

FLASH

UNLEASHING THE POWER
OF COLLABORATION

Q3

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Letter from **THE EDITOR**

Dear Friends,

We extend our warm congratulations and best wishes to Mr. Abdulla Jehad Al-Zain as the new Board Chairman and Dr. Abdulrahman Jawahery as the new Chief Executive of our founding member Bahrain Petroleum Company (Bapco).

I was thrilled to attend the first in-person event on 22nd Sep 2021 at Dubai World Trade Centre after spending last 18 months of my work-life in the virtual space. This was a bold sign of recovering from the COVID-19 pandemic and getting back to a 'new' normal. Everyone is eager and ready to meet in-person. We are ready to welcome you in our new office at Awali complex of BAPCO

At GDA, during this quarter, we also kept marching on in the virtual space with a wide range of activities. Our offering of virtual courses at reduced rates for our members continued to draw good response. We are already working on scheduling the next year's courses with our esteemed technology providers. We shall reveal the 2022 calendar of courses in the next issue of Flash. Access Partnership joined us for a new episode of our popular series "GDA Conversations" on the topic of "Data Policies for Downstream Digital Transformation." Our Technical Committees continued meeting virtually and holding interactive webinars on selected topics while diving deep into various technical aspects. Their collective contributions continued enriching our unique Knowledge Hub.

Our esteemed member SATORP has shared their big story on 4Ps (People, Partnership, Pride and Professionalism) showing a path to achieving excellence in all areas. We continued collaborating with our peers and other event organisers opening multiple channels

Your friend,

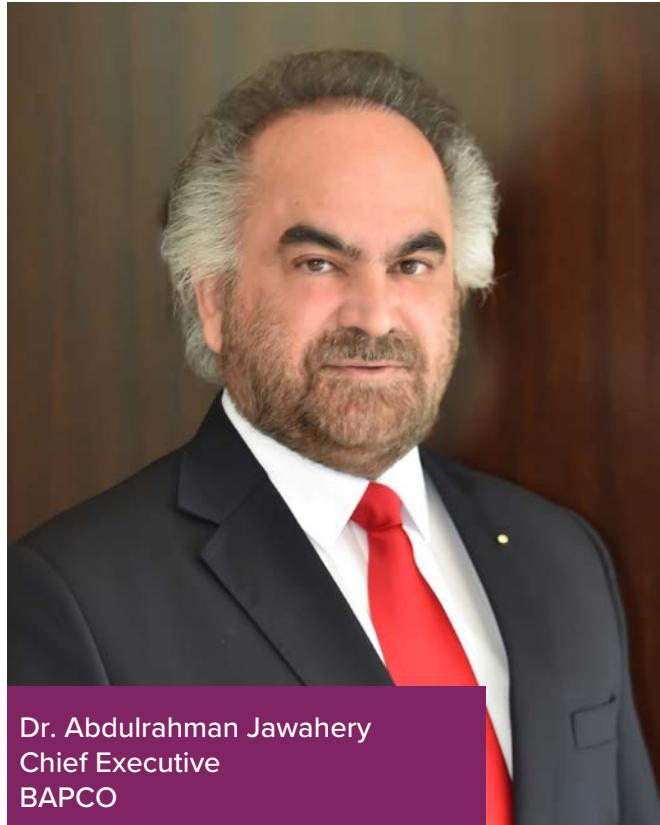
Raj Jhajharia

Technical Manager and
Acting Marketing & Communications Manager
Gulf Downstream Association

BAPCO CONGRATULATORY MESSAGE



Mr. Abdullah Jehad Al-Zain
Board Chairman
BAPCO



Dr. Abdulrahman Jawahery
Chief Executive
BAPCO

GDA welcomes Mr. Abdulla Jehad Al-Zain as the new Board Chairman and Dr. Abdulrahman Jawahery as the new Chief Executive of its founding member Bahrain Petroleum Company (Bapco). GDA family extends its best wishes to both of them and assure GDA support in their endeavours on taking Bapco to greater heights while bringing prosperity to the Kingdom of Bahrain.

GDA MOVES TO A NEW OFFICE



House 976, Road 4524,
Block 945 Awali,
Kingdom of Bahrain

Overview

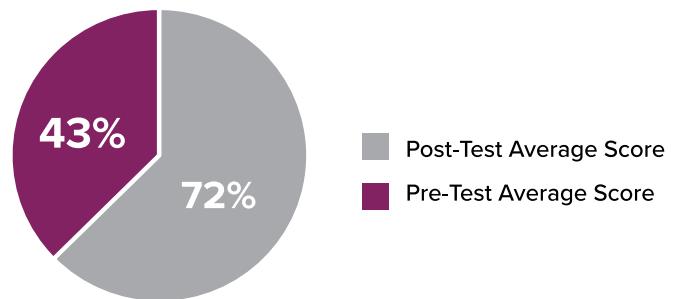
COURSES

Fired Heaters Training BY HONEYWELL-UOP

The Gulf Downstream Association (GDA) organized the fifth virtual training course in 2021 on “Fired Heaters” for GDA Members on 12th – 14th July 2021, via MS Teams. The course was hosted and delivered by Mr. Javed Hason from Honeywell-UOP. This course was attended by a total of 14 delegates from BAPCO, KIPIC and SATROP.

