





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 mepec.org



Day 1 - Monday, 06 May 2024

Kingdom of Saudi Arabia

07:30 - Registration

08:00 - 09:00 VIPs & Guests Arrival

09:00 - 09:20 Opening Remarks from 2024 MEPEC Conference Chairman

Master of Ceremony

Eithne Treanor FOUNDER & CEO, E Treanor Media

Speaker

Walid A. Al Naeem Vice President & Chief Engineer, Aramco

09:20 - 09:40 Keynote Session: Sustainable future - Key insights into the opportunities for Middle Eastern energy

P Hall 1

Highlight Shell's progress toward its sustainability goals, core beliefs, and its revised Energy Transition Strategy. Provide insights and learnings from some of the changes taking place within Shell assets

Facilitator

Eithne Treanor FOUNDER & CEO, E Treanor Media

Keynote Speaker

Elise H Nowee President, Shell Catalysts & Technologies

09:40 - 10:00 Keynote Session: Scaling Technologies for the Future: Our Approach to Collaborative Development and Innovation

How the process technology development landscape has changed over time, including the specific needs today. Need for accelerated development and deployment - how to manage risk and leverage new approaches. Collaboration between Operators and Technology providers. Collaboration between technology companies.

Facilitator

Eithne Treanor FOUNDER & CEO, E Treanor Media

Keynote Speaker

Bryan Glover Chief Technology & Growth Officer, Honeywell

10:00 - 11:00 Break & Exhibition Networking

11:00 - 12:00 Strategic Panel: Role of Process Excellence in Driving Sustainability

Hall 1

How to leverage the power of process excellence to cope with the upcoming storm of global climate risks.

Moderator

Eithne Treanor FOUNDER & CEO, E Treanor Media

Speakers

Hassan Hussain Al Hosani Senior Vice President Projects and Technical, ADNOC Refining Ebubekir Koyuncu Chief Executive Officer, Air Products Qudra Tim McMinn Vice President, ExxonMobil Technology and Engineering Company (EMTEC) Mahdi F. Aladel Chief Executive Officer, Aramco Ventures

12:00 - 13:00 Exhibition Networking

13:00 - 14:00 **Technical Session I**

Process Excellence I ▼ Session Room A, Hall 2	New Energies I ♥ Session Room B, Hall 2	Digitalization I ♥ Session Room C, Hall 2	Decarbonization & Energy Transition VII Session Room D, Hall 2
Moderator Kelepile E. Meleloe Engineer, Aramco	Moderator Dr. Basim Abussaud Chair, King Fahd University of Petroleum & Minerals	Moderator Dr. Steve Hall Industry Consultant, Self Employed	Moderator Dr. Nasiru M. Tukur Engineering Consultant, Aramco
Managing High-Risk Transitions: How Petro Rabigh Partnered with Grace to Deliver Refinery Value and Successfully Manage Technology Change Speakers Graeme MacAulay Technical Service Manager, W.R. Grace &	Overcoming Modularisation Challenges for Low Carbon Hydrogen (LCH) Plants Speaker Eric Maina Engineering Manager, MCDERMOTT Ereact TM : Production of	End-to-End Optimization of Stabilization Columns through Advanced Process Control Speakers Alaa Aljassim Process Engineer, Aramco Waled Bin Howiml Process Engineer, Aramco	A Plant's Sustainability By Utilizing Flare Gas Recovery System Speakers Abdulaziz Al Qubali Project Engineer, Aramco Naseem Al Rashedi Supervisor Project Engineer , Aramco
Co Ahmed Aladwani Process Engineer, Petro Rabigh Leverage Process Simulation Tool for FCC Catalyst Selection Speaker Mohammad Rakib	Chemicals and Sustainable Aviation Fuels Using Electrified Synthesis Gas Generation Speakers Aadesh Harale Research Science Specialist, Aramco Adam Kadhim Product Line Director, Topsoe	Al-Enhanced Gasoline Blending System for Refineries Speaker Abdul Gani Abdul Jameel Associate Professor, King Fahd University of Petroleum & Minerals (KFUPM)	Incremental Approach to Decarbonization for Steam Crackers Speaker Jose De Barros Vice President, Ethylene Business Group, Lummus Technology
Research Science Specialist, Aramco Elimination of Dry-out Gas Flaring during Natural Gas Liquids Recovery Process Start-up Speakers Abdulaziz Alaql Process Engineer, Aramco Ahmed Al Ahmed Process Engineer, Aramco	Technoeconomic Study on the Thermochemical Recycling of Waste Plastic to Produce Dimethyl Ether Speaker Mohammad Awwad Master Student, KAUST Catalysis Center	Al Approach to Real Manufacturing World: Al Solution for an HCR Plant and Al Hybrid Solution for a TDM Plant Speaker Chang-Ha Lee CEO, DogWoodAl & Yonsei University	Unlocking Sustainable Chemistry: Landfill Gas Utilization for Green Chemical Production Speaker Sami Alrashidi Technology Management Engineer, SIRC Saudi Investment Recycling Company

