



**International
Downstream Conference
& Exhibition**

Under the patronage of His Royal Highness Prince Salman bin Hamad Al Khalifa,
Crown Prince and the Prime Minister of the Kingdom of Bahrain

GDA INTERNATIONAL DOWNSTREAM CONFERENCE & EXHIBITION

**13-15 February 2023
Exhibition World Bahrain**

**Theme:
Downstream Turning Points -
Capitalising on Transformation**

CONFERENCE PROGRAMME

gdaconference.com

Day 1 - Monday, 13 Feb 2023

07:00 - 10:00 **Registration**
📍 Registration Area

Sponsored by



10:00 - 10:30 **Welcome and Opening Remarks**
📍 Grand Ballroom

Speaker

Mohammad Al Shahrani Secretary General, Gulf Downstream Association (GDA)

10:30 - 11:30 **Panel Discussion: Business Transformation**
📍 Grand Ballroom

This panel will discuss novel ways of transforming the downstream business. This includes the application of new business strategies and business models, doing things in a new way, establishing new joint-ventures or business agreements, and adopting new approaches to achieve business goals. Shifting business focus, such as shifting from a volume driven business to a margin driven business, as well as dealing with an increasingly competitive environment are key elements of the discussion. The integration and utilization of existing assets in the transformative journey. What kind of approach should different levels within a downstream organization adopt to achieve this transformation? Has the current pandemic triggered a need for accelerated business transformation, or a time to consolidate? Success stories and case studies will be shared, especially of a case where a failing business has been transformed into a successful one using novel business strategies and approach.

Moderator

Naif Aldandeni Senior Director, Baker Hughes

Speakers

Yahya A. Abushal Sr. VP Upstream & Downstream Project Management, Aramco

Leon de Bruyn President and CEO, Lummus Technology

Ms. Afaf Zainalabedien Chief Financial Officer, BAPCO

Sultan Albigishi Acting Chief Executive Officer, ADNOC Refining

11:30 - 12:00 **Coffee Break**

Sponsored by



12:00 - 13:15 **Technical Sessions (Parallel Sessions)**

Sponsored by



Resilience Room A	Future Growth Room B	Decarbonisation and Sustainability Room C
<p>Moderator Jad Dib Partner, McKinsey & Co.</p> <hr/> <p><i>Placement of High Activity of Hydrotreating Catalysts is Key to Unlocking the Probability of Hydrocracking Unit Gross Margin</i></p> <p>Speaker Jay Parekh Hydrocracking Subject Matter Expert, ART Hydroprocessing</p> <hr/> <p><i>Bapco's Journey Towards Performance Excellence</i></p> <p>Speakers Husain Aldailami Senior Reliability Engineer, BAPCO Ricky Stewart Advisor, Solomon Insights</p> <hr/> <p><i>Mitigating Corrosion in Cooling Water Systems with High Chloride & Sulfate</i></p> <p>Speaker Amr Elsayed Corrosion Engineer, Aramco</p>	<p>Moderator Dr. Dawoud Bahzad Division Director - Science & Technology (S&T), Kuwait Institute for Scientific Research (KISR)</p> <hr/> <p><i>Plant of the Future: Planning the Journey</i></p> <p>Speaker Abdullah Albannay Digital Project Lead, Aramco</p> <hr/> <p><i>Alkylation Technology as an Answer to the C4 Management and Gasoline Pool Constraints</i></p> <p>Speaker Elodie Letourmy Lead Technologist, Axens</p> <hr/> <p><i>Crude C4 Alternatives for a Successful Grassroots Petrochemicals</i></p> <p>Speakers Abdullah Marri Lead Process Engineer, Aramco Mikhail Khvastunkov Engineering Specialist - Downstream Process Engineering Division, Aramco</p>	<p>Moderator Dr. Ranjit Kulkarni Global Director – Business Development, Honeywell UOP</p> <hr/> <p><i>Low carbon and fossil fuels: A story of sustainable co-existence?</i></p> <p>Speaker Dimitrios Orfanidis Division Head: Downstream Investment Analysis, Aramco</p> <hr/> <p><i>Decarbonising your asset: A stepwise evaluation of refiners' response options</i></p> <p>Speaker Gurminder Singh Director, Technology Licensing - MENA, Shell Catalysts & Technologies</p> <hr/> <p><i>Technology advancements in Energy Efficiency – Challenges, Solutions and Illustrations</i></p> <p>Speaker Amitkumar Khadayata Senior Engineer - Energy Management, ADNOC Refining</p>

12:00 - 13:15 **Expert Workshop**
Room D

Next Generation Project Delivery - Session 1: The Root Causes and Implications of Troubled Projects (by GDA Project Management Technical Committee)

The purpose of this session is to explore why the delivery of capital projects, including oil & gas especially downstream projects, is resulting in performance that is less than optimal, putting at risk the realization of business objectives of all stakeholders and shareholders involved. Furthermore, the session looks to provide evidence and quantification of the impact of poor performance to create a strong sense of urgency to drive action.

