

Conference Inauguration and Keynote Speakers

09:00 AM - 10:00 AM

1) Eng. Abdullah S. Al-Suwailem

Senior Vice President of Western Region
Manufacturing Aramco

2) Eng. Saad Binmatlig

P&CEO Yanbu Aramco Sinopec Refining
Company Ltd. (YASREF)

3) HE Prof. Ahmed Al-Rawahi

Chancellor University of Nizwa, Oman

4) Dr. Yousif M. Al-Shammari

President London College of Energy Economics

Room 1

10:00 AM - 11:00 AM

Exhibition Inauguration

Keynote Speakers

11:00 AM - 12:40 PM

Session Chair

Prof. Ali Bumajdad

1) Prof. Ghassan Saed

Director of Translational Research
Wayne State University School of
Medicine

2) Dr. Abdulhameed Al-Hashem

Principle Research Scientist, Petroleum
Research Center (PRC)
Kuwait Institute for Scientific Research,
Kuwait

3) Eng. Saleh AlAmri

Chief Executive Officer
GCC-Lab

Room 1

12:40 PM - 01:30 PM

Lunch and Prayer Break

SESSION 1
01:30 PM - 03:30 PM

Session Chairs

Mrs. Fatimah Al Marzooq
Ms. Lamya Alshehri

Women Empowerment Program

1) Dr. Noha Al-Harathi

AI & Emerging Technologies Expert

2) Dr. Reem Al Turki

C.E.O. of Soft-Landing C.E.O. and
Co-Founder of Green Hub

3) Reem Abdullah Al-Ghanim

Downstream HR Transformation Aramco

4) Prof. Hind Al Humaidan

Department of Pathology &
Laboratory Medicine
King Abdullah bin Abdulaziz
University Hospital

5) Dr. Reem Khojah

Assistant Professor University of
California, San Diego

6) Dr. Samha Z. Al-Ayoubi

Assistant Professor,
Energy, Water and Environment Lab,
Prince Sultan University

Room 1

New Development in Analatical Technology

1) Mr. Abdulaziz Al Harbi

Failure analysis of leak in outlet manifold of hp
steam super heater

2) Dr. Fehaid Alsubaie

Precise Synthesis of Tetrablock Copolymers of
Different Acrylamide Derivatives via RDRP

3) Mr. Mohammad Hassani

An Efficient and Fast Method to Determine the
Critical Micelle Concentration of Surfactants Using
Space-Time Resolved Extinction Profiles
Technology

4) Mr. Mohd A. Bin Ab Aziz

Challenges in Multivariate Modeling of Oxygenate
addition in diverse Base Fuel recipes

Room 2

AI Utilization and Laboratory Information

1) Dr. Francisco Hernandez Martinez

Unconfined Compression Strength Prediction of
Rock Based on AI

2) Engr. Sulaiman Ureiga

Computer Vision and AI-powered PPE Compliance
in Laboratory Environments

3) Mr. Sorab Jain

Automated validation and real-time monitoring of
process analyzer data

4) Engr. Mohammad Alharthi

Revolutionizing Cementing Program Verification: An
AI-Powered Solution for Enhanced Lab Efficiency
and Well Integrity

Room 3

Session Chairs

Dr. Hind Siddiq
Dr. Marwah Madkhali

01:30 PM - 03:00 PM

Chemathon 2nd Round (6 Presentation)

Room 4

SESSION 2
03:30 PM - 04:50 PM

Session Chairs

Dr. Prakash Nayak
Dr. Wasan A.M Al Taie

Hydrocarbon and Materials Science

1) Engr. Ahmed Al-Otaibi

Optimizing ULSD Production: The Critical Role of Distillation End-Cut Temperature in Hydrodesulfurization Efficiency, Contamination and environment impact

2) Dr. Hina Rashed

Fuel vs. Food: are we being pushed to 3D-Printed Foods

3) Prof. Mohammed Aljahdali

Microplastics and Nanoplastics: Occurrence, Ecotoxicological Impact, Detection, and Cellular Genotoxicity

3) Sasref

Impact of Sampling on Electrical Conductivity of Static Dissipator Additives

Room 1

SESSION 2
(Continued)
03:30 PM - 04:50 PM

Session Chairs

Dr. Hassan S. Alqahtani
Dr. Shakeel Ahmed

Hydrocarbon and Nano-Material Science

1) Mr. Dipen Kalavadia

Effect of Hydrogen Sulfide on Crude oil API Gravity

2) Prof. Muna Khushaim

Nanoscale mapping of the elastic properties of Al-Li-Cu alloys

3) Engr. Mohammed Alyousef

Produced-Water-Driven CO₂ Mineralization for Sustainable Reinjection Operations

4) Dr. Shaqraa Musawi

Molecular epidemiology and clinical patterns of Epstein-Barr virus infection in Southwestern Saudi Arabia: a 2020-2023 retrospective study