14:00 - 14:30 Break & Exhibition Networking

14:30 - 15:30 **Technical Session II**

 Process Excellence II
 Decarbonization & Energy
 Digitalization II
 Process Excellence XI

 ♥ Session Room A, Hall 2
 Transition I
 ♥ Session Room C, Hall 2
 ♥ Session Room D, Hall 2

Session Room B, Hall 2 Moderator Moderators Moderator Moderator **Shakeel Kadri Executive** Tim McMinn Vice **Faisal Ahmad Raza Dr. Mohamed Bin Shams** Director, CCPS President, ExxonMobil Technical Expert -Professor, University of Process, SLB Saudi Arabia Technology and Bahrain **Engineering Company** Manage Process Safety By (EMTEC) Making an Big Impact on Dr. Debalina Sengupta Enhancing Reaction Evaluation of the Maturity Nuisance Alarm Program Director, Coastal Furnaces Temperature LEVEL of the Process Management Resilience, Texas Sea Monitoring through Safety Culture for OIL and Grant, Texas A & M Machine Learning Gas Industry Workers in a University Region of the Middle EAST Speaker Jai Chainani Senior Speaker **Abdullah Alhumaid** Process Control Engineer, Valorizing Biomass Waste Associate Engineer, Aramco Speaker into Activated Carbon for a **Leonardo Cotrufo Lead** Aramco Low Carbon Economy Engineer, Aramco Achieving Operational Excellence through SSX Digitization of Gas-Oil Speakers Separation Plant (GOSP) Samref SRU Catalyst Manar Al Attar Student, Space Using an Hybrid/AI Management, Retrofit and International Maritime Speaker Model Optimization Initiatives **Mohammad Albuzaid** College of Oman during the 2023 T/A President, KANZ Anfal Al-Shezawi Process Engineer (Student), Speakers International Maritime **Faisal Ahmad Raza** Speakers Evaluation of the Disposal College of Oman Technical Expert -Khalid Ghazal Technical of a Sour Water Stream to Process, SLB Saudi Arabia **Process Engineering Mohamed Nassar MENA** (Sulfur & Amine Specialist), Protect the Integrity of a Saudi Aramco Mobil Flare System in an Oil and Tech Sales, SLB Reduction of CO2 Emissions on the Crude Gas Processing Facility Refinery Company Ltd. Desalting Systems: A (SAMREF) Marc Elia Regional Sales Focus on Fourth-Advanced Process Control Speaker Simon Wohnsiedler Lead Generation Dual-Tools Toward Plant Manager, Axens Process Engineer, Aramco Frequency Electrostatic Optimization. Technology Speakers Consequences and Speakers **Almuhannad Basuni** Mitigations to High Sulfur Condenser Inlet John Philip Marshal **Advanced Process Control** Process Engineer, SLB Engineer, Saudi Aramco Temperature **Arun Goel** Concept Mobil Refinery Company Solution Engineering Ltd. (SAMREF) Speaker Manager, SLB Safi M. AlBuhairi Process Ziyad Alshahrani Process Control Specialist, Saudi Engineer, Aramco

15:30 - 16:30 Technical Session III

Process Excellence III Session Room A, Hall 2	Decarbonization & Energy Transition II Session Room B, Hall 2	Digitalization III ♥ Session Room C, Hall 2	Digitalization VII ♥ Session Room D, Hall 2
Moderator Dr. S M Zakir Hossain Associate Professor, University of Bahrain	Moderators Tim McMinn Vice President , ExxonMobil Technology and	Moderator Fawaz Sahan Senior Engineering Consultant, IIoT Leader and Chairman	Moderator Dr. Steve Hall Industry Consultant, Self Employed

