



Welcome
to the 5th edition of the
LABTECH
Conference & Exhibition

This booklet features the full conference agenda and acknowledges the vendors whose support made this event possible.

Strategic Partner



Organized by



Media Partner





Under the Patronage of

HRH Prince Mohammed bin Abdulaziz bin Mohammed

Governor of the Jazan Region

We extend our heartfelt gratitude to **His Royal Highness Prince Mohammed bin Abdulaziz bin Mohammed** for his gracious patronage of the 5th Labtech Conference & Exhibition.

His unwavering support and visionary leadership have been pivotal in fostering scientific advancement, innovation, and excellence across various fields. We are truly honored to have his encouragement as we strive to elevate our industry and inspire future developments.



On behalf of the Organizing Committee, it is a pleasure to welcome you to the
5th International Labtech Conference & Exhibition.

Under the theme "**Innovation in Laboratory Technology: Advancing Quality, Efficiency, and Expertise**," this year's program brings together leading experts for keynote sessions, workshops, and panels designed to share insights, foster collaboration, and inspire progress.

Explore the exhibition to discover cutting-edge innovations shaping the future of laboratory science, and take time to enjoy Jazan's rich culture and warm hospitality.

We're delighted to have you with us and look forward to an engaging and memorable conference experience.

Warm Regards,

Dr. Hind Al Johani
Conference Chair

Advisory Committee



Dr. Sowelim Al Shamrie
Executive Advisory
Committee Chair



Dr. Othman Hakami
Member of the Saudi
Shura Council



Dr. Meena Marafi
Principal Research
Scientist, KISR



Prof. Ahmed Al-Harrasi
Vice Chancellor for Research,
UoN



Prof. Zaid Al-Othman
Dean of the College of
Science at KSU



Prof. Abdulrahman Alwarthan
KSU



Mr. Saleh Al Ammari
Aramco EXPEC ARC
Principal Professional



Mr. Turki Al-Harbi
Jazan Refinery Laboratory
Manager, Aramco



Mr. Mohammed Al-Sahaf
Lab & OSA Section Manager,
Satorp



Mr. Mansour Lahiani
EX-Manager, Aramco



Mr. Yousef Al-Marzooq
EX-Manager, Aramco



Jose Griman Morales
Ras Tanura laboratory Manager



Mr. Abdullah M. Al Ghamdi
Research Science Consultant,
R&DC Aramco



Mr. Abdullah S. Al Dhuwaihi
Sr. Research Science Consultant,
Aramco



Mrs. Abla Mowais
Sr. Specialist Administrator King
Abdullah Medical City

aramco

powered by how

How can technology help capture more carbon at scale in the future?

Discover how our innovative carbon capture technology could help provide a roadmap to lower carbon emissions across heavy industry.

Explore our scalable technology.



Steering Committee

Advisory Committee



Dr. Hind Al Johani
Organizing Committee Chair



Dr. Majed Almashnowi
Vice-chair



Dr. Sowelim Al Shamrie
Executive Advisory Committee Chair

Technical Committee



Dr. Hassan Al-Rabiah
Committee Chair



Dr. Basheer Chanbasha
Vice-chair

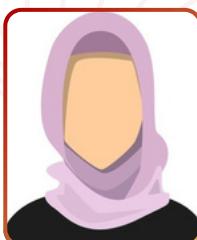


Dr. Nahid Siddiqui
2nd Vice-chair

Women Empowerment Committee



Ms. Fatimah Y. Almarzooq
Committee Chair



Abeer Mohammed Bin Beagan
Vice-chair

Sponsorship Committee



Mr. Bander Daajani
Committee Chair



Ms. Reem Ebrahim
Vice-chair

Exhibition Committee



Mr. Ghazi Hussain
Committee Chair



Mr. Ibrahim Aljadedi
Vice-chair

Registration Committee



Dr. Ibrahim Al-Zahrani
Committee Chair



Mr. Ahmed M. Al Dawood
Vice-chair

Publicity Committee



Mrs. Eman Thagafi
Committee Chair



Mr. Turki Al Subaie
Vice-chair

Logistics Committee



Mr. Ibrahim Hadi
Committee Chair



Dr. Faris Alfifi
Vice-chair

How can optimizing our operations help maximize our efficiency?

Discover how we're leveraging cutting-edge technology to meet growing demands more efficiently.

Explore the role of AI, machine-learning, and the metaverse in our operations.



“How can more opportunities for women help me advance my industry?”

Discover how our female workforce is driving the future of our industry forward with 504 U.S. patents and counting.