Moderator
Dr. Saadi Adra Founder and CEO, Advisors

Speakers
Mohammed Hammad Senior Vice President Training and Development, Project Management Institute - KSA
Ghassan H Soraihi Product Movements & Utilities Operations Division Head, Jazan Refinery Complex, Saudi Aramco
Adnan Nassereddine Director of Projects, Jacobs Zate
Fatima Al Zaabi Project Manager, ADNOC Refining
Nawaf A. Al-Ahmad Team Leader, Major Projects, Kuwait Integrated Petroleum Industries Company (KIPIC)

12:00 - 13:15 **Expert Workshop**
Room E

Evolution of Asset Integrity Management through Predictive Maintenance (by GDA Digitalisation Technical Committee)

The Expert Workshop is a session aimed at demonstrating the practical benefits of data analytics project implementations in the oil & gas industry. Bapco's representatives will collaborate with SMEs from Aspen Technology Inc. to illustrate how the abundance of data in Bapco was leveraged to provide greater insight into Asset Integrity Management. This is instrumental in the journey from traditional maintenance methodologies towards the aim of true predictive maintenance. The analysis was performed through machine learning and big data analytics. The team will present the project management and execution methodology as well as the practical benefits of the solution.

- Introduction about OT digitalization initiatives including predictive maintenance by Bapco
- Asset selection methodology by Bapco
- Model development & implementation by AspenTech
- Performance evaluation by Bapco
- Q&A session

Moderator

Abdulrahim Mohammed Data Analytics Engineer, BAPCO

Speakers

Mohamed Alaradi Principal Consultant Engineer, AspenTech

Vinayak Parmar Rotating Equipment Engineer IMI, BAPCO

13:15 - 14:30

Lunch

📍 Exhibition Hall

Sponsored by



14:30 - 15:45

Technical Sessions (Parallel Sessions)

Sponsored by



Resilience 📍 Room A	Future Growth 📍 Room B	Decarbonisation and Sustainability 📍 Room C
<p>Moderator Harbeyah Al-Enezi Process Engineer, Kuwait National Petroleum Company (KNPC)</p>	<p>Moderator Emad A. Muhaisen Division Head, Jazan Economic City Development Department, Aramco</p>	<p>Moderator Dr. Hayat Abdulla Yusuf Assistant Professor and PCAP Program Coordinator, University of Bahrain</p>
<p><i>Bapco's No.5 Crude Distillation Unit (5CDU) Fired Heater Replacement Project - A Success Story</i></p> <p>Speaker Abdulla Al Bin Ali Process Engineer, BAPCO</p>	<p><i>Oil Downstream Outlook and strategies</i></p> <p>Speaker Dr. Ahmad Al Qattan Market Intelligence, Kuwait Petroleum International Ltd</p>	<p><i>Improving Refinery Amine Operations and Profitability through Veolia Total Amine Solution</i></p> <p>Speakers Donato-Gabriele Vinciguerra Senior Product Application Specialist , Veolia Water Technologies & Solutions Mabyn Thomas Product Application Manager (Refinery Process) MENA, Veolia Water Technologies & Solutions</p>
<p><i>Nalco Water Antifouling Program Extends Two Condensate Distillation Units Runlength</i></p> <p>Speaker</p>	<p><i>Delivering resilience in the energy transition: An external perspective on Shell Rhineland reconfiguration</i></p> <p>Speaker</p>	

Dr. Walter Militello Senior Manager
Strategic Projects, Nalco Water and
Ecolab Company

*Leverage Chemistry to Challenge
Visbreaker Operational Limitations &
Improve Conversion*

Speaker

Shahid Raza Staff Process
Engineer, Saudi Aramco Mobil
Refinery Company Ltd. (SAMREF)

Johnny Stewart Principal Analyst
EMEARC, Wood Mackenzie

*Introduction of a Circular Route to
Produce Circular Products from End
of Life Plastics*

Speakers

Manaf Aljasser Process Engineer,
Aramco

Mohammed AlZain Sr. Operation
Engineer, Aramco

*Case Studies on Implementation of
Decarbonisation Strategies at HPCL
Mumbai Refinery*

Speaker

Deepak Kumar Jha Sr Manager
Process, Hindustan Petroleum
Corporation Limited

14:30 - 15:45

Expert Workshop

Room D

Biofuels Technology Overview & Trends (by GDA Technologies Technical Committee)

As production and usage of bioenergy grows, so does debate about them within the public, media, and scientific community. As a means to understanding the overall potential benefits and drawbacks of the use of biofuels. The objective of the panel will be to raise awareness about this important topic. The focus will be on the technology part especially the integration of biofuels with existing refining asset: what are the opportunities and challenges? How this translate to Middle East where feedstock is not easy to find.

