



**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](http://gdaconference.com)

## Day 1 - Monday, 13 Feb 2023

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

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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** CEO, Sadara Chemical Company

**Leon De Bruyn** President and CEO, Lummus Technology

**Ms. Afaf Zainalabedien** Deputy Chief Executive Corporate Services, BAPCO

**Sultan Albigishi** SVP Projects & Technical, ADNOC Refining

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

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

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Resilience 📍 Room A	Future Growth 📍 Room B	Decarbonisation and Sustainability 📍 Room C
<p>Moderator <b>Jad Dib</b> Partner, McKinsey &amp; 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 <b>Jay Parekh</b> Hydrocracking Subject Matter Expert, ART Hydroprocessing</p> <hr/> <p><i>Bapco's Journey Towards Performance Excellence</i></p> <p>Speakers <b>Husain Aldailami</b> Senior Reliability Engineer, BAPCO <b>Ricky Stewart</b> Advisor, Solomon Insights</p> <hr/> <p><i>Mitigating Corrosion in Cooling Water Systems with High Chloride &amp; Sulfate</i></p> <p>Speaker <b>Amr Elsayed</b> Corrosion Engineer, Saudi Aramco</p>	<p>Moderator <b>Dr. Dawoud Bahzad</b> Division Director - Science &amp; Technology (S&amp;T), Kuwait Institute for Scientific Research (KISR)</p> <hr/> <p><i>Plant of the Future: Planning the Journey</i></p> <p>Speaker <b>Abdullah Albannay</b> Digital Solutions Architect, Saudi Aramco</p> <hr/> <p><i>Alkylation Technology as an Answer to the C4 Management and Gasoline Pool Constraints</i></p> <p>Speaker <b>Elodie Letourmy</b> Gasoline Lead Technologist, Axens</p> <hr/> <p><i>Crude C4 Alternatives for a Successful Grassroots Petrochemicals</i></p> <p>Speakers <b>Abdullah Marri</b> Lead Process Engineer, Saudi Aramco <b>Mikhail Khvastunkov</b> Engineering Specialist, Saudi Aramco</p>	<p>Moderator <b>Dr. Ranjit Kulkarni</b> Project Director, Honeywell UOP</p> <hr/> <p><i>Low carbon and fossil fuels: A story of sustainable co-existence?</i></p> <p>Speaker <b>Dimitrios Orfanidis</b> Division Head: Downstream Investment Analysis, Saudi Aramco</p> <hr/> <p><i>Decarbonising your asset: A stepwise evaluation of refiners' response options</i></p> <p>Speaker <b>Gurminder Singh</b> Director, Technology Licensing - MENA, Shell Catalysts &amp; Technologies</p> <hr/> <p><i>Technology advancements in Energy Efficiency – Challenges, Solutions and Illustrations</i></p> <p>Speaker <b>Amitkumar Khadayata</b> 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)
<p>The purpose of this session is to explore why the delivery of capital projects, including oil &amp; 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.</p> <p>Moderator <b>Dr. Saadi Adra</b> Founder and CEO, Advisors</p> <p>Speakers <b>Mohammed Hammad</b> VP Training &amp; Development, Project Management Institute - KSA <b>Ghassan H Soraihi</b> Product Movements &amp; Utilities Operations Division Head, Jazan Refinery Complex, Saudi Aramco <b>Adnan Nassereddine</b> Director of Projects, Jacobs Zate <b>Fatima Al Zaabi</b> Project Manager, ADNOC Refining <b>Nawaf A. Al-Ahmad</b> Team Leader, Major Projects, Kuwait Integrated Petroleum Industries Company (KIPIC)</p>

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

**Abdulahim Mohammed** Automation Engineer, BAPCO

Speakers

**Mohamed Alaradi** Principal Consultant Engineer, Aspen Technology

**Vinayak Parmar** Rotating Equipment Engineer, BAPCO

13:15 - 14:30

**Lunch**

📍 Exhibition Hall

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14:30 - 15:45

**Technical Sessions (Parallel Sessions)**

Sponsored by



Resilience 📍 Room A	Future Growth 📍 Room B	Decarbonisation and Sustainability 📍 Room C
<p>Moderator <b>Harbeyah Al-Enezi</b> Process Engineer, Technical Services, Kuwait National Petroleum Company (KNPC)</p>	<p>Moderator <b>Emad A. Muhaisen</b> Division Head, Jazan Economic City Development Department, Saudi Aramco</p>	<p>Moderator <b>Dr. Hayat Abdulla Yusuf</b> 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 <b>Abdulla Al Bin Ali</b> Process Engineer, BAPCO</p>	<p><i>Oil Downstream Outlook and strategies</i></p> <p>Speaker <b>Dr. Ahmad Al Qattan</b> Market Intelligence, Kuwait Petroleum International Ltd</p>	<p><i>Improving Refinery Amine Operations and Profitability through Veolia Total Amine Solution</i></p> <p>Speakers <b>Donato-Gabriele Vinciguerra</b> Senior Product Application Specialist , Veolia Water Technologies &amp; Solutions <b>Mabyn Thomas</b> Product Application Manager (Refinery Process) MENA, Veolia Water Technologies &amp; 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 <b>Johnny Stewart</b> Principal Analyst</p>	