Explore the impact of their work.



Keynote Speakers



Eng. Abdullah S. Al-Suwailem

Senior Vice President of Western
Region Manufacturing
Aramco



Prof. Morten P. Meldal

Nobel Prize Laureate in Chemistry
2022



Prof. Dorothy J. Phillips

President
American Chemical Society



Prof. Mohammed Bououdina

Aide to the President for Research
Governance
Prince Sultan University



Richard N. Zare

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



Eng. Saad Binmatlig

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



HE Prof. Ahmed Al-Rawahi

Chancellor
University of Nizwa, Oman



Eng. Saleh AlAmri

Chief Executive Officer
GCC-Lab



Dr. Abdulhameed Al-Hashem

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

**Prof. Ghassan Saed**

Director of Translational Research
Wayne State University School of
Medicine

**Prof. Ali Bumajdad**

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

**Prof. Khalid K. Al Harbi**

Consultant in Medical Molecular
Genetics, Chairman of Saudi Society
for Clinical Laboratory Sciences

**Dr. Ian W. Campbell**

Vice President
National Transformation Institute (NTI),
KAUST

**Prof. Motasem Saidan**

Former Minister of Water and
Irrigation of Jordan.
Expert in Environmental Engineering,
Management & Technology at
University of Jordan

**Dr. Khalid Al Noaimi**

Manager of Upstream R&D
Technology Strategy
Aramco

**Dr. Yousif M. Al -Shammary**

President London College of Energy
Economics

**Prof. Dr. Volker Abetz**

Polymer & Membrane Scientist
University of Hamburg, Germany

**Prof. Najlaa S. Al-Radadi**

Faculty of Science, Department of
Chemistry
Taibah University

**Prof. Salwa I. Hindawi**

Professor of Haematology &
Transfusion Medicine
King Abdulaziz University, Jeddah,
Saudi Arabia

**Dr. Amal M. Alamri**

Associate Professor King Abdulaziz
University
PhD, Electrical Engineering KAUST

**Dr. Wasan A. M. Al Taie**

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

WHY INVEST IN JAZAN?



LOCATION

- 13% of world trade passes through the Red Sea Corridor
- Connected to the Belt Road Initiative (BRI) and benefiting from KSA's growing trade ties with Africa
- Key gateway to the fast-growing markets in Saudi Arabia and neighbouring countries

INFRASTRUCTURE

- World-class infrastructure and transportation network
- New Jazan International Airport
- The industrial port fully integrated with JCPDI's SEZ

QUALITY OF LIFE

- Residential and public facilities at low cost
- Environment with diverse sceneries from the sea to the mountains
- Family oriented offering

MARKET ACCESS

- Vision 2030 stimulates huge investments in infrastructure in the Kingdom
- 710 million consumers easily accessible from this optimal distribution hub
- 35 million strong consumer market

TALENT & WORKFORCE

- 4.5 million population in the region, 2/3 under the age of 35 years
- 50,000 students at Jazan University
- 250,000 workers available in the catchment area

RELIABLE PARTNER (RCJY)

- 50 years' experience operating industrial cities.
- Excellent track record with tenants including Aramco, SABIC and Marafiq
- Strong finances and ministerial support





Jazan City for Primary and Downstream Industries (JCPDI), is an industrial city positioned as a preferred destination for processing industries and an important logistics hub on the major global trade corridor in the Red Sea located 60 km north of Jazan city. JCPDI is operated by the Royal Commission for Jubail and Yanbu (RCJY) and was launched in 2015 with a planned area of 266 km².

The Royal Commission for Jubail and Yanbu (RCJY) is an organization of the Saudi Arabian government specialized in the development, investment and operation of industrial cities in the Kingdom for the past 50 years.



SPECIAL ECONOMIC ZONE

The Jazan Economic City is one of the first special economic zones in Saudi Arabia, covering an area of 24.6 square kilometers. This zone benefits from special legislative frameworks and regulations governing economic activities, making it one of the most competitive zones globally.



JAZAN FOOD PROCESSING ZONE

The food park offers dedicated infrastructure, including specialized facilities and services for the processing of protein-based food products, such as:

- Industrial land for lease
- Cold storage facilities and temperature controlled warehouses.
- Slaughterhouses and quality control laboratories.
- Meat processing facilities, including bone removal, cutting, and ready-to-operate processing facilities.
- Packaging and canning services.
- Food-specific Waste Management System



JCPDI PORT

Multi-purpose terminals deep-sea port (16.5m)
Container terminal with capacity of 1 million TEUs
Cargo and liquid terminals with 4 million tons capacity



- investjcpdi.com
- 800-1000-128
- info-investors@rcjy.gov.sa
- [@rcjazan](https://www.twitter.com/@rcjazan)

Women Empowerment Program

The workshop aims to highlight the unwavering efforts to empower, engage, and elevate women, while celebrating and honoring women in the GCC who excel in their fields and inspire the next generation of female leaders to follow in their footsteps. Additionally, the workshop seeks to provide actionable recommendations to address challenges and unlock opportunities for women leaders across the GCC region.



