

# Day 1 - Wednesday, 09 Feb 2022

Kingdom of Bahrain

08:30 - 09:00 **Conference Opening**

08:30 - 08:35 **Welcome Remarks**

📍 Dana Hall 1

Master of Ceremony

**Eithne Treanor** CEO, E Treanor Media

Speaker

**Abdel Hadi Al Suhaimi** Executive President, Saudi Chevron Phillips (S-Chem)

08:35 - 08:45 **Opening Remarks**

📍 Dana Hall 1

Master of Ceremony

**Eithne Treanor** CEO, E Treanor Media

Speaker

**His Excellency Shaikh Mohammed bin Khalifa Al Khalifa** Minister of Oil, Kingdom of Bahrain  
*(invited)*

08:45 - 09:00 **Keynote Session**

📍 Dana Hall 1

Speaker - SABIC Senior Executive

Master of Ceremony

**Eithne Treanor** CEO, E Treanor Media

09:00 - 10:00 **Keynote Session: Addressing Sustainability Challenges**

📍 Dana Hall 1

Master of Ceremony

**Eithne Treanor** CEO, E Treanor Media

Speaker

**Dan Coombs** Executive VP (retired), LyondellBasell

10:00 - 10:15 **Coffee Break & Exhibition Networking**

📍 Entrance Foyer, Second Level, Gulf Convention Centre

10:15 - 11:15 **Keynote Session: Applications of Big Data, Digitalization and Optimization**

📍 Dana Hall 1

Speaker

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

11:15 - 11:30 **Coffee Break & Exhibition Networking**

📍 Entrance Foyer, Second Level, Gulf Convention Centre

11:30 - 12:00 **Plenary Speech: Capital Efficiency and Competitiveness**

📍 Dana Hall 1

Introductory Remarks: Mark Eramo, Global Senior Vice President, Oil Markets, Midstream, Downstream, and Chemicals, IHS Markit

Speaker

**Dr. Richard Charlesworth** Executive Director, IHS Markit

12:00 - 13:00 **Prayers, Lunch & Exhibition Networking**

13:00 - 14:00 **Parallel Technical Sessions**

Enhancing Reliability 📍 Dana Hall 1	Capital Efficiency and Competitiveness 📍 Dana Hall II
<p>Session Chair <b>Amer Saleem</b> Superintendent - Process Engineering, Saudi Chevron Phillips (S-Chem)</p>	<p>Session Chair <b>Muhammad Ilyas</b> Section Head - Process Design Engineering , Sadara Chemical Company</p>
<p><i>S-Chem Furnace Decoke Improvement</i></p> <p>Speaker <b>Saeed Alwahas</b> Process Engineer, Saudi Chevron Phillips Company <i>(invited)</i></p>	<p><i>Energy Savings for Steam Cracking Furnaces By Gas Turbine Integration</i></p> <p>Speaker <b>Jelle-Gerard Wijnja</b> Technology Manager Ethylene Furnaces, Technip Energies <i>(invited)</i></p>
<p><i>Impact of Sodium Contamination on the Cracking Furnace and Subsequent Cleanup Efforts</i></p> <p>Speaker <b>Vishal Karate</b> Technology Associate, Sadara Chemical Company</p>	<p><i>Taking a Comprehensive Approach to Achieving 7% Improvement in Naphtha Furnace</i></p> <p>Speaker <b>Prashant Tangade</b>, Ingenero Inc <i>(invited)</i></p>
<p><i>Predicting Radiant Tube Failure Due to Alumina Protective Layer Pitting</i></p> <p>Speaker <b>Abdul Vemmarath</b> Staff Engineer-Fixed Equipment, Saudi Chevron Phillips (S-Chem) <i>(invited)</i></p>	<p><i>Process Intensification in the Petrochemical Industry: Olefins/Paraffins Separation</i></p> <p>Speaker <b>Asma Al Kharusi</b> Assistant Professor , Universiti Sains Malaysia and International Maritime College Oman</p>

