

TRANSFORMING **PROCESS ENGINEERING** THROUGH INNOVATION

14 -16 October 2019

Bahrain International Exhibition
& Convention Centre

POST EVENT REPORT

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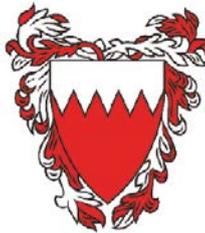
Industry Initiatives





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Prince Khalifa bin Salman Al Khalifa
Prime Minister, Kingdom of Bahrain

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Table of Contents

Our Sincere Thanks to the Leaders of MEPEC and WPC Downstream Conference 2019	4
A Note of Gratitude	5
Advisory Committee	6
Technical Committee	7
2019 Key Numbers	8
Testimonials	8
Participating Countries, Participants by Continent and Participants by Industry	9
Global Experts Gathered to Discuss the Impact of Innovation on Process Engineering	10
Opening Ceremony	11
Thank You to Our Speakers	13
Keynote Sessions	14
Panel Discussions	16
Conference Program	19
iPoster Presentations	27
The Exhibition	29
Testimonials	29
Exhibition Floorplan	30
Exhibitors List	31
The Leading Awards & Symposium for Women in the Energy Industry in the Middle East	32
AIChE Middle East Regional Chem-E-Car Competition®	33
ChemME – A Dedicated Track for Youth Participants!	34
ChemME Program	35
Thank You to the “Leaders to Inspire” Speakers	35
ChemME in Numbers	35
Innovation Zone	36
Special Thanks To...	37
Official Sponsors	38
Be a Part of the 2nd Edition of the GDA Conference	39

Our Sincere Thanks to the Leaders of MEPEC and WPC Downstream Conference 2019

Advisory Committee

CONFERENCE CHAIRMAN



Nasser A. Abanmi
President
SABIC - KEMYA

ADVISORY COMMITTEE CHAIRMAN



Ahmad A. Al Sa'adi
Senior Vice President,
Technical Services
Saudi Aramco

ADVISORY COMMITTEE CO-CHAIRS



June Wispelwey
CEO & Executive Director
American Institute of Chemical Engineers (AIChE)



Tor Fjaeran
President
World Petroleum Council (WPC)



Dr. Dafer Al-Jalahma
Chief Operating Officer
nogaholding

Technical Committee

CHAIRMAN



Noaman M. Fudhail
General Supervisor
Downstream Process Engineering Division
Saudi Aramco

ADVISORS



Mohammed A. Al-Ghamdi
Director, Technical
SABIC



Dr. Halim Redhwi
Board Member
SAS - AIChE

WPC Downstream Conference Committee

WPC DOWNSTREAM CONFERENCE CHAIRMAN



Tor Fjaeran
President
World Petroleum Council (WPC)

STRATEGIC PROGRAMME COMMITTEE



Gerardo Urias
Senior Director, Membership &
Global Industry Services
American Petroleum Institute



Pedro Miras Salamanca
Chairman
CORES

A Note of Gratitude



I would like to thank each one of you for your invaluable contribution to MEPEC 2019. This edition of MEPEC was about sharing expertise and solutions that can be adopted worldwide.

I am happy to report that we received great overall feedback about the successful launch of the event and the collective efforts of all participating companies that helped make the conference a phenomenal success. I trust that your expectations were met, and I hope that you have taken the opportunity to exchange experiences and ideas that can help refine existing concepts. I hope that MEPEC 2019 provided you with a platform to network with likeminded people and industry peers. Looking forward to an equally exciting edition in 2021.

Nasser A. Abanmi
Conference Chairman
President, SABIC – KEMYA



Advisory Committee

CONFERENCE CHAIRMAN



Nasser A. Abanmi
President
SABIC - KEMYA

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June Wispelwey
CEO & Executive Director
American Institute of Chemical Engineers (AIChE)



Tor Fjaeran
President
World Petroleum Council (WPC)

Members



Aman A. Ahmad
Vice President,
Business Development - EMEA
KBR Technology



Andre Lanning
Managing Director
ART Hydroprocessing



Craig Smith
CEO
Dhahran Valley Technology Development Company (DVTDC)



Fuad Mosa
Vice President - Local Content & Business Development Unit
SABIC



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



Jean Sentenac
Chairman & CEO
Axens



Mohammed Benchekchou
Director, Strategic Accounts
Middle East & North Africa
Shell Catalysts & Technologies



Nathan Ergonul
Vice President, Marketing,
Refining Technologies
W.R. Grace & Co



Nawaf Al-Humaidi Al-Anazi
Company President
SABIC - IBN ZAHR



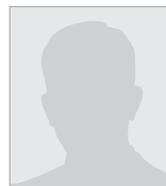
Noaman M. Fudhail
General Supervisor,
Downstream Process
Engineering Division
Saudi Aramco



Pierre De Vuyst
President & CEO
Yokogawa MEA



Dr. Pratap Nair
President & CEO
Ingenero Inc



Rami Qasem
President & CEO
Baker Hughes, a GE company



Reem Al Ghanim
Division Head, Chemicals
HR and Support Services
Saudi Aramco



Rob Howard
Vice President Sales MENA
Aspen Technology



Shakeel Kadri
Executive Director
CCPS



Suleyman M Ozmen
Sr. Consultant
Independent



Tamim Al Jasir
Business Development
Manager
Guardian Glass

Technical Committee

CHAIRMAN



Noaman M. Fudhail
General Supervisor
Downstream Process Engineering Division
Saudi Aramco

ADVISORS



Mohammed A. Al-Ghamdi
Director, Technical
SABIC



Dr. Halim Redhwi
Board Member
SAS - AIChE

Members



Abdulrahman Al-Ghamdi
Process Engineering
Manager
Sipchem



Dr. Abdullah Alqahtani
Sr. Manager, Global Cracker
Technology, Technology
and Innovation
SABIC



Dr. Anissa Sedjerari
Industry and Research Liaison
Officer, Innovation & Economic
Development Department
KAUST Catalysis Center



Dr. Ayuba Adesina
Lead Engineer
SABIC



David Renolayan
Technology & Process Engineering
Lead Domestic Refining
& NGL Fractionation
Saudi Aramco



Enad Al-Anazi
Process Engineering
Manager
S-Chem



Fadi Mhaini
Director,
Technology Licensing
CLG



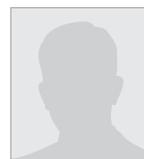
Dr. Hayat Abdulla Yusuf
Assistant Professor, Department
of Chemical Engineering
University of Bahrain



Dr. Hicham El Hajj
Plant Lab & QA/QC
Manager, Multi-Chem
Halliburton



Hiroki Usami
General Manager, R&D Center,
Process Solution Business
Yokogawa Saudi Arabia Company



Jad Abou Charbine
Technical Services Manager
Axens



Dr. Jesper Nerlov
Group Vice President
and Chief Technology Officer
Haldor Topsoe



Jim Brigman
Managing Director
Ingenero Inc



Kristine Chin
Senior Director,
Conferences & Education
**American Institute of
Chemical Engineers (AIChE)**



Mohammed A. Al Zahrani
Technical Support Division Head
Saudi Aramco



Mohammad N. Al-Haji
Engineering Consultant
Saudi Aramco



Dr. Mohammad Shamsuzzoh
Senior Engineer,
Process (Simulation)
ADNOC Refining



Morgan Allen
Senior Technical Services
Manager
W.R. Grace & Co



Dr. Nasiru Tukur
Engineering Consultant
Saudi Aramco



Nayef Enazi
Sr. Scientist, HDPE Unipol,
Polyolefins Process
SABIC



Dr. Oki Muraza
Associate Professor, Center of Research
Excellence in Nano-Technology
**King Fahd University of Petroleum
& Minerals (KFUPM)**



Saeed S. AlAloush
Engineering Specialist,
Process & Control Systems
Department
Saudi Aramco



Saifuddin Sheikh
Director,
Business Consulting
AspenTech



Sandeep Goel
Director, Business
Development ME
MCDERMOTT



Shahid Azam
Chief Scientist,
Functional Chemicals
SABIC



Waddah Al-Zaabi
Account Manager
ART Hydroprocessing

2019 Key Numbers



Testimonials

“MEPEC is an extraordinary event for receiving the latest information and technologies related to process engineering and the industry.”

