



Under the Patronage of
His Excellency Dr. Mohamed Bin Mubarak Daina

Minister of Oil & Environment,
Special Envoy for Climate Affairs
Kingdom of Bahrain

*The 1st Gulf Chemistry Association
International Conference and Exhibition*



**ROLE OF CHEMISTRY IN
SUSTAINABLE ENERGY FOR
OIL AND PETROCHEMICAL
INDUSTRIES**



Technical Program

13-17 November 2022
Hussain the Gulf Hotel Convention Center
Manama, Kingdom of Bahrain

www.gca2022.org





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H.E. Dr. Mohamed Bin Mubarak Bin Daina

Minister of Oil & Environment,
Special Envoy for Climate Affairs

Kingdom of Bahrain

Executive Committee Chair



Mr. Ahmad O. Al-Khowaiter

Chief Technology Officer
at Saudi Aramco



TABLE OF CONTENTS

Welcome Message	4
Theme & Conference Topics	5
Omar Yaghi Award	13
Keynote Speakers	14
Pre-Conference Technical Courses	16
Empowerment Women in Science	17
Conference Technical Program	18
Exhibition Floor Plan	31
Valued Exhibitors List	32
Chemathon	33
Things you should know	34

WELCOME MESSAGE



Mr. Yousif S. Al-Marzooq

Conference Chairman

On behalf of the Organizing Committee, it is my pleasure to welcome you to the First Gulf Chemistry Association International Conference and Exhibition (GCA-2022), being held in the Kingdom of Bahrain from November 15 to 17, 2022, at the Gulf Convention Center.

GCA-2022 aims to offer a world-class platform for technical discussion and knowledge sharing between the scientific community and industrialists. The conference emphasizes the paramount application of contemporary chemistry in the Gulf region and supports research and development, especially for Oil and Gas industries.

In line with the Fourth Industrial Revolution, GCA-2022 took the theme of "The Role of Chemistry in Sustainable Energy for Oil and Petrochemical Industries". The subject theme will cover dynamic and emerging topics such as CO₂ Capturing and its Applications, Circular Carbon Economy (CCE), Enhanced and Improved Oil Recovery (EOR/IOR), Renewable Energy, Artificial Intelligence (AI), and Big Data and Robotics in Chemistry.

The GCA-2022 will be a unique version of chemistry conferences in the region by inhabiting all chemistry associations and societies from GCC as well as International societies such as IUPAC and ACS. The conference will include addresses by distinguished speakers, industrial experts, academic researchers and panelists. The conference is targeting 1,000+ delegates and more than 100 exhibitors who will make your experience rich in knowledge and exposure.

I would like to thank organizing committees who have been working very hard for more than two years to make this event another success story. This conference would not have been possible without the generous sponsorship from industrial companies, academic and research organizations. Their support is highly acknowledged.

We are confident that you will find the conference both valuable and enjoyable. I am looking forward to meeting you at GCA-2022!



Conference Theme & Topics

“Role of Chemistry in Sustainable Energy for Oil and Petrochemical Industries”

Conference Topics

- 🔥 CO2 Capturing and its Applications
- 🔥 Circular Carbon Economy (CCE)
- 🔥 Enhanced and Improved Oil Recovery (EOR/IOR)
- 🔥 Renewable Energy
- 🔥 Artificial Intelligence (AI)
- 🔥 Big Data and Robotics in Chemistry

Conference Opening Ceremony

The ceremony, exclusively sponsored by Saudi Aramco, will start at 9:00 am on Tuesday November 15th at The Gulf Convention Center and will be followed by a luncheon.

CONFERENCE CHAIRMANSHIP



Mr. Yousif S. Al-Marzooq
Conference Chairman



Ms. Huda Al Nassar
Vice-Chairwoman



Mr. Mansour Al-Lahiani
Treasurer



Mr. Noman Khalid
Conference Secretary

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Chairman



Dr. Ali Al Omair
1st Vice-Chair



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2nd Vice-Chair



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Prof. Mohammed Nahid Siddiqui



Mr. Saleh Alammari



Dr. Faisal Alotaibi



Dr. Amani Alhalwani



Mr. Meshal Alotaibi Siddiqui



Mr. Marzouq Alshammari



Mr. Abdullah Alghamdi



Mr. Jamal Alobireed



Dr. Meena Marafi



Ms. Abla A. Mowais



Prof. Zeid Alothman



Mr. Mansour Al-Lahiani



Mr. Abdullah Alduwaihi



Dr. Yehya El-Sayed



Mrs. Mouza Saif Matar



Mr. Hussain Al-Bagawi



Dr. Abdullah Ali Abdulla
Al-Mutawah



Mr. Ibrahim Alghamdi



Dr. Samar Abubshait

CONFERENCE ORGANIZING COMMITTEES

Technical Committee



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Chairman



Dr. Husin Sitepu
Vice-Chair



Dr. Yehya El-Sayed



Dr. Hicham El-Hajj



Dr. Hassan Al-Rabiahi



Dr. Hind Aljohani



Dr. Shakeel Ahmed



Dr. Anaam Alshaikh Ali



Dr. Prashant S. Umare



Dr. Prakash Nayak



Dr. Saeed Alsharani



Mr. Said H. Alshahrani



Prof. Basheer Chanbasha



Ms. Nada Alghamdi



Mr. Abdulaziz Alsubaie



Ms. Eman Sharba



Dr. Aisha S. Al-Wuhaib



Dr. Ali Mohaish



Dr. Aisha Alsaleh

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Ms. Sara Al Ghamdi



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Mr. Ibrahim E AlNaimi



Mr. Asim H Alsaleh



Mr. Othman S AlSwaie



Mr. Majed S Alotaibi



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Mr. Turki Alsubaie

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Mr. Jaffar Alattar
Chairman



Mr. Yousef Alfaraj
Vice-Chair



Mr. Ahmad Alhaddad

Women Empowerment Program Committee



Ms. Eman Sharba
Chairwoman



Dr. Aisha Al-Wuhaib
Vice-Chair

Who will win **OMAR YAGHI** **AWARD?**



Prof. Omar M. Yaghi

DON'T MISS
THE **DATE**



at the Gulf Hotel,
Kingdom of Bahrain 

www.gca2022.org

KEYNOTE SPEAKERS



Prof. Omar M. Yaghi

*James and Neeltje Tretter
Chair Professor of Chemistry
at the University of California*



Prof. Angela K. Wilson

ACS President



Prof. Adah Al-Mutairi

*Professor of pharmaceutical
chemistry; and Director of
the Center for Excellence in
Nanomedicine and Engineering
in the Institute of Engineering
in Medicine at UCSD).*



Dr. Ghassan Saed

*President of National Arab
American Medical Association
in Michigan, Professor of
Gynecologic Oncology.*



Dr. Gérard de Nazelle

*Manager of R&DC,
Saudi Aramco*



Prof. Ahmed Al-Harrasi

*Professor of Organic
Chemistry, Vice Chancellor for
graduate studies at University
of Nizwa*