This course was designed for heater specialists, process engineers, reliability engineers, energy coordinators, inspectors, and senior operations personnel. Those new to the industry as well as more senior personnel have all benefited from this course. This course provided a broad overview of the theoretical knowledge and practical skills required to improve the operation, profitability, and safety of a plant's fired heaters. The participants also got an attendance certificate from Honeywell UOP.

The participants' knowledge transfer was verified by a Pre-test & Post-test covering the course material demonstrating significant improvement, as shown in the graph.



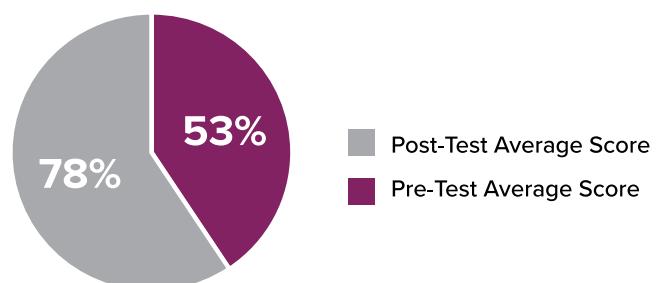
Corrosion and Fouling Management Course BY HONEYWELL UOP

The Gulf Downstream Association (GDA) organized the sixth virtual course in 2021 “Corrosion and Fouling Management” for GDA Members on 29th – 30th September 2021 and 4th – 5th October 2021, via MS Teams. The course was hosted and delivered by Mr. Xiaodong (Sean) Liu and Mr. Chirag Shah from Honeywell UOP. The course was attended by a total of 25 delegates from Aramco, BAPCO and SATROP.

The course was designed to particularly benefit both new and experienced refinery personnel who are involved in the identification, diagnosis, and treatment of corrosion and fouling problems – including inspectors and corrosion professionals.

The course provided a broad overview of a fundamental understanding of the science of corrosion, the causes of corrosion and fouling, and techniques to solve corrosion and fouling problems encountered in refineries. Participants brought real examples of corrosion problems they've encountered on the job and discussed with the trainer.

The course manual served as both a course guide and reference material. It contained “rules of thumb” that can be immediately put into practice when participants return to their jobs. The participants also got an attendance certificate from Honeywell-UOP. The participants' knowledge transfer was verified by a Pre-test & Post-test covering the course material demonstrating significant improvement, as shown in the graph.



Overview

COURSES

“Strange as it sounds, great leaders gain authority by giving it away”

- Vice Admiral James Stockdale

Introduction to Refinery Planning (RPA101) Training BY ASPENTECH

The Gulf Downstream Association (GDA) has successfully organized the “Introduction to Refinery Planning (RPA101)” virtual course for GDA Members on 5th – 9th September 2021, via MS Teams. The course was hosted and delivered by Miss. Maryuri Nunes from AspenTech. The course was attended by a total of 6 delegates – 5 from KIPIC and 1 KPI.

The course was designed to develop skills to build refinery Linear Programming (LP) planning models in PIMS to solve and generate optimum plans including evaluating alternative crudes, intermediate feedstocks, outside blend stocks, process units, products, and markets. The course reviewed data tables and structures required to build and maintain a model for developing crude distillation architecture, product blending, typical refinery process units, pooling, vector and delta-based models, including interpreting and analyzing the LP solutions. The course provided process of applying modifications, create, and add structure to several AspenTech PIMS models depending on the topic covered. The participants also got an achievement certificate from AspenTech.



UPCOMING COURSE

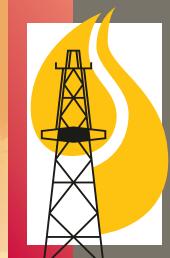
EHY202 Aspen HYSYS Advanced Process Modeling Topics (2 days)

22 – 23 November 2021

Contact: amal.alaamer@gda.org.bh

OVERVIEW COURSE

500+ Delegates | 20+ Courses


MPGC
 24-25 JANUARY 2022
 Bahrain

THE 29TH ANNUAL MIDDLE EAST PETROLEUM & GAS CONFERENCE

*Diverse Perspectives: Transitioning
Towards a Carbon Constrained World*
24-25 January 2022, Kingdom of Bahrain


 Save the dates
 & Enjoy the
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 Exclusive
 discount for
 GDA Members:
MPGC22GDA

 Register with
 promo code


Official Opening & Ministerial Address:

His Excellency Shaikh Mohamed Bin Khalifa Al-Khalifa
 Minister of Oil, Kingdom of Bahrain

Early confirmed speakers:



Dr. Dawood Nassif
 Chairman & Chief Executive,
 The Bahrain Petroleum
 Company (Bapco)



Dr. Fereidun Fesharaki
 Chairman, FGE



Mr. Philippe Khoury
 Executive Vice President,
 Sales & Trading,
 ADNOC Group



Mr. Alan Haywood
 SVP, ESG Transformation,
 BP p.l.c.



