



Ethylene  
Middle East  
Technology  
Conference

Grand Hyatt Al Khobar,  
Kingdom of Saudi Arabia

17 - 18 October 2023

# The Definitive Meeting for Ethylene Professionals in the Middle East

## Program

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# Day 1 - Tuesday, 17 Oct 2023

Grand Hyatt Al Khobar, Kingdom of Saudi Arabia

07:30 - **Registration**

09:15 - 09:35 **Welcome Remarks: Leveraging Digitalization and Emerging Trends**

📍 Room 1

Master of Ceremony

**Abdulqader Abdullah** Student, King Fahd University of Petroleum & Minerals (KFUPM)

Speaker

**Shakeel Kadri** Executive Director & CEO, CCPS

09:35 - 09:55 **Keynote Session: E-Furnace, a Significant Step Towards Carbon Neutral Olefins**

📍 Room 1

Speaker

**Ali Al-Gahtani** Staff Engineer, Power System, SABIC

09:55 - 10:25 **Keynote Session: From Vision to Action - Putting Sustainability in Perspective for Process Manufacturing Operations with Digital Solutions**

📍 Room 1

Speaker

**Dr. Pratap Nair** President & CEO, Ingenero Inc

10:25 - 11:00 **Coffee Break & Exhibition Networking**

📍 Exhibition Area

11:00 - 11:45 **Panel Discussion - Embracing Emerging Trends in the Ethylene Industry: Navigating Opportunities and Challenges**

📍 Room 1

The ethylene industry continues to experience dynamic shifts and transformative trends that shape its trajectory. This panel discussion is dedicated to exploring the latest emerging trends in the ethylene sector and how forward-thinking approaches can drive sustainability and foster growth in the current landscape.

The panelists, distinguished experts, and thought leaders from various facets of the ethylene industry, will delve into the cutting-edge trends that have surfaced in recent times. Topics of discussion will include advancements in sustainable production methods, circular economy initiatives, digitalization and Industry 4.0 integration, and the exploration of bio-based alternatives.

Through insightful discussions, the panelists will unveil the opportunities these emerging trends present for driving operational efficiency, reducing carbon footprints, and enhancing product innovation. Attendees will gain valuable insights into practical applications and success stories, showcasing how organizations embrace these trends to stay competitive in today's ever-evolving market.

Beyond the opportunities, the panel will address the challenges of adopting transformative technologies and methodologies. Discussions will encompass strategies for overcoming barriers related to technology integration, workforce skills development, and regulatory compliance.

Collaborative approaches to sustainability will also be explored, highlighting how partnerships between stakeholders, including technology providers, producers, researchers, and policymakers, can foster innovation and drive meaningful change.

By the conclusion of this discussion, participants will have a comprehensive understanding of the latest trends shaping the ethylene industry and how they can navigate these changes to build a sustainable and prosperous future. Attendees will leave with actionable insights to drive innovation within their organizations and contribute to the industry's growth in the coming year.

Session Chair

**Mikhail Khvastunkov** Engineering Specialist - Downstream Process Engineering Division , Aramco

Panelists

**Prof Mamdouh Alharith** Dean, College of Chemicals & Materials, KFUPM

**Dr. Pratap Nair** President & CEO, Ingenero Inc

**Jim Middleton** Group Vice President, Ethylene Product Line and Technologies, Technip Energies

**Mubarik Mustafa** CEO, ACET Solutions

11:45 - 12:45 **Prayers, Lunch & Exhibition Networking**

📍 Lunch Area

12:45 - 14:15 **Technical Sessions**

Application of Big Data, Digitalization and Optimization 📍 Room 1	Addressing Sustainability Challenges 📍 Room 2
<p>Session Chair</p> <p><b>Nihar Gulwadi</b> Regional Head - MENA, Ingenero Inc</p>	<p>Session Chair</p> <p><b>Rawaf Al-Rawaf</b> Superintendent – Process Engineering, Saudi Chevron Phillips (S-Chem)</p>
<p><i>A Step Towards the Self-Optimizing Plant: An Integrated Digital Twin Concept Deployed in Ethylene Derivatives Plant</i></p>	<p><i>Hydrogen As Enabler for Decarbonization of Ethylene Plants</i></p>
<p>Speaker</p> <p><b>Faisal Baksh</b> Solution Consulting, AspenTech</p>	<p>Speaker</p> <p><b>Prateek Jain</b> Senior Process Engineer, Technip Energies</p>
<p><i>Enhancing Overall Asset Effectiveness (OAE) through Digitalization</i></p>	<p><i>Zero Emission Steam Cracker Design</i></p>
<p>Speaker</p> <p><b>Mayuresh Mokal</b> Digital Solutions Client Engagement, Ingenero Inc</p>	<p>Speaker</p> <p><b>Dr. Gunther Kracker</b> Director   Director/Head of Product Management &amp; Cost Estimation, Sustainable Hydrocarbon Solutions at Linde Engineering</p>
<p><i>Using Digitalization to Drive Steam Cracker Operations Profitability</i></p>	<p><i>Rotating Olefins Cracker: A Novel Technology for Decarbonizing Light Olefin Production</i></p>
<p>Speaker</p> <p><b>Dr. Daniel Eff</b> Business Development Lead Petrochemical Solutions &amp; Services Advanced Operations Services, Linde Engineering</p>	<p>Speakers</p> <p><b>Jim Middleton</b> Group Vice President, Ethylene Product Line and Technologies, Technip Energies</p> <p><b>Thomas Soulas</b> VP Technology Development, Innovation Center Abu Dhabi, Siemens Energy, Inc</p>