14:00 - 14:15 **Coffee Break & Exhibition Networking**  
📍 Entrance Foyer, Second Level, Gulf Convention Centre

14:15 - 15:15 **Parallel Technical Sessions**

Enhancing Reliability 📍 Dana Hall 1	Application of Big Data, Digitalization and Optimization 📍 Dana Hall II
<p>Session Chair <b>Gregory E. Yeo</b> Chief Engineer (retd), ExxonMobil Chemical Company</p>	<p>Session Chair <b>Jim Brigman</b> Managing Director, Ingenero Inc</p>
<p><i>Case Study of TURBO Expander Blades Failure Rcfa</i></p> <p>Speakers <b>Joseph Lillard</b> Core Technology Manager, Atlas Copco Mafi-Trench Company <i>(invited)</i> <b>Arslan Hamid</b> Rotating Equipment Engineer, Qatar Chemical Company <i>(invited)</i></p>	<p><i>Improve Margins By Aligning Planning and APC Using Dynamic Real Time Optimization for Ethylene Plants</i></p> <p>Speaker <b>Satyadev Susarla</b> Senior Business Consultant, Aspen Technology</p>
<p><i>Extending Turnaround CYCLE in Ethylene Plant through Continuous Proactive Asset Monitoring</i></p> <p>Speaker <b>Himanshu Malaiya</b> Senior Engineer -Process Technology, Ingenero Technologies Ltd <i>(invited)</i></p>	<p><i>Effective Use of Hybrid Modeling Using Big Data to Enhance Process Efficiency &amp; Energy Optimization in Ethylene Plant in Real Time</i></p> <p>Speaker <b>Nishant Jaiswal</b>, Ingenero Inc <i>(invited)</i></p>
<p><i>How Transformative Catalyst is Breaking Convention in Ethylene Production</i></p> <p>Speaker</p>	<p><i>Delivering on SABIC's Sustainability Goals through Real Time Energy Optimization</i></p> <p>Speaker <b>Faisal Baksh</b> Solutions Consultant, Aspen Technology <i>(invited)</i></p>

**Wolf Spaether** Head of Sales Ethylene & Derivates,  
Clariant *(invited)*

15:15 - 15:45 **Coffee Break & Exhibition Networking**  
📍 Entrance Foyer, Second Level, Gulf Convention Centre

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

Enhancing Reliability 📍 Dana Hall 1	Mitigating Risk and Prioritizing Safety 📍 Dana Hall II
<p>Session Chair <b>Dr. Mohammed AlRabie</b> Director - Engineering Department , Sadara Chemical Company</p>	<p>Session Chair <b>Yvon Simon</b> Ethylene Technology Manager , Technip Energies</p>
<p><i>Online Repair of Leaking Condenser and Bypassing Tailing Tower Column</i></p>	<p><i>Low-Emission Cracking Furnace</i></p>
<p>Speaker <b>Fahad Al-Hilali</b> Process Engineer, Saudi Chevron Phillips (S-Chem) <i>(invited)</i></p>	<p>Speaker <b>Peter Oud</b> Product development manager ethylene, Technip Benelux B.V. <i>(invited)</i></p>
<p><i>Technology Development for Improving Performance of Cracking Furnace</i></p>	<p><i>How to Reduce CO2 Emissions of Steam Cracking Furnaces</i></p>
<p>Speaker <b>Kinya Mitani</b> Engineering &amp; QA Dept. Manager, Kubota Saudi Arabia Company L.L.C. <i>(invited)</i></p>	<p>Speaker <b>David J. Brown</b> Senior R&amp;D Manager, AVGI <i>(invited)</i></p>
<p><i>Protecting Pygas First Stage Hydrogenation Reactor in Ethylene Plant</i></p>	<p><i>CO2 Reduction: A cost Effective Solution to Provide Sustainability by Reducing GHG Emissions from an Ethylene Plant</i></p>
<p>Speaker <b>Majed Mulla</b> Process Engineer, Saudi Polymer Company <i>(invited)</i></p>	<p>Speaker <b>Jose De Barros</b> Process Design Manager, Lummus Technology <i>(invited)</i></p>