- Faisal Alashour, Saudi Chevron Phillips

“MEPEC 2019 was a resoundingly successful conference that presented the latest in technology and advances being made in process engineering.”

- James Brigman, Ingenero Inc.

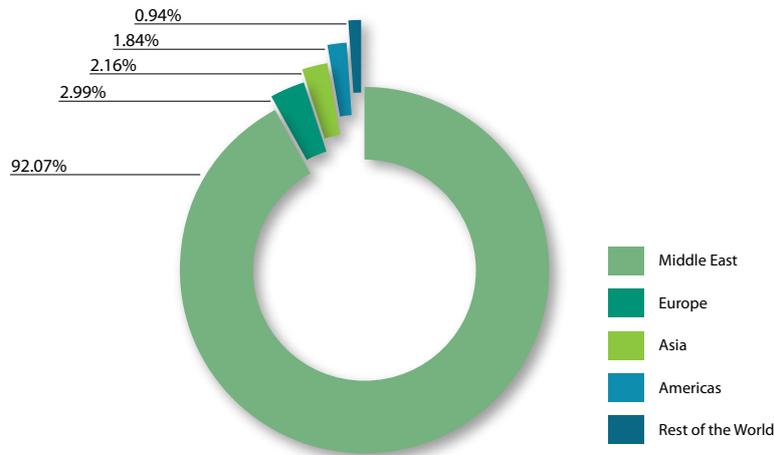
“The exchange of knowledge and ideas with other experts. Also gain broader insights about the business future and forecasts. Excellent arrangement was something that I am grateful about. Thank you”

- Safi Albuhairi, SAMREF

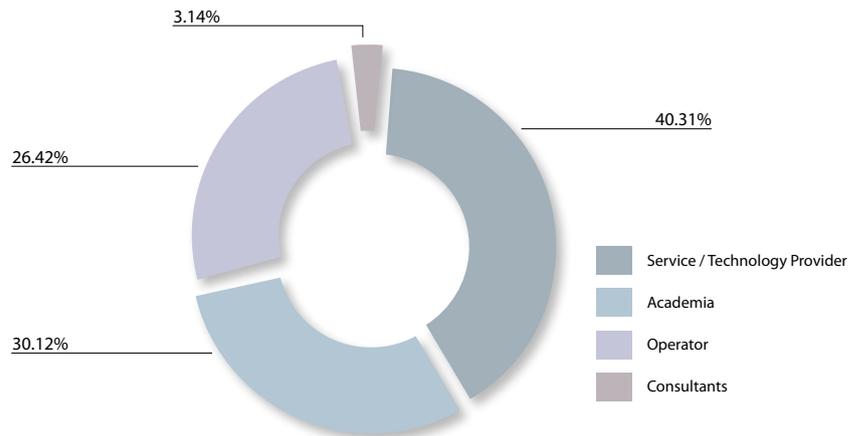
Participating Countries



Participants by Continent



Participants by Industry



Global Experts Gathered to Discuss the Impact of Innovation on Process Engineering

The 5th edition of MEPEC and the 1st edition of WPC Downstream Conference were held under the patronage of His Royal Highness Prince Khalifa bin Salman Al Khalifa, Prime Minister, Kingdom of Bahrain and was organized at the Bahrain International Exhibition and Convention Centre from the 14th - 16th October 2019.

MEPEC proved to be the definitive event for process engineering, this year's theme was "Transforming Process Engineering through Innovation". The event provided a platform to discuss best practices and allowed networking opportunities between technology providers, industry specialists and professionals from the engineering, construction, maintenance, supply chain and logistics segments of the sector.

WPC Downstream Conference focused on "Integration, Strategy and Leadership" with the objective of changing national visions, business models, customer requirements, environmental, sustainability and security drivers, this was a must attend event for key players across the downstream market.

The three-day conference saw keynote addresses and panel discussions by internationally acclaimed business leaders and distinguished technology experts.



Opening Ceremony

The conference was officially opened by His Excellency Shaikh Mohamed bin Khalifa Al Khalifa, Minister of Oil, Kingdom of Bahrain to an audience comprising of Ministers, Industry CEOs, decision-makers that gathered at the Bahrain International Exhibition & Convention Centre.



The Minister of Oil conveyed his gratitude and appreciation to the organizers and committee members, that helped deliver an unmissable, world-class networking event for delegates, visitors and investors. This exciting conference was organized by Middle East Energy Events with the cooperation and support of AIChE, SAS – AIChE, WPC, GDA and IEF.



The opening day saw welcome addresses delivered by the Conference Chairman - Nasser A. Abanmi - President, SABIC – KEMYA, Ahmad A. Al Sa'adi, Senior Vice President, Technical Services, Saudi Aramco and Tor Fjaeran - President, World Petroleum Council (WPC). They emphasized how the conference would make an ideal platform for interaction, sharing best practices and solution sharing.



The Ministerial Session featured eminent speakers such as His Excellency Shaikh Mohamed bin Khalifa Al Khalifa Minister of Oil, Kingdom of Bahrain; His Excellency Elnur Soltanov Deputy Minister of Energy, Republic of Azerbaijan and Dr. Sun Xiansheng Secretary General, International Energy Forum (IEF).