Mr. Patrick Dugas
 Vice President LNG Trading,
 TotalEnergies Gas & Power Ltd



Dr. Jeff Brown
 President, FGE Group



Mr. Hafedh Al Qassab
 BMP Project Director &
 Acting Deputy Chief Executive,
 The Bahrain Petroleum
 Company (Bapco)



**Mr. Sandeep
Kumar Gupta**
 Director Finance,
 Indian Oil Corporation



Mr. John Roper
 CEO Middle East,
 Uniper Global Commodities SE



Mr. Jae Hoon Choi
 Executive Vice President &
 CMO,
 Samsung Engineering Co. Ltd.



Mr. Khalid Buhazza
 General Manager Marketing,
 The Bahrain Petroleum
 Company (Bapco)



Dr. Edward L. Morse
 Global Head of Commodities
 Research, Citigroup



Dr. Andrew Walker
 VP LNG Strategy &
 Communication,
 Cheniere Marketing Ltd



Mr. Dave Ernsberger
 Global Head of Content &
 Market Insight,
 S&P Global Platts



Dr. Iman Nasser
 Managing Director of
 Middle East, FGE Dubai



Dr. Paul Horsnell
 Head of Commodities
 Research, Standard
 Chartered

 This is only a partial list of speakers. For updates, please visit www.mpgc.cc

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 #EnergyTransition
 #LNG

Become a Sponsor at MPGC 2022

More than 400 global brands have supported the annual Middle East Petroleum & Gas Conference (MPGC) over the years, as a high quality branding option. The iconic MPGC is a coming together of veritable oil and gas industry giants. It is a preferred platform for high visibility, brand recognition and profile. Now in its 29th year, let your brand be seen and associated with the best in the business.

STAY UPDATED





Commissioning & Start-up Technical Committee Meeting
held on 8 Sep 2021



Commissioning & Start-up Technical Committee Meeting
held on 11 Aug 2021

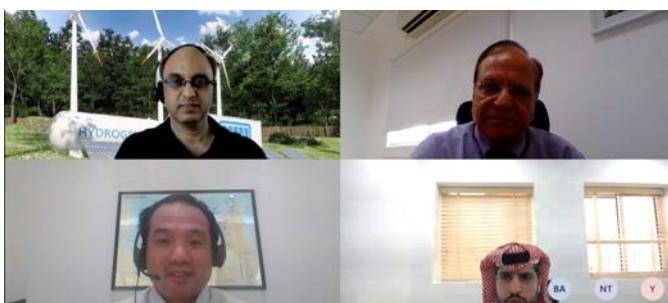


Digitilisation Technical Committee Meeting
held on 06-July-2021



Energy Management Technical Committee Meeting
held on 27 July 2021

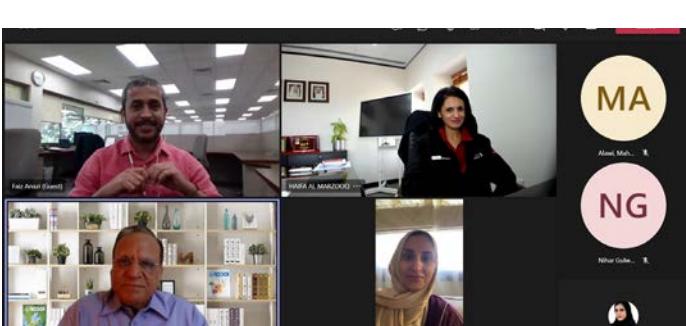
TECHNICAL COMMITTEE VIRTUAL MEETINGS



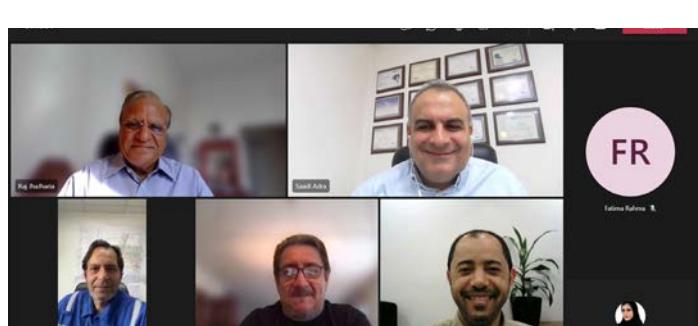
Industry Trends Technical Committee Meeting
held on 25 Aug 2021



