



**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 Nihar Gulwadi Regional Head - MENA, Ingenero Inc</p>	<p>Session Chair Rawaf Al-Rawaf 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 Faisal Baksh Principal Consultant, AspenTech</p>	<p>Speaker Prateek Jain 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 Mayuresh Mokal Digital Solutions Client Engagement, Ingenero Inc</p>	<p>Speaker Dr. Gunther Kracker Director Director/Head of Product Management & Cost Estimation, 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 Dr. Daniel Eff Business Development Lead Petrochemical Solutions & Services Advanced Operations Services, Linde Engineering</p>	<p>Speakers Jim Middleton Group Vice President, Ethylene Product Line and Technologies, Technip Energies Thomas Soulas 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**

<p>Enhancing Reliability  Room 1</p>	<p>Capital Efficiency and Competitiveness  Room 2</p>
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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 Sr. Engineer, Olefins Process Engineering, SABIC - PETROKEMYA

Furnace Efficiency: Robotic Cleaning for Convection Section Maintenance

Speaker

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

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 Dr. Steve Hall, 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 Dr. Marco van Goethem 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 Hassan S Al-Ameer 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 Naveen Agrawal Digital Analytics Portfolio Leader, Veolia Water Technologies & Solutions</p>	<p>Session Chair Yvon Simon Head of Expertise and Solutions, Technip Energies</p> <hr/> <p><i>Increased Cracking Furnace Efficiency and Control, Using Visual Spectrum Temperature Measurement with Visual Verification</i></p> <p>Speaker Alan O'Donoghue Applications Engineer – Asia Pacific & 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 Amr Mansour Technical Manager, Baker Hughes</p> <hr/> <p><i>EC Furnace Integrity Management & Enhancement</i></p> <p>Speaker Karan Potnis Sr Engineer I, Static, TASNEE</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 Dr. Mohammad Nahid Siddiqui Professor of Chemistry - Chemistry Department and IRC for Membranes & Water Security, King Fahd University of Petroleum & Minerals (KFUPM)</p> <hr/> <p><i>Achieving overall Sustainability through Augmented Intelligence powered Digital Solutions</i></p> <p>Speakers Mayuresh Mokal Digital Solutions Client Engagement, Ingenero Inc Abdulaziz Al-Fayez Technology & Sustainability Engineer, Saudi Chevron Phillips (S-Chem)</p>	<p>Session Chair Dr. Basim Abussaud Faculty, King Fahd University of Petroleum & Minerals (KFUPM)</p> <hr/> <p><i>Thorough and Safe Decontamination of a Water Quench System within a Day</i></p> <p>Speaker Berthold Otzisk Senior Product Manager Process, Kurita AquaChemie</p> <hr/> <p><i>Fire Initiation inside Ethylene Cracking Furnace Fire Box</i></p> <p>Speaker Moutaz Alqarni Production Engineer II , TASNEE</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

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

Speaker

Leonardo Carpio Bustamante OTS Consultant, 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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