

Roundtable Session-2

Room: Grand Hall
Time: 10:00-11:00

Moderated by

Waleed Snober

Affiliation or Company

Grandperspective,
Carbon Clean,
carbon capture

Title

Driving Decarbonization: Innovative GHG
management solutions

Session-9

Sustainability Solutions (I)

Chair: Aaron Akah

Co-chair: Ghadeer AlHarb

Room: 1

Time: 10:20-10:40

Abstract
72516

Name
Yuguo Wang

Affiliation or Company
NA

Title
Conversion of H₂S into Hydrogen and
Non-Sulfur Valuable Chemical

Time: 10:40-11:00

Abstract
72494

Name
Aaron Akah

Affiliation or Company
Saudi Aramco

Title
Sustainable Reactive Adsorption Approach for
Decontamination of Plastic Derived Oil

Time: 11:00-11:20

Abstract
73992

Name
Dennis Ranjit

Affiliation or Company
NOV

Title
Advanced Vessel reconfiguration to
debottleneck produced water treatment

Time: 11:20-11:40

Abstract
72968

Name
**Francisco Daniel
Nieves Bogonez**

Affiliation or Company
Saudi Aramco

Title
Non-metallic materials: supporting the
decarbonization of the automotive sector

Time: 11:40-12:00

Abstract
73016

Name
Hassan Alqahtani

Affiliation or Company
Saudi Aramco

Title
Green Hydrogen Production From Upstream
Oil and Gas Wastewaters

Session-10
Sustainability Solutions (2)

Chair: David Watson
Co-chair: Georgios Lithoxoos

Room: 2
Time: 10:20-10:40

Abstract	Name	Affiliation or Company	Title
72478	Yasser Alqahtani	Saudi Aramco	Effects of Fuels Properties on Combustion and Emissions Characteristics of Light Duty GCI

Time: 10:40-11:00

Abstract	Name	Affiliation or Company	Title
79735	Reza Ebadi	Johnson Matthey	Colourful journey towards sustainable methanol

Time: 11:00-11:20

Abstract	Name	Affiliation or Company	Title
72508	Georgios Lithoxoos	Saudi Aramco	Adsorbent Based Tail Gas Treatment and Carbon Capture

Time: 11:20-11:40

Abstract	Name	Affiliation or Company	Title
74069	Hassnain Abbas Khan	KAUST	Desulfurization using UV Light: A novel Approach for Complete H ₂ S Removal and Hydrogen Recovery

Time: 11:40-12:00

Abstract	Name	Affiliation or Company	Title
73150	Xingyu Xue	Saudi Aramco	Rethinking Vehicle Electrification Strategy for Transport Decarbonization in Resource-Constrained World.

Session-11 Future of Refining & Chemicals

Chair: Dr. Ravichander Narayanaswamy
Co-chair: Dr. Md Ashraf Islam

Room: 3
Time: 10:20-10:40

Abstract	Name	Affiliation or Company	Title
73570	Uday Kiran Erraguntla	SABIC	Steam Cracker and PDH Integration - Key Insights for a Better Investment Decision

Session-11 Future of Refining & Chemicals

Chair: Dr. Ravichander Narayanaswamy
Co-chair: Dr. Md Ashrafal Islam

Room: 3

Time: 10:40-11:00

Abstract	Name	Affiliation or Company	Title
74278	Ravichander Narayanaswamy	SABIC	Advanced Recycling of Waste Plastics for Refinery and Steam Cracker Integration

Time: 11:00-11:20

Abstract	Name	Affiliation or Company	Title
73702	Varaha P Sarvothaman	KAUST	Ultrasonically Induce Cavitation for Oxidative desulphurization of Healy Oil: Results From Pilot-Scale Testing in a Test site From Western Saudi Arabia

Time: 11:20-11:40

Abstract	Name	Affiliation or Company	Title
73676	Balamurali Nair	SABIC	Novel Annular Jet Reactor for Direct Conversion of Crude and Complex Hydrocarbon Liquid to Olefins and Aromatics with Pathway to Carbon Neutrality

Time: 11:40-12:00

Abstract	Name	Affiliation or Company	Title
73190	Mengmeng Cui	KAUST	New Opportunities by a Counter-Current Downer for Hydrocarbon Chemicals

Session-12 Materials Discovery for Sustainability Applications (1)

Chair: Dr. Matteo Leoni
Co-chair: Dr. Wala Algozeeb

Room: 4

Time: 10:20-10:40

Abstract	Name	Affiliation or Company	Title
71733	Doh Chang Lee	KAUST	Efficient Selective Production of Solar Fuels and Value-Added Chemicals on Colloidal CdS Nanosheets-Based Photocatalysts

Time: 10:40-11:00

Abstract	Name	Affiliation or Company	Title
71750	Rola Kuban	KFUPM	SWIR Persistent Luminescence Excited by General Lighting Source in SrAl ₂ O ₄ :Eu ²⁺ ,Nd ³⁺

**Session-12 Materials Discovery
for Sustainability Applications (1)**

Chair: Dr. Matteo Leoni

Co-chair: Dr. Wala Algozeeb

Room: 4

Time: 11:00-11:20

Abstract	Name	Affiliation or Company	Title
73425	Ali Alkhater	Saudi Aramco	Materials Development for CO2 Capture

Time: 11:20-11:20

Abstract	Name	Affiliation or Company	Title
73458	Bader Alarbeed	KISR	Extracting Asphaltene from Crude Oil Using n-Heptane, n-Pentane, and CO2 Injection Methods

Time: 11:40-12:00

Abstract	Name	Affiliation or Company	Title
73619	Sarah Asiri	Imam Abdulrahman bin Faisal University	Improving Performance, Stability and Flexibility of Rechargeable Solid Zinc Ion Batteries for Energy Storage Application