16:45 - 18:15 **Break**

18:15 - 18:30 **Gala Dinner and Guest Arrival**  
📍 Outdoor Terrace, Gulf Convention Centre

18:30 - 20:00 **Gala Dinner**  
📍 Outdoor Terrace, Gulf Convention Centre

# Day 2 - Thursday, 10 Feb 2022

Kingdom of Bahrain

08:30 - 09:30 **Keynote Session: Industry Outlook**

📍 Dana Hall 1

09:30 - 09:45 **Coffee Break & Exhibition Networking**

📍 Entrance Foyer, Second Level, Gulf Convention Centre

09:45 - 10:45 **Executive Panel Discussion: Digitalization for Ethylene**

📍 Dana Hall 1

Ethylene production is one of the most energy intensive petrochemical processes and the pressure to improve is growing. Digitalization can be the most capital efficient means of making ethylene plants more profitable, reliable and sustainable.

Applying data analytics such as machine learning and artificial intelligence to existing data can result in more timely insights that remove variability, identify operational efficiency gaps, and increase unit availability. While digitalization software tools abound; success requires carefully defining the objectives upfront and then crafting a highly customized solution, utilizing the appropriate technology tools that best meet the objective, for the ultimate user. A combination of domain, software and data analytics expertise is necessary and requires ongoing management commitment, to ensure the necessary transformation and continuous value capture

EMET 2022 has a preeminent panel of distinguished experts that includes Ethylene executives that have successfully implemented digitalization programs for their operations and digitalization executives that have provided the software, implementation and expertise to achieve digital transformation for their Ethylene clients. Panelists will provide their perspective on keys to success, problems encountered and the best technology to utilize for the Ethylene industry.

Moderator

**Jamal N. Al Obireed** CDP Sr. Manager, Corporate Digitalization Program, SABIC *(invited)*

Speakers

**Saifuddin Sheikh** Director Business Consulting Operations, Aspen Technology

**Martin Simmonite** Senior Vice President, Technology-Led Industrial Solutions, KBR Technology

**Martin Piesker** Head of Digitalization, Siemens Energy LLC

**Murhaf Al-Madani** Vice President – Corporate Digitalization Program, SABIC - Al Bayroni

10:30 - 11:30 **Parallel Rountable Sessions**

10:45 - 11:00 **Coffee Break & Exhibition Networking**

📍 Entrance Foyer, Second Level, Gulf Convention Centre

11:00 - 12:00 **Executive Panel Discussion: Actionable Sustainability in Ethylene Manufacture**

📍 Dana Hall 1

Ethylene producers have long been focused on several key elements that drive their competitiveness: Attractive Feedstock, Low Capital Cost, High Reliability and Low Operating Costs. Strong performance in these critical areas have been the keys to long term success.

The global focus on Sustainability adds two new critical elements to this list: reduction in greenhouse gas emissions and elimination of plastic waste. New business strategies, investments and technologies will be required to achieve the reductions that global standards will demand in the next few years.

EMET 2022 is pleased to be offering a panel of distinguished experts that will discuss development and implementation of actionable sustainability strategies that apply to the ethylene industry. Panelists will offer perspectives on technology, facilities, regulatory frameworks and geopolitical enablers that will drive this significant change to our industry.