Moderator

Anood Taher Senior Specialist, Process Engineering (Process Simulation), R&D, ADNOC Refining

Speakers

Mohanraj Subramanian Associate Director, Commodity Insights, S&P Global

Goutam Biswas Technology Director, Chevron Lummus Global (CLG)

Dr. Ranjit Kulkarni Global Director – Business Development, Honeywell UOP

15:45 - 16:15

Coffee Break

Sponsored by



16:15 - 16:45

Official Exhibition Opening Followed by VIP Tour

Exhibition Hall

16:45 - 17:10

Official Conference Opening

Grand Ballroom

Speakers

H.E. Dr. Mohamed Bin Mubarak Bin Daina Minister of Oil & Environment, Special Envoy for

Climate Affairs, Kingdom of Bahrain

Suleman A. Al-Bargan Chairman, Gulf Downstream Association (GDA)

Keynote

Speaker

Dr. Mohammed Y. Al Qahtani EVP Downstream, Aramco

17:10 - 18:00

Panel Discussion: Downstream Growth Challenges and Opportunities

📍 **Grand Ballroom**

The panel will discuss the future growth of downstream. Members of the panel will share their points of view on the key enablers for a robust growth in this sector. Changes in the demand side will be discussed with special emphasis on how downstream can turn demand changes into opportunities. Supply side will also be covered where panelists will elaborate on the changes in Upstream and how they can be potentially leveraged to make downstream more profitable. Panelists will shed light on the challenges facing downstream growth. In addition to the general theme, the session will zoom into downstream growth in GCC and deliberate the growth potential along with the challenge.

Moderator

Anthony Wood VP Consulting, S&P Global

Speakers

Abdulla Naji Ateya Al Messabi Chief Executive Officer , ADNOC Refining

Dr. Faisal M. Al-Faqeer Sr. VP - Liquids to Chemicals, Aramco

Abdul Rahman Yahyaei CEO, Opal

Rachid Majiti Senior Partner, McKinsey & Co.

18:00 - 20:30

VIP Gala Dinner and Award Ceremony (by invitation only)

Sponsored by



Day 2 - Tuesday, 14 Feb 2023

08:00 - 10:00 **Registration**
📍 Registration Area

Sponsored by



10:00 - 11:00 **Panel Discussion: Decarbonisation & Sustainability**
📍 Grand Ballroom

The road to decarbonization necessitates that a holistic approach must be adopted to address the urgent need to limit global warming, there is no one single policy, fuel, or technology that will solve the carbon emission issue. But rather a mixture of progressive policies, fuels and technologies will enable the world to limit global warming. More importantly, a collaborative and inclusive collaboration among policymakers, the industry, financiers, and other stakeholders is needed to achieve the desired decarbonization goals.

In the GCC region, we are committed to maintain our leadership position in the energy market by addressing our stakeholders and customers energy needs by providing the world with low carbon fuels that will support the economy for decades to come. Backed by political commitment towards carbon naturalty, companies in the region are well-positioned to de-carbonize their operations and set an example for others to follow.

This panel will address the following key aspects:

- What are the available de-carbonization pathways?
- What are the opportunities and challenges?
- The role of financial institutions in supporting the decarbonization of the industry
- Carbon pricing and circularity
- How to effectively communicate the industry decarbonization effort to stakeholders?

Moderator

Andreas de Vries Downstream Finance, Strategy & Planning, Aramco

Speakers

Dr. Hasan Karam VP, Plant Operations (RR) , ADNOC Refining

Fadi Alshihabi Partner, KPMG

Tetsuo Arie Senior Fellow, JCCP

11:00 - 11:15 **Coffee Break**

Sponsored by



11:15 - 12:15 **Technical Sessions (Parallel Sessions)**

Sponsored by



Decarbonisation and Sustainability 📍 Room B	Digitalisation in Downstream Sector 📍 Room C
<p>Moderator Gurminder Singh Director, Technology Licensing - MENA, Shell Catalysts & Technologies</p>	<p>Moderator Maha AlHarbi Downstream Digital and Technology Coordinator, Aramco</p>
<p><i>McKinsey's perspective on what refiners can do to decarbonise their operations</i></p> <p>Speaker Gustaw Szarek Partner, McKinsey & Co.</p>	<p><i>Hydrocarbon Custody Transfer Blockchain Technology "SALIENCE"</i></p> <p>Speaker Manojkumar Mantry Measurement Engineer, Aramco</p>
<p><i>Reduced Emissions by Eliminating Routine Process Flaring with Predictive Analytics</i></p> <p>Speakers Ibrahim Al-Abbas Process Engineer, Aramco Scott Hale Director of Analytics, KES Global - OnPoint</p>	<p><i>Breakthrough Technological Pilot Study in KNPC 3D Metallic Printing of Selected Refinery Spare Parts</i></p> <p>Speaker Ali Mostafa Ali Al-Shatti Engineer - Research & Technology, Kuwait National Petroleum Company (KNPC)</p>
<p><i>Steam Systems: The Root of Energy Efficiency</i></p> <p>Speaker Nadeen Omar Awwad Engineer - Energy Management, ADNOC Refining</p>	<p><i>Implementation of Integrated 3D Virtual Reality Operator Training Simulator at Bapco</i></p> <p>Speaker Hussain Fardan Senior Process Control Engineer, BAPCO</p>