Dr. Noha Al-Harthi

Head of Emerging Technologies
NEOM, Aramco



Dr. Reem Khojah

Assistant Professor
University of California, San Diego



Dr. Samha Z. Al-Ayoubi

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



Reem Abdullah Al-Ghanim

Downstream HR Transformation
Aramco



Dr. Reem Al Turki

C.E.O. of Soft-Landing
C.E.O. and co-founder of Green Hub



Prof. Hind Al Humaidan

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

Pre-Conference Courses

15 - 16 November, 2025

Grand Millennium Hotel, Jazan



Advanced Troubleshooting Techniques for Analytical Instruments: Best Practices for GCs, HPLC, ICP, ICP-MS, GC-MS, and NMR.

Dr. Wasan Al Taie



The Best Practices Used for Minimizing Differences Between Analytical Data Generated by Lab Personnel and Online Analyzers

Dr. Mohammad Arab



Best Practices of Handling Online Analyzer Operations and Troubleshooting Activities.

Mr. Dirk Horst



Best Practices of Modernized Management for Handling Routine and Non-Routine Laboratory Operations Effectively and Overcoming Future Challenge

Dr. Konstantinos Smyrniotakis

Please visit the pre-conference courses section at the conference website www.labtech.com to complete the registration process



ABOUT AMIC & ASIC

The Advanced Metal Industries Cluster Company, Ltd. ("AMIC") was established in 2014 by Tasnee and Cristal to undertake investments in titanium Metal value chain in the Kingdom of Saudi Arabia

AMIC so far has established the Upstream Projects for Titanium Metal Industry in the Kingdom of Saudi Arabia by:

- Building an ilmenite processing plant operation (ASIC), with initial capacity of 500,000 tons of titanium slag and 250,000 of Pig Iron, in Jazan City for Primary and Downstream Industries (JCPDI) Saudi Arabia.
- AMIC is leading the way for titanium Metal and Aerospace Industry in the Middle East. Building on the inauguration of the titanium sponge plant, AMIC is also planning to develop downstream capabilities, including melting, forging. Upon completion of downstream projects in Saudi Arabia, AMIC will provide Semi and Finished products for the following industries:
 - 1- Aerospace and Defense,
 - 2- Desalination,
 - 3- Oil and Gas,
 - 4- Chemical & Petrochemical
 - 5- Power Generation
- Formed a joint venture with Toho Titanium Co., Ltd. (Toho) in 2014, now called ATTM (Advanced Metal Industries Cluster and Toho Titanium Metal Co., Ltd.) to build the first titanium sponge plant in the Middle East. Toho is a recognized global leader in the production of high-quality titanium sponge. AMIC holds 65% of ATTM, while Toho holds the remaining 35%. Sponge capacity is expected to be 15,600 tons per year. The sponge plant is located in Yanbu, Saudi Arabia, alongside Tronox's TiO2 operations, where TiCl4, a key sponge feedstock, is produced.

COMPANY PROFILE

The Advanced Metal Industries Cluster Company Ltd. ("AMIC") strategy is in line with Saudi Arabia's Vision 2030.

2030 Saudi Vision Components

- Diversify economy and increase localization to 50% by 2030
- Support local manufacturing for value added products
- Enable private sector participation in strategic products supplies
- Attract investors and transfer technology to the country
- Country strategic participation to global economy

AMIC Objectives

- First mover to develop downstream manufacturing specialties
- Reliable and competitive supply of Titanium and specialty Metal alloy
- Leverage government contracts and offset programs
- Build partnerships and localize technologies
- Aerospace product supply from Saudi Arabia to global market



- Competitive trade routes to US markets

Strategic location for access to key global trade routes (1)



Saudi Arabia is a central export/import hub that can connect four continents

Esteemed Sponsors

Diamond



Platinum



Gold



Silver



Participant Academia



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY



جامعة الملك فيصل
KING FAISAL UNIVERSITY
جامعة الملك فيصل

جامعة طيبة
TAIBAH UNIVERSITY







جامعة الامير سلطان
PRINCE SULTAN
UNIVERSITY



جامعة نزوى ١٦٦



RIT

Rochester Institute
of Technology of Dubai



من نحن Who We Are



شركة مصفاة أرامكو السعودية الجبيل (ساسرف) هي شركة تكرير سعودية رائدة مملوكة بالكامل لشركة أرامكو السعودية ملتزمة بالتميز في قطاع التكرير.