Prof. Kuo-Wei Huang

*Professor of chemical sciences
at KAUST*



Prof. Reuben Jih-Ru Hwu

*Chair professor at National
Tsing Hua University*



Prof. Haider A. J. Al Lawati

*Professor,
Department of Chemistry,
Sultan Qaboos University*



Dr. Thomas Blanton

*Executive Director
International Center for
Diffraction Data, USA*



Prof. Christopher Brett

President of IUPAC



Prof. Mohamed Kheireddine

*Head of the Centre for
CCDCU at Sunway University*



Dr. George Manos

*Professor,
Dept of Chemical Engineering
at University of College
London*



Mrs. Julia Hicks

*Director of Blue H2 & CCUS
Task Force, Air Products*



Prof. Martin Tangney OBE

*Founder and President of
Celtic Renewables*



Prof. Abdulazim MJ Marafi

*Senior Researcher Scientist,
Kuwait Institute for
Scientific Research*

PRE-CONFERENCE TECHNICAL COURSES

1.	Best practices for handling safety management system in modernized laboratories	Dr. Jerry Gordon <i>The Laboratory Safety Institute (LSI), USA</i>	
2.	Chromatography in petroleum industry	Dr. Hassan Al-Rabiah <i>KISR, Kuwait</i>	
3.	Interpretation of ISO/IEC 17025:2017 and best practices of implementation	Mr. Alok Jain <i>Director - QCI, India</i>	
4.	Role of artificial intelligence in oil industry	Dr. Mohammad Faisal <i>Assistant professor & Head of Center of AI & Robotics (CAIR), Kuwait College of Science and Technology (KCST), Kuwait</i>	
5.	Role of NMR in chemical and oil industry	Dr. Abou Hamad <i>King Abdullah University of Science and Technology, KSA</i>	

EMPOWERING WOMEN IN SCIENCE

EMPOWERING WOMEN IN SCIENCE



15 Nov
2022



Gulf Hotel
Kingdom of Bahrain

**LISTEN TO THE
SUCCESS STORIES OF GCC WOMEN**



Prof. Adah Al-Mutairi
Assoc. Prof. Skaggs School of
Pharmacy and Pharmaceutical
Sciences



Reem Al-Ghanim
Corporate Advisor to President and CEO
SATORP



Dr. Fotouh Al-Ragom
Energy Efficiency Program Manager
Kuwait Institute for Scientific
Research (KISR)



Rania Moualla
Founder and Chairman, ZADK
(The Saudi Culinary Academy, KSA)



Dr. Jehad Jabr Al-Busaidi
Member of the advisory Board,
Sultan Qaboos University



Dr. Lulwa Budalamah
Consultant at Ministry of Information
Affairs, Manama, Capital Governorate,
Bahrain

WomenCan

CONFERENCE TECHNICAL PROGRAM

Nov. 15, 2022 - 1st Day of Conference - 9:00 to 10:30 am

Conference Inauguration – Executive Keynote Speakers



H.E. Dr. Mohamed Bin Mubarak Bin Daina

Minister of Oil & Environment
Special Envoy for Climate Affairs
Kingdom of Bahrain



Mr. Ahmad O. Al-Khowaiter

Chief Technology Officer
Saudi Aramco
Kingdom of Saudi Arabia



Prof. Angela K. Wilson

ACS President
USA



Prof. Adah Almutairi

University of California,
San Diego (UCSD),
USA

Room A (All Participants)

Exhibition/Coffee Break - 10:30 to 11:00 am

Nov. 15, 2022 - 1st Day of Conference - 11:00 to 12:40 am

Morning - Keynote Speakers	
Time	Room A (All Participants)
11:00 am	<p>Prof. Omar M. Yaghi University of California, Berkeley, USA</p> <p><i>Presentation:</i> <i>Applications of Frontier Research and Technology in the Design and Synthesis of New Innovative Materials to Industry.</i></p>
11:20 am	<p>Dr. Gerard de Nazelle Head of Technology at R&DC, Saudi Aramco, Saudi Arabia</p> <p><i>Presentation:</i> <i>Frontier Research and Technology at R&DC, Saudi Aramco.</i></p>
11:40 am	<p>Prof. Ghassan Saed Director Cancer Research of OB/GYN and Karmanos Cancer Institute, Detroit, MI, USA</p> <p><i>Presentation:</i> <i>Frontier Research and Technology in Gynecologic Oncology at Karmanos Cancer Institute.</i></p>
12:00 pm	<p>Prof. Ahmed Al-Harrasi Professor of organic chemistry and the vice chancellor for graduate studies, research and external relations at the University of Nizwa, Sultanate of Oman</p> <p><i>Presentation:</i> <i>Metal-free Practical Synthesis of Novel Heterocycles.</i></p>
12:20 pm	<p>Mrs. Julia Hicks Director of Blue H₂ & CCUS Task Force</p> <p><i>Presentation:</i> <i>The role of H₂ in the energy transition.</i></p>
Prayer and Lunch - 12:40 to 1:30 pm	
Afternoon	

