



MEPEC 2024
MIDDLE EAST PROCESS ENGINEERING
CONFERENCE & EXHIBITION

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The Definitive Event for Process Engineering in the Middle East

Digitalizing Process Engineering for a Sustainable Future

MAY 6-8, 2024 | Dhahran Expo, Kingdom of Saudi Arabia

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Poster Program

Day 1 - Monday, 06 May 2024

Kingdom of Saudi Arabia

09:00 - 18:00 **Monday Poster Session**

Topics	Topics	Topics
<p><i>Effective Management of Safety Instrumented Systems</i></p> <p>Speaker Dinu Caragheorghe Control System Engineer, Aramco</p>	<p><i>Ammonium Bisulfide and Ammonium Chloride Corrosion Control in Reactor Effluent Air Cooler Systems: An Operational and Engineering Experience in Aramco Refineries.</i></p> <p>Speaker Abdullah Alratoee Engineer, Aramco</p>	<p><i>CCTV Migration from Analogue to Digital Solutions</i></p> <p>Speaker Dinu Caragheorghe Control System Engineer, Aramco</p>
<p><i>Jazan Refinery Complex (JzRC) Pathways to Sustainability</i></p> <p>Speaker Nidal A Samad Operations Engineer Specialist, Aramco</p>	<p><i>The Role of CCUS Technology in the Oil and Gas Industry</i></p> <p>Speaker Mohammed Rustom Market Development Director - ME Region - Sustainable Technology Solutions, Honeywell UOP</p>	<p><i>An Asset Management Maturity Benchmarking Model</i></p> <p>Speaker Dr. Khalid Al-Jabr Engineering Specialist, Aramco</p>
<p><i>Kgp RO Quality Challenges and Improvements.</i></p> <p>Speaker Abdullah Aldadi Associate Engineer, Aramco</p>	<p><i>Sru Thermal Oxidizer Oxygen Analyzer Upgrade</i></p> <p>Speaker Ahmad Almousa Process Engineer, Aramco</p>	<p><i>Design of Wate Cooking Oil-to-Biodiesel Facility: A Case Study of Bahrain</i></p> <p>Speakers Ajaz Rashid Assistant Professor, University of Bahrain Muhammad Rizwan Assistant Professor, University of Bahrain</p>
<p><i>Integrating Safety, Operation, Maintenance and Environmental (S.O.M.E) Aspects during Detail Engineering Phase</i></p> <p>Speaker Rusheed Aldossari Engineer, Self Employed</p>	<p><i>Waste Heat Recovery in the Process of Sour Water Stripping (SWS)</i></p> <p>Speaker Hae Yong Noh Senior Process Engineer, Aramco</p>	<p><i>Best Practice to Mitigate High Risk of Improper Chemicals Management</i></p> <p>Speaker Heba Alhabboubi Senior Lab Scientist, Aramco</p>
<p><i>Aspen Plus Simulation: High-Valuable Syngas and High-Surface Area Modified Biochar from Pyrolysis of Chlorella Pyrenoidosa</i></p> <p>Speaker Gus Ali Nur Rohman, King Fahd University of Petroleum & Minerals (KFUPM)</p>	<p><i>Mesoporous ZSM-5 Additive for Catalytic Cracking of Waste Plastics in Vacuum Gas Oil to Light Olefins</i></p> <p>Speaker Abdulkadir Tanimu, King Fahd University of Petroleum & Minerals (KFUPM)</p>	<p><i>Asset Predictive Analytics Digital Solution</i></p> <p>Speaker Abdullah Albannay Digital Project Lead, Aramco</p>
<p><i>Water Treatment Optimizer</i></p> <p>Speaker Mohammed Aldossary Process Engineer, Aramco</p>		<p><i>Advancing H2S Removal in Multiphase and Singe Phase Streams: A Laboratory Investigation of Novel Nano-Enhanced Scavenging Agents</i></p> <p>Speaker Ahmed Akram, Samaa Technologies Co. Ltd.</p>