تأسست ساسرف عام ١٩٨١، وتقع في قرية غيل واحدة من أكبر المصافي في المملكة العربية السعودية والتي تقع في مدينة الجبيل الصناعية. تغدو المصفاة بمعالجة النفط الخام وتحويله إلى منتجات بترولية للأسواق المحلية والدولية.

Saudi Aramco Jubail Refinery Company (SASREF) is a leading refining company committed to excellence in the refining industry. SASREF is a Saudi company wholly-owned by Saudi Aramco.

Established in 1981, SASREF operates one of the largest refineries in the Kingdom of Saudi Arabia located in Jubail Industrial City. The refinery processes crude oil into petroleum products for both local and international markets.

رؤيتنا Vision



أن تكون شركة متكاملة للتكرير والبتروكيماويات الأفضل في فئتها.

To be a Best-in-Class Integrated Refining and Petrochemical Company.

رسالتنا Mission



الاستمرار في كوننا عملاً موثوقاً لأرامكو السعودية مع تعظيم قيمة النفط الخام والسعى إلى التميز التشغيلي وتنمية الأفراد وإحداث تأثير إيجابي على بيئتنا ومجتمعنا.

To continue being a reliable customer for Saudi Aramco crude oil while maximizing its value and pursuing operational excellence, people development, and having a positive impact on our environment and society.



قيمنا Our Values



Safety

نلتزم بالعمل على تحسين أسلوبنا في العمل وأمان

We are committed to efficient refinery operations keeping Safety at the forefront.



Care

نقدر موظفينا ومجتمعنا وبنائنا وهيئتنا وهي ما يعكس في الطرفية التي نديرها أعمالنا

We value our people, community and environment which is reflected in the way we conduct our business.



Ownership

نتمكن من موظفينا من تقديم المساحة ومحفزاً لأعلى المعايير

We empower our people to be responsible and accountable in delivering results to the highest standards.



Excellence

نأخذ زمام الريادة في التطوير المستمر للتشغيل التحرير النفطي بصفة للذئون الأفضل في فئتنا

We take ownership to continuously improve our refinery operations to be the best in class performer.

تدمج مصفاة ساسرف ما بين التكنولوجيا والممارسات المستدامة، مما يضمن التحويل الفعال للنفط الخام إلى منتجات قيمة. من خلال تفانيها الراسخ في الجودة والابتكار، تكرس ساسرف جهودها لإنجذاب تغيير ذي أهمية والمساهمة في النهوض بالصناعات التي تعمل بها.

At SASREF, the advanced facility integrates technology and sustainable practices, ensuring efficient conversion of crude oil into valuable products. With an unwavering dedication to quality and innovation, SASREF is dedicated to making a meaningful impact and contributing to the advancement of the industries it operates in.

منتجتنا Our Products



زيت الغاز (الديزل)
Gas Oil (Diesel)

الكيروسين
Dual-purpose
Kerosene

زيت الوقود
Fuel Oil

غاز البترول المسال
Liquid Petroleum Gas (LPG)

الكبريت
Sulphur

الأسفينا
Chemical feedstock
Naphtha

المبرون
Benzene

عنصر البنزين النافتا
Gasoline Component
Naphtha (MOGAS)

EXHIBITORS

Booth #	Vendor	Booth #	Vendor
Aramco		Jazan Basic Industries	
Yasref		Ministry of Energy	
ASIC		JIGPC	
Satorp		Diamond Spectrum	
1 - 2	Geo Chem Lab	28	Nizwa University
3 - 4 - 5	Lab Technologies Group	29	Chemicals Research & Innovation Society (CRIS)
6 - 7	IMSS	30 - 31	Saud AbdulAziz Al-Shalan Company (SASC)
8 to 12	Petrotech / Sinan	32	JamJoom Co.
13	Analytica One Group	33	Al Hoty
14 - 15	Abuljadayel Chemicals	34	Saudi Accreditation Center (SAAC)
16	Kurita Group	35 - 36	AAA Energies
17	Al Zamil	37	ECO Lab
18	GCC Lab	38	Advanced Scientific
19	Niazak	39	SGS Lab
20	Labware	40	Sedres Group
21	Swagelok	41 - 42	Jazan University
22	ASTM	43	OCS
23	Jazan Industrial Chemistry Society (JICS)	44	Abdullah Hashim Industrial Gases & Equipment (AHG)
24 - 25 - 26	SASREF	45 - 46	EnergyTech
27	RICI		