Leadership and People Development
Technical Committee Meeting held on 1 Sep 2021



Operational Excellence Technical Committee Meeting
held on 30 Sep 2021



Project Management Technical Committee Meeting
held on 15 Sep 2021

GDA Conversations

with Access Partnership — Ep. 18

In collaboration with

GDA CONVERSATIONS
Webinar Series Episode 18

**DATA POLICIES
FOR DOWNSTREAM
DIGITAL
TRANSFORMATION**

03 AUGUST 2021 14:00 BAHRAIN & KSA

SPEAKERS

- Aziz Mohamed
Director, Government Affairs and Policy
Cisco
- Bassam Elkadri
Director, Industry and Value Advisory,
Energy and Natural Resources, MENA, SAP
- Logan Finucan
Senior Manager, Data Policy & Trust
Access Partnership
- Ryan Johnson
Senior Director, Global Market Access &
Government Affairs - Viasat, Inc

MODERATOR

- Bassam Jayed Alshammari
Chairperson Digitalisation Technical Committee, GDA
Technical Leader Corporate Applications, KNPC

Downstream oil and gas companies increasingly focus on digital solutions to attain increased productivity and lower costs. These digital solutions' success rests on data, a resource that used to be scarce and now is abundant. However, inadequate policies, both internal and external, can challenge the success of data-driven solutions, something that warrants further exploration.

This session brought together industry representatives with direct experience in downstream oil and gas digital transformation and analysed with them the enabling policies required for success in data-driven environments. **The event covered:**

1. **Data Classification Frameworks**, which categorise data by sensitivity and business impact and are the essential starting point for data governance. The lack of data classification frameworks, or frameworks that are too rigid, can limit data management and lead to optimisation losses.
2. **Cloud-First Policies**, which establish that, when procuring new or existing services, potential cloud solutions should be evaluated first and before considering alternative options, something that can lead to efficiency and security gains across the board.
3. **Digital Upskilling Initiatives**, which aim at equipping the workforce with the knowledge to maintain a digital transformation process and fully capitalise data-driven insights. In the absence of this, digital transformation efforts will not succeed in transforming organisational culture.

Watch now

[Click here to watch previous episodes](#)

What's new on

KNOWLEDGE HUB

Bite-sized videos

- Introducing Innovative Technologies to improve HSSE Performance, Monitoring and Analysis By Health, Safety and Environment Technical Committee
- Team-up for Safe Start-up By GDA Commissioning & Start-up Technical Committee
- Digital Solutions for Manufacturing By GDA Operational Excellence Technical Committee
- The Emotional Wellbeing and Engagement Model or Framework By Leadership and People Development Technical Committee
- Standard for Fired Equipment Bogging Protocol By GDA Commissioning & Start-up Technical Committee
- Alarm Management by CLG GDA Operational Excellence Technical Committee

Best Practices

- Team up for Safe Start up
- EHS Management System Audit Protocol

White Papers

- Moving Towards Fired Heater Safety Compliance

Presentations

- Standard For Fired Equipment Bogging Protocol
- What to Expect in The Aftermath of Covid - 19
- Uplifting Refining Margins Through Cognitive Cleaning
- Staying True to Your Reliability Journey
- Creating Value Through a Proven Circular Solution for Refining Spent Residue Upgrading Catalysts
- Beyond 2020 – Futures for The Oil and Downstream Industry
- ASTM and Lubricant Monitoring Using Best Data to Make Best Machine Decisions
- Critical Technological Aspects for Reliable Residue Hydrocracking Using Lc-FINING™ Technology
- Bapco Fire Incident During T&I
- Alarm Management

Lessons Learned

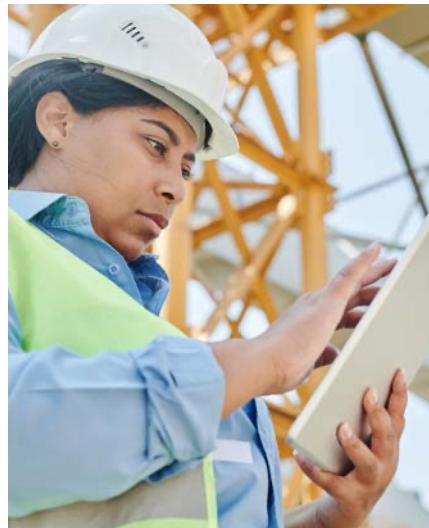
- Key Takeaways from Webinar on Climate Change and Covid19- Its Effect on Energy and Middle East
- Key Takeaways from Leadership Dialogue with Felipe Bayon, Ceo-Ecopetrol (TESG)
- Key Takeaways from “Supply Chain Resiliency During Covid19- And Beyond” Webinar
- Key Takeaways from Global Executive Petroleum Virtual Conference