11:15 - 12:15 **Expert Workshop**
📍 Room D

Next Generation Project Delivery - Session 2: How to Improve Project Delivery Today and in the Future? (by GDA Project Management & Commissioning Technical Committees)
<p>The purpose of this session is to frame alternative approaches enterprise/project teams can adopt to close the current gaps, reduce value leakage, and in so doing, achieve better performance towards capital efficiency. As the industry moves toward a world of automation, digitalisation and industrialisation, the intent is to explore future market requirements and how organisations can respond including the use of technology.</p> <p>Moderator Ghaith Aljazzar Regional Director of Business Development, Fluor Corporation</p> <p>Speakers Roberto J. Arbulu Executive Vice President, Strategic Project Solutions, Inc (SPS) Michele Scotto-Di Carlo Chief Operating Officer, Technip Energies Dr. Ahmad Al Qattan Market Intelligence, Kuwait Petroleum International Ltd Ali Hasan Jaffar Operations Superintendent , BAPCO</p>

11:15 - 12:15 **Strategic Session - Market Analysis and Industry trends**
📍 Room A

The downstream industry is currently passing through many uncertainties and fluctuations, such as feedstock availability, market demands, regulatory/environmental constraints, competitive energy systems, technology disruptions, and geo-politics. It is vital for refiners and technology/service providers to understand these trends and prepare proactively.

This special session will discuss several questions such as:

- How to make sense of diverse trends and market analyses from different sources?

- What refiners and technology/service providers should focus on?
- When is the oil/product demand most likely to peak?
- Is fuel demand threatened by the EV/FCEV growth, shared mobility, autonomous vehicles, regulatory framework, or policies? When and how they may cause real disruption to gasoline demand?

Moderator

Eiman Al Hammadi Business Development Manager, ADNOC Refining

Speakers

Jon Stroup Vice President, Solomon Insights

Dr. Yasser Boghdady Senior Oil Industry Expert, OAPEC - Organization of Arab Petroleum Exporting Countries

12:15 - 13:30

Lunch

📍 Exhibition Hall

Sponsored by



13:30 - 14:30

Technical Sessions (Parallel Sessions)

Sponsored by



Disruptors 📍 Room B	Decarbonisation and Sustainability 📍 Room C
<p>Moderator</p> <p>Mohammed Benchechou Director, Shell Catalysts & Technologies</p> <hr/> <p><i>McKinsey's perspective on the energy transition and potential demand scenarios up to 2050</i></p> <p>Speaker</p> <p>Jad Dib Partner, McKinsey & Co.</p> <hr/> <p><i>Leveraging Enhanced Circularity Towards Growing Disruptive Vanadium Based Redox Flow Batteries</i></p> <p>Speakers</p> <p>Shahreyar Khan Engineering Specialist - Process & Control Systems Department, Aramco</p> <p>Khaled S Usaimi Engineer I, Aramco</p> <p>Ahmad D Hammad Science Specialist, Aramco</p> <hr/> <p><i>Starting your Renewable Journey with Co-Processing</i></p> <p>Speaker</p> <p>Mohamed Janahi Account Manager, Topsoe</p>	<p>Moderator</p> <p>Fadi Mhaini Managing Director, Lummus Technology MENA and Global Director, Technology Licensing for KSA, Chevron Lummus</p> <hr/> <p><i>SASREF Blue Hydrogen Production with Reduction in GHG emission</i></p> <p>Speaker</p> <p>Yaser Fallatah Manager of Planning and Business Development, Saudi Aramco Jubail Refinery Company (SASREF)</p> <hr/> <p><i>A baseline transportation risk analysis for transport of hydrogen in the Kingdom of Bahrain</i></p> <p>Speaker</p> <p>Bassam Alhamad Professor, University of Bahrain</p> <hr/> <p><i>Decarbonisation Pathways for Achieving Lower Carbon Aviation Fuel (LCAF) in a Refinery</i></p> <p>Speaker</p> <p>Dr. Nasiru M. Tukur Engineering Consultant, P&CSD, Aramco</p>

13:30 - 14:30

Expert Workshop

📍 Room D

Digital Energy Management and Decarbonisation (Using online optimisation and monitoring tool) (by GDA Energy Management Technical Committee)

The digitalized energy management system is an essential aspect of decarbonization which is at the center of national climate strategies. It helps to optimize energy generation and consumption, and improve the energy system's efficiency and profitability. Digitalization offers an opportunity to leverage data that we already have to get sustainable energy where it needs to be.

Moderator

Mohamed Alhashmi Team Leader, Energy Management, ADNOC Refining

Speakers

Dhanasekar Periyasamy Sr. Principal Solution Consultant, AspenTech

Aisha Al Mehrezi Manager, Technical Assurance Department, ADNOC Refining

13:30 - 14:30 **Strategic Session - Technology Transformation**

📍 Room A

The downstream industry is agile and dynamic. Process technologies are continuously evolving, to improve performance, increase margin, stay competitive, and/or keep meeting the ever-changing customer requirements and environmental regulations which are becoming more stringent.

