





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

P Hall 1

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

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

15:30 - 16:30 **Technical Session III**

Speaker

Alaa Albasry Associate Engineer, Aramco

Session Room A, Hall 2	Transition II ▼ Session Room B, Hall 2	Session Room C, Hall 2	Session Room D, Hall 2
Moderator Dr. S M Zakir Hossain Associate Professor, Department Of Chemical Engr., University	Moderators Tim McMinn Vice President Process Engineering & Products, ExxonMobil Technology	Moderator Fawaz Sahan Senior Engineering Consultant, IIoT Leader and Chairman of Instrumentation	Moderator Dr. Steve Hall, Independent Industry Consultant
of Bahrain Chevron Lummus Global's Hydroprocessing Success at Jazan Refinery Speaker	and Engineering Company (EMTEC) Dr. Debalina Sengupta Program Director, Coastal Resilience, Texas Sea Grant, Texas A & M University	Industrial Internet of Things Architecture Standardization (Benefits, Challenges & Remediations)	Enhancing Ethylene Steam Cracker Equipment Design through AI: Addressing Thermal Stresses and Predicting Remaining Useful Life in Cold Boxes
Suresh Kumar Nellore Process Design Engineer, Chevron Lummus Global (CLG)	Blue Hydrogen and Ammonia: Large Scale with Ultra Low Carbon Intensity	Speakers Dr. Mohammed A Alsaeed Engineering Consultant, Aramco	Speakers Saravana Bhavan Baskaran Engineering Specialist, Aramco Prashant Kumar Senior
An Optimal Crude Oil Selection in a Refinery with Lube Hydroprocessing Capacity	Speaker Jesper Poulsen Licensing Manager, Topsoe	Omar Alabdulwahed Sr. Industrial Computer Engineer, Aramco	Business System Analyst, Aramco Joud Al Jalaoud Data Scientist, Aramco
Speaker Lujayn Alsayoof Economic Optimization Specialist, Bapco Refining	Performance Evaluation of Membrane Reactor for Low Carbon H2 Production Speaker Rakesh Kumar Lead	Physics-Informed Automated Discovery of Kinetic Rate Models Speaker Miguel Ángel de	AI Based Multi-Unit Real Time Optimizer (First Refinery in the Middle East)
Enhancing Safety and Emergency Response in Industrial Processes:	Engineer, Research & Analytical Service Department, Aramco	Carvalho Servia PhD Candidate, Imperial College London	Othman Shamrani Automation & Control Sys. Unit Yanbu Refinery
Implementation of HF Alky Critical Operating Parameter (COP) for Hazard Mitigation.	Carbon Dioxide Transport with Impurities: Optimal Design and Operation of Pipelines	Innovative Process Analyzer Technology for Measuring Gas Composition	Department, Aramco Raad Bassam Mulla DT & Energy Teams Leader - Yanbu Refinery Department, Aramco
Almuhannad Basuni Advanced Process Control Engineer, Saudi Aramco Mobil Refinery Company Ltd. (SAMREF)	Speaker Ahmed Alhajaj Assistant Professor, Khalifa University	Speaker Ali Aldossary Engineering Specialist, 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**

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

• Emerald Hall

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

P 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, Dept. of Chemical Engineering, King Fahd University of	Moderator Saifuddin Sheikh Sr. Director – Solution Consulting, AspenTech	Moderator Dr. S M Zakir Hossain Associate Professor, Department Of Chemical Engr., University
Discover Your Plant Potentials Speaker Mohamed Abouzid Process Engineer, TASNEE Integrating Safety, Operation, Maintenance and Environmental (S.O.M.E) Aspects during Detail Engineering Phase	Forecasting throug Analytics and Mack Learning – a Case Promising Pathway for Sustainable Aviation Fuel Digitalization & Optimization Engine Market Development Director - ME Region - Sustainable Technology Solutions, Honeywell UOP Forecasting throug Analytics and Mack Learning – a Case Digitalization Fuel Speakers Omar Naeem Lead Digitalization & Optimization Engine Aramco Muhammad Abba Engineering Special Aramco	Omar Naeem Lead Digitalization & Optimization Engineer, Aramco Muhammad Abbas Engineering Specialist,	Techno-Economic- Environmental Analysis of Hydrogen Production and Transportation Network in Saudi Arabia Speaker Fatimah Alhassan Student, King Fahd University of Petroleum & Minerals (KFUPM)
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	Saudi Aramco's Process Digital Twins: Advances & Implementation Strategy	Challenges and Opportunities for Integration of Mixed Plastic Waste and Plastic Derived Oil into Refineries,
Benefits of Switching from Conventional High Temperature to Low Temperature Catalyst in the Tail Gas Treating Unit Speaker Khalid Nadhem Senior Process Engineer, Bapco Refining Chemicals Speaker Ariel Gursi Candidate, University of Minerals (K		Abdullah Alghazal Process Optimization Engineer, Aramco Refinery Wide Process Simulation Digital Twin (PSDT) Speaker Majed Aldalbahi Digital Transformation Lead, Aramco	Crackers and Plastic Sinks Speakers Rasha Daadoush Co- Lead - Aramco Sabic Circular Solutions Technology Integration Team, Aramco Salahdine EL Idrissi Group Leader, Aramco
	Flexible Hydrogen Production: From Design to Operation Speaker Taseer Seer Senior Applications Engineer,		Methane Pyrolysis Integration for Low Carbon Ammonia and Urea Production Speaker Muhamad Reda Galih Pangestu Master's Degree Student, King Fahd University of Petroleum & Minerals (KFUPM)