Time	Room A	Room B	Room C	Room D	Room E
	Women Empowerment Eman Sharba Aisha Wuhaib	Materials Synthesis Mohammad N. Siddiqui	Catalysis Aisha Alsaleh	Carbon Management Hind Al Johani	Green Energy Saeed Y. Alshahrani
1:30 pm	Picture a Chemist Prof. Adah Almutairi <i>University of California, San Diego (UCSD), USA</i>	(6303) Dehydrogenation of Formic Acid Mediated By A Phosphorus–Nitrogen Pn3p–Manganese Pincer Complex: Catalytic Performance And Mechanistic Insights, Indranil Dutta <i>KAUST, Saudi Arabia</i>	(5062) Hydrogen Production from Liquid Hydrocarbon Fuels via Thermo-neutral Reforming (TNR) with Multicomponent Catalyst, Shakeel Ahmed <i>KFUPM, Saudi Arabia</i>	(5707) The Insignificant Role of Dry Reforming of Methane in the CO ₂ Emission Relief, Rajesh Kumar <i>KAUST, Saudi Arabia</i>	(5731) 2D-Based Composite as a Positive Electrode in Supercapacitors Application, Edreese Alsharaeh, <i>Alfaisal University, Saudi Arabia</i>
1:50 pm	Overcoming Challenges and Seizing Opportunities, Do It Smarter Not Harder, Dr. Fotouh Al Raqam <i>Kuwait Institute for Scientific Research, Kuwait</i>	(5368) Stimuli Responsive Nano-agents: From Drug Delivery to Upstream Oil and Gas Applications, Afnan Mashat <i>Saudi Aramco, Saudi Arabia</i>	(4480) Synthesis, Purity, Crystallinity and Si/Al Molar of the In-House Zeolite-Y Catalysts by XRD Data and Rietveld Method, Husin Sitepu <i>Saudi Aramco, Saudi Arabia</i>	(5004) Ammonia Decomposition and Hydrogen Separation Using Membrane Reactors Zainab Alismail <i>Saudi Aramco, Saudi Arabia</i>	(6180) Enhanced Energy Storage Using Cobalt-Polyaniline Hybrid Assembly: Influence of Electropolymerization Protocols Abdul-Rahman Al-Betar <i>KFUPM, Saudi Arabia</i>
2:10 pm	Leadership, Innovation and Community Services, and Behind the Scenes Rania Moualla <i>Saudi Culinary Academy, Saudi Arabia</i>	(6276) A black absorber from Cu(I)-based complexes, Ruaa Almotawa <i>University of Hafr Al Batin, Saudi Arabia</i>	(5644) Au ₉ – Nanoclusters Photocatalysis Deposited on Titania Surfaces Hassan S. Alqahtani <i>Saudi Aramco, Saudi Arabia</i>	(6094) Advanced Analyses of Amine Solutions in Support of Amine Gas Sweetening Process Layla A. Al Ibrahim <i>Saudi Aramco, Saudi Arabia</i>	(3887) IGCC Soot Ash Recovery Unit in Jazan Complex Osama Alardani <i>Saudi Aramco, Saudi Arabia</i>
2:30 pm	The Transit Dr. Jehad Jabr Al Busaidi <i>Ministry of Commerce, Sultanate of Oman</i>	(5067) Smart Organic Crystals Panche Naumov, <i>UAE</i>	(6294) Materials for Environment and Wastewater Purification Ali Alkenani <i>SABIC, Saudi Arabia</i>	(6199) Preliminary Assessment on Carbon Capturing for Sustainability (CSS) Khaleel Awadh <i>KISR, Kuwait</i>	(6210) Advancement on Hydrogen Fuel Cell Technology Dalal Ali <i>KISR, Kuwait</i>
2:50 pm	What we Defined below, GCC Women Success in Leadership Reem Al-Ghanim <i>SATORP, Saudi Arabia</i>	Poster Session and Coffee Break - 2:50 – 3:40 pm			
3:10 pm	Empowering Bahraini women in the media Dr. Lulwa Bu Dellamah <i>Kingdom of Bahrain</i>				
Afternoon					

Nov. 15, 2022 - 1st Day of Conference - 3:30 to 5:30 pm

Time	Room A	Room B	Room C	Room D	Room E
	Competition for Prof. Omar Yaghi's Award Taha Okasha	Materials Synthesis Husin Sitepu	Catalysis Shakeel Ahmed	Materials Characterization N. Prakash	Green Energy Saeed Al-Sharani
3:40 pm	(6155) Correlation between of the Structural and Texture Refinement of Nano-Sized ZSM-5 Zeolite and Plastic Waste Pyrolysis to Produce High Quality Carbon Rasha A. Alghamdi University College London, U.K.	(6281) Sequence-controlled polymerization of Acrylamide monomers via RDRP technique Fehaid Alsubaie KAUST, Saudi Arabia	(3872) Development of Bismuth (Oxy)Sulfide Based Materials for Photocatalytic Applications Amal Ali BaQais Princess Nourah bint Abdulrahman University, Saudi Arabia	(6301) The impact of the deposition pressure in depositing cadmium telluride thin films on ultra-thin glass substrate via Close Spaced Sublimation (CSS) Zeid Alothman KSU, Saudi Arabia	(5687) An Innovative Downhole Energy Harvesting System Muhammad Arsalan Saudi Aramco, Saudi Arabia
4:00 pm	(6307) Design and Fabrication of Zn Intercalated Nanocomposite-based Cathode for Prolonged Cyclic Stability Rechargeable Aqueous Zinc Ion Batteries Sarah Asiri, Imam Abdulrahman Bin Faisal University, Saudi Arabia	(5063) Nano-Co ₃ O ₄ for Electrocatalytic Water Oxidation Abdul-Rahman Al-Betar KFUPM, Saudi Arabia	(6401) Highly Efficient Ruthenium-Catalyzed Reductive N-Formylation of Amines: Utilization of CO ₂ as C1 Building Block Mohammad M. Rahman KAUST, Saudi Arabia	(6403) Microbial and Phase Compositional Determination of Deposits from Refineries to Investigate the Root Causes Failure Analysis Husam Khanfar Saudi Aramco, Saudi Arabia	(5691) The Potential and Challenges of Using Solar and Wind Energy for Oil and Gas Production Operations and Applications Saeed Abubaker Saudi Aramco, Saudi Arabia
4:20 pm	(6120) Introducing Cantellation Strategy for the Design of Mesoporous Zeolite-like Metal-Organic Frameworks: Zr-sod-ZMOFs as a Case Study Norah Alsadun KAUST, Saudi Arabia	(4544) Copper-based Hydrogels with Dicarboxylate Spacer Ligands for Selective Carbon Dioxide Separation Mona Al Dossary Saudi Aramco, Saudi Arabia	(4053) Effect of Zeolite Y Modification on Reaction Performance of Crude Oil Hydrocracking Lianhui Ding SABIC, Saudi Arabia	(4450) Determination of Iron Corrosion products by SEM backscattered detector Awad Al-Malki Saudi Aramco, Saudi Arabia	(5751) Photocatalytic Reforming of Lignin for Production of H ₂ and Value-added Chemicals Meshal Aljohani United Kingdom of Britain, Northern Ireland
4:40 pm	(4319) Novel Bifunctional, Trimetallic Cu _x Zn _y VO ₄ Microarchitectures for Solar-Driven Water Splitting and Wastewater Remediation Muhammad Ashraf KAUST, Saudi Arabia	(6297) Development of Affordable localized-engineered cementitious composites for Building and Construction (AL-ECC), Georgios Zapsas, Saudi Aramco, Saudi Arabia	(5017) Speciation analysis of Chromium in catalyst samples' Ganesh Bhat SABIC, Saudi Arabia	(6405) Challenges and improvements for an accurate mercury analysis in the oil and gas industry Samuel Jali Saudi Aramco, Saudi Arabia	(3890) App Design -Detection of the Scale in Oil Industry Pipelines using γ Mobile System Shaker Ebrahim KISR, Kuwait
5:00 pm	(5010) Preparation of Low-Cost Metal Oxide Nanoparticle Modified Carbon Electrodes for Enhanced Oxygen Evolution Reaction Mohammed Qasem KFUPM, Saudi Arabia				
5:45 to 7 pm - Recognition of Professor Yagi best graduate students, Women Empowerment and Meeting with President of ACS Society					

