerbino Customer Success Leader , OLI Systems Inc.</p>	<p><i>The Circular Economy in Saudi Aramco: Unlocking New Potential for Supply Chains</i></p> <p>Speaker Mohammed Alyanbaawi Technical Support Engineer , Saudi Aramco</p>
<p><i>Spray – Drying as an Efficient Method for the Preparation of Catalysts for the Direct Conversion of Crude Oil to Chemicals</i></p> <p>Speaker Tuiana Shoinkhorova PhD Student, King Abdullah University of Science and Technology (KAUST)</p>	<p><i>SAMREF Sulfur Recovery Unit Retrofits Uplift Performance Sulfur Quality Enhancement</i></p> <p>Speaker Khalid Ghazal Technical Process Engineering Specialist (Sulfur & Amine Specialist), Saudi Aramco Mobil Refinery Company Ltd. (SAMREF)</p>	<p><i>Energy Efficiency Enhancement Project for Methanol Plant - Exceeding the Expectations</i></p> <p>Speaker Othman M Al-Ghamdi Process Engineer, Sipchem</p>
<p><i>K-SAAT – A Break-through Solid Acid Alkylation Technology</i></p> <p>Speaker Edward Griffiths Technology Manager, KBR Technology</p>	<p><i>Flare Gas Recovery System Challenges</i></p> <p>Speaker Mohammed AlMahmood Process Engineer, Saudi Aramco</p>	<p><i>Modeling and Optimization of Microalgae-Based Lead Removal Process Using Response Surface Methodology Articulated With Crow Search Algorithm</i></p> <p>Speaker Dr. S M Zakir Hossain Assistant Professor, University of Bahrain</p>

17:00 - 17:50 **WPC Downstream, Expert Panel Session - Future Feedstocks, and Refinery Integration**
📍 Palm Hall 1

Moderator
Dr. Pierce Riemer Director General, World Petroleum Council (WPC)

Speakers
Rob Howard Vice President - MENA, Aspen Technology

Keith A. Couch Senior Director - Global Technology Sales , Honeywell UOP

17:30 - 18:45 **AICHE Regional Chem-e-Car Competition**

 Hall 1

Day 3 - Wednesday, 16 Oct 2019

Kingdom of Bahrain

09:00 - 10:30 **Keynote Session**

📍 Palm Hall 1

Creating Value Through Operational Excellence

Speaker

Saad Al-Ayedh EVP Petrochemicals, TASNEE

Modern Refinery Config for R&P Integration

Speaker

Keith A. Couch Senior Director - Global Technology Sales , Honeywell UOP

Strategic Imperatives for the Middle East's Refiners

Speaker

Jonathan Forbes-Lane Regional VP - Catalyst Sales, Shell Catalysts & Technologies

10:40 - 12:00 **Technical Sessions- 3**

Digital Transformation 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
<p>Moderator Jim Brigman Managing Director, Ingenero Inc</p>	<p>Moderator Nikola Georgiev Senior Account Manager Refinery , Haldor Topsoe International A / S</p>	<p>Moderator Mohammad N. Al-Haji Engineering Consultant , Saudi Aramco</p>
<p><i>Depropanizer Column Troubleshooting Using AspenTech ProMV</i></p> <p>Speaker Bernt Hiddema Solution Consultant , Aspen Technology</p>	<p><i>Upgrading the Hydrogen Plant for New Requirements</i></p> <p>Speaker Koos Overwater Vice President - Hydrogen Product Line, Technip Energies</p>	<p><i>Gasification in the Era of Crude to Chemicals (CTC)</i></p> <p>Speaker Dr. Chun Han Gasification & IGCC Specialist , Saudi Aramco</p>
<p><i>Process Analyzers Management System "AMS"</i></p> <p>Speaker Hamad Al-Othman Lead Engineer, Analyzer, SABIC - KEMYA</p>	<p><i>Gasoline Hydrogenation Unit 2nd Stage Reactor Performance Improvement</i></p> <p>Speaker Suhaib Kaki Process Engineer, SABIC - YANSAB</p>	<p><i>Optimization of Multi-Effect Evaporators to Minimize Steam Consumption</i></p> <p>Speaker Jai Prakash Jain Sr. Scientist, SABIC Research and Technology Pvt. Ltd</p>
<p><i>Predictive Maintenance and Asset Management by Combining High-Fidelity and Data-Driven Models</i></p> <p>Speaker Dr. Steve Hall Director, Operational Excellence Solutions, Process</p>	<p><i>CDU Revamp: Optimising Cost and Implementation</i></p> <p>Speaker Vishnu Narayanan Chartered</p>	<p><i>Opportunities for the Use of First Flush Systems for Water Recovery</i></p> <p>Speaker Joy Clarke Principal Process Engineer, Wood Plc</p>