Room 2

03:30 PM - 04:30 PM

Chemathon 2nd Round (4 Presentations)

Room 4

End of Day 1

<p>08:00 AM - 09:20 AM</p> <p>Session Chair Dr. Prashant Umare</p>	<p>Keynote Speakers</p> <div> <div> 1) Prof. Khalid K. Al Harbi Consultant in Medical Molecular Genetics, Chairman of Saudi Society for Clinical Laboratory Sciences </div> <div> 2) Dr. Khalid Al Noaimi Manager of Upstream R&D Technology Strategy Aramco </div> <div> 3) Prof. Najlaa S. Al-Radadi Faculty of Science, Department of Chemistry Taibah University </div> </div> <div> <div> 4) Prof. Salwa I. Hindawi Professor of Haematology & Transfusion Medicine King Abdulaziz University, Jeddah, Saudi Arabia </div> <div> 5) Dr. Ian W. Campbell Vice President National Transformation Institute (NTI), KAUST </div> </div>	<p>Room 1</p>
<p>09:20 AM - 09:30 AM</p>	<p>Coffee Break</p>	
<p>SESSION 3 09:30 AM - 10:50 AM</p> <p>Session Chairs Dr. Nujud Maslamani Dr. Taha Okasha</p>	<p>Advanced Characterization</p> <div> <div> 1) Mr. Moatz Al Ghamdi Development & Validation of Innovative FTIR- ATR Method for Direct Quantification of (MEG) concentration In Aqueous Matrices </div> <div> 2) Dr. Wael Badeghaish Assessing PEEK Integrity in Downhole Applications: Exposure to Supercritical scCO2 at Elevated Pressures and Temperatures </div> </div> <div> <div> 3) Ms. Lujain Alsiary Conversion of CO2 into Solid Carbonates Laboratory Evaluation </div> <div> 4 Mr. Ahmed Al Dhuhoori Failure analysis and failure investigation of Upper Zakum Utility ejector condenser </div> </div>	<p>Room 1</p>
<p>SESSION 3 (Continued) 09:30 AM - 10:50 AM</p> <p>Session Chairs Dr. Hassan Al-Rabiah Dr. Prakash Nayak</p>	<p>Laboratory Information Management</p> <div> <div> 1) Mr. Kameswara Bamidipathi Additives affecting MSEP Rating of Jet fuel </div> <div> 2) Engr. Nagi Elbashir Digital Transformation of Civil Testing Laboratories in Oil & Gas Industry </div> </div> <div> <div> 3) Mr. Anil Thakre Transforming analyzer and laboratory quality & asset management with artificial intelligence and machine learning </div> <div> 4) Ms. Reem Al Kubaisi From Lab to Field: Laboratory Development and Validation of Autonomous Seismic Acquisition Device (ASAD) </div> </div>	<p>Room 2</p>
<p>10:50 AM - 11:00 AM</p>	<p>Coffee Break</p>	
<p>SESSION 4 11:00 AM - 12:20 PM</p> <p>Session Chairs Dr. Wasan Al Taie Dr. Khalid Alrashidi</p>	<p>Laboratory Quality Assurance & Accreditation Programs</p> <div> <div> 1) Dr. Prashant Umare Journey of Laboratory Accreditation from Good to Great through Digitalization using LIMS </div> <div> 2) Mr. Sajjad Aldarweesh A New Method to QA/QC the Quality and Stability of Emulsified Acid through IFT Measurement: A Lab Study </div> </div> <div> <div> 3) Mr. Ibrahim Shabani Turning a challenge to an Opportunity: YASREF Interlaboratory Comparison Study for Refined Products </div> <div> 4) Mr. Syed Saeed Development of validation methodology for process analyzers through laboratory comparison </div> </div>	<p>Room 1</p>