Moderator

**Badr Al-Johani** Sustainability Manager, Sadara Chemical Company

Speakers

**Dan Coombs** Executive VP (retired), LyondellBasell

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

**Justin Wood** Vice President of Strategic Partnerships, Alliance to End Plastic Waste *(invited)*

12:00 - 12:45 **Prayers, Lunch & Exhibition Networking**

12:45 - 13:45 **Parallel Technical Sessions**

Mitigating Risk and Prioritizing Safety 📍 Dana Hall 1	Application of Big Data, Digitalization and Optimization 📍 Dana Hall II
<p>Session Chair <b>Dr. Yunusa Umar</b> Associate Professor, Jubail Industrial College</p>	<p>Session Chair <b>Rob Howard</b> Vice President - MENA, Aspen Technology</p>
<p><i>Impact of Modularisation of Ethylene Plant on HSE Design practices</i></p>	<p><i>Real-Time Statistical Process Control of Ethylene and Its Derivatives</i></p>
<p>Speaker <b>Jerome Hocquet</b>, Technip Energies <i>(invited)</i></p>	<p>Speaker <b>Manoj Tiwari</b> Sr. Product Quality Specialist, Sadara Chemical Company <i>(invited)</i></p>
<p><i>Effective Learning Curve Through Swiss Cheese Model Application in Incident Management System</i></p>	<p><i>Digitalization of Pressure Swing Adsorption (PSA) Control Valves to Improve Operational Reliability</i></p>
<p>Speaker <b>Nileshkumar Patel</b> Process Safety Technology Leader, Sadara Chemical Company <i>(invited)</i></p>	<p>Speaker <b>Abhilash Nair</b> Director, Petrochemical Applications, Flowserve Corporation</p>
	<p><i>Next Generation of Production Optimization Delivers Benefits for Ethylene Manufacturer</i></p>
	<p>Speaker <b>Abhijit Igave</b> Sr.Principal Solution Consultant, Aspen Technology <i>(invited)</i></p>

13:45 - 14:00 **Coffee Break & Exhibition Networking**  
📍 Entrance Foyer, Second Level, Gulf Convention Centre

14:00 - 15:00 **Parallel Technical Sessions**

Enhancing Reliability 📍 Dana Hall 1	Addressing Sustainability Challenges 📍 Dana Hall II
<p>Session Chair <b>Fadi Mhaini</b> Director, Technology Licensing, Chevron Lummus Global</p>	<p>Session Chair <b>Dr. Thomas Garrison</b> Assistant Professor - Department of Chemistry, King Fahd University of Petroleum &amp; Minerals (KFUPM)</p>
<p><i>Optimization in Ethylene Cold Section Distillation Columns (Debutanizer and C3 Splitter Columns)</i></p>	<p><i>Hppe Plant Ethylene Purge Recovery Enhancement</i></p>
<p>Speaker <b>Abdullah Al-Zeer</b> Process Engineer, Saudi Chevron Phillips (S-Chem) <i>(invited)</i></p>	<p>Speaker <b>Rayyan Radhan</b>, Sadara Chemical Company <i>(invited)</i></p>
<p><i>Enhancing Reliability of Cracked Gas Compressors through Monitoring Program</i></p>	<p><i>Wonder from Garbage: How to Turn Plastic Waste into Cracker Feedstock</i></p>
<p>Speaker <b>Mahesh Ashrit</b> Petrochemical Technical Services, Baker</p>	<p>Speakers <b>Veronique Reich</b> Principal Process Engineer, Technip Energies <i>(invited)</i></p>

Hughes *(invited)*

*Improved Dilution Steam Generation Operational Reliability*

Speakers

**Dr. Bhaskar Reddy Aluri**, SABIC *(invited)*

**Thamer A Al-Seraihi** Engineer, SABIC *(invited)*

**Deepak Sharma**, Nalco Water *(invited)*

**James Starr** Project Manager, Technip Energies  
*(invited)*

*Addressing Sustainability in Olefins Feedstock Selection and Production Planning & Optimization*

Speaker

**Manuel Dias**, Aspen Technology *(invited)*

15:00 - 15:15 **Conference Closing**

15:15 - 15:45 **Exhibition Closing**