This session will focus on the challenges the downstream industry is facing, including enforcement of more stringent changes in customer requirements and environmental regulations, the evolvement of new market competitors, higher operating costs and minimal refinery margin. What is the impact of these challenges on the downstream industry? What strategies oil refiners are taking to overcome these challenges, and how transforming to innovative process technologies can help refiners to stay in business and be competitive.

Moderator

Nathan Ergonul Managing Director, ART Hydroprocessing

Speakers

Mahdi Al-Adel CEO, Aramco Ventures

George Cui Shan Chairman & CEO, SUPCON

Evgeny Fedotov SVP - EMEA, AVEVA

Abdulla Omar Al Ameri VP, Asset Development Division, ADNOC Refining

14:30 - 14:45 **Coffee Break**

Sponsored by



14:45 - 15:45 **Panel Discussion: Energy Transition**

📍 Grand Ballroom

Zero-carbon energy sources, including hydrogen, nuclear, biofuel, and renewable energy sources like wind, solar, as well as lithium-ion batteries, coexist with fossil-based sources e.g. oil, natural gas, and coal. However, the transformation of global energy from fossil-based to zero-carbon energy sources is currently going on at a fast pace and will be enforced in many countries before the second half of this century, creating a new challenging environment for the downstream industry.

This panel discussion will focus on the energy transition from fossil-based to zero-carbon energy, and the challenges for the downstream industry. What are the roles of government policies in enforcing this transition? How environmentalists, business analysts, refiners, and automakers are predicting the future as electric vehicles grow in popularity? What is the impact on fossil fuel demand? How refiners will keep growing in the energy business while reducing costs and improving CO2 intensity performance? Where will be the downstream industry in the future?

Moderator

Keith A. Couch Senior Director Business Development, Honeywell UOP

Speakers

Gaurav Srivastava Executive Director, S&P Global

Mohammed Al-Habib Regional Energy Transition Executive Director - MENATI, Baker Hughes

Musaab Mulla Manager S&MA, Aramco

15:45 - 16:00 **Coffee Break**

Sponsored by



16:00 - 17:00 **Technical Sessions (Parallel Sessions)**

Sponsored by



Digitalisation in Downstream Sector 📍 Room B	Disruptors 📍 Room C
<p>Moderator Mohamed Al Noaimi Business Strategy Leader, BAPCO</p> <hr/> <p><i>Reverse Engineering Toward Supporting the Domestic Industries</i></p> <p>Speaker Faris Alghamdi Maintenance Planning & Engineering Supervisor (A), Aramco</p> <hr/> <p><i>Significance of Applied AI for Process Manufacturing Digitalisation</i></p> <p>Speaker Shardul Shindadkar Asst Mgr - Sales and Marketing, Ingeniero Inc</p> <hr/> <p><i>Giving wings to carryout internal inspection in critical equipment (Drone case)</i></p>	<p>Moderator Oussama Ould Zmirli Manager, Solution Consulting, AspenTech</p> <hr/> <p><i>Are the new sustainability regulations and policies rocking the fossil fuel industry?</i></p> <p>Speaker Sayeed Mohammed Adjunct Assistant Professor, Georgetown University</p> <hr/> <p><i>Ultrasonically Enhanced Oxidative Desulfurization UoDS</i></p> <p>Speakers Ahmed Al Jiffry Investor Relations Manager, Saudi Aramco Base Oil Company - Luberef Dr. Paolo Guida Research Scientist, King Abdullah University of Science and Technology (KAUST)</p>

Speakers

Hamad Saeed Al Naqbi Team Leader - Inspection (I),
ADNOC Refining
Prashanth Markonda Koteswara Senior Engineer -
Inspection, ADNOC Refining

16:00 - 17:00

Expert Workshop

📍 Room D

Challenges of Digital Transformation in Asset Management (by GDA Digitalisation & Reliability Technical Committee)

Objective:

Identification of the digital transformation challenges in the Asset Management field and members' knowledge of the best ways to overcome these challenges.

Outline:

"The importance of digital transformation in the field of Asset Management" brief by the session facilitator.

KIPIC experience in the challenges of digital transformation in the field of Asset Management by the session facilitator.

- Difficulty in Business Case Realization.
- Low Digital Maturity and old workplace practices leading to -
- Adaptation Resistance.
- Lack of Technical Expertise.

Facilitator

Ahmad Albasri Sr. Engineer, Reliability, Kuwait Integrated Petroleum Industries Company (KIPIC)

16:00 - 17:00

Expert Workshop

📍 Room E

Digitalisation in Action, Real Case Study of Refinery Optimisation (by GDA Operational Excellence Technical Committee)

This real-life case study presents how Digitalization tools are effective in the optimization of real refinery & Petrochemical plants. Today's refinery and petrochemical plants are deeply integrated and present a challenge in terms of taking the initiative and capitalizing on opportunities to improve the overall margin. The case study will demonstrate the complexity of today's unit configurations and how digitalization gives the process engineer and plant operator a new dimension in looking at the "big picture" aiming to improve the bottom line.