14:15 - 14:45 **Coffee Break & Exhibition Networking**

📍 Exhibition Area

14:45 - 16:15 **Technical Sessions**

Enhancing Reliability 📍 Room 1	Capital Efficiency and Competitiveness 📍 Room 2
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Session Chair

**Dr. Yunusa Umar** Associate Professor, Jubail Industrial College and University

*Improving Reliability of a Charge Gas Compressor at an Ethylene Cracker with Innovative Treatment Program*

Speakers

**Deepak Sharma** Senior Technical Manager, Nalco Water an Ecolab Company

**Dr. Bhaskar Reddy Aluri** Lead Scientist, Sabic Technology Centre

**Pavlov Andres Perez** Olefins Process Engineering, SABIC - PETROKEMIA

*Furnace Efficiency: Robotic Cleaning for Convection Section Maintenance*

Speaker

**Scott Donson**, Integrated Global Services

*Overcoming High Pressure Drop across Coldbox through Innovative Reflux Management to Maintain Ethylene Product Quality*

Speaker

**Ahmed Al Dossary** Process Improvement Engineer, Sadara Chemical Company

*How To Drive Productivity and Profitability with Digitally Enabled Insights - OMNI Heat Exchange Reliability*

Speaker

**Mohammad Al-Shaikh Khaleel** Technical Consultant, Nalco Water an Ecolab Company

Session Chair

**Muhammad Ilyas** Superintendent Process Design Engineering, Sadara Chemical Company

*Improving Energy Efficiency in Centrifugal Compressors By Application of Kurita Dropwise Condensation Technology*

Speaker

**Angel Palacios Romero** Product manager specialist, Kurita Europe

*Preventing Water Hammering By Dynamic Flooding*

Speaker

**Mohammed Alansari** Chemical Engineer, Sadara Chemical Company

*Crude to Olefins Via Steam Cracking: Advanced Modelling of Product Yields and Coke Formation*

Speaker

**Ismaël Amghizar** Modeling Researcher, AVGI bv

# Day 2 - Wednesday, 18 Oct 2023

Grand Hyatt Al Khobar, Kingdom of Saudi Arabia

08:30 - **Registration**

09:00 - 09:20 **Keynote Session: Ethylene Derivates - System integration and Digitalization**  
📍 Room 1

Master of Ceremony  
**Abdulqader Abdullah** Student, King Fahd University of Petroleum & Minerals (KFUPM)

Speaker  
**Usman Mushtaq** Supply Chain Director, Sadara Chemical Company

09:20 - 09:40 **Keynote Session: Role of Research and Innovation Goals for a Sustainable Chemistry Industry**  
📍 Room 1

Master of Ceremony  
**Abdulqader Abdullah** Student, King Fahd University of Petroleum & Minerals (KFUPM)

Speaker  
**Dr. Wael A. Fouad** Director, IRC for Refining and Advanced Chemicals, King Fahd University of Petroleum and Minerals (KFUPM)

09:40 - 10:10 **Coffee Break & Exhibition Networking**  
📍 Exhibition Area

10:10 - 11:40 **Technical Sessions**

Capital Efficiency and Competitiveness 📍 Room 1	Addressing Sustainability Challenges 📍 Room 2
Session Chair <b>Dr. Steve Hall</b> , Independent Industry Consultant	Session Chair <b>Saifuddin Sheikh</b> Sr. Director – Solution Consulting, AspenTech
<i>Stabilizer Fuel Gas Integration</i>  Speaker <b>Ali Al-Harbi</b> Senior Technology and Sustainability Engineer, Saudi Chevron Phillips (S-Chem)	<i>Using Low Carbon Hydrogen for Olefins Decarbonization: Operational and Economic Considerations</i>  Speaker <b>Ibrahim Sedie</b> Olefins Process Engineer, SABIC
<i>Design Philosophies for a Mixed Feed Cracker</i>  Speaker <b>Bruno Destour</b> Head of Olefin & Circularity department, Technip Energies	<i>Tasnee Energy Management Journey</i>  Speaker <b>Nafees Ahmad</b> Senior Process Engineer, TASNEE
<i>Model based Applications for Improving Capital Efficiency and Competitiveness in the Ethylene Industry</i>  Speaker <b>Sreekumar Maroor</b> Principal Consultant Engineer, Siemens	<i>Large Machine Electric Drives – How Experience in LNG Can be Applied to Ethylene Plants</i>  Speakers <b>Sheriff Nossair</b> Senior Manager, McDermott <b>Aivars Krumins</b> Global VP Downstream, MCDERMOTT