Thank You to Our Speakers

Keynote Speakers



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



His Excellency
Elnur Soltanov
Deputy Minister of Energy
Republic of Azerbaijan



Ahmad A. Al Sa'adi
Senior Vice President
Technical Services
Saudi Aramco



Bassam Al Bokhari
CEO
Saudi Petroleum Services
Polytechnic



Deborah L. Grubbe
Owner and President
Operations and Safety
Solutions, LLC



Jonathan Forbes-Lane
Vice President
Shell Catalysts & Technologies



Keith A. Couch
Senior Director,
Global Technology Sales
Honeywell UOP



Naji Skaf
President -
Middle East, Egypt, Turkey
Air Products



Nasser A. Abanmi
President
SABIC - KEMYA



Saad Al-Ayedh
EVP Petrochemicals
TASNEE



Dr. Sun Xiansheng
Secretary General
International Energy Forum
(IEF)



Tor Fjaeran
President
World Petroleum Council
(WPC)



Walt Szopiak
Vice President
Chevron Energy Technology

Plenary Speakers



Faisal Addas
Sr. Manager - LC Conversion
Business Development Local Content
& Business Development Unit
SABIC



Gerardo Uria
Vice President
American Petroleum Institute



June Wispelwey
CEO & Executive Director
American Institute
of Chemical Engineers
(AIChE)



Dr. Madhukar Garg
Head Refining
& Petchem R&D
Reliance Industries Limited



Mohammed Al-Habib
Downstream Account Director
Baker Hughes



Norm Gilsdorf
President, Honeywell High Growth
Regions Middle East, Russia
and Customs Union
Honeywell



Dr. Pinar Yilmaz
Advisor,
External Projects Upstream
Exxonmobil



Rob Howard
Vice President Sales MENA
Aspen Technology



Suleyman M Ozmen
Sr. Consultant
Independent

Keynote Sessions and Panel Discussion Highlights

The Conference saw three days of intense and important educational sessions enhanced by productive discussions. The program featured 72 informative technical presentations on Digital Transformation, Debottlenecking: Exploiting Opportunities to Boost Performance, Energy Efficiency and Sustainability and Revolutionary Technology by leading regional and international key players including AVEVA, Aspen Technology, Axens, Baker Hughes, Chevron Lummus Global (CLG), DNV GL, GAPTECH, Haldor Topsøe A/S, Ingenero Inc., KBR Technology, KFUPM, King Abdullah University of Science and Technology (KAUST), Kuwait National Petroleum Company (KNPC), OLI Systems Inc., Process Systems Enterprise Limited, Reliance Industries Limited, SABIC and its affiliates, SAMREF, Saudi Aramco, S-Chem, Shell Catalysts & Technologies, SINOPEC, SIPCHEM, TechnipFMC, W. R. Grace & Co., Wood Plc, and Yokogawa Middle East and Africa amongst many others.

Keynote Sessions



Ahmad A. Al Sa'adi, Senior Vice President, Technical Services, Saudi Aramco delivered a keynote address on “Adapting to the Shifting Dynamics of the Global Energy Landscape”. This shift involves a much deeper transformation of the world’s energy systems that will have major social, economic and political implications that go well beyond the energy sector.

Naji Skaf, President - Middle East, Egypt, Turkey, Air Products focussed on “Shaping the Future for Industrial Gas Customers”. He highlighted the need for integrating digital products into customer value streams and embracing sustainable solutions. He discussed how innovation helps in the drive towards smart manufacturing.



“Developing Future Innovative Workforce to Sustain Reliable Operational Excellence and Value Creation”, **Bassam Al Bokhari - CEO, Saudi Petroleum Services Polytechnic**. He shared his views on why sustainability strategy is the backbone of leading businesses aiming for best in class performance. He stated that a good number of companies start major changes by implementing a sustainability model to create value for all stakeholders by focusing on shifting to global leadership and skills and being a key Saudi vision 2030 contributor and champion.



“Inventing the Future – Chevron’s Commitment to Innovation”- **Walt Szopiak, Vice President, Chevron Energy Technology.** He spoke about investing in energy transition and its benefits. He concluded by discussing why investing in innovations and innovators are equally important.

“Ethical Practice is Foundational to Great Safety”, **Deborah L. Grubbe, Owner and President, Operations and Safety Solutions, LLC.** She spoke about how engineering ethics frequently has nothing to do with technology and everything to do with communication, thought and decision making patterns.



Saad Al-Ayedh, EVP Petrochemicals, TASNEE delivered a keynote on “Creating Value Through Operational Excellence”. He shared how Tasnee embarked on a multidimensional transformation program and it is focussed on sustainability and continuous improvement. He emphasized that operational excellence goes beyond what most people think about as “lean”.

“Modern Refinery Config for R&P Integration”- **Keith A. Couch, Senior Director - Global Technology Sales, Honeywell UOP.** He stated that as the Middle East Investments span the globe there are further investments with a progressive trend toward petrochemicals. He shared his thoughts on how new technology innovation will focus on process intensification, bottoms upgrading, getting more from less and petro-chemicals integration is becoming the standard for new world-scale refinery investments. Thus, making the refinery of the future a reality now.





“Strategic Imperatives for the Middle East’s Refiners” - **Jonathan Forbes-Lane, Regional VP - Catalyst Sales, Shell Catalysts & Technologies**. With energy trade and investment becoming more regionally concentrated, the Middle East downstream industry will be open to the concept of globalization.

Panel Discussions



From left to right: Suleyman M Ozmen - Sr. Consultant, Independent; Pedro Miras Salamanca - Chairman, CORES; Dr. Madhukar Garg - Head Refining & Petchem R&D, Reliance Industries Limited

WPC Downstream, Global Leadership Panel - The Future of Refining and Petrochemicals

With the need for cleaner gasoline and diesel fuels, new challenges arise with respect to lower sulphur contents in products (particularly of marine fuels, IMO 2020), cleaner feedstocks and residual processing. Improvements, e.g. of catalysts for HDS, FCC and alkylation could help in this respect. Also, emission reduction and co-processing of renewables are big issues. This panel discussion debated the question, which innovative technologies will have an impact on the future of the refining sector.



WPC Downstream, Panel Discussion - Digital Transformation Strategies in Downstream

This roundtable discussion focused on how digital technology is currently utilized for asset integrity. What are its advantages and disadvantages? What could the ideal model of digital technology for future asset integrity look like? And what will encourage or hinder the realization of the ideal model?

Moderated by **Milton Costa Filho** - Secretary General, IBP - Brazilian Petroleum, Gas and Biofuels Institute; Speakers: **Norm Gilsdorf** - President, Honeywell High Growth Regions Middle East, Russia and Customs, Union, Honeywell; **Rob Howard** - Vice President - MENA, Aspen Technology and **Mohammed Al-Habib** - Downstream Account Director, Baker Hughes all shared their thoughts.



WPC Downstream, Expert Panel Session - Future Feedstocks, and Refinery Integration

Moderated by **Dr. Pierce Riemer** - Director General, World Petroleum Council (WPC); Speakers: **Rob Howard** - Vice President - MENA, Aspen Technology and **Keith A. Couch** - Senior Director - Global Technology Sales, Honeywell UOP discussed integrating refining and petrochemical sites to help reduce volatility in the petroleum value chain. When properly designed, planned and implemented, the integration will not only diversify companies' product portfolio but will reduce site-specific costs, increase capital efficiency and elevate returns. The practical case studies in this forum demonstrated how strategic planning and operation of refining and petrochemical conversion units with common utilities can capture long term business benefits.