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

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

15:30 - 16:30 Technical Session VI

	Session Room B, Hall 2		
Moderator Claudia Janse van Rensburg Regional Marketing Manager, FCC, EMEA, W.R. Grace & Co	Moderator Dr. Gopal Juttu Engineering Consultant, P&CSD, Aramco	Moderator Dr. Rohit Patwardhan Sr. Engineering Consultant, P&CSD, Aramco	Moderator Faisal Ahmad Raza Technical Expert - Process, SLB Saudi Arabia
System Reliability and Sustainability Improvement in DSG at Ethylene Plant Speaker Mohammad Imran Khan Senior Production	Evaluating the Risks and Framework for Hydrogen Fuel Road Transportation in Bahrain Speaker Bassam Alhamad Assistant Professor,	Real Time Economic Performance System Speakers Shashikant Ramsangar Solution Architect, Aramco Parandhama Gudapati Lead Business System	Aramco Way of Managing Advanced Process Control Portfolio Speaker Ali Altayeb APC Engineer, Aramco
Engineer - Ethylene Cracker, Saudi Chevron Phillips (S-Chem)	University of Bahrain Transition to Lower Carbon Fuels	Analyst, Aramco Forecasting Process Faults Using Machine Learning in	Troubleshooting Vertical Reboiler Performance in a Stabilizer Plant By Leveraging Digital Aspen HYSYS Simulation Speaker Majed A. Al-Jeshi Process Engineer, Aramco
Jazan Refinery Complex - Pathway to Environmental Sustainability	Speakers Romain Roux Decarbonization and Consulting Vice President, Axens	a Reactive Absorption Case Study Speaker Yasser Al-Goufily Scientist, SABIC	
Nidal A Samad Operations Engineer Specialist, Aramco Fix Combustion Control	Joseph Ibrahim Managing Director, Axens Carbon Emissions		Optimization of ULSD Vacuum Drying and Thus Reducing Equipment Counts/Sizes; Saving
Malfunction Speaker Emad Fallatah Staff	Management and Decision Support Made Easy By Digital Solution		Steam Consumption and Energy Resulting Reducing Carbon Foot Print
Engineer, Advanced Process Control, SABIC ARRAZI Speaker Saifuddin Sheikh Sr. Director – Solution Consulting, AspenTech		Rajib Talukder Lead Engineer, Aramco Prabhas Mandal Operations Engineer Specialist, Aramco	

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

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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

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 & CEO, 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

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 Assistant Professor and PCAP Program	Moderator Dr. Ranjit Kulkarni Global Director – Business Development, Honeywell	Moderator Shakeel Kadri Executive Director & CEO, CCPS	Moderator Dr. Anas F. Alkhani Engineering Specialist, New Energies Engineering
Coordinator, University of Bahrain	UOP	Novel Approach for	Division, Aramco
Design and Operation of Various Gas-Liquid Distributors for Trickle Bed Reactors	Using Low Carbon Hydrogen for Olefins Decarbonization: Operational and Economic Considerations	Increasing Gas Production and Enhancing Controllability for Upstream Degassing Tanks Toward Process Excellence	Photocatalytic Hydrogen Generation from Seawater Using High Performance Polymeric Materials
Speaker Pradyut Kumar Dhar Senior Engineer - Research and Analytical Services Department,	Speaker Ibrahim Sedie Olefins Process Engineer, SABIC	Hussain Abualsaud Process Engineer, Aramco Mohammed Alwani Engineer, Aramco	Speakers Ghalya Alabdulla Chemical Engineer, Texas A&M University at Qatar Noora Alsubaiei Graduate, Texas A&M
Aramco	Process Results and Operational Experience	Plant Optimization –	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	Begins with Right Concept and Effective Detailed Design Speaker Speaker Saravanavel Muthiah Ponnusamy Process Engineering Manager, SLB Potential of Lcaf A Complementary To Decarbonizing the Industry Speaker Speaker Dr. Nasiru M. Tuk	Speaker Dr. Nasiru M. Tukur Engineering Consultant,
	TC2C™ - More Carbon-		P&CSD, Aramco
	Effective Conversion of Crude Oil into Chemicals Speakers Derek Jones Principal Technology Specialist, Lummus Technology Mazin Tamimi Lab Scientist, Aramco		Accelerating Scale up of the Hydrogen Economy with Systems-Level Strategic Evaluation Speaker Faisal Baksh Principal 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 Global Director – Business Development, Honeywell UOP	Moderator Dr. Mohamed Bin Shams Chair and Associate Professor, Department of Chemical Engineering,	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 ΑI

Speaker

Nooh Isa Mualem

Principal Solution Consultant, AspenTech

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

Speaker

Michael Lam Concept Solutions Engineer, SLB Low Carbon Ammonia Technology optimization moving projects forward to achieve Net Zero targets

Speaker

Tim Ballai Senior Offering Manager, Honeywell H2 & CO2 Solutions , 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

University of Bahrain

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 Student, Texas A & M University

15:00 - 16:00 **Closing Ceremony**



Master of Ceremony

Weam Al Dakheel Journalist and TV Presenter, Saudi Arabia

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