Click here to view Knowledge Hub

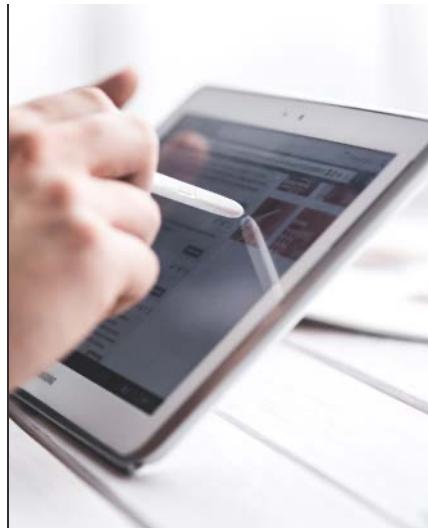
COMMITTEE WEBINAR



Introducing Innovative Technologies to improve HSSE Performance, Monitoring and Analysis
By Health, Safety and Environment Technical Committee



Team-up for Safe Start-up
By GDA Commissioning & Start-up Technical Committee



Digital Solutions for Manufacturing
By GDA Operational Excellence Technical Committee



The Emotional Wellbeing and Engagement Model or Framework
By Leadership and People Development Technical Committee



Standard for Fired Equipment Bogging Protocol
By GDA Commissioning & Start-up Technical Committee



Alarm Management
by CLG GDA Operational Excellence Technical Committee

Predict asset failures weeks, even months, in advance.

Learn how Prescriptive Maintenance technology — powered by AI and machine learning — saves companies upwards of \$80M annually by eliminating unplanned downtime. Get the full story.



Download the white paper!

Prescriptive Maintenance: Transforming Asset Performance Management



OUR NEW MEMBERS



ABB

ABB is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels. With a history of excellence stretching back more than 130 years, ABB's success is driven by about 105,000 talented employees in over 100 countries.



Project Management Institute (PMI)

Project Management Institute (PMI) is the world's leading professional association for a growing community of millions of project professionals and changemakers worldwide

Transform the construction industry

The PMI Professional in
Built Environment Projects
(PMI-PBEP)TM Certification



New PMI Offering to Address Construction Industry Downfalls

The world is relying on construction professionals and organizations more than ever, with an addressable market for construction managers estimated to be 29-35 million globally.

However, history tells us that the construction industry typically underperforms, due to low-price tendering, scope creep, poor communication, and technology management, causing construction projects to take 20 percent longer to finish and up to 80 percent over budget, according to McKinsey. And, the pressure is mounting as outlined in the Project Management Institute's (PMI) Megatrends report as these professionals are being tasked with leading rapid industrialization efforts globally.

To stay relevant, construction professionals need to upskill to ensure they have the skills to complete projects that are both on time and under budget, especially as more construction organizations experiment with technology such as artificial intelligence, drones, robotics, and cloud storage.

As the world's leading project, program, and portfolio management association with over 50 years experience PMI is in the unique position to help address key challenges faced by the global construction industry and better equip professionals with the skills needed to bring projects of all sizes to life.

By working with industry experts, such as Saudi Aramco, PMI created the Professional in Built Environment Projects (PMI-PBEP)TM, a full certification for project professionals in construction. The series includes 7 e-learning courses, 3 of which are micro-credentials, and a capstone exam to earn the certification. The first three courses are launching Q4 2021, with the final courses and capstone exam launching in 2022.

To learn more, visit: <https://www.pmi.org/certifications/construction>

INDUSTRY PARTICIPATION

DigiConnect Asset Integrity in Oil & Gas



GDA collaborated with GMEvents as a Supporting Partner of the Asset Integrity in Oil, Gas and Petrochemicals DigiConference, which took place virtually via Zoom on 7th September 2021.

Focusing on streamlining operational performance through asset management transformation, this conference brought together the leading influencers and decision makers in the field, sharing insights and best practices on how to effectively manage their assets to deliver value, as well as showcasing the latest technological advancements and innovative solutions to tackle current and future challenges.

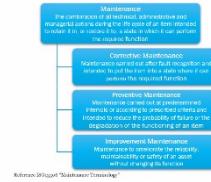
GDA nominated speaker Mr. Gaetano De Santis, General Manager, Reliability & Maintenance Division, BAPCO joined the following thought leaders in this virtual event:

- Bala Aj, Lead Data Scientist, Petrofac
- Jorge Pirela Galban, Reliability Engineering Lead, Daleel Petroleum
- Rafael Guillermo Mora, Pipeline Integrity and Digital Transformation Expert
- Syed Waqar Hussain, Head of Asset Optimization, Fuel Analytics and Business Process Optimization, ADNOC Distribution
- Mustafa Kaouri ,Head of Artificial Intelligence, Sr. Product & Project Manager, Kuwait Oil Company
- Mostafa Abdel Aziz Integrity Technical Authority, Sharjah National Oil Corporation (SNOC)
- GDA extended the complimentary invite for this event to all its members



There are Three Types of Maintenance

It is important to get the balance right, and to measure HOW money is spent.