Membrane Reactors for

Alaa Albasry Associate Engineer, Aramco

Low Carbon Hydrogen

Production

Speaker

Aramco Mobil Refinery

Company Ltd. (SAMREF)

Chevron Lummus Global's Hydroprocessing Success at Jazan Refinery

Speaker

Suresh Kumar Nellore

Manager, Techncial Services, Chevron Lummus Global (CLG)

An Optimal Crude Oil Selection in a Refinery with Lube Hydroprocessing Capacity

Speaker

Lujayn Alsayoof

Economic Optimization Specialist, Bapco Energies

Enhancing Safety and Emergency Response in Industrial Processes: Implementation of HF Alky Critical Operating Parameter (COP) for Hazard Mitigation.

Speaker

Almuhannad Basuni

Advanced Process Control Engineer, Saudi Aramco Mobil Refinery Company Ltd. (SAMREF) Engineering Company (EMTEC)

Dr. Debalina Sengupta

Program Director, Coastal Resilience, Texas Sea Grant, Texas A & M University

Blue Hydrogen and Ammonia: Large Scale with Ultra Low Carbon Intensity

Speaker

Jesper Poulsen Licensing Manager, Topsoe

Performance Evaluation of Membrane Reactor for Low Carbon H2 Production

Speaker

Rakesh Kumar Lead Engineer, Aramco

Carbon Dioxide Transport with Impurities: Optimal Design and Operation of Pipelines

Speaker

Ahmed Alhajaj Assistant Professor, Khalifa University of Instrumentation Standards, Aramco

Industrial Internet of Things Architecture Standardization (Benefits, Challenges & Remediations)

Speakers

Dr. Mohammed A Alsaeed Engineering Consultant, Aramco Omar Alabdulwahed

Senior Engineer, Aramco

Physics-Informed Automated Discovery of Kinetic Rate Models

Speaker

Miguel Ángel de Carvalho Servia PhD Candidate, Imperial College London

Innovative Process Analyzer Technology for Measuring Gas Composition

Snaakar

Ali Aldossary Engineering Specialist, Aramco Enhancing Ethylene Steam Cracker Equipment Design through Al: Addressing Thermal Stresses and Predicting Remaining Useful Life in Cold Boxes

Speakers

Saravana Bhavan Baskaran Engineering

Specialist, Aramco
Prashant Kumar Senior
Business System Analyst,
Aramco

Joud Al Jalaoud Data Scientist, Aramco

Al Based Multi-Unit Real Time Optimizer (First Refinery in the Middle East)

Speakers

Othman Shamrani

Automation & Control Sys. Unit Yanbu Refinery Department, Aramco Raad Bassam Mulla DT & Energy Teams Leader -

Energy Teams Leader -Yanbu Refinery Department, Aramco

Phosphate Injection Prediction Tool

Speaker

Abdulsalam Ali Process Engineer, Aramco

Master of Ceremony

Weam Al Dakheel Journalist and TV Presenter, Saudi Arabia

Speakers

Wail A. Al Jaafari Executive Vice President Technical Services, Aramco

Dr. Darlene Schuster Executive Director & CEO, American Institute of Chemical Engineers (AIChE)

18:15 - 18:30 **Break**

18:30 - 19:00 Gala Dinner Reception

19:00 - 20:30 Gala Dinner (by invite only)

Day 2 - Tuesday, 07 May 2024

Kingdom of Saudi Arabia

07:30 - Registration

08:00 - 09:00 VIPs & Guests Arrival

09:00 - 09:20 Keynote Session: Innovating for Sustainability in the Emerging Low Carbon Energy Landscape

P Hall 1

Master of Ceremony

Osama Al-Ansari Master of Ceremonies, Saudi Arabia

Keynote Speaker

Dr. Khalid Al-Qahtani Senior Vice President, Engineering Services, Aramco

09:20 - 09:40 Keynote Session: A Balancing Act: Current and Future Realities in the Energy Transition
Through Process Technologies and Innovation

♀ Hall 1

Master of Ceremony

Osama Al-Ansari Master of Ceremonies, Saudi Arabia

Keynote Speaker

Leon de Bruyn President and CEO, Lummus Technology

09:40 - 10:30 Special Featured Panel: Bridging the Learning Gap between Academia and Industries

Strategies for closer collaboration, curriculum alignment, and skills development between academia and process engineering industries. Industry leaders and academic experts share insights to prepare students for real-world challenges and enhance industry relevance in academic curricula.