11:40 - 12:40 **Prayers, Lunch & Exhibition Networking**

📍 Lunch Area

12:40 - 14:10 **Technical Sessions**

Application of Big Data, Digitalization and Optimization 📍 Room 1	Enhancing Reliability 📍 Room 2
<p>Session Chair <b>Dr. Steve Hall</b>, Independent Industry Consultant</p> <hr/> <p><i>SPYRO® for Asset Management (SAM®) a New Advisory Product Leveraging SPYRO® throughout the Ethylene Plant Organization</i></p> <p>Speaker <b>Dr. Marco van Goethem</b> Manager Pyrotec and Digital Solutions   Senior Technology Expert, Technip Energies</p> <hr/> <p><i>SPCo Ethylene Plant Change in Operating Philosophy to Maximize Earnings</i></p> <p>Speaker <b>Hassan S Al-Ameer</b> Senior Engineer - Production Ethylene Hot Spco, Saudi Chevron Phillips (S-Chem)</p> <hr/> <p><i>Veolia's Comprise* Analytic Tool for Ethylene Cracked Gas Compressor System Assets, Helps Producers Meet Their Sustainability Objectives</i></p> <p>Speaker <b>Naveen Agrawal</b> Digital Analytics Leader, Veolia Water Technologies &amp; Solutions</p>	<p>Session Chair <b>Yvon Simon</b> Ethylene Technology Manager - Process and Technologies Division , Technip Energies</p> <hr/> <p><i>Increased Cracking Furnace Efficiency and Control, Using Visual Spectrum Temperature Measurement with Visual Verification</i></p> <p>Speaker <b>Alan O'Donoghue</b> Applications Engineer – Asia Pacific &amp; Middle East , J.M. Canty International Ltd</p> <hr/> <p><i>Increasing Reliability of Caustic Scrubber By Treatment Program and Monitoring</i></p> <p>Speaker <b>Amr Mansour</b> Technical Lead for Downstream Chemicals , Baker Hughes</p> <hr/> <p><i>EC Furnace Integrity Management &amp; Enhancement</i></p> <p>Speaker <b>Karan Potnis</b> Sr Engineer I, Static, Tasnee Petrochemicals</p>

14:10 - 14:40 **Coffee Break & Exhibition Networking**

📍 Exhibition Area

14:40 - 16:10 **Technical Sessions**

Addressing Sustainability Challenges 📍 Room 1	Mitigating Risk and Prioritizing Safety 📍 Room 2
<p>Session Chair <b>Dr. Mohammad Nahid Siddiqui</b> Professor of Chemistry - Chemistry Department and IRC for Membranes &amp; Water Security, King Fahd University of Petroleum &amp; Minerals (KFUPM)</p> <hr/> <p><i>Achieving overall Sustainability through Augmented Intelligence powered Digital Solutions</i></p> <p>Speakers <b>Mayuresh Mokal</b> Digital Solutions Client Engagement, Ingenero Inc <b>Abdulaziz Al-Fayez</b> Technology &amp; Sustainability Engineer, Saudi Chevron Phillips (S-Chem)</p>	<p>Session Chair <b>Dr. Basim Abussaud</b> Associate Professor, Dept. of Chemical Engineering, King Fahd University of Petroleum &amp; Minerals (KFUPM)</p> <hr/> <p><i>Thorough and Safe Decontamination of a Water Quench System within a Day</i></p> <p>Speaker <b>Berthold Otzisk</b> Senior Product Manager Process, Kurita AquaChemie</p> <hr/> <p><i>Fire Initiation inside Ethylene Cracking Furnace Fire Box</i></p> <p>Speaker</p>

*Integration of OCM & Steam Cracker for CO2 Reduction*

Speaker

**Jose De Barros** Vice President, Ethylene Business Group, Lummus Technology

*New Polysulfide Agent - Enhanced Performance for a Sustainable Operation*

Speaker

**Vivek Srinivasan** Sr.Manager, Global Technical Services, Dorf Ketal Chemicals Pvt Ltd

**Moutaz Alqarni** Engineer I, Monomer Operations, TASNEE

*Brownfield Operator Training Simulator (OTS) for Ethylene Plants. Operational Safety impact and lessons learned*

Speaker

**Leonardo Carpio Bustamante**, Inprocess Technology & Consulting Group, S.L.

16:10 - 16:20

### Closing Remarks

📍 Room 1

Master of Ceremony

**Abdulqader Abdullah** Student, King Fahd University of Petroleum & Minerals (KFUPM)

Speaker

**Shakeel Kadri** Executive Director & CEO, CCPS

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