

**Roundtable
Session-3**

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

Moderated by
Dmitry Govorov

Affiliation or Company
**Ferolabs, redex,
xpansive**

Title
**Digital Green: Leveraging Technology for a
Sustainable, Low-Emission Future**

**Session-25 Sustainability
Solutions (1)**

Chair: Alexandra Scerbova
Co-chair: Ghadeer Alharbi

Room: 1
Time: 10:20-10:40

Abstract
86481

Name
Mark Danks

Affiliation or Company
Johnson Matthey

Title
**Accessing low carbon molecules through JM's
LCH technology**

Time: 10:40-11:00

Abstract
74128

Name
Maha Alsayegh

Affiliation or Company
Saudi Aramco

Title
**Functionalized Polyolefines for Efficient
Integration of Ground Tire Rubber and
Superior Bitumen Properties**

Time: 11:00-11:20

Abstract
73207

Name
**Mohammed
Almoaibed**

Affiliation or Company
Saudi Aramco

Title
**Sustainable Hydrogen Logistics: Optimizing
Liquid Organic Hydrogen Carriers**

Room: 1
Time: 11:20-11:40

Abstract
73685

Moderated by
Rajkumar Jaiswal

Affiliation or Company
**Lummus
Technology**

Title
**EtE EverGreen™, a Proven Route to Low
Carbon Intensity Ethylene**

Time: 11:40-12:00

Abstract
73024

Name
Tae-Hyun Bae

Affiliation or Company
KAIST

Title
**Direct CO₂ Mineralization Using Seawater
Reverse Osmosis Brine Facilitated by Hollow
Fiber Membrane**

Session-26 Sustainability Solutions (2)

Chair: Dr. Abdullah Dehwah
Co-chair: Daniel McQueen

Room: 2

Time: 10:20-10:40

Abstract
74266

Name
Dr. Abdullah Dehwah

Affiliation or Company
Air products

Title
Use of Natural treatment to improve raw water quality at SWRO desalination

Time: 10:40-11:00

Abstract
73258

Name
Issam Gereige

Affiliation or Company
Saudi Aramco

Title
Advancing Innovations in Electricity-free Passive Cooling Technology

Time: 11:00-11:20

Abstract
73456

Name
Kalpeshkumar Baria

Affiliation or Company
SABIC

Title
SABIC Sustainability and Carbon Neutrality Certification, A Way Forward to Embed Sustainability in SABIC Culture

Time: 11:20-11:40

Abstract
73184

Name
Jaap Bergwerff

Affiliation or Company
Ketjen

Title
ReNewFine: Advancing Hydroprocessing for Sustainable Fuel and Chemicals Production

Room: 2

Time: 11:40-12:00

Abstract
72597

Moderated by
George Yaluris

Affiliation or Company
Ketjen

Title
Renewing the FCC Unit Value in the Era of the Energy Transition

Session-27 Future of
Refining & Chemicals

Chair: Dr. Mohammed Al-Dossary
Co-chair: Dr. Zuhair Malaibari

Room: 3

Time: 10:20-10:40

Abstract
73618

Name
Malleswara Rao
V Tadiboyina

Affiliation or Company
SABIC

Title
Improving Circulating Fluidized Bed Isobutane
Dehydrogenation Unit Performance

Time: 10:40-11:00

Abstract
86482

Name
Mike Bainbridge

Affiliation or Company
Johnson Matthey

Title
Scaling Sustainable Aviation Fuel to
decarbonise aviation.

Time: 11:00-11:20

Abstract
73023

Name
Edgar Jordan

Affiliation or Company
hte GmbH

Title
Flexible downscaling of MAPD removal from
C3/C4 Olefin streams by selective
hydrogenation on precious metal catalysts

Time: 11:20-11:40

Abstract
74273

Name
Alexis Pailier

Affiliation or Company
Axens

Title
Crude to Chemicals Complex: Innovative
Pathways with Catalyst Cracking technology
towards maximum Olefins production

Time: 11:40-12:00

Abstract
73240

Name
SK Safdar
Hossain

Affiliation or Company
King Faisal
University

Title
Biomass-derived Electrode Materials
Development for Supercapacitors

**Session-28 Materials Discovery
for Sustainability Applications (1)**

Chair: Dr. Turki Baroud
Co-chair: Dr. Abduljabar Al-Sayoud

Room: 4

Time: 10:20-10:40

Abstract
81094

Moderated by
**Alessandro
Turrina**

Affiliation or Company
Johnson Matthey

Title
**Rational design of new zeolite materials their
characterization and stabilization**

Time: 10:40-11:00

Abstract
72990

Name
Aamer Bhutta

Affiliation or Company
Saudi Aramco

Title
**Effects of Local Volcanic Ash and Desert Sand
on Performance of Engineered Cementous C
Composites**

Time: 11:00-11:20

Abstract
73034

Name
Remi Mahfouz

Affiliation or Company
Saudi Aramco

Title
**Development of Hydrophobic Coating and
Spraying System For Corrosion Resistant
Coatings**

Time: 11:20-11:40

Abstract
74134

Name
**Damian Pablo
San Roman Alerigi**

Affiliation or Company
Saudi Aramco

Title
**Machine Learning, Spectrograms, and
Contactless Characterization of Subsurface
Matter**