**Dr. Walter Militello** Senior Manager,  
Nalco Water An Ecolab Co.

EMEARC, Wood Mackenzie

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

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

Speakers

**Manaf Aljasser** Process Engineer,  
Saudi Aramco

**Mohammed AlZain** Sr. Operation  
Engineer, Saudi Aramco

Speaker

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

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

Speaker

**Deepak Kumar Jha** Sr. Manager –  
Technical, 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** Project Director, 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** Executive VP Downstream, Saudi 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** Vice President – MDE&I, S&P Global

Speakers

**Abdulla Najj Ateya Al Messabi** Chief Executive Officer , ADNOC Refining

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

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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, Saudi Aramco

Speakers

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

**Fadi Alshihabi** ESG Services Leader, 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 <b>Gurminder Singh</b> Director, Technology Licensing - MENA, Shell Catalysts &amp; Technologies</p> <hr/> <p><i>McKinsey's perspective on what refiners can do to decarbonise their operations</i></p> <p>Speaker <b>Gustaw Szarek</b> Partner, McKinsey &amp; Co.</p> <hr/> <p><i>Reduced Emissions by Eliminating Routine Process Flaring with Predictive Analytics</i></p> <p>Speakers <b>Ibrahim Al-Abbas</b> Process Engineer, Saudi Aramco <b>Scott Hale</b> Director of Analytics, KES Global - OnPoint</p> <hr/> <p><i>Steam Systems: The Root of Energy Efficiency</i></p> <p>Speaker <b>Nadeen Omar Awwad</b> Engineer - Energy Management, ADNOC Refining</p>	<p>Moderator <b>Maha AlHarbi</b> Downstream Digital and Technology Coordinator, Saudi Aramco</p> <hr/> <p><i>Hydrocarbon Custody Transfer Blockchain Technology "SALIENCE"</i></p> <p>Speaker <b>Manojkumar Mantry</b> Measurement Engineer, Saudi Aramco</p> <hr/> <p><i>Breakthrough Technological Pilot Study in KNPC 3D Metallic Printing of Selected Refinery Spare Parts</i></p> <p>Speaker <b>Ali Mostafa Ali Al-Shatti</b> Engineer - Research &amp; Technology, Kuwait National Petroleum Company (KNPC)</p> <hr/> <p><i>Implementation of Integrated 3D Virtual Reality Operator Training Simulator at Bapco</i></p> <p>Speaker <b>Hussain Fardan</b> 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 <b>Ghaith Aljazzar</b> Regional Director, Business Development, Fluor Corporation</p> <p>Speakers <b>Roberto J. Arbulu</b> Executive Vice President, Strategic Project Solutions, Inc (SPS) <b>Michele Scotto-Di Carlo</b> Chief Operating Officer, Technip Energies <b>Dr. Ahmad Al Qattan</b> Market Intelligence, Kuwait Petroleum International Ltd <b>Ali Hasan Jaffar</b> 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 <b>Mohammed Benchekchou</b> Director, Shell Catalysts &amp; Technologies</p> <hr/> <p><i>McKinsey's perspective on the energy transition and potential demand scenarios up to 2050</i></p> <p>Speaker <b>Jad Dib</b> Partner, McKinsey &amp; Co.</p> <hr/> <p><i>Leveraging Enhanced Circularity Towards Growing Disruptive Vanadium Based Redox Flow Batteries</i></p> <p>Speakers <b>Shahreya Khan</b> Engineering Specialist - Process &amp; Control Systems Department, Saudi Aramco <b>Khaled S Usaimi</b> Engineer I, Saudi Aramco <b>Ahmad D Hammad</b> Science Specialist, Saudi Aramco</p> <hr/> <p><i>Starting your Renewable Journey with Co-Processing</i></p> <p>Speaker <b>Mohamed Janahi</b> Account Manager, Topsoe</p>	<p>Moderator <b>Fadi Mhaini</b> 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 <b>Yaser Fallatah</b> 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 <b>Bassam Alhamad</b> Former Director of the Quality Assurance &amp; Accreditation Center, University of Bahrain</p> <hr/> <p><i>Decarbonisation Pathways for Achieving Lower Carbon Aviation Fuel (LCAF) in a Refinery</i></p> <p>Speaker <b>Dr. Nasiru Tukur</b> Engineering Consultant, Saudi 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, Aspen Technology

**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**

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### 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** Head of Business Development & Integrated Projects, Honeywell UOP

Speakers

**Gaurav Srivastava** Executive Director, Consulting, Advisory Services, S&P Global

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

**Musaab Mulla** Manager S&MA, Saudi Aramco

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

Sponsored by



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

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

equipment (Drone case)

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 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, Saudi Aramco