Moderator

Eithne Treanor FOUNDER & CEO, E Treanor Media

Speakers

Saad H. Binmatlig President & CEO, Yanbu Aramco Sinopec Refinery Co. (YASREF)
Bassam Al Bokhari CEO, EnergyTech

Dr. David Dixon Professor, South Dakota School of Mines & Technology

Prof. Abdulrahman Al Lily Vice President for Graduate Studies and Scientific Research, KFU - King Faisal University

10:30 - 11:00 Break & Exhibition Networking

Where are the best use cases in the field, how to connect with the right capabilities/talent, what does success look like, etc?

Moderator

Eithne Treanor FOUNDER & CEO, E Treanor Media

Speakers

Bart Boesmans Chief Technology Officer, ACWA Power

Norm Gilsdorf CEO, Plant.Digital

Dr. Kian Mossanen CIO and SVP, Siemens Energy

Ahmad Al-Abdrabbuh Senior Executive Vice President & Board Director, Yokogawa MEA

12:00 - 13:00 Exhibition Networking

13:00 - 14:00 Technical Session IV

Process Excellence IV ▼ Session Room A, Hall 2	New Energies II Session Room B, Hall 2	Digitalization IV ▼ Session Room C, Hall 2	Decarbonization & Energy Transition VIII Session Room D, Hall 2
Moderator Fadi Mhaini Vice President & Managing Director, MENA, Lummus Technology	Moderator Mohammad Mozahar Hossain Professor, King Fahd University of Petroleum & Minerals	Moderator Saifuddin Sheikh Sr. Director – Solution Consulting, AspenTech	Moderator Dr. S M Zakir Hossain Associate Professor, University of Bahrain
Discover Your Plant Potentials Speaker Mohamed Abouzid Process Engineer, TASNEE	Methanol to Jet: A Promising Pathway for Sustainable Aviation Fuel Speaker Mohammed Rustom BD Director, Honeywell UOP	Refinery Energy Demand Forecasting through Data Analytics and Machine Learning – a Case Study Speakers Omar Naeem Lead Digitalization & Optimization Engineer,	Techno-Economic- Environmental Analysis of Hydrogen Production and Transportation Network in Saudi Arabia Speaker Fatimah Alhassan Student, King Fahd
Integrating Safety, Operation, Maintenance and Environmental (S.O.M.E) Aspects during Detail Engineering Phase Speaker Rusheed Aldossari Engineer, Self Employed	Simulation of Bio-Oil Production from Fast Pyrolysis of Dates Waste Biomass in Saudi Arabia to Produce Fuels and Chemicals Speaker Ariel Gursida PhD Student, King Fahd University of Petroleum & Minerals (KFUPM)	Aramco Muhammad Abbas Engineering Specialist, Aramco Saudi Aramco's Process Digital Twins: Advances & Implementation Strategy	University of Petroleum & Minerals (KFUPM) Challenges and Opportunities for Integration of Mixed Plastic Waste and Plastic Derived Oil into Refineries, Crackers and Plastic Sinks Speakers Rasha Daadoush Co-Lead - Aramco Sabic Circular Solutions Technology Integration Team, Aramco Salahdine EL Idrissi Engineer Specialist, Aramco
Benefits of Switching from Conventional High Temperature to Low Temperature Catalyst in the Tail Gas Treating Unit Speaker Khalid Nadhem Senior Process Engineer, Bapco Energies		Speaker Abdullah Alghazal Process Optimization Engineer, Aramco	
	Leveraging Digital Process Twins for Efficient and Flexible Hydrogen Production: From Design to Operation Speaker Taseer Seer Senior Applications Engineer, Siemens	Refinery Wide Process Simulation Digital Twin (PSDT) Speaker Majed Aldalbahi Digital Transformation Lead, Aramco	
			Methane Pyrolysis Integration for Low Carbon Ammonia and Urea Production
			Speaker Muhamad Reda Galih Pangestu M.Sc. Candidate, King Fahd University of Petroleum & Minerals (KFUPM)