Booth Map

Jazan
Toast Master

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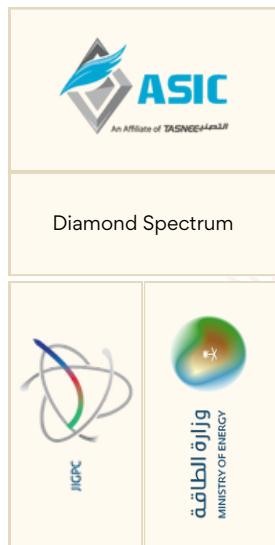
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At SATORP, we showcase excellence in Laboratory and on-stream analyzers through our advanced refining and petrochemical testing technologies.

Expanding Excellence



www.satorp.com



SATORP

TECHNICAL PROGRAM 17

November

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 -Shammary

President London College of Energy Economics

10:00 AM - 11:00 AM

Exhibition Inauguration

11:00 AM - 12:40 PM

Session Chair
Prof. Ali Bumajdad

Keynote Speakers

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

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-Harthi

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

New Development in Analytical 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

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 1

Room 1

Room 1

Room 2

Room 3

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

3) Prof. Mohammed Aljahdali

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

2) Dr. Hina Rashed

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

3) Sasref

Impact of Sampling on Electrical Conductivity of Static Dissipator Additives

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

Session Chairs
Dr. Hassan S. Alqahiani
Dr. Shakeel Ahmed

Hydrocarbon and Nano-Material Science

1) Mr. Dipen Kalavadia

Effect of Hydrogen Sulfide on Crude oil API Gravity

3) Engr. Mohammed Alyousef

Produced-Water-Driven CO₂ Mineralization for Sustainable Reinjection Operations

2) Prof. Muna Khushaim

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

4) Dr. Shaqraa Musawi

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

03:30 PM - 04:30 PM

Chemathon 2nd Round (4 Presentations)

Room 4

End of Day 1

Room 1

Room 2



THE SUN IS RISING ON A GLOBAL ENERGY GIANT



The largest IGCC on the planet is on a mission - to safely and reliably provide power, hydrogen and utilities to our stakeholders, leveraging world-class technologies and the expertise of our people to maximize shareholder value and local employment.

WE ARE JIGPC!

www.jigpc.com



TECHNICAL PROGRAM 18 November

08:00 AM - 09:20 AM

Session Chair
Dr. Prashant Umare

Keynote Speakers

1) Prof. Khalid K. Al Harbi

Consultant in Medical Molecular Genetics, Chairman of Saudi Society for Clinical Laboratory Sciences

2) Dr. Khalid Al Noaimi

Manager of Upstream R&D Technology Strategy Aramco

3) Prof. Najlaa S. Al-Radadi

Faculty of Science, Department of Chemistry Taibah University

4) Prof. Salwa I. Hindawi

Professor of Haematology & Transfusion Medicine King Abdulaziz University, Jeddah, Saudi Arabia

5) Dr. Ian W. Campbell

Vice President National Transformation Institute (NTI), KAUST

09:20 AM - 09:30 AM

Coffee Break

SESSION 3
09:30 AM - 10:50 AM

Session Chairs
Dr. Nujud Maslamani
Dr. Taha Okasha

Advanced Characterization

1) Mr. Moatz Al Ghamdi

Development & Validation of Innovative FTIR- ATR Method for Direct Quantification of (MEG) concentration In Aqueous Matrices

3) Ms. Lujain Alsairy

Conversion of CO₂ into Solid Carbonates Laboratory Evaluation

2) Dr. Wael Badeghaish

Assessing PEEK Integrity in Downhole Applications: Exposure to Supercritical scCO₂ at Elevated Pressures and Temperatures

4) Mr. Ahmed Al Dhuhouri

Failure analysis and failure investigation of Upper Zakum Utility ejector condenser

SESSION 3
(Continued)
09:30 AM - 10:50 AM

Session Chairs
Dr. Hassan Al-Rabiah
Dr. Prakash Nayak

Laboratory Information Management

1) Mr. Kameswara Bamidipathi

Additives affecting MSEP Rating of Jet fuel

3) Mr. Anil Thakre

Transforming analyzer and laboratory quality & asset management with artificial intelligence and machine learning