Moderator

Nasser Al Shammari Operational Excellence Sr.Engineer, SATORP

Speaker

Nimit Arora Senior Director, Lummus Technology

16:00 - 17:00

Strategic Session - Downstream World-Class Projects Delivery

📍 Room A

For downstream refiners to become highly competitive and flexible to meet future challenges and capture growth opportunities, panelists would share their latest success story in project execution, best practices and lessons learned. This will enable GCC refiners to achieve the highest capital efficiency and achieve flawless commissioning and startups as well as safe operations.

Panelists are expected to discuss current challenges and issues faced by refiners during the project's life cycle, especially in GCC. Such topics include Project Definition, Engineering Duration and costs as well as construction delays and costs overruns. Discussions will also include How and What Refiners, PMCs' and EPCs' can do to execute projects efficiently while minimizing potential risks.

Panel discussion should aim to identify current gaps in project delivery in GCC and/or downstream refineries and how can project stakeholders bridge these gaps.

Moderator

Dr. Saadi Adra Founder and CEO, Advisors

Speakers

Hafedh Al-Qassab Acting Deputy Chief Executive & BMP Project Director, BAPCO

Juan Manuel Tovar CEO, Tecnicas Reunidas, KSA

Meqbel A. Al-Shammari Manager of Hydrogen & Petrochemical Program, Aramco

Issam Srour Senior Consultant, IPA

Day 3 - Wednesday, 15 Feb 2023

08:00 - 09:00 **Registration**
📍 Registration Area

Sponsored by



09:00 - 10:00 **Technical Sessions (Parallel Sessions)**

Sponsored by



Human Capital and Talent Management 📍 Room A	Resilience 📍 Room B	Digitalisation in Downstream Sector 📍 Room C
<p>Moderator Raj Jhajharia Technical and Marketing Manager, Gulf Downstream Association (GDA)</p> <hr/> <p><i>Leverage Tech Trends; Using Digital Storytelling as an Instructional Tool to Develop Young Leaders in Saudi Arabia</i></p> <p>Speaker Kholood Alabdullatif Instructional Designer, Aramco</p> <hr/> <p><i>Tracking the Financial Impacts of Structured On-the-Job Training (S-OJT)</i></p> <p>Speaker Dr. Ronald Jacobs Principal, SITUATE LLC</p> <hr/> <p><i>Novel Approach to Engineers' Training & Development</i></p> <p>Speaker Abdulhamid Al-Omair Director, Leadership & Engineering Accelerated Development Center (LEAD), EnergyTech</p>	<p>Moderator Aqeel Almuharraqi Superintendent FCCU & Utilities, Technical Services, BAPCO</p> <hr/> <p><i>What Makes for a Safe Fired Heater?</i></p> <p>Speaker Edwar Jimenez Process Specialist Fired Heaters, BAPCO</p> <hr/> <p><i>De-bottleneck Refinery Cooling Water Summer Constraint to Capture the Loss of Distillate Yield and Sustain High RON Gasoline Production with Rented Chillers</i></p> <p>Speaker Abdulaziz Al-Alwani Technical Console Lead, Saudi Aramco Mobil Refinery Company Ltd. (SAMREF)</p> <hr/> <p><i>Enhanced Grading System to Mitigate Pressure Drop Build Up in Hydrocracking Reactors</i></p> <p>Speaker Ibrahim Althaali Process Engineer, Aramco</p>	<p>Moderator Bassam Jayed Alshammari TL Corporate Applications, Kuwait National Petroleum Company (KNPC)</p> <hr/> <p><i>New Invention for smart digital control of the Sulfur Reduction Additive in Fluid Catalytic Cracking Process- Refining Complex</i></p> <p>Speakers Saeed S. AlAlloush Engineering Consultant, Aramco Dr. Othman Taha Engineering Consultant, Aramco</p> <hr/> <p><i>Predictive Maintenance (PdM) in Gulf Downstream companies Case Study</i></p> <p>Speaker Ali Hussain Ali Albaqshi System Analyst, Kuwait National Petroleum Company (KNPC)</p> <hr/> <p><i>Enhanced Unit Monitoring Enabled by Digital Twin</i></p> <p>Speakers Gabriel Winter Engineering Specialist, Aramco Jitendra Chellani Senior Consultant, KBC (A Yokogawa Company)</p>

09:00 - 10:00 **Expert Workshop**
📍 Room D

Decarbonising Refining & Petrochemical Assets (by GDA Industry Trends Committee)

The workshop will discuss the key pathways for decarbonizing refinery and petrochemical assets to accelerate the transition to net zero emissions. The discussion will primarily focus on; i) increasing operational efficiency, ii) making lower carbon fuels (such as Biofuels, Hydrogen), and iii) Capturing and storing of emissions. Examples would be highlighted from the Pernis refinery in The Netherlands.