Process Excellence V Decarbonization & Energy Digitalization V Process Excellence XII Session Room A, Hall 2 Transition III Session Room C, Hall 2 Session Room D, Hall 2 Session Room B, Hall 2 Moderator Moderator Moderator Moderator Amer Saleem Manager Dr. Gopal Juttu Research Nihar Gulwadi Regional Hashem Al-Hashem Technology and Science Consultant. Head - MENA, Ingenero Leader, GAS & ARRAZI Sustaiability, Saudi Aramco Project, SABIC Chevron Phillips (S-Chem) Techno-Economic Analysis Artificial Intelligence Improving Air Separation Correlation for Condensed of Ammonia for Power Associated Drones Plant Energy Intensity By Hydrocarbon Fraction Generation Application in Solutions for Waste Optimizing Its Operation Provides Better Water Dew the Middle East Region Disposal Management in Point Estimation in Column the Process Industries Speaker Overhead Systems **Mohammed Almutawa** Mohammed Davili Project Speaker Process Engineer, SABIC Engineer, Aramco **Burri Harsha Vardhan** Speakers Fatima Janahi Associate **Reddy** Senior Data Senior Process Engineer, Consultant, Artificial Pinch Analysis, a Retrofit **Bapco Energies** Experimental Study of Intelligence Global Approach for Process and Velmurugan Venkatesan Methane Pyrolysis for Company (AIGC) Energy Optimization in Superintendent RHC and Hydrogen Production Crude Oil Refinery and Projects, Bapco Refining Downstream Processes. Refinery Advisory Hub- a Opportunity for Reduction Speaker **Omar Behar Post** Conceptual Promising Use in Emissions and Opex. Impact of Dynamic Flare Doctoral, King Abdullah Case of Large Language Analysis on Cost, Safety University of Science and Models (LLM) Speaker and Environment Syed Abbas Raza Lead Technology (KAUST) Speakers Process Engineer, Muscat Speaker **Arun Kumar Thalondan Engineering Consultancy** Taseer Seer Senior Carbon Capture and Poyithaya Business Ltd. Storage Pilot Project System Analyst, Aramco Applications Engineer, Siemens Raad Bassam Mulla DT & Improve CDU Corrosion Energy Teams Leader -Speaker Mitigation Strategy through Massimo Capra Process Yanbu Refinery Cloud-Based Ionic Turnaround Cycle Manager, Aggreko Department, Aramco Optimization a Trade-Off Reema Alamoudi Modelling between Production Loss Associate IT System and Catalyst Lifetime Analyst, Aramco Speaker Abstract Cristian Spica Senior Application Engineer, OLI Surrogate Based Mixed Systems Inc. Speaker **Mahmoud Elsayed** Lead Integer Linear Process Engineer, SABIC Programming Model for ARRA7I Decarbonization of an Integrated Gas-Oil Separation Network Speaker Abdullah Bahamdan PhD Candidate, Imperial College London

15:30 - 16:30 Technical Session VI

Process Excellence VI

Session Room A, Hall 2

Decarbonization & Energy
Transition IV

Session Room B, Hall 2

Decarbonization & Energy
Transition IV

Session Room C, Hall 2

Process Excellence XIII

Session Room D, Hall 2

Moderator

Claudia Janse van Rensburg Regional Marketing Manager EMEA, W.R. Grace & Co

System Reliability and Sustainability Improvement in DSG at Ethylene Plant

Speaker

Mohammad Imran Khan

Senior Production Engineer, Saudi Chevron Phillips (S-Chem)

Jazan Refinery Complex -Pathway to Environmental Sustainability

Speaker

Nidal A Samad Operations Engineer Specialist, Aramco

Fix Combustion Control Malfunction

Speaker

Emad Fallatah Staff Engineer, Advanced Process Control, SABIC ARRAZI Moderator

Dr. Gopal Juttu Research Science Consultant, Aramco

Evaluating the Risks and Framework for Hydrogen Fuel Road Transportation in Bahrain

Speaker

Bassam Alhamad Assistant Professor, University of Bahrain

Transition to Lower Carbon Fuels

Speakers

Romain Roux Vice President Decarbonization & Consulting, Axens Joseph Ibrahim Managing Director, Axens

Carbon Emissions Management and Decision Support Made Easy By Digital Solution

Speaker

Saifuddin Sheikh Sr. Director – Solution Consulting, AspenTech Moderator

Dr. Rohit Patwardhan Sr. Engineering Consultant, Aramco

Real Time Economic Performance System

Speakers

Shashikant Ramsangar Senior Engineer, Aramco Parandhama Gudapati Lead Business System Analyst, Aramco