2) Engr. Nagi Elbashir

Digital Transformation of Civil Testing Laboratories in Oil & Gas Industry

4) Ms. Reem Al Kubaisi

From Lab to Field: Laboratory Development and Validation of Autonomous Seismic Acquisition Device (ASAD)

Session Chairs
Dr. Abdullah Alamri
Dr. Reem Ghubayra

Nanotechnology Applications

1) Dr. Abdullah Alomier

Advanced Microfluidics for Mixed Wettability Studies: Innovations in Fabrication and Analysis

3) Dr. Shakeel Ahmed

High-Resolution Electron Microscopic Analysis of Reforming Catalysts

2) Mr. Abdullah Alboqmi

Evaluating the Efficacy of Nano-surfactants Made with Local Ingredients in Enhancing Oil Recovery within High Salinity Carbonate Reservoirs

4) Dr. Mai Ibrahim

Structure and Surface Energy of Blend Films of Polystyrene and Polybutadiene

10:50 AM - 11:00 AM

Coffee Break

SESSION 4
11:00 AM - 12:20 PM

Session Chairs
Dr. Wasan Al Taie
Dr. Khalid Alrashidi

Laboratory Quality Assurance & Accreditation Programs

1) Dr. Prashant Umare

Journey of Laboratory Accreditation from Good to Great through Digitalization using LIMS

3) Mr. Ibrahim Shabani

Turning a challenge to an Opportunity: YASREF Interlaboratory Comparison Study for Refined Products

2) Mr. Sajjad Aldarweesh

A New Method to QA/QC the Quality and Stability of Emulsified Acid through IFT Measurement: A Lab Study

4) Mr. Syed Saeed

Development of validation methodology for process analyzers through laboratory comparison

Room 1

Room 1

Room 2

Room 3

Room 1

Chemical Handling & Hazardous Materials

1) Dr. Sasi Florence

Bioinspired Synthesis of Functional Palladium Nanoparticles from *Moringa oleifera* Flowers for Synergistic Antimicrobial and Photocatalytic Performance

3) Mr. Bijesh Valiya Suresh

Assessment of Refinery Sample Points for Enhancing Safety & Sample Integrity

2) Mr. Nawaf Al-Otaibi

Siderophore A121 as a Synergistic Agent to Reduce Antimicrobial Overuse and Environmental Impact

4) Mr. Mohammed Alghazal

Modeling and establishment of the maximum H₂S concentration which can be mitigated by a Fumehood

Session Chairs

Dr. Marwah Madkhali
Dr. Reem Ghubayra

12:20 PM - 01:30 PM

Lunch and Prayer Break

12:20 PM - 01:30 PM

Poster Sessions

SESSION 5 01:30 PM - 02:50 PM

Session Chairs

Dr. Amani Alhifthi
Dr. Abeer Ageeli

Bioinformatics and Genomic

1) Dr. Nagarajan Kathiresan

Powering Genomics at Scale: The Role of the KAUST Supercomputing Lab in Bioinformatics Innovation

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

2) Dr. Ashraf Almoudi

Enabling High-Resolution Structural Biology at KAUST: Joint Efforts between the EM and Supercomputing Core Labs

4) Mr. Ming Sun

High-performance space-time Fourier ptychography for *in vivo* quantitative phase imaging

Session Chairs

Dr. Nasra Abd El-Mageed
Dr. Taha Okasha

Laboratories Efficiency

1) Mr. Mustafa Satawi

Effective Viscosity Reduction Methods for Enhancing Heavy Oil Mobility

3) Ms. Munerah Shreedah

Condensate banking mitigation using surfactant for IFT reduction and mobility enhancement

2) Engr. Prasad Karadkar

Liquid Unloading from Gas Wells Using an Innovative Foamed System

4) Mr. Abdulaziz Hawas

Laboratory Safety through Design Hazard Reviews: Insight from Air Products

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

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 1

Room 2

End of Day 2

SAMREF is an equally owned joint venture between Saudi Aramco and Exxon Mobil.

SAMREF is a complex refinery which was formed in 1981 for the development, construction, ownership and operation of crude oil refining facilities in Yanbu, Saudi Arabia. Following the construction and start-up of the facilities, it commenced operations on November 15, 1984 with processing 263,000 barrels per day of Arab Light Crude Oil (design capacity) but through a continuous improvement of its facilities, it now processes more than 400 KBD. The products include:

- Gasoline
- Automotive Diesel Oil (ADO)
- Jet Fuel
- Marine Heavy Fuel Oil (MHFO)
- Propane
- Normal Butane
- Sulfur Pellets

SAMREF products are lifted by its Offtakers, namely Saudi Aramco and ExxonMobil and are shipped to the local and international markets.