Morning - Keynote Speakers

08:00-08:20 am	<p>Prof. Christopher Brett President of IUPAC & University of Coimbra, Portugal</p> <p><i>Presentation:</i> <i>Applications of Frontier Research and Technology in Electroanalysis and Corrosion to Industry.</i></p>
8:20 to 8:40 am	<p>Dr. Thomas Blanton Executive Director of ICDD & Principal Scientist, USA</p> <p><i>Presentation:</i> <i>Frontier Research and Technology: Database Driven Materials Characterization and Discovery Using Powder Diffraction and Physical Properties Databases.</i></p>
8:40 to 9:00 am	<p>Prof. George Manos University of College London, U.K.</p> <p><i>Presentation:</i> <i>Frontier Research and Technology in Polymer Recycling Methods Pyrolysis of Plastic Waste to Gas and Liquid Products.</i></p>
9:00 to 9:20 pm	<p>Prof. Kuo-Wei Huang KAUST, Saudi Arabia</p> <p><i>Presentation:</i> <i>Frontier Research in CO₂ Utilization and Hydrogen Storage.</i></p>
Coffee Break - 9:20 to 9:30 am	
Afternoon	

Nov. 16, 2022 - 2nd Day of Conference - 9:30 am to 12:40 pm

Time	Room A	Room B	Room C	Room D
	<p>Fourth Industrial Revolution</p> <p>Hind Al Johani</p>	<p>Green Chemistry</p> <p>Hicham El Hajj</p>	<p>Water Purification and Waste Management</p> <p>Anaam Alshaikh</p>	<p>Advanced Laboratory Methodologies</p> <p>Umare Prashant</p>
9:30 am	<p>(5683) Design, Development, and Validation of the World's First Autonomous Downhole Robot for Production Logging Operations Abubaker Saeed Saudi Aramco, Saudi Arabia</p>	<p>(6195) Drinking Water Chemistry of Residential Houses in Kuwait Huda Aljabli, KISR, Kuwait</p>	<p>(6185) Synthesis of Flash Graphene from Plastic Waste Wala Algozeeb Saudi Aramco, Saudi Arabia</p>	<p>(4492) Advanced Molecular Characterization of Vacuum Gas Oil (VGO) Using Comprehensive Two-Dimensional Gas Chromatography Frederick Adam Saudi Aramco, Saudi Arabia</p>

Time	Room A	Room B	Room C	Room D
9:50 am	(3857) Arabian Gulf Seawater Profile at Qurryah Sea Water Plant Yahya AL Oudah <i>Saudi Aramco, Saudi Arabia</i>	(6268) A Preliminary Investigation on Mitigation of Asphaltene Precipitation Amir Al Hajri, <i>KISR, Kuwait</i>	(6188) Utilization of both Agricultural and Plastic Wastes for Packaging Applications Basheer Alshammari, <i>KACST, Saudi Arabia</i>	(4494) Data Stitching for Micro Crude Assays. Part III: Heavy Ends Hendrik Muller, <i>Saudi Aramco, Saudi Arabia</i>
10:10 am	(4548) Machine Learning Techniques for Faster Data Handling in an Analytical Lab Matteo Leoni <i>Saudi Aramco, Saudi Arabia</i>	(5702) Studies on Investigation of Thermal and Thermo-Oxidative Effect on Bisphenol A Polycarbonate (BPA PC) and Additive System Abbas Alli Shaikh <i>SABIC, Saudi Arabia</i>	(4953) Efficient Nanomaterials for Oil Removal: Toward Produced Water and Wastewater Purification Norah Aljurryyed <i>Saudi Aramco, Saudi Arabia</i>	(5654) Characterization of Sludge Deposits in Sour Gas Pipelines and Mitigation Plan to Minimize Black Powder Formation and Pipeline Blockage Qurban Ali <i>Saudi Aramco, Saudi Arabia</i>
10:30 am	(6306) Applying Quantitative Structure Property Relationships (QSPR) to predict Hot and Cold Properties of Middle Distillate fuels Khalaf H. Baqawi <i>SATORP, Saudi Arabia</i>	(3544) Innovative Technique to Determine the Dissolved Acid Gases Concentrations in Water Injection Pipeline System Using Gas Chromatography Analyzer Mohamed Mahmoud <i>Saudi Aramco, Saudi Arabia</i>	(5743) Advanced Laboratory Methodology to Evaluate Friction Reducer for Slick Water Unconventional Fracturing Prasad Karadkar <i>Saudi Aramco, Saudi Arabia</i>	(4898) Root Causes Analysis for Preliminary Failure and Deposit Material Ibrahim M. Al-Zahrani <i>Saudi Aramco, Saudi Arabia</i>
10:50 am	(6404) Case study for quick measurement of oil in produced water using laser induced fluorescens based technology Mohamad A. Sharedah <i>Saudi Aramco, Saudi Arabia</i>	(6187) Light-Matter Interactions Through the Prism of Smart Probes, Liquid Crystals, Silver Nanoparticles and Beyond Sulayman Oladepo <i>KFUPM, Saudi Arabia</i>	(5674) Evaluation of Foamed Gel for Conformance Control in High Temperature High Salinity Reservoirs Layla Al-Maskeen <i>Saudi Aramco, Saudi Arabia</i>	(4952) GCMS-SIM a Powerful Tool for Low-Level Quantification in Complex Hydrocarbon Mixture Asraf Ali <i>SABIC, Saudi Arabia</i>
Break 11:10 – 11:40 a.m.				
11:40 am	(5682) Artificial Intelligence for Predicting Multiphase Flow Muhammad Arsalan <i>Saudi Aramco, Saudi Arabia</i>	(4487) Comparison of MP AES and ICP-AES for the Elemental Analysis of Formation Water Najeeb Boohassan <i>Saudi Aramco, Saudi Arabia</i>	(5124) Synthesis and Modification of Mesoporous Carbon Surface for the Quick Removal of Metal Ions Mohammad Nahid Siddiqui <i>KFUPM, Saudi Arabia</i>	(4370) Gas-Oil Characterization Using Multidimensional Gas Chromatography, a Tool to Improve the Refining Processes Hassan Al-Rabiah <i>KISR, Kuwait</i>
12:00 am	(5400) Development of Materials for Additive Manufacturing Abdul Rahim Arafath <i>SABIC, Saudi Arabia</i>	(4344) Toxicity Assessment of Drilling Fluid for Safe Disposal Ullattumpoyi, Nasir <i>Saudi Aramco, Saudi Arabia</i>	(6207) Enhance the Rolling Resistance of Natural Rubber via Silicone Chemistry Reagent and Study its Rheological Properties Moneer Alenezi <i>KISR, Kuwait</i>	(5051) Combining Gel Permeation Chromatography and FT-ICR MS for Crude Oil In-Depth Characterization Nadrah Alawani <i>Saudi Aramco, Saudi Arabia</i>
12:20 am	(4482) Machine Learning to Predict Boiler Blow Down pH Rami Rajab <i>Saudi Aramco, Saudi Arabia</i>	(6402) Synthesis of Nano Materials Using Green Laser-based Method and Their Applications in Renewable Energy Harvesting, Energy Storage Mohammed A Gondal, <i>KFUPM, Saudi Arabia</i>	(6300) Degradation of Ammonia in Aqueous Solution Using a Pilot-Scale Advanced Fenton-Based Electrochemical Oxidation Unit Bassam Tawabini, <i>KFUPM, Saudi Arabia</i>	(5195) Application of Gas Chromatography-VUV for the Composition Analysis of Complex Sample Matrices in Refinery & Petrochemical Industries Santhana Kumar Annamalai <i>Saudi Aramco, Saudi Arabia</i>
Prayer and Lunch - 12:40 to 1:40 pm				
Afternoon				