Systems Enterprise (PSE)

Engineer, Wood Plc

12:00 - 13:00 **Lunch Break**

📍 Exhibition Hall

13:00 - 14:20 **Technical Sessions- 3**

Digital Transformation 📍 AI Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 AI Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
<p>Moderator David Renolayan Technology & Process Engineering Lead Domestic Refining & NGL Fractionation, Saudi Aramco</p> <hr/> <p><i>Digital Transformation Journey "Production Planning, Sustainability & Energy and Process KPIS Dashboards in the Distributed Control System"</i></p> <p>Speaker Carlos Gonzalez Senior Process Control Engineer, SABIC - GAS</p> <hr/> <p><i>High Fidelity Digital Twin of Hydrocracker Units</i></p> <p>Speaker Dhanasekar Periyasamy Principal Solution Consultant, Aspen Technology</p> <hr/> <p><i>Real-Time Predictive Analytics in Enhancing Base Layer Control Loops</i></p> <p>Speaker Saeed Al-Shahrani Control System Engineer , Saudi Aramco</p>	<p>Moderator Saeed S. AlAlloush Engineering Specialist, Process & Control Systems Department, Saudi Aramco</p> <hr/> <p><i>Quench System Successful Revamp and Operation Cycle</i></p> <p>Speaker Abdullah Al Ismail Production Engineer, SABIC - KEMYA</p> <hr/> <p><i>Enhancing Ethylene Recovery in Binary Refrigeration Systems by Purging H2 and Further Increase Through Expander Re-Compressor System Modifications</i></p> <p>Speaker Nihar Gulwadi Senior Manager -Project Development Manager, Ingenero Inc</p> <hr/> <p><i>Deployment of Digital Modelling for Cracking Furnace Online Yield Optimization</i></p> <p>Speaker Abdullah Nooh Scientist - Global Cracker Technology , SABIC</p>	<p>Moderator Waddah Al-Zaabi Sales Manager, ART Hydroprocessing</p> <hr/> <p><i>NGL Fractionation Process Optimization Through Heat Exchanger Load Shifting</i></p> <p>Speakers Dong Kyu Lee Senior Process Engineer, Saudi Aramco Yazeed Homaid Energy Engineer, Saudi Aramco</p> <hr/> <p><i>Chemical Modeling of Carbon Capture and Storage Capabilities From Combustion Gases</i></p> <p>Speaker Dr. Anthony Gerbino Customer Success Leader , OLI Systems Inc.</p> <hr/> <p><i>Furnace Convection Section Rating for Increased Thermal Efficiency: A Techno-Economic Analysis</i></p> <p>Speaker Radhi Ali Aqeeli AI Process Engineer, SABIC - KEMYA</p>

14:20 - 14:30 **Coffee Break**

📍 Exhibition Hall

14:30 - 16:00 **Panel Discussion - Process Intensification**

📍 Palm Hall 1

Moderator

Gina M. Gatto Membership Manager , AIChE

Speakers

Dr. Madhukar Garg Head Refining & Petchem R&D, Reliance Industries Limited

June Wispelwey CEO & Executive Director, American Institute of Chemical Engineers (AIChE)

Faisal Addas Sr. Manager - LC Conversion Business Development Local Content & Business Development Unit,, SABIC

16:00 - 16:30 **Closing Ceremony and Raffle Draw**

 Palm Hall 1

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