Vision:

Be the leading integrated refinery and petrochemical complex in Middle East and Asia Pacific in 10-5 years.

Mission:

Timely supply of the highest value products at a competitive cost through a competent and optimized work force, while maintaining world class safety, reliability and environmental protection.

Core Values:

ACCOUNTABILITY

We hold ourselves and one another accountable for our actions.



EXCELLENCE

We excel in all that we do, and the way in which we do it while maintaining safety & reliability standar

CITIZENSHIP

We pay full attention to the well being of the employees as well as the community

TEAMWORK

We value, trust, develop and empower all our employees in a cross-functional teamwork environment complementing each other.



INTEGRITY

We treat people with fairness and base our business on the highest ethical standards.

TECHNICAL PROGRAM 19

November

Keynote Speakers Forum (Panel Discussion)

09:00 AM - 11:00 AM

Session Chairs

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

1) Prof. Richard N. Zare

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

3) Prof. Ali Bumajdad

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

5) Prof. Mohammed Bououdina

Aide to the President for Research Governance
Prince Sultan University

2) Dr. Amal M. Alamri

Associate Professor King Abdulaziz University
PhD, Electrical Engineering
KAUST

4) Dr. Wasan A. M. Al Taie

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

6) Prof. Dr. Volker Abetz

Polymer & Membrane Scientist
University of Hamburg, Germany

11:00 AM - 12:30 PM

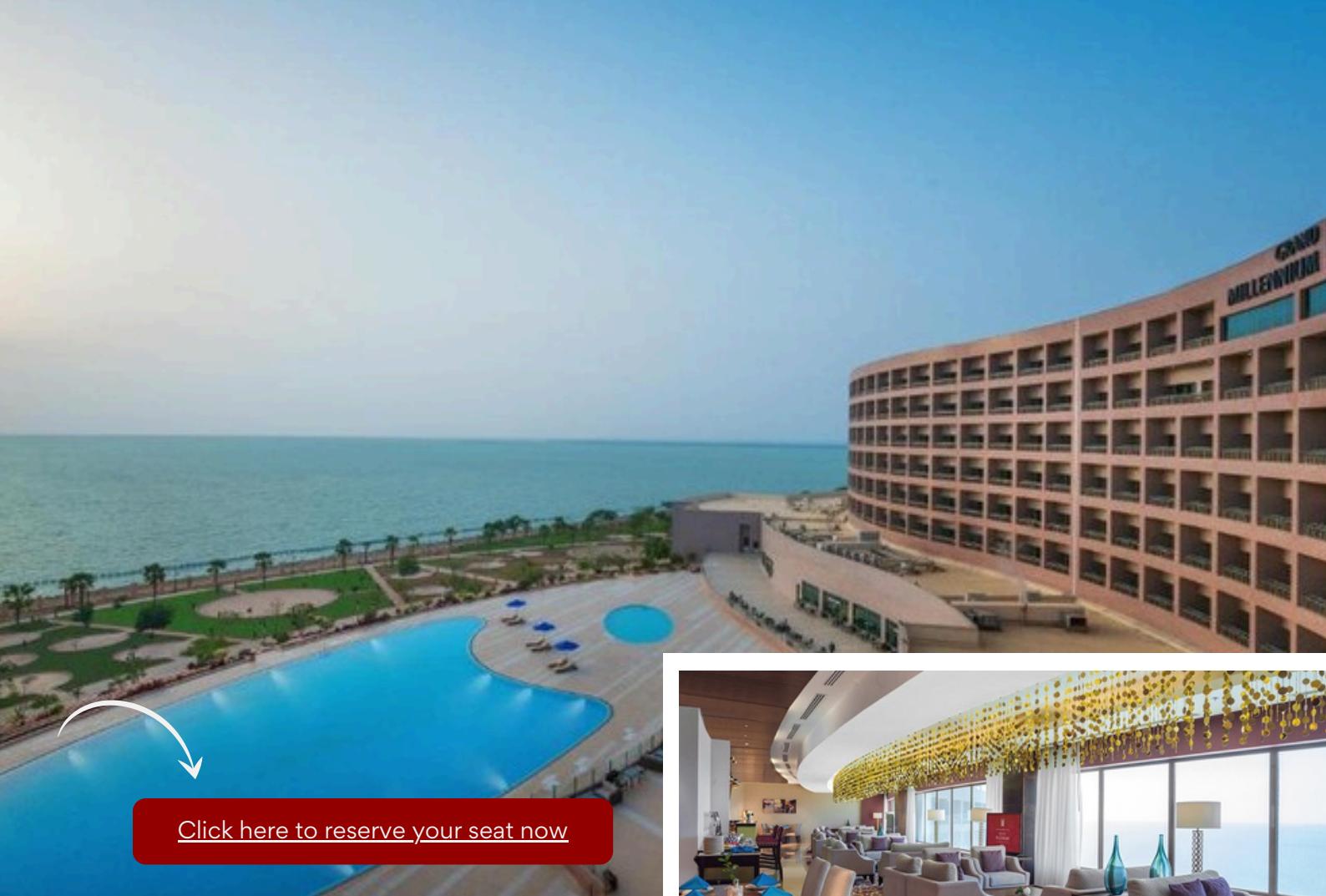
Closing Ceremony

12:30 PM - 01:30 PM

Lunch

Room 1

End of Day 3



[Click here to reserve your seat now](#)

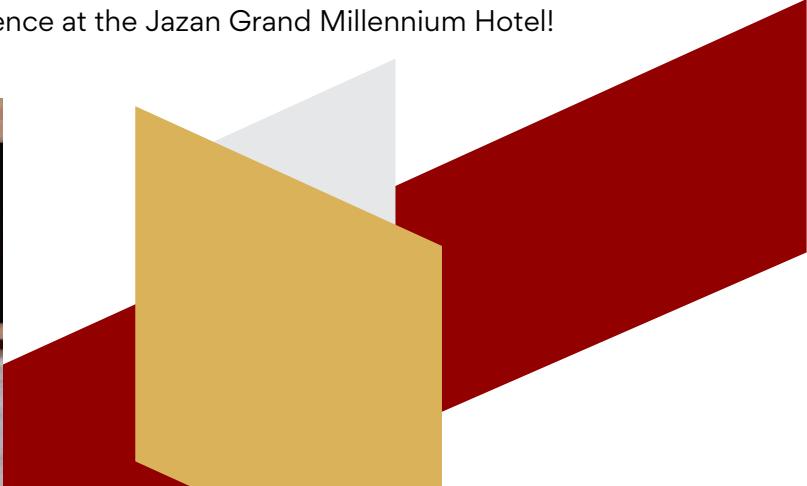


Accommodation

The 5th International LabTech Conference & Exhibition will be held from November 17-19, 2025, at the Jazan Grand Millennium Hotel, one of the most luxurious 5-star hotels in the region. Offering modern accommodations with elegantly designed rooms and essential amenities, the hotel ensures a comfortable stay for all attendees. With versatile meeting spaces and state-of-the-art facilities, it provides the perfect setting for exhibitions, lectures, and technical courses. For the best room rates and availability, guests are encouraged to contact the hotel directly.