Time	Room A	Room B	Room C	Room D	
	Laboratory Operation Excellence Nada Al Ghamdi	Industrial Chemistry- Upstream Applications Taha Okasha	Industrial Chemistry -- Petroleum Products Saeed H. Al-Shahrani	Advanced Laboratory Methodologies Hassan Al-Rabiah	Chemathon Competition Basheer Chanbasha
1:40 pm	(4116) Understanding of CTQs for Cast PP/BOPP Laminates Visvanathan Balasaravanan SABIC, Saudi Arabia	(4323) Rheology, Stability, and Adsorption of Two Amphoteric Foaming Agents for CO2 Mobility Control Applications Under Reservoir Conditions Zuhair AlYousef Saudi Aramco, Saudi Arabia	(5622) Enhancement of Heavy Oil Production Using Viscosity Reducers Ming Han Saudi Aramco, Saudi Arabia	(5725) GLP to determine Total Halogen, Sulfur and Nitrogen in LPG Samples by CIC Ahmed Abo Forn SABIC, Saudi Arabia	10 Team
2:00 pm	(4900) Dynamic Adaptive Samples Schedule Using Periodic Statistical Evaluation Mohammed Alghazal Saudi Aramco, Saudi Arabia	(4905) Fracture Cleanup Determination by Guar Measurement of Flowback Fluid Samples Hicham El Hajj Halliburton, Saudi Arabia	(4994) Produced Water: A Review on Characteristics, Challenges and Reuse Opportunities within Oil Field Operations Mustafa Alkhowaildi Saudi Aramco, Saudi Arabia	(6295) Ethylene Furnace Antifoulant Chemistry Helps Extend Two Separate Furnace Runs in the Middle East Marcelo Cordoba Halliburton, Saudi Arabia	
2:20 pm	(6310) YASREF Laboratory: Excellence-Based Performance Ibrahim S. Shabaani YASREF, Saudi Arabia	(5068) Direct Analysis of Formation of Asphaltene Scale in Oil Reservoirs Panche Naumov New York University, UAE	(6090) Supporting Energy-Efficient Chemical Operations through Nano-Enabled, Enhanced Performance Ross Tomsono ChampionX, USA	(4099) Characterization and Root-Cause Determination of Inorganic Deposits Qiwei Wang Saudi Aramco, Saudi Arabia	
2:40 pm	(4865) ISO/IEC17025: 2017: transition from prescriptive to performance-based requirement Umari Prashant Saudi Aramco, Saudi Arabia	(5639) Analytical Method in Extracting Sulfur Species from Petroleum Source Rock: Implication for Identifying Sweet Spot in Unconventional Reservoirs Mohammad Alrowaie, Saudi Aramco, Saudi Arabia	(5746) Test methods to determine the effect of diesel contamination on gasoline distillation properties Zainab Saihati Saudi Aramco, Saudi Arabia	(4261) A Novel Approach to Monitor Proppant Consolidation during Hydraulic Fracturing with Dynamic Measurement: Experimental Study Mohammad H. Alqam Saudi Aramco, Saudi Arabia	
Poster Session and Coffee Break - 3:00 to 3:30 pm					
Afternoon					

Nov. 16, 2022 - 2nd Day of Conference - 3:30 to 4:30 pm

Time	Room A	Room B	Room C	Room D	
	Laboratory Operation Excellence Nada Al Ghamdi	Industrial Chemistry- Upstream Applications Taha Okasha	Industrial Chemistry - Petroleum Products Saeed H. Al-Shahrani	Advanced Laboratory Methodologies Umare Prashant	Chemathon Competition Basheer Chanbasha
3:30 pm	(6408) Validation and Verification of Analytical Data in Testing Laboratories Mohammad Alrabeh	(4113) Saudi Sand Strengthening with Local Chemicals as Hydraulic Fracturing Proppants Wengang Li Saudi Aramco, Saudi Arabia	(5234) Statistical Quality Control Based on ASTM D6299 Using Labware®7 LIMS Platform Saeed Syed Saudi Aramco, Saudi Arabia	(4311) Novel In-Situ Characterization of Rock-Fluid Interfaces Using Transmission Electron Microscopy Dongkyu Cha Saudi Aramco, Saudi Arabia	10 Team
3:50 pm		(3855) Chemical Approach for Fluid Identification from Oil & Gas Well Exploration Nasir Ullattumpoyil Saudi Aramco, Saudi Arabia	(6198) Fossil Fuel an Energy Source: Past, Present, and Future Abdulazim Marafi KISR, Kuwait		
7:00 to 9:00 pm - Recognition of CHEMATHON Winners and Gala Dinner					

PANEL DISCUSSION

Nov. 17, 2022 - 3rd Day of Conference

Role of Chemistry in Sustainable for Oil and Petrochemical Industries

Moderator: **Dr. Gerard de Nazelle**

08:00-10:00 am

Prof. Abdulazim Marafi

Petroleum Research Center-PRC, Kuwait Institute for Scientific Research.

Presentation:

Recent Trends and Advances in Ultra-Clean Diesel Fuels Production via Unconventional Deep Desulfurization Processes.

Prof. Martin Tangney OBE

Founder and President of Celtic Renewables, Edinburgh Napier University, U.K.

Presentation:

Frontier Research in Microbial Biofuel Production – Biobutanol.

Prof. Reuben Jih-Ru Hwu

National Tsing Hua University, Taiwan.

Presentation:

The State-of-the-Art Large Research Facilities in Chemistry at the National Tsing Hua University.

Prof. Mohammed Kheireddine

Head of the Centre for CCDCU at Sunway University, Malaysia.

Presentation:

Carbon Dioxide Capture and Utilization Toward Zero Carbon.

Prof. Haider A. J. Al Lawati

Department of Chemistry, College of Science, Sultan Qaboos University, Sultanate of Oman.

Presentation:

MOF- Paper-Based Devices for the Detection of Various Analytes in Complex Matrices.