Forecasting Process Faults Using Machine Learning in a Reactive Absorption Case Study

Speaker

Yasser Al-Goufily Scientist, SABIC Moderator

Faisal Ahmad Raza

Technical Expert -Process, SLB Saudi Arabia

Aramco Way of Managing Advanced Process Control Portfolio

Speaker

Ali Altayeb Associate APC Engineer, Aramco

Troubleshooting Vertical Reboiler Performance in a Stabilizer Plant By Leveraging Digital Aspen HYSYS Simulation

Speaker

Majed A. Al-Jeshi

Process Engineer, Aramco

Optimization of ULSD Vacuum Drying and Thus Reducing Equipment Counts/Sizes; Saving Steam Consumption and Energy Resulting Reducing Carbon Foot Print

Speakers

Rajib Talukder Lead Engineer, Aramco Prabhas Mandal Operations Engineer Specialist, Aramco

15:30 - 17:00 AIChE Middle East Regional Chem-E-Car Competition®

Day 3 - Wednesday, 08 May 2024

Kingdom of Saudi Arabia

07:30 - Registration

08:00 - 09:00 VIPs & Guests Arrival

09:00 - 09:20 Keynote Session: Commitment to Innovation and Process Excellence

Master of Ceremony

Osama Al-Ansari Master of Ceremonies, Saudi Arabia

Keynote Speaker

Dr. Ali Abdullah Al-Meshari Senior Vice President, Technology Oversight and Coordination, Aramco

09:20 - 09:40 Keynote Session: A Perspective on Technology Development at SABIC

P Hall 1

Master of Ceremony

Osama Al-Ansari Master of Ceremonies, Saudi Arabia

Keynote Speaker

Ernesto Occhiello EVP, Technology and Innovation, SABIC

09:40 - 10:00 Keynote Session: Creation of sustainable value: Industrial Automation to Industrial Autonomy

Master of Ceremony

Osama Al-Ansari Master of Ceremonies, Saudi Arabia

Keynote Speaker

Norinao Sato President and CEO - Saudi & President and CEO - Middle East and Africa, Yokogawa

10:00 - 10:30 Break & Exhibition Networking

10:30 - 11:30 Strategic Panel: Hydrocarbon Plant of the Future

What does the next generation of refineries/chemical plants look like, what do they produce, where will they be, how will they decarbonize, etc?

Moderato

Shakeel Kadri Executive Director, CCPS

Speakers

Dr. Rajesh Gattupalli Vice President & General Manager, Honeywell UOP
 Menahi Al Utaibi Vice President of Manufacturing, Saudi Aramco Jubail Refinery Company (SASREF)

Mariano Delpozo VP, Engineering & Technical Services, SATORP

Fabien Lundy EMEA Commercial VP, Axens

Lada Kurelec General Manager Polymers Technology & Innovation, SABIC

11:30 - 12:30 Exhibition Networking

12:30 - 13:30 Technical Session VII

Process Excellence VII Session Room A, Hall 2	Decarbonization & Energy Transition V Session Room B, Hall 2	Process Excellence VIII ▼ Session Room C, Hall 2	New Energies III ♥ Session Room D, Hall 2
Moderator Dr. Hayat Abdulla Yusuf Head of Scientifc Research Department, University of Bahrain	Moderator Dr. Ranjit Kulkarni General Manager , Honeywell UOP	Moderator Shakeel Kadri Executive Director, CCPS	Moderator Dr. Anas F. Alkhani Engineering Specialist, Aramco
Design and Operation of Various Gas-Liquid Distributors for Trickle Bed Reactors Speaker Pradyut Kumar Dhar Senior Engineer - Research and Analytical	Decarbonization: Operational and Economic Considerations Speaker Ibrahim Sedie Process Engineer, SABIC	Novel Approach for Increasing Gas Production and Enhancing Controllability for Upstream Degassing Tanks Toward Process Excellence Speakers Hussain Abualsaud Process Engineer, Aramco Mohammed Alwani	Photocatalytic Hydrogen Generation from Seawater Using High Performance Polymeric Materials Speakers Ghalya Alabdulla Chemical Engineer, Texas A&M University at Qatar Noora Alsubaiei
Services Department, Aramco	Process Results and Operational Experience	Engineer, Aramco	Graduate, Texas A&M University at Qatar
Heat Integration of an Industrial Crude Plant Distillation Unit Using Pinch Analysis Speaker Saba Alomari Student, University of Bahrain	from the Dmx [™] Demonstrator Installed at Arcelormittal's Steel Mill at Dunkirk, France Speaker Peggy Chan Technology Engineer, Axens TC2C [™] - More Carbon-	Plant Optimization – Begins with Right Concept and Effective Detailed Design Speaker Saravanavel Muthiah Ponnusamy Process Engineering Manager, SLB	Potential of Lcaf As a Complementary Tool for Decarbonizing the Aviation Industry Speaker Dr. Nasiru M. Tukur Engineering Consultant, Aramco
	Effective Conversion of Crude Oil into Chemicals Speakers Derek Jones Principal Technology Specialist, Lummus Technology Mazin Tamimi Lead Lab Scientist, Aramco		Accelerating Scale up of the Hydrogen Economy with Systems-Level Strategic Evaluation Speaker Faisal Baksh Solutions Consultant, AspenTech