Day 2 - Tuesday, 07 May 2024

Kingdom of Saudi Arabia

09:00 - 18:00 **Tuesday Poster Session**

Topics	Topics	Topics
<p><i>Heat Integration of an Industrial Crude Plant Distillation Unit Using Pinch Analysis</i></p> <p>Speaker Saba Alomari Student, University of Bahrain</p>	<p><i>Optimizing Operations Unleashing Efficiency in Desalter Health for Enhanced Profitability - a Process Excellence & Techno-Economic Study</i></p> <p>Speaker Michael Lam Concept Solutions Engineer, SLB</p>	<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><i>Reducing Fuel Gas Usage in Sru Claus Burners for Improved Energy Efficiency, BTEX Destruction, and Sustainable Tgtu Operations</i></p> <p>Speaker Mohammed Aldossary Process Engineer, Aramco</p>	<p><i>Rejected Gas Recovery System for Gas Oil Separation Plants (Two Inventions)</i></p> <p>Speaker Abdulrahman Alshehri Lead Engineer, Aramco</p>	<p><i>Predicting Crude Quality in Gas Oil Separation Plants Using Hybrid AI: Physics Driven Machine Learning Modelling</i></p> <p>Speakers Syed Abrar Ahmed Process Engineer, Aramco Abdullah Alhussain Process Engineer, Aramco</p>
<p><i>Robust Automation and Analytics Lead to Improved Fouling, Emulsion, and Corrosion Control in Ethylene Plants</i></p> <p>Speakers William Choueri, Veolia Water Technologies & Solutions Oreste Vassillo Senior Product Application Leader HPI/CPI Middle East, Veolia Water Technologies & Solutions</p>	<p><i>Carbon Capture and Storage Pilot Project</i></p> <p>Speaker Massimo Capra Process Service Manager, Aggreko</p>	<p><i>Non-Contact Radar Wellhead Growth Monitoring Digital Solution to Protect Well Integrity</i></p> <p>Speaker Jai Chainani Senior Process Control Engineer, Aramco</p>
<p><i>Economic Optimization of the Energy Portfolio Management at Hard-to-Abate Industries</i></p> <p>Speaker Alaa Alsaffar Instructor, University of Bahrain</p>	<p><i>Energy Conservation & Emissions Reduction through Sustainability Digital Solutions</i></p> <p>Speaker Mohammed Al Buainain Process Engineer, Aramco</p>	<p><i>Real-Time Framework to Detect Leaks in Industrial Heat Exchangers Network</i></p> <p>Speaker Abdulrahim Mohammed Data Analytics Engineer, BAPCO</p>
<p><i>Effective Propane Preservation Strategy</i></p> <p>Speaker Rayan Aldahan Associate Engineer, Aramco</p>	<p><i>Lummus Hybrid Cracking Heater</i></p> <p>Speaker Hani Alkhalifah Sr. Tech Services Engineer, Lummus Technology</p>	<p><i>Optimizing Methanol Synthesis: Integration of a Digital Twin with Aspen HYSYS for Enhanced Plant Performance and Profitability</i></p> <p>Speaker Yomna Ayyad Student, University of Bahrain</p>
<p><i>King Faisal University: A Pioneering story with patents</i></p> <p>Speaker Hany M. Abd El-Lateef, KFU - King Faisal University</p>	<p><i>Eco-Friendly Decarbonization Process to Convert Carbon Dioxide to Liquid Fuels</i></p> <p>Speakers Shamsa Alderei Student, United Arab Emirates University Amna Almahri Student, United Arab Emirates University</p>	<p><i>Advanced Filtration Solutions to Optimize Clean Hydrogen Production</i></p> <p>Speaker Hassan Al Saood Principal Field Scientist, Pall Corporation</p>

Day 3 - Wednesday, 08 May 2024

Kingdom of Saudi Arabia

09:00 - 15:00 **Wednesday Poster Session**

Topics	Topics	Topics
<p><i>NGL Quality Journey Towards Digitalization at Saudi Aramco</i></p> <p>Speaker Taib Abang Engineering Consultant, Aramco</p>	<p><i>Elimination of Dry-out Gas Flaring during Natural Gas Liquids Recovery Process Start-up</i></p> <p>Speakers Ahmed Al Ahmed Process Engineer, Aramco Abdulaziz Alaql Operations Engineer, Aramco</p>	<p><i>Hybrid AI - Industrializing Physic Based Model from Engineering to Operation</i></p> <p>Speaker Muhamad Zaki Bin Zaini Digital Production BDM, SLB</p>
<p><i>Performance Analysis of Innovative Multi- Stage High Oily Industrial Wastewater Treatment System</i></p> <p>Speaker Faisal Bader Almutairi Engineer, Aramco</p>	<p><i>Techno-Economic Analysis and ML-Based Optimization of Advanced Solvent Looping and Stripper-Free Absorption Process for Pre-Combustion CO2 Capture from a Smr Plant</i></p> <p>Speaker Jun-Ho Kang Senior Developer, DogWoodAI</p>	<p><i>Guided Experimental Design for Modeling Methane Dehydroaromatization Reaction Systems</i></p> <p>Speaker Byanne Malluhi Student, Texas A&M University at Qatar</p>
<p><i>Process Optimization with an Efficient Separation Section: A Case Study on Scaleup of Enhanced Olefin Production from Butenes</i></p> <p>Speaker Dr. Qi Xu Engineering Specialist, Aramco</p>	<p><i>Smart Solutions for Integrated, Optimized and Predictive Refinery Operations</i></p> <p>Speakers Ashly Titus IT Business Application Section Head, Saudi Aramco Jubail Refinery Company (SASREF) Hamoud Al-Zuabi IT Analyst, Saudi Aramco Jubail Refinery Company (SASREF)</p>	
<p><i>Green Hydrogen – Electrolysers, Comparison, Evaluation & Hydrogen Usages</i></p> <p>Speaker Mihir Patel Engineering Manager - Major Contracts, Muscat Engineering Consultancy Ltd.</p>	<p><i>Conversion of High-Moisture Wastes into Fuels and Chemicals Via Hydrothermal Technologies</i></p> <p>Speaker Dwi Hantoko Researcher, King Fahd University of Petroleum & Minerals (KFUPM)</p>	
<p><i>Sweet Gas Recycles for NGL Recovery Enhancements</i></p> <p>Speaker Rayan Aldahan Associate Engineer, Aramco</p>		
<p><i>Flaring and GHG Emissions Minimization By Eliminating Off-Gas Flaring - a Success Story</i></p> <p>Speaker Mohammed Albuainain Process Engineer, Aramco</p>		
<p><i>Gasification Technology: Unlocking the Potential of Sustainable Aviation Fuel Production.</i></p> <p>Speaker Daffer Alyami Manager, Aramco</p>		

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