10:00-12:00 pm

Conference Closing

Prayer and Lunch - 12:00 to 2:00 pm

Afternoon

POSTER SESSION DAY 1 - NOV. 15, 2022

Poster #	Title	Author
4946	Removal of Heavy Metals and Different Kinds of Anions from the Natural Water Through Graphene Nanostructured Materials	Sarah Asiri
5573	Monoethylene Glycol Degradation, Mechanisms of Salt Seeding and Precipitation	Anaam Al-ShaikhAli
5686	Development and First Worldwide Field Deployment of Slim Hydraulically Powered Coiled Tubing Live Logging Tractor	Abubaker Saeed
5691	The Potential and Challenges of Using Solar and Wind Energy for Oil and Gas Production Operations and Applications	Abubaker Saeed
6096	Lab Case Study of Quantitative Phase Analysis of X-Ray Powder Diffraction Data of Sludge Deposits from Cooling Tower Basins	Layla Al Ibrahim
5642	Single step preparation of nanoparticles using laser ablation technique	Hassan Alqahtani
6302	Kinetic and equilibrium investigations for adsorption of benzothiophene onto modified carbon	Zeid Alothman
3863	Hexagonal boron nitride/ graphene composite and its application as electrode material in asymmetric supercapacitor application	Edreese Alsharaeh
3891	Development graphical user interface (GUI) - App Designer for Tank Level detection using Nuclear Techniques in MATLAB	Shaker Ebrahim
4856	Synthesis and Characterization of Bimetallic Metal Organic Frameworks Encapsulating Bimetallic Nanoparticles based Electrocatalysts for Water Splitting	Asma Alothman
6296	Exceptional Acetylene and Carbon Dioxide Adsorption within a Tetra-amide Functionalized Metal-Organic Framework	Nada AlSmail
3835	Replacing the XRF existing open loop Water-Cooled Type Chillers by closed loop Air-Cooled Type Chillers	Salem Alkabibah
4254	New laboratory study of A Novel Nano-silica for Unwanted Water Production	Ayman Almohsin
4491	The Utility of HLD/NAC to Guide Surfactant Selection and Design	Mohanad Fahmi
4496	Synthesis and Characterization of Copper Oxide Nanoparticle from Copper Based-Metal Organic Framework	Eshteyag I. Alzhrani
4498	Solvent Effects on $[\text{Co}(\text{NH}_3)_5\text{Br}](\text{ClO}_4)_2$ complex in mixed aqueous solvent	Munirah Albaqami
4499	Data Stitching for Micro Crude Assays. Part I: Light Ends	Radwan Bakor
4531	Procedure for Analyzing Oily Rock Fragments	Salem Hazzazi
4536	Thermal Decomposition of -Irradiated and Un-irradiated Single-Molecule Precursor Forming Copper Oxide Nanoparticles	Noura S. Alsubaie
4537	Synthesis and Structural Investigation of New 4H-Pyran Derivative Using Ketoester	Zainab Almarhoon

POSTER SESSION DAY 1 *(Continues...)*

Poster #	Title	Author
4538	Synthesis and Structural Investigation of New Thiazoline-2-thione Derivatives Using Ketoester	Rana S. Al Khulaifi
4558	The change of sulfate concentration in produced water in Khurais area	Abdulaziz AlSubaie
5226	Evaluation of two different oxidation methodologies for the analysis of Total Organic Carbon in sea water samples	N. Prakash
6208	Ex Vivo Analysis of Bio Adhesive Dressings for Tissue Sealant Applications	Mohammad AlObaid
4312	Time Required To Preserve Residual Sulfite At Sea Water Treatment Plant	Osamah AlShurafa
5533	SASREF Quality Assurance Lab Control Management Systems	Abraham David
5623	The role of the modern electrocoagulation method in filed of petrochemical for wastewater treatment	Emad Alobiadoon
5681	Heterogeneous Immobilized PN3P Pincer Iridium Complex Catalyzed Dehydrogenation of Formic Acid (HCOOH)	Lujain Alrais
6099	Chemistries to Improve the Effectiveness and Sustainability of Produced Water Reinjection (PWRI)	Clare Johnston
6406	Improve Green Hydrogen Production by Water-Splitting Utilizing Enhanced Modified Nickel Foam Electrocatalyst	Asma Alghamdi
6309	Corrosion coupon cleaning by electric treatment	Turki AlSubaie
6416	Crude Oil Corrosivity Assessment	Talal Al-Ghamdi
6127	Increasing and Sustaining Gas Production in an Aging Field through Chemical Applications	Kevin Spicka
6409	Green Synthesis of Platinum Nanoparticles Using Saudi's Dates Extract and their Usage on The Cancer Cell Treatment	Najlaa S. Al-Radadi
6410	Platinum Nanoparticles Using Anbara Fruit Extract: Green Biosynthesis and Study Their Hepatoprotective effect against carbon tetra chloride (CCL4) hepatotoxicity in Wistar rats	Najlaa S. Al-Radadi
6411	Green synthesis of Gold nanoparticles with Flaxseed as potent anticancer agent induce death beast cancer cells	Najlaa S. Al-Radadi

POSTER SESSION DAY 2 - NOV. 16, 2022

Poster #	Title	Author
4313	Quantitative Phase Analysis of Sludge Deposits from the Affected Equipment in Refineries and Gas Plants by Use of XRD Data and the Rietveld Method	Husin Sitepu
4322	Evaluation of Organically Crosslinked Polymer Gels for Conformance Application in Harsh Reservoir Conditions	Jinxun Wang
4326	Enhancing Foam Stability Through A Combination of Surfactant and Nanoparticles	Majed Almubarak
4440	Thickened CO ₂ for Waterless Fracturing Applications	Majed Almubarak
4330	Functionalized Nano-Platelet Based Novel Resin Emulsion Nanocomposites for Material Strength Enhancement in Proppant Fracturing Applications	Rajendra Kalgaonkar
4344	Toxicity Assessment of Drilling Fluid for Safe Disposal	Nasir Ullattumpoyil
4407	Advancement in the Analysis of Aromatic Hydrocarbons and Sulfur Heterocycles in Petroleum Samples using Liquid Chromatography and FT-ICR MS	Saroj K. Panda
4546	Advanced X-ray analytical techniques to support the development of innovative materials	Matteo Leoni
4903	Iron Sulfide Scale in sour wells, from causes to remediation	Hicham Hajj
4904	Novel systematic approach to Oil-field carbonate scale dissolution and characterization	Hicham Hajj
4949	Effective Adsorption Heavy Metals from wastewater by using polyamide - graphene (PAG)	Afnan Ajeebi
4962	Inhibition of Concentrated HCl Acid Solutions Used in Matrix Acidizing Treatments Using Synthesized Amine-based Corrosion Inhibitors	Ali Al-Taq
4983	From Lab-to-Field: Successful Deployment of a Novel Retarded Acid System for Deep-Reservoir Stimulation of Carbonate Reservoirs	Eyad Alali
4998	Enhance Productivity for Shale Gas Reservoirs: Increasing SRV Using Thermochemical Treatment	Ayman Alnakhli
5015	Big Data Role in Determination Arabian Gulf Seawater Quality	Yahya Al Oudah
6110	Well-defined Linear Amphiphilic Diblock Copolymers of 2-Ethyl-2-Oxazoline and Vinylidene Fluoride; Synthesis and Characterization	Norah Aljeaban
6112	Acid Corrosion Inhibition Using Graphene Oxide Based Nanomaterial	Bader Alharbi
6103	Aromatic Compounds Variations with Thermal Maturity in Crude Oils	Faisal Alissa