“The task of leadership is not to put greatness into humanity, but to elicit it, for the greatness is already there” - John Buchan

INDUSTRY PARTICIPATION

ASSP 2021 Annual Award Ceremony



GDA supported the ASSP 2021 Annual Award Ceremony in a virtual event. American Society of Safety Professionals (ASSP) is a Knowledge Partner of GDA.

GDA Technical Manager Raj Jhajharia represented GDA in this event, where selected private companies within the GCC were recognised by various awards in the field of Health Safety and Environment for their excellence in different fields, such as Manufacturing, Oil & Gas, Contracting, Projects, Waste management, Road safety, etc.

SPE Annual Technical Conference and Exhibition



GDA attended the SPE – Annual Technical Conference & Exhibition as the first in-person event since the start of the COVID-19 pandemic on 22nd September 2021 in Dubai World Trade Centre.

GDA Conference partner 'E3' Energy Events Experts were exhibiting in SPE

INDUSTRY PARTICIPATION

2nd MENA Energy Meet 2021



2nd MENA Energy Meet 2021 was a Virtual Summit and Expo which took place from 30-31 August 2021.

Gulf Downstream Association (GDA) was one of the main Supporting Partners of the event with energy professionals from its key member companies attending the event as delegates.

The Event Agenda explored trends driving innovation, optimization, and improvement across the industry from Upstream and Downstream Oil & Gas, Hydrogen, Decarbonization, Power and Utilities, Petrochemicals, Renewable Energy, Energy Efficiency and Climate Change.

The Event was held for 48 Hours starting from 30 August 2021, GST – 10:00hrs to ensure global attendance from all time zones. It was attended by 1,000+ visitors, 40+ Local and International Speakers, and 10+ Local and International Exhibitors.

VIRTUAL LEWAS SYMPOSIUM

Global Business and Diversity leaders in the energy sector will share what '**FLEXIBLE**' looks like to them with regards to the future of work.

How do you empathize while still ensuring bottom line is not affected?



Leadership Excellence
for Women Awards & Symposium

FREE REGISTRATION

23 NOVEMBER 2021

LEWA-SYMPOSIUM.ORG

GIVE TO GET

Have you ever wondered why a red apple looks red?

Let's investigate into the science behind this phenomenon.

When white light falls on the apple, it absorbs all other 6 colours of the spectrum (VIBGYOR), except 'red' which is reflected to our eyes, thus giving it 'red' colour. When an object absorbs all the 7 colours of the spectrum, then it looks 'black'. Similarly, when an object reflects the entire spectrum of colours, absorbing none, it appears 'white'. In conclusion, an object appears to have the colour that was 'given' away.

No wonder, white is a symbol of purity and goodness, while black often symbolizes dark / impure.

Same phenomenon plays in the nature and in life. No tree can hold on to its fruit after it has ripened. Trees give their fruits to get new fruits and remain alive radiating freshness. Rivers give their water to receive fresh water from rain and thus keep flowing.

Wherever there is light, a lamp is silently burning away to illumine its surrounding. Wherever there is progress and growth, someone is working relentlessly to make it happen. 'Giving' is at the heart of our sustenance and growth.

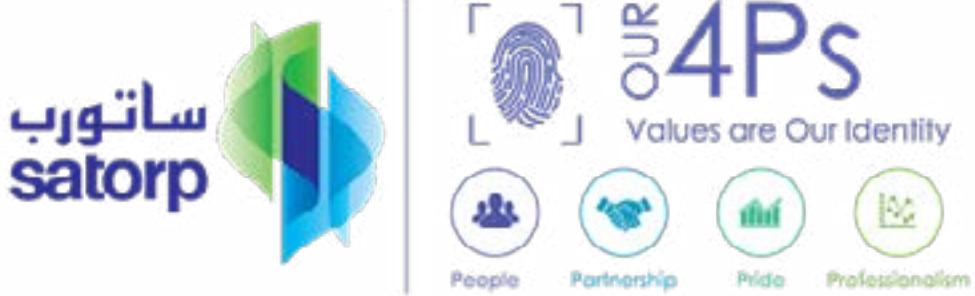
Those who never give, suffer and live a meaningless life. When we give, we gain priceless joy that cannot come from any act of acquiring. What goes round, comes around. Human history is filled with examples of people who rose to the height of human perfection through noble acts of 'giving' and left a rich legacy. And yet, they attributed their own success to their predecessors.