Moderator

Dr. Nasiru M. Tukur Engineering Consultant, P&CSD, Aramco

Speaker

Gurminder Singh Director, Technology Licensing - MENA, Shell Catalysts & Technologies

09:00 - 10:00

Expert Workshop

📍 Room E

Using Technology Toward Enhancing HSE Performance And Culture. (by GDA HSE Committee)

Technology has a big impact on enhancing the efficiency of business processes. It effectively contributes to achieving business excellence, reduce errors and increase productivity in terms of HSE aspect required by all stake holders in any company. The workshop will focus on digital transformation best practices related to HSE and how they can successfully contribute to developing and applying innovative concepts and methods to overcome challenges using Microsoft Tools such as Power BI. For example, digitalizing daily work to increase efficiency and to reduce manhours, and building digital communication bridges between workers and the HSE group.

Moderator

Nada Kamel Alsaleh Senior Engineer, Process Safety Management, Kuwait National Petroleum Company (KNPC)

Speakers

Hebah Bader Asad Hussain Senior Engineer, HSE Technical Support, Kuwait Integrated Petroleum Industries Company (KIPIC)

Fawaz Alomair Engineer - HSE Technical Support, Kuwait Integrated Petroleum Industries Company (KIPIC)

10:00 - 11:00

Panel Discussion: Digital Transformation in Downstream

📍 Grand Ballroom

Digital transformation is inevitable for the downstream industry to survive and thrive. It helps to increase plant efficiencies, increase productivity and reduce operating cost by leveraging a plethora of IR4.0 technologies such as AI, Augmented Intelligence, AIoT, ML, VR/MR, Big Data Analytics, and Cloud computing. These technologies could become the corner stone in achieving Autonomous Plants (self-learning, self-optimizing and self-sustaining).

Panelists will share their experience and address the following key-questions facing the downstream industry in their digital transformation journey:

- How the new-age technologies be applied in the downstream industries?
- What are the business verticals within the downstream industries that can benefit the most?
- What are the key challenges, risks and obstacles? How to manage them?
- What will be the role of human workforce in such autonomous plants?
- What are the best practices for achieving a successful digital transformation?

Moderator

Nadim Haddad Partner, Oliver Wyman Group

Speakers

Norm Gilsdorf Senior Vice President, Honeywell Global High Growth Regions, Honeywell

Dr. Pratap Nair President & CEO, Ingeniero Inc

Nayef Al Otaibi VP - Digital Transformation, Aramco

Steven Qi Senior Vice President, Customer Success, AspenTech

11:00 - 11:15

Coffee Break

Sponsored by



11:15 - 12:15 **Technical Sessions (Parallel Sessions)**

Sponsored by



Human Capital and Talent Management 📍 Room A	Resilience 📍 Room B	Digitalisation in Downstream Sector 📍 Room C
<p>Moderator Dr. Basim Abussaud Associate Professor, Dept. of Chemical Engineering, King Fahd University of Petroleum & Minerals (KFUPM)</p> <hr/> <p><i>Promoting Innovation Culture in KNPC</i></p> <p>Speakers Bassam Jayed Alshammari TL Corporate Applications, Kuwait National Petroleum Company (KNPC) Altat Faisal Fadhel Al-Snafi Senior Construction Engineer, Kuwait National Petroleum Company (KNPC)</p> <hr/> <p><i>Safety is good but psychological safety is better</i></p> <p>Speaker Abdelbasit Ayoub Leadership Trainer and Coach, Aramco</p> <hr/> <p><i>The Human Energy Equation - Bridging Industry and Academia</i></p> <p>Speaker Nooruddin Ahmed Managing Partner, CERTERO Business Corporation</p>	<p>Moderator Aqeel Almuharraqi Superintendent FCCU & Utilities, Technical Services, BAPCO</p> <hr/> <p><i>Innovative Approach for Onstream Removal of Ammonium Chloride Fouling Prevents Crude Unit Shutdown</i></p> <p>Speakers Rakesh Budithi Senior Process Engineer, BAPCO Lulwa Alzayani Associate Senior Process Engineer, Technical Services Department, BAPCO</p> <hr/> <p><i>Low carbon energy hub and future of residue processing</i></p> <p>Speakers Goutam Biswas Technology Director, Chevron Lummus Global (CLG) Raffaele Fronteddu Licensing Commercial Manager, ENI</p> <hr/> <p><i>Jazan Refinery Sulfuric Acid Reliability Enhancement</i></p> <p>Speaker Bassel Filfilan Operations Engineer, Aramco</p>	<p>Moderator Nihar Gulwadi Regional Head - MENA, Ingenero Inc</p> <hr/> <p><i>Asset digitalisation for wiser plant operation</i></p> <p>Speaker Frederic Le Fur WinIt Director, Technip Energies</p> <hr/> <p><i>Multi-Unit Harvesting of Real Time Optimiser Technology in Yanbu Refinery</i></p> <p>Speaker Raad Bassam Mulla Yanbu Laboratory Unit, Supervisor (A), Aramco</p> <hr/> <p><i>SASREF Digitalising of Asset-Care Routine (SORA)</i></p> <p>Speaker Saeed Al-Ghamdi Maintenance Strategies Manager, Saudi Aramco Jubail Refinery Company (SASREF)</p>