POSTER SESSION DAY 2 *(Continues...)*

Poster #	Title	Author
4109	Enhancement of Tetralin Hydrogenation over Supported Nickel Catalysts	Ahmed AlAsseel
6308	Determination of low-level of Arsenic in solid sulfur by hybride generation atomic absorption spectroscopy (HGAAS)	Sami Alharthi
4948	Continuous fixed bed CO ₂ capture using activated carbon: breakthrough, equilibrium, efficiency and mass transfer zone	Mohammed K. Al Mesfer
5727	Micro-Algae Biofuel Production Facility at SA/Seawater Injection	Saleh Enazi
4887	Reduced Polymer Loading Fracturing Fluid for Extreme Temperature Applications	Prasad Karadkar
6102	Root Cause Analysis of Filter Sludge Deposits in Natural Gas Liquid Recovery Unit - A lab Case Study	Nagu, Muthukumar
5789	Design and synthesis of organic semiconductor for photoacoustic imaging	Yasmin Choai
6407	Widening the scope of polyolefin's composites applications with the use of low-cost fillers	Kholod Alamoudi
5695	Crosslinked Siloxane/POSS Organic-inorganic Nanocomposite Membranes for Enhanced C ₃ + Heavy Hydrocarbon Recovery from Natural Gas	Abdulkarim Alsamah
6412	Facile one-step green synthesis of gold nanoparticles (AuNP) using Licorice root extract: antimicrobial and anticancer study against HepG2 cell line	Najlaa S. Al-Radadi
6413	Microwave Assisted Green Synthesis Fe@AU Core-Shell NPs Magnetic to Enhance Olive Oil efficiency on Eradication of Helicobacter Pylori	Najlaa S. Al-Radadi
6414	Biogenic Proficient Synthesis of (Au-NPs) via Aqueous Extract of Red Dragon Pulp and Seed Oil: Charecterization, Antioxidant, Cytotoxic properties, Anti-diabetic Anti-inflammatory, Anti-Alzheimer and their Anti-proliferative Potential against cancer Cell Lines	Najlaa S. Al-Radadi
6415	Ephedra mediated green synthesis of gold nanoparticles(AuNPs) and evaluation of its antioxidant, antipyretic, anti-asthmatic, and antimicrobial properties	Najlaa S. Al-Radadi

VALUED EXHIBITORS LIST

Booth #	Vendor Name	Location
1	Oil and Gas Holding Company	D1
2	Saudi Aramco	D2
3	Lab Ware Arabia	1
4	SGS Lab	2
5	FDS Co. Ltd.	3
6	Abdullah Hashim for Gases (AHG)	4
7	Initial Talents	5
8	Swagelok Saudi Arabia	6
9	SEDAR CHEMICALS	7
10	Arkema	8
11	Advanced Scintific Co.	9
12	Air Products	10
13	German Metal Services Co.	11
14	Naizak	12-15
15	IMSS	16-20
16	Dimond Spectrum	21-22
17	KURITA AQUACHEM	23
18	ACS	24
19	Analyticaone (Shimadzu)	25-27
20	LP Technology	28-30
21	Kalada Chemical Solution LLC	31,34
22	Kuwait Society	32
23	BAYOUNI	33
24	Technochem	35
25	Saudi Multichem	36
26	Methanol Chemicals Co.	37,38,40,41
27	Abdullatif H. Abuljadayel & Sons Co.	39,42
28	YASREF	43-49
29	PETROTECH	50-55



GCA 2022


The 2nd round of the "CHEMATHON" competition has begun

10 teams in the competition

HURRY UP!

*Register to attend the undergraduate
student research competitions*



 *at the Gulf Hotel,
Kingdom of Bahrain*

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THINGS YOU SHOULD KNOW

Key Dates

Pre-Conference Courses:

13th and 14th of November 2022

Conference Opening Ceremony:

November 15th, 2022 at 9:00 am

Conference and Exhibition:

November 15th to 17th, 2022

Official Venue

Gulf Hotel Convention Center,
Manama, Kingdom of Bahrain

Pre-Conference Courses

Access is strictly reserved to registered and pre-paid courses participants. Participants will be expected to arrive at the Venue between 7 am and 8 am for check in at the registration desk located at the Mezzanine Floor.

Conference Opening Ceremony

The ceremony, exclusively sponsored by Saudi Aramco, will start at 8:00 am on Tuesday November 15th at The Gulf Convention Center and will be followed by a luncheon. The recognition awards will be distributed before luncheon.

Conference Proceedings

All presentation abstracts are available in the USB drive inside the delegate's bag

Conference

Access to the conference sessions is strictly limited to registered delegates and speakers as well as sponsored students, press and media. Delegate badges should be worn at all times to avoid refusal of entry in any of the halls, conference sessions and luncheon areas. Participants to the conference will be able to collect their badges and bags at the registration desk located at the mezzanine floor.

Catering

Participants to the conference will be able to enjoy complimentary coffee breaks and luncheon during conference opening times in dedicated areas clearly indicated for the occasion.

Reception for delegate members will be on Nov. 15th at 19:00

Gala Dinner will be on Nov. 16th at 19:00

Conference Timings

November 15 - 17, 2022

Tuesday – Thursday, 8:00 – 17:30

Exhibition

Access to the GCA 2022 Exhibition is free of charge for visitors' registration

Exhibition Timings

November 15, Tuesday, 10:00 – 17:30

November 16, Wednesday, 8:30 – 17:30

November 17, Thursday, 8:30 – 13:00

Closing Ceremony

November 17th, 2022

Internet Area

Wi-Fi is provided free of charge

First Aid

Contact Hotel

Prayer Rooms

Prayer rooms are available:

For men located at the Basement

For women located at the Mezzanine floor

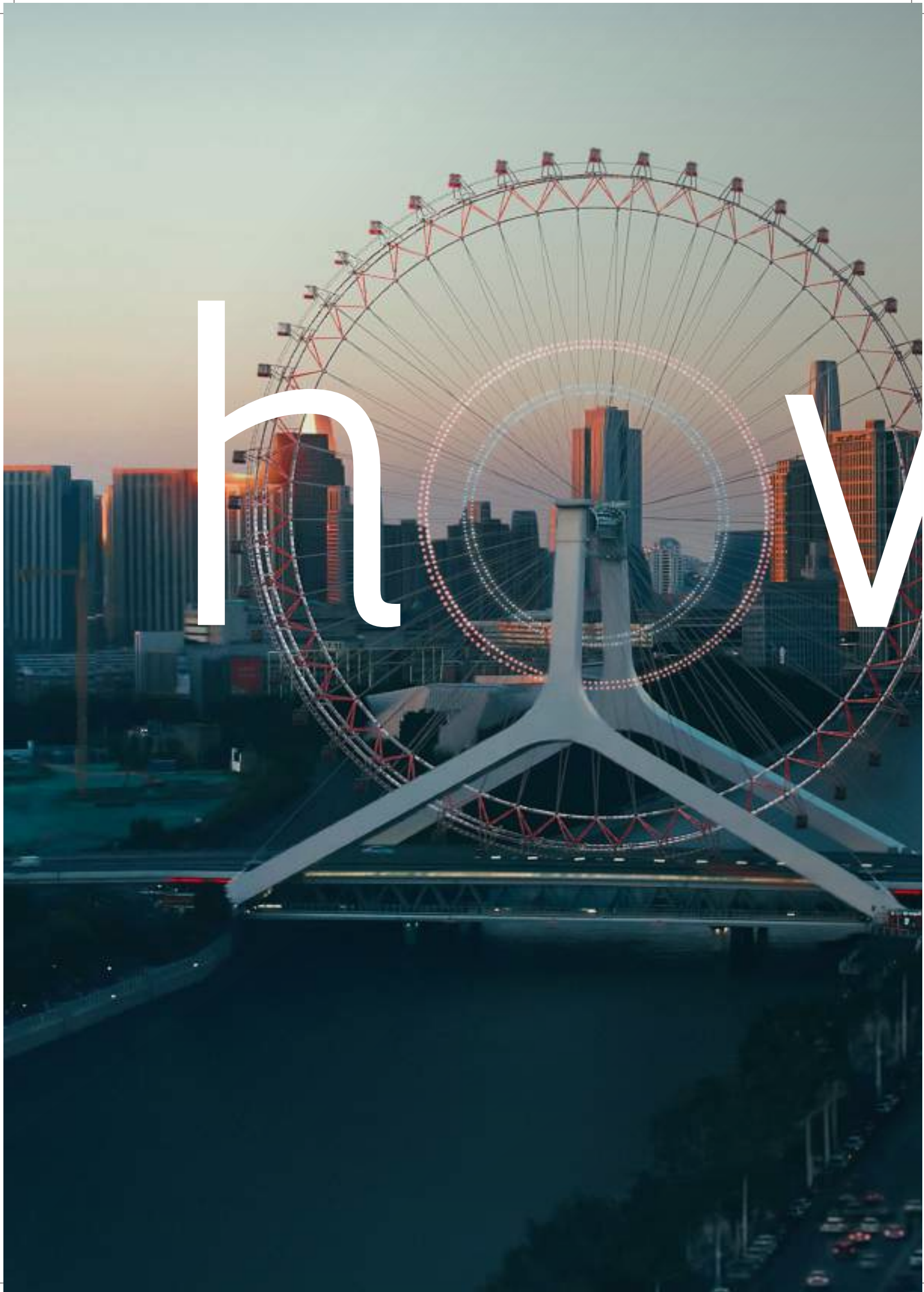


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* In the second quarter of 2022



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CHEMANOL is one of the most integrated and reliable global producers of methanol and derivatives; the company is the biggest producer of formaldehyde and derivatives in the GCC in which its products are actively consumed in all continents.

Our products can be used in several industries such as Chemicals, Oil & Gas, Electronics, Polyurethane, Agrochemical, Automotive, Pharmaceuticals, Detergents, Paint & Coating, Synthetic Rubber, Leather, Constructions, Mining, Explosives, Resins, Poultry, Wood, Water Treatment, etc.

Producing 1 million metric tons per year from 22 sophisticated plants. CHEMANOL has a variety of products for a wide range of industries to serve partners in over 75 countries in six continents, ensuring high standard of product quality and services to make our partners' experience unique.

With diversified products of more than 30 different grades of 15 products, CHEMANOL established a footprint in the global market and became a preferred supplier for a broad base of partners seeking reliable suppliers and premium products.

An extended diversity of products needs different level of technical capabilities; thus, CHEMANOL utilizes high technologies from well-known licensors to produce high quality chemical products that meet partners' needs, followed by efficient supply chain system that support managing the journey of products, in line with our commitment to provide excellent services.

To enhance excellent services; our team is professionally and technically skilled to work with partners side by side starting from selecting the right grade based on partners' final applications to the post-sales services which eventually makes our partner's experience beneficial.

CHEMANOL's presence is expanding widely by selling our diversified products to partners locally and globally driven by our geographical location that gives CHEMANOL a competitive advantage to reach partners in over 75 countries throughout the globe. Our market share is expanding by actively penetrating new markets, earning the trust of new partners every day.





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Yasref is a significant addition to the impressive downstream portfolio of Saudi Aramco, while building on and cementing the strategic partnership with Sinopec, Saudi Aramco's largest crude oil partner and buyer. Both companies bring commercial and technical expertise to the joint venture to enhance trade of transportation fuels between a significant energy producer and its consumer.

In addition, Yasref represents a continuing step forward in the strategies of Saudi Aramco and Sinopec to drive growth further downstream to capture additional value along the hydrocarbon chain.

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16,000	barrel per day (bpd) of Butane
5,000	barrel per day (bpd) of Propane
6,200	ton per day (TPD) of Petroleum Coke
1,200	ton per day (TPD) of Pelletized Sulfur
400	ton per day (TPD) of Benzene



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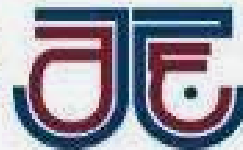
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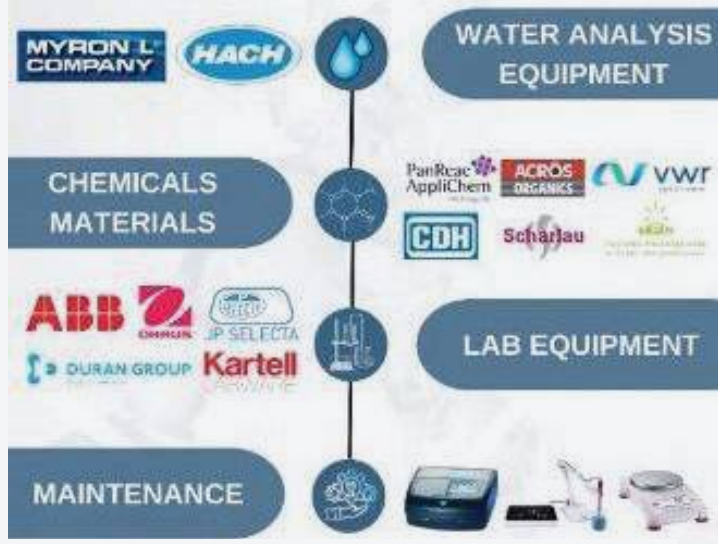
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Our Services



About us

Abdul Latif H. Abu Al Jadayel Company. Founded by Sheikh Abdul Latif Abu Al-Jadayel in 1984, began to acquire famous international brands (HACH) to measure water analysis in addition to organic & inorganic chemicals (Acros, Panreac & VWR), since then according to market requirements in Saudi Arabia, we provide all needs of chemicals, laboratory and water analysis solutions under the one roof

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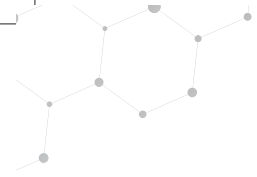




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