**Session-13 Innovative
Oilfields Chemicals**

Chair: Mohamed Mahmoud

Co-chair: Rasim Serdar Rodoplu

Room: 5

Time: 10:20-10:40

Abstract	Name	Affiliation or Company	Title
73855	Rodny Benjamin Masoud Zuleta	Saudi Aramco	An Innovative Fluid Migration Cement slurry for Shallow and Deep Zones

Time: 10:40-11:00

Abstract	Name	Affiliation or Company	Title
73743	Anibal Flores	Halliburton	Mitigating Loss Circulation Challenges in Drilling and Cementing Operations: A Tailored Spacer Approach

Time: 11:00-11:20

Abstract	Name	Affiliation or Company	Title
73584	Aljazi Alajmi	Saudi Aramco	Comprehensive Lab Study of Organophilic lignite in Limitations in Oil-Based Drilling Fluids

Session-13 Innovative Oilfields Chemicals

Chair: Mohamed Mahmoud

Co-chair: Rasim Serdar Rodoplu

Room: 5

Time: 11:20-11:40

Abstract	Name	Affiliation or Company	Title
73656	Lucio Bussaglia	Newpark Drilling Fluids	Second-Generation Flat-Rheology Invert Emulsion Drilling Fluid Key to Successful Well Construction

Time: 11:40-12:00

Abstract	Name	Affiliation or Company	Title
73251	Basil Alfakher	Saudi Aramco	Dual-Phase Fluid Solution for Extreme Delayed Filtercake Removal

Session-14 Digitalization in Oil & Gas

Chair: Jihad Badra (R&DC, Aramco)

Co-chair: Balaji Mohan (R&DC, Aramco)

Room: 6

Time: 10:20-10:40

Abstract	Name	Affiliation or Company	Title
73375	Salem AlShammari	Saudi Aramco	A Digital Tool For Thermodynamics Modeling: Applications in Fluids Compatibility and Wellbore Depth-Wise Diagnosis of Mineral Precipitation

Time: 10:40-11:00

Abstract	Name	Affiliation or Company	Title
71436	Abdul Gani Abdul Jameel	KFUPM	Enhancing Operational Efficiency and Reducing Carbon Footprint Through Artificial Intelligence Modeling for Oil Field Cements Slurry Design

Time: 11:00-11:20

Abstract	Name	Affiliation or Company	Title
74219	Amitabha Sinha Joe Alphonse	Lummus Digital	Hybrid Model Integration for Optimizing Ethylene Heaters: Enhancing Efficiency and Sustainability

Time: 11:20-11:40

Abstract	Name	Affiliation or Company	Title
72440	Maryam Alramadhan	Saudi Aramco	Modelling Downhole Corrosion

**Session-14 Digitalization
in Oil & Gas**

Chair: Jihad Badra (R&DC, Aramco)
Co-chair: Balaji Mohan (R&DC, Aramco)

Room: 6
Time: 11:40-12:00

Abstract	Name	Affiliation or Company	Title
73818	Viraj Gore Rajesh Sivadasan	Lummus Digital	Innovative Strategies To Improve Product Stripper Reliability with Maintaining Dew Point Margin

**Session-15 Flow
Assurance Solutions**

Chair: Jihad Badra (R&DC, Aramco)
Co-chair: Balaji Mohan (R&DC, Aramco)

Room: 7
Time: 10:20-10:40

Abstract	Name	Affiliation or Company	Title
74442	Bahman Tohidi	Hydract, UK	Efficient Techniques for Evaluation and Optimal Design of Kinetic Hydrate Inhibitors (KHIs)

Time: 10:40-11:00

Abstract	Name	Affiliation or Company	Title
73905	Alfred Hase	ChampionX, UK	Sustainability Benefits of Switching from Thermodynamic Hydrate Inhibitors to Anti-Agglomerant Low Dosage Hydrate Inhibitors

Time: 11:00-11:20

Abstract	Name	Affiliation or Company	Title
73813	Eric Bruner	Aculon, USA	Nanoscale Coatings for Oil Repellency and Antifouling in the Oil and Gas Industry: Innovations and Applications

Time: 11:20-11:40

Abstract	Name	Affiliation or Company	Title
73923	Rahul Gajbhiye	KFUPM	Innovative Multiphase Flow Loop for Gas Hydrates and Flow Assurance Studies

Time: 11:40-12:00

Abstract	Name	Affiliation or Company	Title
71699	Mram Alyami	Saudi Aramco	New Class of High-Performance Kinetic Hydrate Inhibitors for Challenging Sour Gas Environments

**Session-16 Materials Discovery
for Sustainability Applications (2)**

Chair: Dr. Remi Mahfouz
Co-chair: Dr. Aziz Fihri

Room: Grand Hall
Time: 11:00-11:20

<i>Abstract</i>	<i>Name</i>	<i>Affiliation or Company</i>	<i>Title</i>
85892	David Arthur	Chasm Advanced Materials	Large scale production of Carbon Nanotubes and Hydrogen from low-cost Hydro -Carbons

Time: 11:20-11:40

<i>Abstract</i>	<i>Name</i>	<i>Affiliation or Company</i>	<i>Title</i>
73600	Donya Alsewdan	University of Manchester	Polymer waste to high value chemicals using 3D printed zeolite catalysts

Time: 11:40-12:00

<i>Abstract</i>	<i>Name</i>	<i>Affiliation or Company</i>	<i>Title</i>
73826	Hari Harikumar	Chasm Advanced Materials	A Commercially Scalable Method for Integrating Carbon Nanotubes in Cement to enable Green Concrete