11:15 - 12:15 **Expert Workshop**

📍 Room D

Everyone Communicate, Few Connect; Keys to Effective Leadership Communication in the Digital Era (by GDA Leadership & People Development Technical Committee)

For leaders and aspiring leaders, communication and interaction are the two most important aspects of their role. A leader's guidance depends on clarity, emotional adequacy, and the ability to interact with all people. Therefore, this interactive workshop will focus on latest communication tools that both professionals and leaders can adopt in their workplace and when managing virtual teams. The rationale behind this session is to show that being efficient, comprehensible, impactful, and entertaining will really change peoples' desire to interact with you, resulting in a reduction of re-work, frustration, and anxiety.

The workshop is designed for all professionals who deal with humans. The main objective is to learn how to utilize contemporary communication tools to help in facilitating conversations in multiple professional settings. The workshop will include hands-on group activities to demonstrate new communication concepts such as Non-Violent Communication; a contemporary approach that encourages communicating with empathy and compassion towards others.

Moderator

Rayyan S. Tayeb HR Business Partner Global Manufacturing, Aramco

Speaker

Kholood Alabdullatif Instructional Designer, Aramco

11:15 - 12:15 **Leadership Session**

📍 Room E

The State of Leadership (by SPSP)

1. Keynote: A Global Review

(In his keynote, the speaker will share the result of an extensive leadership forecast study. The study is a research work of a global scale and represents the responses of many leaders and professionals. It spans multiple countries and includes multiple major industry sectors. It summarizes best talent practices and highlights key trends for future leaders.

2. Panel Discussion: Leadership trends - What leaders want you to know

3. Agreement Signing Ceremony

Moderator

Khalid Al Abdulwahid Director, Maintenance & Operations Training Center, EnergyTech

Speakers

Bassam Al Bokhari CEO, EnergyTech

Mohammed Al-Zuabi President & CEO, MARAFIQ

Hafedh Al-Qassab Acting Deputy Chief Executive & BMP Project Director, BAPCO

12:15 - 13:30 **Lunch**

📍 Exhibition Hall

Sponsored by



13:30 - 14:30 **Panel Discussion: Human Capital & Diversity**

📍 Grand Ballroom

The downstream industry is faced with unprecedented demands on its human capital due to the high percentage of the aging workforce, low intake of the fresh workforce, technology disruptions, cultural & skill diversity, multiple roles, multi-tasking, aggressive deadlines, and handling uncertainties. It is vital to maintain a happy state of mind to ensure maximum productivity with minimal health impacts.

This panel will address the following key questions facing the downstream industry now and going forward:

- What can we do to achieve effective knowledge transfer from retiring experts to the young workforce at a fast pace (2-3 years)?
- How can we attract young engineers to join the downstream industry?
- How can we develop programs to ensure skill diversity together with re-skilling and upskilling the workforce?
- What needs to be done to build high-performance resilience at work
- What power skills are needed to embrace future work environments where humans will have to co-exist with Robots, Artificial Intelligence, and Machine Learning?
- How can the multi-cultural workforce be integrated with local society/culture in order to work as a homogeneous team delivering high performance?
- What are the long-term human resource consequences of Covid-19, and what needs to be done now to avoid issues in the medium and long term, as its impact may permanently reshape the current young minds who would later enter the workforce?

Moderator

Dana Bukhammas HR Manager, BAPCO

Speakers

Reem Al Ghanim Downstream Affiliates HR Manager, Aramco

Oleg Konovalov Thought leader, author and TEDx speaker, olegkonovalov.com

Jamillah Al-Mutairi Team Leader, Process Engineer, Kuwait National Petroleum Company (KNPC)

Ibrahim Al-Mugahwi Director, Industrial Jobs Certification Department, EnergyTech

14:30 - 14:45 **Coffee Break**

Sponsored by



14:45 - 15:30 **GDA Conference Outcome and Closing Remarks**

📍 Grand Ballroom

Speaker

Suleman A. Al-Bargan Chairman, Gulf Downstream Association (GDA)

16:00 - **Exhibition Closing**

Produced 21 February 2023

OFFICIAL PARTNERS

Official Radio Partner



Strategic Media Partner



Media Partners



Supporting Organisations



OFFICIAL SPONSORS

Host Sponsors



Platinum Sponsors



Gold Sponsors



Silver Sponsors



Academic Partner



Maria Inez
Sponsorship and Exhibition
maria@e3-worldwide.com
+971 58 519 2728

Raunaq Jamal
Programme
raunaq@e3-worldwide.com
+971 54 252 1515

Asif Muhammad
Registrations
asif@e3-worldwide.com
+971 55 552 2615

Pamela Nazareth
PR and Media Partnerships
pamela@e3-worldwide.com
+971 50 315 9522

Amal Al Amer
General Information
amal.alaamer@gda.org.bh
+973 1711 6000