The hotel is offering a special rate for LabTech delegates, which includes airport pickup and late check-out (subject to prior approval). Once registered for the conference, delegates will receive a dedicated booking link from the hotel, granting them access to these discounted rates. Given the high demand for rooms during international events, delegates are strongly advised to secure their accommodation early.

Experience a productive and enjoyable conference at the Jazan Grand Millennium Hotel!





Budget Overview and Target Audience for the International Petroleum Conference:

The estimated budget for the upcoming International Petroleum Conference is projected to be between SR 1.5 million and SR 2.0 million. This financial framework aims to ensure a high-quality experience for all attendees, facilitating meaningful discussions and networking opportunities.

Our targeted participants include a diverse group of individuals essential to the advancement of the petroleum industry. We aim to attract professors and undergraduate students from universities, providing them with insights into current industry trends and research developments. Additionally, we will engage professional chemists, engineers, and technicians actively working in the petroleum sector, ensuring a comprehensive exchange of knowledge and expertise.

By bringing together this unique blend of academia and industry, the conference will serve as a platform for collaboration, innovation, and the sharing of best practices, ultimately contributing to the growth and sustainability of the petroleum field.

Thank You

We extend our sincere appreciation to all **sponsors, exhibitors, speakers**, and the **organizing committee**, as well as everyone who worked tirelessly behind the scenes to make this conference possible. Their efforts have truly shaped the success of LabTech 2025.

But most importantly, **Thank You** to attend this conference. Your participation, curiosity, and engagement give this event its true purpose. We hope you found it inspiring, rewarding, and full of new connections and ideas.

We look forward to seeing you again at the next edition of the
LabTech Conference & Exhibition.

Let's Innovate, Elevate, and LabTech On!