<p>Session Chairs Dr. Marwah Madkhali Dr. Reem Ghubayra</p>	<div> <div> Chemical Handling & Hazardous Materials </div> <div> <div> 1) Dr. Sasi Florence Bioinspired Synthesis of Functional Palladium Nanoparticles from Moringa oleifera Flowers for Synergistic Antimicrobial and Photocatalytic Performance </div> <div> 3) Mr. Bijesh Valiya Suresh Assessment of Refinery Sample Points for Enhancing Safety & Sample Integrity </div> </div> <div> <div> 2) Mr. Nawaf Al-Otaibi Siderophore A121 as a Synergistic Agent to Reduce Antimicrobial Overuse and Environmental Impact </div> <div> 4) Mr. Mohammed Alghazal Modeling and establishment of the maximum H2S concentration which can be mitigated by a Fumehood </div> </div> </div>
<p>12:20 PM - 01:30 PM</p>	<p>Lunch and Prayer Break</p>
<p>12:20 PM - 01:30 PM</p>	<p>Poster Sessions</p>
<div> <div> SESSION 5 01:30 PM - 02:50 PM </div> <div> Session Chairs Dr. Amani Alhifthi Dr. Abeer Ageeli </div> </div> <div> <div> Session Chairs Dr. Nasra Abd El-Mageed Dr. Taha Okasha </div> </div>	<div> <div> Bioinformatics and Genomic </div> <div> <div> 1) Dr. Nagarajan Kathiresan Powering Genomics at Scale: The Role of the KAUST Supercomputing Lab in Bioinformatics Innovation </div> <div> 3) Dr. Hanadi Baghdadi A study on the use of Artificial Intelligence Applications to develop and sustain industries and logistics services based on measurement and calibration in laboratories </div> </div> <div> <div> 2) Dr. Ashraf Almoudi Enabling High-Resolution Structural Biology at KAUST: Joint Efforts between the EM and Supercomputing Core Labs </div> <div> 4) Mr. Ming Sun High-performance space-time Fourier ptychography for in vivo quantitative phase imaging </div> </div> </div> <div> <div> Laboratories Efficiency </div> <div> <div> 1) Mr. Mustafa Satawi Effective Viscosity Reduction Methods for Enhancing Heavy Oil Mobility </div> <div> 3) Ms. Munerah Shreedah Condensate banking mitigation using surfactant for IFT reduction and mobility enhancement </div> </div> <div> <div> 2) Engr. Prasad Karadkar Liquid Unloading from Gas Wells Using an Innovative Foamed System </div> <div> 4) Mr. Abdulaziz Hawas Laboratory Safety through Design Hazard Reviews: Insight from Air Products </div> </div> </div>

02:50 PM - 03:00 PM

Coffee Break

SESSION 6
03:00 PM - 04:20 PM

Session Chairs
Dr. Wasan Al Taie
Dr. Basheer Chanbasha

Advancements in Analytical Instrumentation

1) Ms. Manar Al-Shafi
Oilfield Scale Detection and Industrial Challenges

3) Mr. Abdullah Abdalkareem
Effect of Cooling of ULS-Diesel Samples Prior
Testing on Atmospheric Distillation at 95%-Vol
Parameter.

2) Mr. Mohammed Eltahir
Investigation of Low Octane Number in High
Aromatic Fuel Sample Due to Presence of Octane
Number Killers

4) Dr. Junghyun Lee
Effect of TGA Sample Holder in Evaluating
Hydration and Carbonation of 3D Printed Concrete
Specimens

Room 1

Session Chairs
Dr. Hassan S. Alqahtani
Dr. Khalid Alrashidi

Nanotechnology in Laboratory Applications

1) Dr. Sultan Alshaibani
Wideband LED Utilizing Five Layers of Self-Assembled
InAs Quantum Dots for Optical Coherence
Tomography Applications

3) Ms. Razan Asiri
Enhancing CO2 Adsorption Capacity Using Amine-
Functionalized MCM-41 Nanoparticles

2) Mr. Santhana Kumar
Best Practice for Safe Handling of Benzene and other
Aromatic Samples

Room 2

End of Day 2

09:00 AM - 11:00 AM

Session Chairs

Dr. Hassan Al-Rabiah
Dr. Abdulhameed Al-Hashem

Keynote Speakers Forum (Panel Discussion)

1) Prof. Richard N. Zare

Professor of Chemistry
Stanford University
King Faisal Prize in Science 2011 Laureate.

2) Dr. Amal M. Alamri

Associate Professor King Abdulaziz University
PhD, Electrical Engineering
KAUST

3) Prof. Ali Bumajdad

Director of Research and Technology
Directorate at the Kuwait Foundation for
the Advancement of Sciences

4) Dr. Wasan A. M. Al Taie

Associate Professor of Clinical Biochemistry and Chemistry
Emirates Chemical Society
Hamdan Bin Mohammed Smart University, UAE

5) Prof. Mohammed Bououdina

Aide to the President for Research Governance
Prince Sultan University

6) Prof. Dr. Volker Abetz

Polymer & Membrane Scientist
University of Hamburg, Germany

Room 1

11:00 AM - 12:30 PM

Closing Ceremony

12:30 PM - 01:30 PM

Lunch

End of Day 3