Special Session – “The Permian Success Story and the Resurgence of the U.S. Refining Sector,” **Gerardo Uribe - Vice President, American Petroleum Institute**

“Process intensification methods usually rely on a novel driving force (e.g., rotation) or nonstandard configuration (e.g., microchannels) to enable increased control over mixing, reaction, and heat, mass & momentum transfer to bring about step changes in the reduction of energy consumption and capital costs.”- **Dr. Madhukar Garg, Head Refining & Petchem R&D, Reliance Industries Limited**



“Transforming the Process Industries Through Modular Chemical Process Intensification. Modular Processing is a shift from bigger is better paradigm to small, modular paradigm and rethinking systems to enable flexible, distributed manufacturing.”- **June Wispelwey, CEO & Executive Director, American Institute of Chemical Engineers (AIChE)**

“Our three commitments are: what we commit to deliver, to achieve our purpose. We push the limits of quality, efficiency, and performance to drive customer success. We bring preparation and judgement to help lasting reliability and we collaborate closely to create opportunities for sustainable growth.”- **Faisal Addas, Sr. Manager - LC Conversion Business Development Local Content & Business Development Unit, SABIC**



MEPEC Conference Program

DAY 1 Monday, 14 Oct 2019

📍 Bahrain International Exhibition & Convention Centre

09:30 - 09:40

Opening Remarks

📍 Palm Hall

Speakers

Nasser A. Abanmi President, SABIC - KEMYA

Tor Fjaeran President, World Petroleum Council (WPC)

09:40 - 10:00

Keynote Speech

📍 Palm Hall

Adapting to the Shifting Dynamics of the Global Energy Landscape

Speaker

Ahmad A. Al Sa'adi Senior Vice President, Technical Services, Saudi Aramco

10:00 - 10:50

WPC Downstream, Global Leadership Panel - The Future of Refining and Petrochemicals

📍 Palm Hall

Moderator

Pedro Miras Salamanca Chairman, CORES

Speakers

Suleyman M Ozmen Sr. Consultant, Independent

Dr. Madhukar Garg Head Refining & Petchem R&D, Reliance Industries Limited

10:50 - 11:10

Coffee Break

📍 Exhibition Hall

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11:10 - 12:30

Technical Sessions - 3

Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Al Fanar	Digital Transformation 📍 Palm Hall
Moderator Dr. Ayuba Adesina Lead Engineer, SABIC	Moderator Dr. Anissa Sedjerari Industry and Research Liaison Officer, Innovation & Economic Development Department, KAUST Catalysis Center	Moderator Saifuddin Sheikh Director, Business Consulting, Aspen Technology
<i>Optimizing Value Through Converting Residuum Into Clean Fuels or Petrochemicals</i>	<i>Conceptual Design and Energy Analysis of Integrated Gasification and Reforming Technologies for Syngas Production</i>	<i>The Role of Process in the Digital Transformation</i>
Speaker Dr. Julie Chabot Resid R&D Technical Team Leader- Applied Technology, Chevron Lummus Global	Speaker Hussain Alibrahim CHE Senior Student, King Fahd University of Petroleum & Minerals (KFUPM)	Speaker Norbert Jung VP Product Management - Process and Simulation, AVEVA
<i>Constant Feed Composition and Performance Analysis Increases Pygas Run Length</i>	<i>Toward Optimum Design of Industrial Steam and Power Systems</i>	<i>Process Manufacturing Digital Twin to Achieve Operations Excellence</i>
Speaker Faisal Al Ashour Process Engineer, S-Chem	Speaker Mana Alowaidh Engineering Consultant - Energy Systems, Saudi Aramco	Speaker Jim Brigman Managing Director, Ingenero Inc
<i>Modeling and Optimization of Pressure Distillation to Achieve Pharma Grade Tetrahydrofuran Product from Tetrahydrofuran Water Mixture</i>	<i>Improvements in Residue Gasification Increase Feed Flexibility for Virtually Bottomless Refineries</i>	<i>Sustaining Crude Quality Specifications by Leveraging IR 4.0 Solution in Midstream Processing</i>
Speaker Vijay Shirpurkar Process Engineer, Sipchem	Speaker Simon Cackett Licensing Technology Manager, Shell Catalysts & Technologies	Speakers Syed A. Ahmed Process Engineer, Saudi Aramco Majed A. Al-Jeshi Process Engineer, Saudi Aramco

Day 1 Monday, 14 Oct 2019 (cont.)

12:30 - 13:30

Lunch Break
📍 Exhibition Hall

Sponsored by **Honeywell**
uop

13:30 - 14:50

Technical Sessions - 3

Revolutionary Technology 📍 Al Seef	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Fanar	Energy Efficiency and Sustainability 📍 Palm Hall
Moderator Dr. Nasiru Tukur Engineering Consultant, Saudi Aramco	Moderator David Renolayan Technology & Process Engineering Lead Domestic Refining & NGL Fractionation, Saudi Aramco	Moderator Jad Abou Charbine Technical Services Manager, Axens
<i>Novel Catalytic Cracking Technologies for Producing More Low Carbon Olefins and Light Aromatics</i> Speaker Jinquan Zhu R&D Senior Engineer, Research Institute of Petroleum Processing, SINOPEC	<i>Mitigation of Hydrate Formation in Module 5 De-Ethanizer Overhead System at Yanbu NGL Fractionation Department</i> Speakers Hae Yong Noh Senior Chemical Engineer, Saudi Aramco Ibrahim N Nashri Chemical Engineer, Saudi Aramco	<i>Utility Steam System Energy Optimization Best Practices at Khurais Crude Processing Facilities</i> Speaker Abdullah Malki Gas & Shipping Lead Engineer, Saudi Aramco
<i>Digital Transformation - Using Simulation and Engineering Data with Analytical Sciences to, not only turn Data into Information, but also to Drive the Process</i> Speaker Roy Calder Senior Director, Technical Solutions, AVEVA	<i>Optimal Process Design Approaches for Diesel Hydrotreater Unit Revamps</i> Speaker Muhammad Ilyas Technology Licensing Manager, Haldor Topsøe A/S Denmark	<i>Energy Performance Indices (EPIs) - Self-Benchmarking for Continual Improvement; a Statistical Approach</i> Speakers Ahmed Aseeri Founder & CEO, Gulf Advanced Process Technologies Co. (GAPTECH) Satish Mantri Process Engineer, Sipchem
<i>Innovations in Catalysts and Processes for Refining Applications</i> Speaker Dr. Theo Maesen Director CLG R&D, Chevron Lummus Global	<i>Unlocking Potential of a Resid Hydroprocessing Unit through Reactor Internals – A Case Study</i> Speakers Abdullah Mandani Senior Process Engineer, Kuwait National Petroleum Company (KNPC) Mohammed Benchekchou Director, Strategic Accounts - Middle East & North Africa, Shell Catalysts & Technologies Mohammed Fahad Ajmi Senior Operations Engineer, Kuwait National Petroleum Company (KNPC) Dilipkumar Thakur Shell Catalysts & Technologies	<i>Energy efficiency improvement initiatives in KNPC MAA refinery</i> Speaker Vijayaraghavan Ganeshkumar Process Engineer, Kuwait National Petroleum Company (KNPC)

15:00 - 16:20

Technical Sessions - 3

Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Al Fanar	Digital Transformation 📍 Palm Hall
Moderator Shahid Azam Chief Scientist, Functional Chemicals, SABIC	Moderator Dr. Oki Muraza Associate Professor, Center of Research Excellence in Nano-technology, King Fahd University of Petroleum & Minerals (KFUPM)	Moderator Ayman Salamah General Sales Manager, W.R. Grace & Co.
<i>De-Butanizer Tower Bypass Facility</i> Speaker Fahad Alsaad SABIC - KEMYA	<i>Energy Optimization in Air Separation Units (ASU) Using Advanced Process Control (APC)</i> Speaker Carlos Gonzalez Senior Process Control Engineer, SABIC - GAS	<i>SAMREF FCC DMC Controller Revamp</i> Speaker Safi M AlBuhairi Senior Process Control Engineer, Saudi Aramco Mobil Refinery Company Ltd. (SAMREF)
<i>Ethylene Unit Reboiler Fouling Improvements</i> Speaker Rawaf Alrawaf Process Engineer - Technical, S-Chem		

Day 1 Monday, 14 Oct 2019 (cont.)

Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Al Fanar	Digital Transformation 📍 Palm Hall
<p><i>An Innovative Approach in Re-energizing Internal Profit Improvement Programs (PIP)</i></p> <p>Speakers Ahmed Altarkeet Snr. Manufacturing Excellence Engineer, Kuwait National Petroleum Company (KNPC) Azhari Dafaalla Senior Staff Consultant, KBC, A Yokogawa Company</p>	<p><i>Solid Slurry Stream Processing and Recovery Using Thin Film Evaporator Technology</i></p> <p>Speaker Majed Mulla Process Engineer, SChem</p>	<p><i>Combining the Power of Digital Twins with Cloud-Based Collaboration</i></p> <p>Speaker Saptarshi Bhowmick PSS Department Manager, Yokogawa MEA</p>
	<p><i>Energy Real-Time Optimizer - Steam & Condensate Balance</i></p> <p>Speaker Youngghee Jang Energy Engineer, Saudi Aramco</p>	<p><i>Improving Distillate Products Quality Using IR 4.0 Digital Solutions</i></p> <p>Speakers Abdelghani Daraiseh Sr. Engineering Consultant, Saudi Aramco Shahreyar Khan Project Advisor, Saudi Aramco</p>

16:20 - 16:40

Coffee Break

📍 Exhibition Hall

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16:40 - 17:30

Opening Ministerial Session

📍 Palm Hall

Introduction

Tor Fjaeran President, World Petroleum Council (WPC)

Speakers

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

His Excellency Elnur Soltanov Deputy Minister of Energy, Republic of Azerbaijan

Dr. Sun Xiansheng Secretary General, International Energy Forum (IEF)

17:30 - 18:20

WPC Downstream, Panel Discussion - Digital Transformation Strategies in Downstream

📍 Palm Hall

Moderator

Milton Costa Filho Secretary General, IBP - Brazilian Petroleum, Gas and Biofuels Institute

Speakers

Norm Gilsdorf President, Honeywell High Growth Regions Middle East, Russia and Customs Union, Honeywell

Rob Howard Vice President - MENA, Aspen Technology

Mohammed Al-Habib Downstream Account Director, Baker Hughes

18:20 - 18:30

Coffee Break

📍 Exhibition Hall

Sponsored by  **ساسرف**
SASREF

18:30 - 19:15

Exhibition Inauguration

📍 Hall 1

20:00

Gala Dinner

📍 Gulf Hotel

Speakers

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

June Wispelwey CEO & Executive Director, American Institute of Chemical Engineers (AIChE)

Sponsored by



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DAY 2 Tuesday, 15 Oct 2019

📍 Bahrain International Exhibition & Convention Centre

09:00 - 10:30

WPC Downstream - Keynote Session

📍 Palm Hall 1

Shaping the Future for Industrial Gas Customers

Speaker

Naji Skaf President, Middle East, Egypt, Turkey, Air Products

Developing Future Innovative Workforce to Sustain Reliable Operational Excellence and Value Creation

Speaker

Bassam Al Bokhari CEO, Saudi Petroleum Services Polytechnic

Inventing the Future – Chevron’s Commitment to Innovation

Speaker

Walt Szopiak Vice President, Chevron Energy Technology

Ethical Practice is Foundational to Great Safety

Speaker

Deborah L. Grubbe Owner and President, Operations and Safety Solutions, LLC

10:30 - 10:40

Coffee Break

📍 Exhibition Hall

Sponsored by  **SASREF**

10:40 - 12:00

Technical Sessions - 3

Revolutionary Technology 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
Moderator Saeed S. AlAlloush Engineering Specialist, Process & Control Systems Department, Saudi Aramco	Moderator Shahid Azam Chief Scientist, Functional Chemicals, SABIC	Moderator Jad Abou Charbine Technical Services Manager, Axens
<i>Simultaneous Production of Benzene and Gasoline from C-6 Heart Cut of FCC gasoline</i> Speaker Dr. Madhukar Garg Head Refining & Petchem R&D, Reliance Industries Limited	<i>Modifying Aging Assets with Advanced Condition Monitoring Solution to Increase Availability, Reliability and Profitability by Optimizing Operation and Reducing Maintenance Costs</i> Speaker Fayyaz Karim Qureshi RECIPs and D&IS (Retrofit) Technical Leader, Baker Hughes, a GE company	<i>Advanced Process Control in Aromatics Plant</i> Speaker Abdulrahman Ashour Engineer I, Process Control, SABIC - IBNRUSHD
<i>Incremental Value from FCC Catalyst Innovation</i> Speaker Matt Kirchner Marketing Director - FCC Catalysts, W.R. Grace & Co.	<i>Optimal Temperature Control of a Batch Tank Equipped With a Steam Heating Coil System</i> Speaker Anas H. Safar Process Engineer, Saudi Aramco	<i>Technology of Refinery Off-Gas Recovery by Cold Oil absorption</i> Speaker Dr. Huawei Shao Senior Engineer, Beijing Research Institute of Chemical Industry, SINOPEC Group
<i>Reactor and Catalyst for the Direct Conversion of Crude Oil to Chemicals</i> Speaker Mohammad Alabdullah PhD Student, King Abdullah University of Science and Technology (KAUST)	<i>Capacity Stretch Evaluation Study and Implementation for Polyolefin Plant</i> Speaker Ibrahim Alsugai Scientist - Technology and Innovation, SABIC	<i>Identifying Energy Saving Opportunities in Fluid Networks via Hydraulic Modeling Techniques</i> Speaker Shardul Shindadkar Asst. Manager - Project Development, Ingenero Inc.

Day 2 Tuesday, 15 Oct 2019 (cont.)