**Issam Srour** 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 <b>Raj Jhajharia</b> Technical Manager and Acting 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 <b>Kholood Alabdullatif</b> Downstream Development Academy, Saudi Aramco</p> <hr/> <p><i>Tracking the Financial Impacts of Structured On-the-Job Training (S-OJT)</i></p> <p>Speaker <b>Dr. Ronald Jacobs</b> Principal, SITUATE LLC</p> <hr/> <p><i>Novel Approach to Engineers' Training &amp; Development</i></p> <p>Speaker <b>Abdulhamid Al-Omair</b> Director, Leadership &amp; Engineering Accelerated Development Center (LEAD), Saudi Petroleum Services Polytechnic</p>	<p>Moderator <b>Aqeel Almuharraqi</b> Superintendent FCCU &amp; Utilities, Technical Services, BAPCO</p> <hr/> <p><i>What Makes for a Safe Fired Heater?</i></p> <p>Speaker <b>Edwar Jimenez</b> Process Specialist – Fired Heaters Technical Services Department, 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 <b>Abdulaziz Al-Alwani</b> 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 <b>Ibrahim Althaali</b> Process Engineer, Saudi Aramco</p>	<p>Moderator <b>Bassam Jayed Alshammari</b> 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 <b>Saeed S. AlAlloush</b> Engineering Consultant, Saudi Aramco <b>Dr. Othman Taha</b> Engineering Specialist, Saudi Aramco</p> <hr/> <p><i>Predictive Maintenance (PdM) in Gulf Downstream companies Case Study</i></p> <p>Speaker <b>Ali Hussain Ali Albaqshi</b> Analyst - Systems Technology Applications, Kuwait National Petroleum Company (KNPC)</p> <hr/> <p><i>Enhanced Unit Monitoring Enabled by Digital Twin</i></p> <p>Speakers <b>Gabriel Winter</b> Engineering Specialist, Saudi Aramco <b>Jitendra Chellani</b> Process Consultant, KBC (A Yokogawa Company)</p>

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

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 Tukur** Engineering Consultant, Saudi 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 Consultant, Honeywell

**Dr. Pratap Nair** President & CEO, Ingenero Inc

**Nayef Al Otaibi** VP - Digital Transformation, Saudi Aramco

**Steven Qi** Senior Vice President, Customer Success, Aspen Technology

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 <b>Dr. Basim Abussaud</b> Assistant Professor, King Fahd University of Petroleum &amp; Minerals (KFUPM)</p> <hr/> <p><i>Promoting Innovation Culture in KNPC</i></p> <p>Speakers <b>Bassam Jayed Alshammari</b> TL Corporate Applications, Kuwait National Petroleum Company (KNPC) <b>Altaf Faisal Fadhel Al-Snafi</b> Senior Construction Engineer, Kuwait National Petroleum Company (KNPC)</p> <hr/> <p><i>Safety is good but psychological safety is better</i></p> <p>Speaker <b>Abdelbasit Ayoub</b> Leadership Trainer and Coach, Saudi Aramco</p> <hr/> <p><i>The Human Energy Equation - Bridging Industry and Academia</i></p> <p>Speaker <b>Nooruddin Ahmed</b> Co-Founder, CERTERO Business Corporation</p>	<p>Moderator <b>Aqeel Almuharraqi</b> Superintendent FCCU &amp; 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 <b>Rakesh Budithi</b> Senior Process Engineer, Technical Services Department, BAPCO <b>Lulwa Alzayani</b> 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 <b>Goutam Biswas</b> Technology Director, Chevron Lummus Global (CLG) <b>Raffaele Fronteddu</b> Licensing Commercial Manager, ENI</p> <hr/> <p><i>Jazan Refinery Sulfuric Acid Reliability Enhancement</i></p> <p>Speaker <b>Bassel Filfilan</b> Operations Engineer, Saudi Aramco</p>	<p>Moderator <b>Nihar Gulwadi</b> Regional Head - MENA, Ingenero Inc</p> <hr/> <p><i>Asset digitalisation for wiser plant operation</i></p> <p>Speaker <b>Frederic Le Fur</b> Sales Digital Director Europe, Technip Energies</p> <hr/> <p><i>Multi-Unit Harvesting of Real Time Optimiser Technology in Yanbu Refinery</i></p> <p>Speaker <b>Raad Bassam Mulla</b> Yanbu Laboratory Unit, Supervisor (A), Saudi Aramco</p> <hr/> <p><i>SASREF Digitalising of Asset-Care Routine (SORA)</i></p> <p>Speaker <b>Saeed Al-Ghamdi</b> 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, Saudi Aramco

Speaker

**Kholood Alabdullatif** Downstream Development Academy, Saudi 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, Saudi Petroleum Services Polytechnic(SPSP)

Speakers

**Bassam Al Bokhari** CEO, Saudi Petroleum Services Polytechnic

**Mohammed Al-Zuabi** President & CEO, MARAFIQ

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

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

📍 Exhibition Hall

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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** HR Leader, Saudi Aramco

**Oleg Kononov** Thought leader, author and TEDx speaker, olegkononov.com

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

**Ibrahim Al-Mughawi** Director, Industrial Jobs Certification Department, Saudi Petroleum Services Polytechnic(SPSP)

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**



# International Downstream Conference & Exhibition

13-15 February 2023  
Exhibition World Bahrain, Kingdom of Bahrain

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