Sir Isaac Newton has famously said, "If I have been able to see farther than others, it was because I stood on the shoulders of giants." If we can talk about IR4.0 today, it is because countless people have contributed towards its predecessors IR1.0; IR2.0; and IR3.0. Our future generations will also derive benefits from what we leave behind today.

GDA offers many platforms and opportunities for its members to contribute their 'Individual Best' and take away 'Collective Best' of others. Even non-members can benefit from many knowledge deliverables available on the GDA Knowledge Hub. GDA, in the process, is building a rich repository of collective knowledge from all the experts of the downstream industry for the future practitioners and generations. Join this journey and enjoy the benefits of 'Giving'.

Contributed By: Raj Jhajharia





4Ps VALUES AMBASSADORS RECOGNITION PROGRAM

“Values are essential as it impacts the way we think, interact, and behave. It shapes our culture and everything we do. Each decision we make is related to our values, in one way or another. We are launching the 4Ps Values campaign to stress on the importance of our values to our employees. It is imperative to understand them, believe in them, and embrace them”

Sulaiman M. Ababtain – SATORP President and CEO

This is how SATORP launched its 4Ps values Program back in 2019 aiming to make its values alive and integrated in the fabric of each SATORPIAN's daily work. Since then, SATORP has achieved the following:

- The frequent use of 4Ps in decision making, announcements, personal signatures, and more has increased. This has been highlighted during external excellence awards assessments.
- The unification of recognition efforts under the newly introduced initiative the “4Ps Ambassadors” umbrella. This annual initiative, which began in 2020, has contributed in promoting our values and maximizing the focus on them. SATORPIANS also receive awards substantial awards resulting from their contributions to corporate projects, in addition to their normal job responsibilities.
- In 2021, SATORP recognized 159 4Ps Ambassadors who've been awarded Platinum, Gold, Bronze, and Distinguished Ambassador titles, for participating in various corporate projects (31). The projects were categorized under each of the 4Ps values: People, Pride, Partnership, and Professionalism.

- The resonance of the program is visible on corporate social media through the company's employees, which publicly reinforces the mission of SATORP and its values. Furthermore, our peers are considering adopting this concept and implementing it.

SATORP have also conducted different business excellence assessments to reflect the performance achievements and equally capture the gaps and opportunity for improvement. During 2019 we approached King Abdulaziz quality award, KAQA the most prestigious national award for the large production enterprise sector, to assess SATORP performance.

By December 2020, KAQA announced the winners and SATORP was recognized and awarded Silver category. This great success motivated the organization to continue the process of assessment and apply for external award Shaikh Khalifa Excellence Award SKEA beginning 2021.

This round was challenging with different award model, yet the team was competent to provide all evidence and lead along with external assessors to explore all assessment criteria. On September 22nd, 2021, SKEA awarded SATORP GOLD category in Oil and Gas sector.

Such success would not have been achieved without the strong belief and support of SATORP President & CEO and the Management Committee. Also, SATORPIANS are ambitious toward creating a unique program to achieve our shareholder aspiration.



السفير البلاتيني
Platinum Ambassador

السفير الذهبي
Golden Ambassador

السفير البرونزي
Bronze Ambassador

السفير المميز
Distinguished Bronze

Diversity Initiative to promote (People Value)

SATORP provided a dedicated booth for each nationality during the family day (2019) to present their traditions.