12:00 - 13:00

Lunch Break

📍 Exhibition Hall

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13:10 - 14:30

Technical Sessions - 3

Digital Transformation 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
<p>Moderator Hiroki Usami General Manager, R&D Center - Process Solution Business, Yokogawa Saudi Arabia Company</p>	<p>Moderator Waddah Al-Zaabi Account Manager, ART Hydroprocessing</p>	<p>Moderator Dr. Hayat Abdulla Yusuf Assistant Professor, Department of Chemical Engineering, University of Bahrain</p>
<p><i>The Digital Refinery: Using Artificial Intelligence to Optimise Utilities Planning</i></p> <p>Speaker Gerardo Sanchis Andreu Senior Consultant Engineer, Process Systems Enterprise (PSE)</p>	<p><i>Synergizing De-foamer and Demulsifier Chemicals for Improved Crude Desalting</i></p> <p>Speakers Abdullaziz Alghanim Operation Engineer, Saudi Aramco Dr. Enow Achuo Kima Chemical Treatment Specialist, Saudi Aramco</p>	<p><i>A Quantitative Approach for Assessing Automatic Tank Overfilling Protection Systems (AOPS) Requirements</i></p> <p>Speaker Hesham Fandy Principal Risk Management Advisory Consultant, DNV GL Middle East</p>
<p><i>Digital Technologies to Support Plant Operations for Profitability</i></p> <p>Speakers Jatin Shah Director, Automation & Process Technologies, KBR Technology</p>	<p><i>Improving Refinery, Petrochemical and Upstream Margins by Closing the Gaps Between Planning, Scheduling and Advanced Process Control</i></p> <p>Speakers Krishna Chada Principal Solutions Consultant, Aspen Technology</p>	<p><i>Advanced Digital Twin Solution for CDU Column with Preheat Train Optimization</i></p> <p>Speakers Nageswararao Kesanapalli Principal Solution Consultant, Aspen Technology Saifuddin Sheikh Director, Business Consulting, Aspen Technology</p>
<p><i>Advanced Analytics for Smart Positioner Monitoring and Diagnostics</i></p> <p>Speakers Ayman Abu-Shameh Instrumentation Team Lead, Saudi Aramco Ammar S. Bakhurji Advanced Process Control Engineer, Saudi Aramco</p>	<p><i>Optimising Chemical Injection Performance & Reducing Cost</i></p> <p>Speaker Narayanan Suresh Regional Subject Matter Expert – Flow Applications, Yokogawa MEA</p>	<p><i>Flare System - Design Optimization using Reboiler Pinch</i></p> <p>Speakers Hasan Ali Amin Engineer I, Saudi Aramco Praveen Dhote Chemical Engineer, Siemens Sachin Kanade Process Safety Lead, Siemens</p>

14:30 - 15:00

Coffee Break

📍 Exhibition Hall

Sponsored by 

15:00 - 15:40

WPC Downstream, Special Session – The Permian Success Story and the Resurgence of the U.S. Refining Sector

📍 Palm Hall 1

Speaker

Gerardo Uria Vice President, American Petroleum Institute

Day 2 Tuesday, 15 Oct 2019 (cont.)

15:40 - 17:00

Technical Sessions - 3

Revolutionary Technology 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
Moderator Gerrit Polhaar Regional Director - MENA, Chevron Lummus Global	Moderators Hamza Alawi Technology Business Development Manager, Lummus Technology	Moderator Jim Brigman Managing Director, Ingenero Inc
<i>Carbon Utilization & Petrochemical Integration: Capturing Value via Residue to Chemicals Projects</i> Speaker Jacinthe Frécon Technology Group Manager, Axens	<i>Advanced Thermodynamic Model for Predicting Hydrochloride Salt Formation and Corrosivity in Crude Distillation Overheads</i> Speaker Dr. Anthony Gerbino Customer Success Leader, OLI Systems Inc.	<i>The Circular Economy in Saudi Aramco: Unlocking New Potential for Supply Chains</i> Speaker Mohammed Alyanbaawi Technical Support Engineer, Saudi Aramco
<i>Spray-Drying as an Efficient Method for the Preparation of Catalysts for the Direct Conversion of Crude Oil to Chemicals</i> Speaker Tuiana Shoinkhorova PhD Student, King Abdullah University of Science and Technology (KAUST)	<i>SAMREF Sulfur Recovery Unit Retrofits Uplift Performance Sulfur Quality Enhancement</i> Speaker Khalid Ghazal Technical Process Engineering Specialist (Sulfur & Amine Specialist), Saudi Aramco Mobil Refinery Company Ltd. (SAMREF)	<i>Energy Efficiency Enhancement Project for Methanol Plant - Exceeding the Expectations</i> Speaker Othman M Al-Ghamdi Process Engineer, Sipchem
<i>K-SAAT - A Break-through Solid Acid Alkylation Technology</i> Speaker Edward Griffiths Technology Manager, KBR Technology	<i>Flare Gas Recovery System Challenges</i> Speaker Mohammed AlMahmood Process Engineer, Saudi Aramco	<i>Modeling and optimization of microalgae-based Lead Removal Process using Response Surface Methodology articulated with Crow Search Algorithm</i> Speaker Dr. S M Zakir Hossain Assistant Professor, University of Bahrain

17:00 - 17:50

WPC Downstream, Expert Panel Session - Future Feedstocks, and Refinery Integration

📍 Palm Hall 1

Moderator

Dr. Pierce Riemer Director General, World Petroleum Council (WPC)

Speakers

Rob Howard Vice President - MENA, Aspen Technology

Keith A. Couch Senior Director - Global Technology Sales, Honeywell UOP

17:30 - 18:45

AICHE Middle East Regional Chem-E-Car Competition®

📍 Hall 1

AICHE Middle East Regional Chem-E-Car Competition sponsored by



Global Partner



DAY 3 Wednesday, 16 Oct 2019

📍 Bahrain International Exhibition & Convention Centre

09:00 - 10:30

Keynote Session

📍 Palm Hall 1

Creating Value Through Operational Excellence

Speaker

Saad Al-Ayedh EVP Petrochemicals, TASNEE

Modern Refinery Config for R&P Integration

Speaker

Keith A. Couch Senior Director - Global Technology Sales, Honeywell UOP

Strategic Imperatives for the Middle East's Refiners

Speaker

Jonathan Forbes-Lane Regional VP - Catalysts Sales, Shell Catalysts & Technologies

10:40 - 12:00

Technical Sessions - 3

Digital Transformation 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
Moderator Jim Brigman Managing Director, Ingenero Inc.	Moderator Nikola Georgiev Senior Account Manager Refinery, Haldor Topsøe International A/S	Moderator Mohammad N. Al-Haji Engineering Consultant, Saudi Aramco
<i>Depropanizer Column Troubleshooting using AspenTech ProMV</i> Speaker Bernt Hiddema Solution Consultant, Aspen Technology	<i>Upgrading the Hydrogen Plant for New Requirements</i> Speaker Koos Overwater Vice President - Hydrogen Product Line, TechnipFMC	<i>Gasification in the Era of Crude to Chemicals (CTC)</i> Speaker Dr. Chun Han Gasification & IGCC Specialist, Saudi Aramco
<i>Process Analyzers Management System "AMS"</i> Speaker Hamad Al-Othman Lead Engineer, Analyzer, SABIC - KEMYA	<i>Gasoline Hydrogenation Unit 2nd Stage Reactor Performance Improvement</i> Speaker Suhaib Kaki Process Engineer, SABIC - YANSAB	<i>Optimization of Multi-Effect Evaporators to Minimize Steam Consumption</i> Speaker Jai Prakash Jain Sr. Scientist, SABIC Research and Technology Pvt. Ltd.
<i>Predictive Maintenance and Asset Management by Combining High-Fidelity and Data-Driven Models</i> Speaker Dr. Steve Hall Director, Operational Excellence Solutions, Process Systems Enterprise (PSE)	<i>CDU Revamp: Optimising Cost and Implementation</i> Speaker Vishnu Narayanan Chartered Engineer, Wood Plc	<i>Opportunities for the use of First Flush Systems for Water Recovery</i> Speaker Joy Clarke Principal Process Engineer, Wood Plc

12:00 - 13:00

Lunch Break

📍 Exhibition Hall

Sponsored by 

Day 3 Wednesday, 16 Oct (cont.)