Time: 11:40-12:00

Abstract
72569

Name
**Md Ashraful
Islam**

Affiliation or Company
Saudi Aramco

Title
**Future of Refinery: Methanol Co-feeding in
Existing FCC**

**Session-29 Innovative
Oilfield Chemicals**

Chair: Rajendra Kalgaonkar
Co-chair: Mohamed Zeghouani

Room: 5

Time: 10:20-10:40

Abstract
72683

Name
**Guillaume
Raynel**

Affiliation or Company
Saudi Aramco

Title
**Novel Demulsifying Formulation for
Dewatering Highly Stable Emulsion**

**Session-29 Innovative
Oilfield Chemicals**

Chair: Rajendra Kalgaonkar
Co-chair: Mohamed Zeghouani

Room: 5

Time: 10:40-11:00

Abstract
73763

Moderated by
Sarah Alabbad

Affiliation or Company
Saudi Aramco

Title
Electric Potential Analysis of Amphoteric and Anionic Surfactants in Both Acidic and Basic High Salinity Carbonate Reservoirs.

Time: 11:00-11:20

Abstract
73766

Name
**Abdulrahman
Alkaf**

Affiliation or Company
Saudi Aramco

Title
Newly Developed Delayed Acid Stimulation Treatment to Achieve Deeper Penetration into Carbonate Formations

Time: 11:20-11:40

Abstract
74441

Name
Ahmed Ibrahim

Affiliation or Company
KFUPM

Title
Improving CO₂ Mobility in Crude Oil Using Ionic Liquids for EOR and CO₂ Sequestration Applications

Time: 11:40-12:00

Abstract
74347

Name
**Mohammed
Alsakkaf**

Affiliation or Company
KFUPM

Title
Nature of Zn(II)-Carboxylic Acid Interaction at Water-Oil Interfaces Using IFT and VSFG

**Session -30 Digitalization
in Oil & Gas**

Chair: Fatema Saleh (RASD, Aramco)
Co-chair: Jihad Badra (R&DC, Aramco)

Room: 6

Time: 10:20-10:40

Abstract
72411

Name
**Yousef
Damanhour**

Affiliation or Company
Saudi Aramco

Title
Digitalizing Tank Calibration to Enhance Safety and Accuracy

Time: 10:40-11:00

Abstract
73215

Name
**Ramasamy
Srinivasaga Naidu**

Affiliation or Company
King Faisal U.

Title
Industry 4.0-Enhanced AI Framework for Real-Time Emission Footprint Tracking

**Session -30 Digitalization
in Oil & Gas**

Chair: Fatema Saleh (RASD, Aramco)
Co-chair: Jihad Badra (R&DC, Aramco)

Room: 6

Time: 11:00-11:20

<i>Abstract</i>	<i>Moderated by</i>	<i>Affiliation or Company</i>	<i>Title</i>
73958	Majid Alotaibi	SABIC	Modelling GHG intensity for Low-Carbon Hydrogen in Saudi Arabia

Time: 11:20-11:40

<i>Abstract</i>	<i>Name</i>	<i>Affiliation or Company</i>	<i>Title</i>
72517	Fadl Abdellatif	Saudi Aramco	FalconScan: Hybrid NDT Drone for Elevated Pipes

Time: 11:40-12:00

<i>Abstract</i>	<i>Name</i>	<i>Affiliation or Company</i>	<i>Title</i>
73820	Amitabha Sinha & Rajesh Sivadasan	Lummus Digital	Hybrid Modelling Approach to Improve Hydrocracker Reactor Performance

**Session-31 Flow
Assurance Solutions**

Chair: Dr. Abdulrahman Ajina
Co-chair: Dr Hicham Al-Hajj (Halliburton)

Room: 7

Time: 10:20-10:40

<i>Abstract</i>	<i>Name</i>	<i>Affiliation or Company</i>	<i>Title</i>
74521	Moin Muhammad	NESR	Customized Turpentine and Citrus Oil Formulation to Remove Challenging Organic Deposition

Time: 10:40-11:00

<i>Abstract</i>	<i>Name</i>	<i>Affiliation or Company</i>	<i>Title</i>
74482	Andrey Kravchenko	Iris Tech, USA	First Case Study for Dry Form Drag Reducing Agent Performance in GCC Region

Time: 11:00-11:20

<i>Abstract</i>	<i>Name</i>	<i>Affiliation or Company</i>	<i>Title</i>
73817	Heonyeong Song	Unicoh Specialty Chemicals, Korea	A Case Study of Drag Reducing Agents in Crude Oil Pipeline

Session-31 Flow
Assurance Solutions

Chair: Dr. Abdulrahman Ajina
Co-chair: Dr Hicham Al-Hajj (Halliburton)

Room: 7

Time: 11:20-11:40

Abstract
73982

Moderated by
**Abdulaziz
Alghamdi**

Affiliation or Company
Saudi Aramco

Title
**The Utilization of Drag Reducing Agents
(DRA) to Overcome High Downstream
Pressures in Oil Fields**

Time: 11:40-12:00

Abstract
73139

Name
Xiangyang Zhu

Affiliation or Company
Saudi Aramco

Title
**Online Monitoring of Glutaraldehyde- and
THPS-based Biocides in Large Seawater
Injection System**