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Host

15-18 November 2021

Abu Dhabi, United Arab Emirates

VISITOR

REGISTRATION NOW OPEN

100,000+

2,000+

51

26

TRADE
VISITORS

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COMPANIES

NOCS, IOCS
AND IECS

EXHIBITING INTERNATIONAL
COUNTRY PAVILIONS



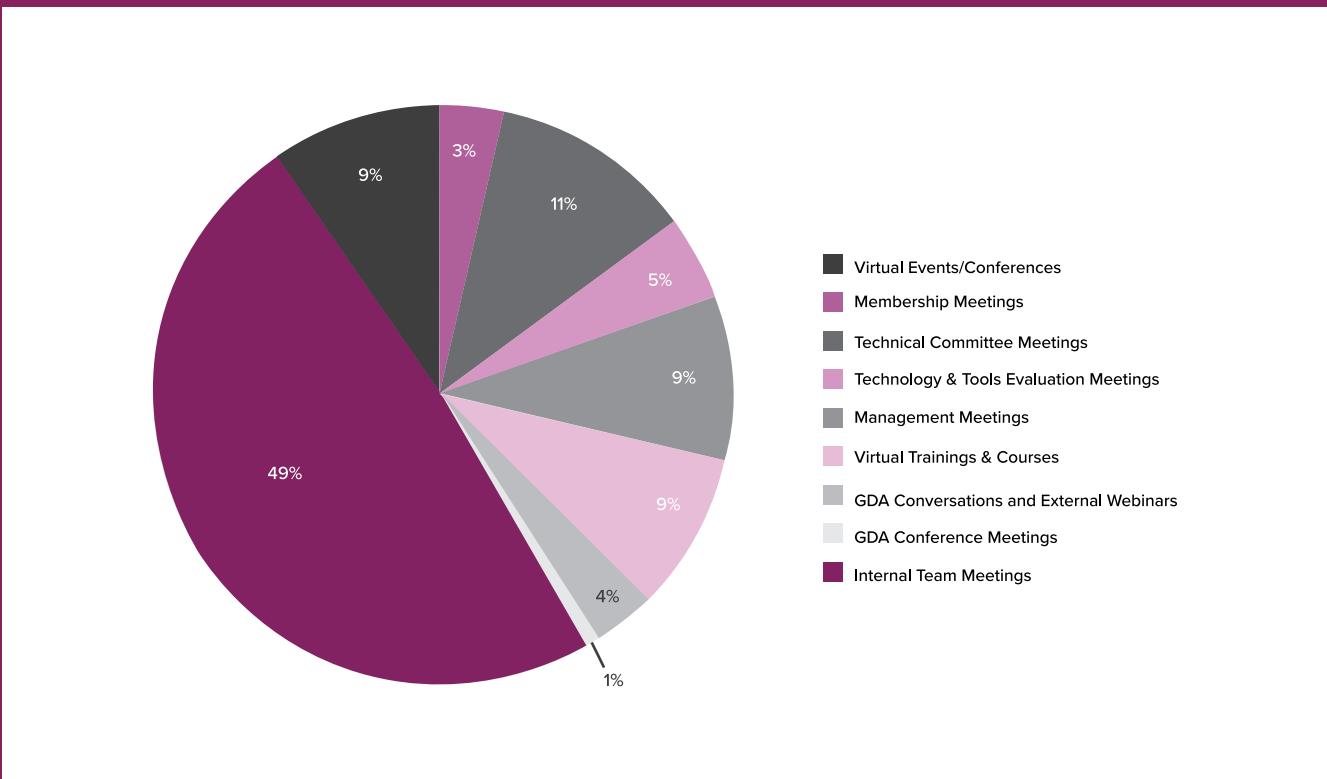
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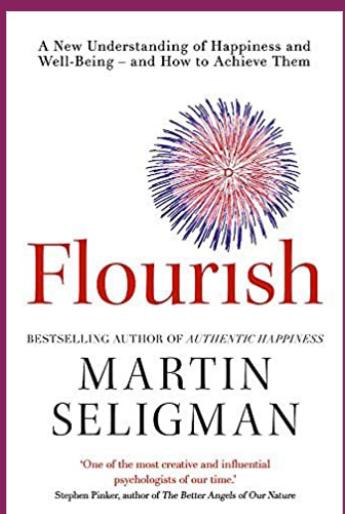
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VIRTUAL MEETING STATISTICS



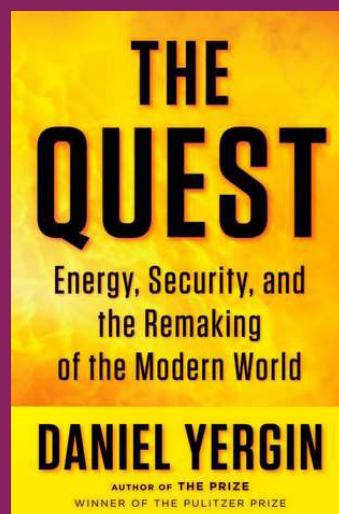
RECOMMENDED READING



Flourish: A New Understanding of Happiness and Well-Being - and How To Achieve Them
ISBN: 978-1439190760

This book will help you flourish - with this unprecedented promise, internationally esteemed psychologist Martin Seligman begins Flourish, his first book in ten years - and the first to present his dynamic new concept of what well-being really is. Traditionally, the goal of psychology has been to relieve human suffering, but the goal of the Positive Psychology movement, which Dr Seligman has led for fifteen years, is different - it's about actually raising the bar for the human condition.

Flourish builds on Dr Seligman's game-changing work on optimism, motivation and character to show how to get the most out of life, unveiling an electrifying new theory of what makes a good life - for individuals, for communities and for nations



THE QUEST
ISBN: 9780143121947

The Quest tells the inside stories, tackles the tough questions, and reveals surprising insights about coal, electricity, and natural gas. He explains how climate change became a great issue and leads readers through the rebirth of renewable energies, energy independence, and the return of the electric car.

Epic in-scope and never more timely, The Quest vividly reveals the decisions, technologies, and individuals that are shaping our future.



International Downstream Conference & Exhibition

IN-PERSON EVENT

31 MAY - 2 JUNE 2022 | KINGDOM OF BAHRAIN

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MIDDLE EAST
STRATEGIC PLATFORM
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DOWNSTREAM
PROFESSIONALS

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