13:00 - 14:20

Technical Sessions - 3

Digital Transformation 📍 Al Fanar	Debottlenecking: Exploiting Opportunities to Boost Performance 📍 Al Seef	Energy Efficiency and Sustainability 📍 Palm Hall 2
Moderators David Renolayan Technology & Process Engineering Lead Domestic Refining & NGL Fractionation, Saudi Aramco	Moderator Saeed S. AlAlloush Engineering Specialist, Process & Control Systems Department, Saudi Aramco	Moderator Waddah Al-Zaabi Account Manager, ART Hydroprocessing
<i>Digital Transformation Journey "Production Planning, Sustainability & Energy and Process KPIS Dashboards in the Distributed Control System"</i>	<i>Quench System Successful Revamp and Operation Cycle</i>	<i>NGL Fractionation Process Optimization Through Heat Exchanger Load Shifting</i>
Speaker Carlos Gonzalez Senior Process Control Engineer, SABIC - GAS	Speaker Abdullah Al Ismail Production Engineer, SABIC - KEMYA	Speakers Dong Kyu Lee Senior Process Engineer, Saudi Aramco Yazeed Homaid Energy Engineer, Saudi Aramco
<i>High Fidelity Digital Twin of Hydrocracker Units</i>	<i>Enhancing Ethylene Recovery in Binary Refrigeration Systems by Purging H2 and Further Increase Through Expander Re-Compressor System Modifications</i>	<i>Chemical Modeling of Carbon Capture and Storage Capabilities from Combustion Gases</i>
Speaker Dhanasekar Periyasamy Principal Solution Consultant, Aspen Technology	Speaker Nihar Gulwadi Senior Manager - Project Development, Ingenero Inc.	Speaker Dr. Anthony Gerbino Customer Success Leader, OLI Systems Inc.
<i>Real-Time Predictive Analytics in Enhancing Base Layer Control Loops</i>	<i>Deployment of Digital Modeling for Cracking Furnace Online Yield Optimization</i>	<i>Furnace Convection Section Rating for Increased Thermal Efficiency: A Techno-Economic Analysis</i>
Speaker Saeed Al-Shahrani Control System Engineer, Saudi Aramco	Speaker Abdullah Nooh Scientist - Global Cracker Technology, SABIC	Speaker Radhi Ali Aqeeli Al Process Engineer, SABIC - KEMYA

14:20 - 14:30

Coffee Break

📍 Exhibition Hall

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SASREF

14:30 - 16:00

Panel Discussion - Process Intensification

📍 Palm Hall 1

Moderator

Gina M. Gatto Membership Manager, AIChE

Speakers

Dr. Madhukar Garg Head Refining & Petchem R&D, Reliance Industries Limited

June Wispelwey CEO & Executive Director, American Institute of Chemical Engineers (AIChE)

Faisal Addas Sr. Manager - LC Conversion Business Development, Local Content & Business Development Unit, SABIC

16:00 - 16:30

Closing Ceremony and Raffle Draw

📍 Palm Hall 1

iPoster Presentations

MEPEC utilized one of the world's most advanced system for scientific and technical communication, iPosters. This technology offered the authors a range of interactive and multimedia functions which allowed the audience to engage with them.



iPoster Presenters

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Shell Catalysts & Technologies

Presentation Title	Speaker	Job Title	Company
Utilization of Waste Coke from Olefin Plants as Carbon Additive in Steel Industry	Yousif AIDhafeery	Research Engineer	SABIC - KEMYA
Management of Hydrocarbon to the Marine Environment at Saudi Aramco	Seunghan Park	Environmental Engineer	Saudi Aramco
Design Consideration for Improved Axial Compressor Stability - Stall, Surge and their Control	Sivakumar Sankaran	Mechanical Engineer	Saudi Aramco
	Naif AlGhuthayf	Mechanical Engineer	
Research and Application of Oil and Gas Stabilization and Absorption Technology in Delayed Coking	Zhang Long	Senior Engineer, Research Institute of Petroleum Processing	SINOPEC
C4 Purification System Optimization, Production Improvement and APC Configuration	Suhaib Kaki	Process Engineer	SABIC - YANSAB
Spray-Drying as an Efficient Method for the Preparation of Catalysts for the Direct Conversion of Crude Oil to Chemicals	Tuiana Shoinkhorova	PhD Student	King Abdullah University of Science and Technology (KAUST)
Development and Application of Enhanced Hydrogen Transfer Liquid Phase Hydrogenation	Dr. Shikun Niu	Senior Engineer	Sinopec
Using Digital Transformation to Drive Operational Insight and Financial Benefits in the Refining and Petrochemical Industries	Roy Calder	Senior Director - Technical Solutions	AVEVA
Technology of Refinery Off-Gas Recovery by Cold Oil Absorption	Dr. Huawei Shao	Senior Engineer, Beijing Research Institute of Chemical Industry	SINOPEC Group
Chemical Modeling of Carbon Capture and Storage Capabilities from Combustion Gases	Dr. Anthony Gerbino	Customer Success Leader	OLI Systems Inc.



Presentation Title	Speaker	Job Title	Company
Enhanced Methanol-to-Olefins (MTO) Catalysis and Application of Nano-SheetLike SAPO-34 Molecular Sieve with Hierarchical Structure	Hongli Guo	Director - Technical Marketing and Licensing Business	SINOPEC Shanghai Research Institute of Petrochemical Technology
Transform the Chemicals Supply Chain by Combining Machine Learning and Optimization	Piyush Jain	Principal Solution Consultant	Aspen Technology
	Oussama Ould Zmirli	Principa Solution Consultant	Aspen Technology
Ethylbenzene/Styrene Process Technology	Dr. Zhang Bin	Senior Expert	SINOPEC Shanghai Research Institute of Petrochemical Technology
Fuel Oil Blending System	Hashim AlHajji	Process Engineerx	Saudi Aramco
Digital Transformation at the Front Line Leading to Operational Excellence	Andrew Bartlett	Solutions Consultant	Sphera Solutions
Innovative Software Improves Crude Oil Logistics Scheduling	Aurelio Ferrucci	Executive V.P.	PROMETHEUS SRL
Drones in Oil & Gas Operations: A review	Ahmed Al-Alouni	Research Engineer	Saudi Aramco
Analyzer Technology	Turki Hujaili	Analyzer Engineer	SABIC - KEMVA
Petrochemical Refinery: How to Plan for an Optimum Investment	Sachi N. Maiti	Manager, Downstream Technology Taskforce	SNC Lavalin
Enhancing the Circular Carbon Cycle through Multi-scale Catalytic Process Design	Dr. Fernanda Tavares	Post Doctoral Fellow, Chemical Engineer	KAUST Catalysis Center
Energy and Water Saving Challenges and Opportunities in Oil & Gas Facilities using Value Engineering	Mohamed Soliman	Senior Operation Engineer	Saudi Aramco
An Innovative Approach in Re-Energizing Internal Profit Improvement Programs (PIP)	Ahmed Altarkeet	Snr. Manufacturing Excellence Engineer	Kuwait National Petroleum Company (KNPC)
	Omar Al-Rashidi	Manufacturing Excellence Engineer	
Low Pressure Feed Pump Issue Resolution - Innovative Way	Pankaj Chaware	Lead Machinery Engineer	SABIC - KEMVA
Appling Immensive Technologies to Production Digitalization and Personnel Training	Ilya Simonov	CROC VR Director	NGN International
Unlocking Potential of a Resid Hydroprocessing Unit through Reactor Internals – A Case Study	Dilipkumar Thakur	Residue Upgrading TSE	Shell Catalysts & Technologies
	Mohammed Benchechou	Director Strategic Accounts - Middle East & North Africa	
	Mohammed Fahad Ajmi	Senior Operations Engineer	Kuwait National Petroleum Company (KNPC)
	Abdullah Mandani	Senior Process Engineer	
Digital Transformation – Using Simulation and Engineering Data with Analytical Sciences to not only turn Data into Information, but also to Drive the Process	Roy Calder	Senior Director - Technical Solutions	AVEVA
Steam Methane Reformer Process Optimization using ZoloSCAN In-Furnace Laser Measurements, Ember Burner Management and Smart Combustion	Eric Huelson	Product Manager	John Zink Hamworthy Combustion