13:30 - 14:00 Break & Exhibition Networking

14:00 - 15:00 **Technical Session VIII**

Process Excellence IX Session Room A, Hall 2	Decarbonization & Energy Transition VI Session Room B, Hall 2	Process Excellence X Session Room C, Hall 2	Digitalization VIII ♥ Session Room D, Hall 2
Moderator Faisal Ahmad Raza Technical Expert - Process, SLB Saudi Arabia	Moderator Dr. Ranjit Kulkarni General Manager , Honeywell UOP	Moderator Dr. Mohamed Bin Shams Professor, University of Bahrain	Moderator Nihar Gulwadi Regional Head - MENA, Ingenero Inc

Best Practices in Design, Operation and Data Interpretation of Fixed Bed Pilot Scale Units to Overcome Scale-up Challenges for Hydroprocessing Catalysts

Speaker

Pradyut Kumar Dhar

Senior Engineer -Research and Analytical Services Department, Aramco

Tackling the Dual Challenge with Embedded Al

Speaker

Nooh Isa Mualem

Principal Solution Consultant, AspenTech

Trays in Amine Sweetening Contactor- Process Excellence in Debottlenecking with the Right Approach

Speaker

Michael Lam Systems Performance Engineer, SLB Low Carbon Ammonia Technology optimization – moving projects forward to achieve Net Zero targets

Speaker

Tim Ballai Product Manager, Honeywell UOP

Use of Spiral Tube Heat Exchangers in Hydroprocessing Units

Speaker

Jan Reneteau Managing Director, NECTIS

Forced Periodic Feed-Composition Switching to Address Methane Dehydroaromatization Catalyst Deactivation Challenge

Speaker

Mamoun Al-Rawashdeh

Assistant Professor, Texas A&M University at Qatar

Techno-Economic Assessment of Crude Oil/Water Emulsion Separation Efficiency

Speaker

Mashhor Aljabrine Senior Engineer, Aramco

The Deployment of New Technologies and Initiatives in Samref's SRU

Speaker

Khalid Ghazal Technical Process Engineering (Sulfur & Amine Specialist), Saudi Aramco Mobil Refinery Company Ltd. (SAMREF)

Enrich Your Sulfur Plant Two Case Studies with High Level Oxygen Enrichment Implemented in Sulfur Recovery Unit Revamps

Speaker

Abdulaziz Alkhalid

Process Specialty Engineer, Fluor Corporation SRU Incinerator Fuel Gas Intelligence Optimizer

Speaker

Mohammed Aldossary

Process Engineer, Aramco

Harnessing Machine Learning for Precise Prediction of Fuel Gas Consumption

Speaker

Abdulmohsen Alnafea

Associate Engineer, Aramco

A Data-Driven Framework for Monitoring the Operation of Chemical Plants: Application to Monitor a Bench-Scale Fischer Tropsch Process

Speaker

Nour Basha PhD

Graduate, Texas A & M University

15:00 - 16:00

Closing Ceremony

P Hall 1

Master of Ceremony

Weam Al Dakheel Journalist and TV Presenter, Saudi Arabia

Produced 06 May 2024

Thank you for your Support

Exclusive Host Sponsor































































Standards Partner







Global Energy Media Partner



















Official Regional Publication





Media Partners





