The Exhibition

Inaugurated by His Excellency Shaikh Mohamed bin Khalifa Al Khalifa, Minister of Oil, Kingdom of Bahrain, the exhibition welcomed over 2000 participants from over 500 companies from around the world. The event provided a platform for networking across the streams of operators and owners as well as product and service providers.



Testimonials

“**AVEVA**, as Schneider Electric Software, has always found MEPEC an excellent event to meet with our clients and potential clients in the region. Over the years the balance between Technical Sessions, Discussion Panels and exhibition has allowed us to make excellent use of the opportunity to meet our valued clients. We look forward to being part of the 6th Edition in 2021!”

- Roy Calder, AVEVA

“We participated in the 5th MEPEC event for the first time as an Exhibitor. It was indeed a good opportunity to meet and interact with a large gathering of industry professionals who came here with eagerness to know about others as well as share their own Products and Services. The most valuable aspect of the event, in addition to promoting ourselves to create business leads, was our learning through listening to visitors about feedback on our delivered services, new requirements and their willingness to develop business relation with us. We really appreciate everyone who visited our booth and spend time with us.”

- Sanjib Deka, JGC Gulf International Ltd.

Venue Plan 1 - Exhibition



- LEGEND
-  EMERGENCY EXIT
 -  MALE PRAYER ROOM
 -  FEMALE PRAYER ROOM
 -  MEDICAL
 -  TOILET (GENTS)
 -  TOILET (LADIES)

Exhibitors List

Company Name	Stand Number
23rd World Petroleum Congress	69
Advanced Refining Technology (ART)	97
American Institute of Chemical Engineers (AIChE)	71
AIM 3D	175
AIMS Group	99
AMETEK LAND	37
Ashcroft Al Rushaid Instrument Co. Ltd.	5
Aspen Technology, Inc.	55
Atlas Copco Rental Services Middle East	30
AVEVA	68
Axens	120
Bahrain Chemical Engineers (BChemE)	150
Beijing Dongfang Ruiji International Exhibition Co. Ltd.	1
Bently Nevada	47
bizbahrain	174
Cameron Schlumberger	170
CleanAir Arabia Co. Ltd.	66
Daily Thermetrics	36
Dassault Systemes	72
Dresser Al Rushaid Valve & Instrument Co. Ltd.	4
ExxonMobil Catalysts and Licensing LLC	73
Gulf Advanced Process Technologies Co. (GAPTECH)	65
Gulf Downstream Association (GDA)	27
HADAF International Energy Company (HADAF Energy)	172
Haldor Topsøe	50
HISAKA Middle East Co. Ltd.	22
Honeywell UOP	64
IFP Training	9
Ingenero Inc.	23
INMA Steel Fabricators Co. Ltd.	8
JGC Gulf International Co. Ltd.	41
John Zink Hamworthy Combustion	90
KBR	40
King Fahd University of Petroleum and Minerals (KFUPM)	152
King Abdullah University of Science and Technology (KAUST)	86

Company Name	Stand Number
Knowledge Store for Trading (FabLab Mostaqbli)	154
Lokring Middle East	35
Mathias Tourism	25
Metrohm Middle East FZC	3
National Industrial Training Institute (NITI)	75
nogaholding	62
OLI Systems, Inc.	21
PAS Global, LLC	7
Process Systems Enterprise (PSE)	76
Raazji	CAFÉ
Refining & Petrochemicals Middle East	26
Research Products Development Company	6
REXA, Inc.	10
SABIC	105
Safari Oil & Gas Co. Ltd.	107
Saudi Aramco	106
Saudi Aramco Mobil Refinery Company Ltd. (SAMREF)	96
Saudi Aramco Shell Refinery Company (SASREF)	91
Saudi Petroleum Services Polytechnic (SPSP)	60
S-Chem	63
Shandong Junfei Environmental Protection Technology Company Limited	2
Shell Catalysts & Technologies	98
SINOPEC	42
Sirim Gas International Sdn. Bhd.	85
SIXT Rent a Car	88
Star Light	125
Stratas Advisors	74
SUEZ Water Technologies & Solutions	171
The Gulf Hotel Bahrain Convention and Spa	126
University of Bahrain	153
VEGA	38
W. R. Grace & Co.	112
Yokogawa Middle East and Africa	46
YPC-SAS-AIChE	151

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 Minister of Oil, Kingdom of Bahrain



Leadership Excellence
 for Women Awards & Symposium

LEWAS

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The Leading Awards & Symposium for Women in the Energy Industry in the Middle East

CHAIRPERSON



Reem Al Ghanim
 Division Head, Chemicals,
 HR and Support Services
Saudi Aramco

CO-CHAIR



Ezz Almannai
 Director, Planning
 and Development
**National Oil &
 Gas Authority (NOGA)**

LEWAS seeks to address the challenges and opportunities for women leaders in the energy industry. The objective of LEWAS remains to continuously strive to Engage, Empower & Elevate women in the energy industry. This exciting initiative for women provides a platform to honour outstanding and successful industry achievers. The awards encourage ambition and inspire new female leaders now and into the future.

2019 Award Winners



Rising Star
 Aram Alyahya
 Business Systems Analyst
Saudi Aramco



Academic of Distinction
 Dr. Ilham Qattan
 Asst. Professor,
 Medical Molecular Virology
Taibah University



Leading with Excellence
 Tasneem AlSharif
 Supervisor, Haradh Unit
Saudi Aramco



Woman of Achievement
 Reem Al Anbari
 Chief Financial Officer
**Abu Dhabi National Oil
 Company (ADNOC)**



Corporate Champion
 Tariq Al-Thuwaini
 Manager, Quality Assurance
**Kuwait National Petroleum
 Company (KNPC)**



Corporate Excellence
Saudi Aramco



The Workshop

LEWAS conducted workshops and mentoring sessions to help participants understand why mentorship matters, how it can make a notable difference and help build a more knowledgeable workforce.



The Symposium

The one-day symposium held on the 16th of October, provided participants with insight and advice from high level executives and past LEWAS award winners.

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 Minister of Oil, Kingdom of Bahrain

Industry Initiative



Organized by



Co-Hosts



AICHE Middle East Regional Chem-E-Car Competition®

Designed to test your ability to adapt and be innovative, the competition requires you to develop and construct a car powered by a chemical or biochemical energy source, safely transport a specified weight over a given distance. The competition took place at the Bahrain International Exhibition & Convention Centre on 15th October 2019. The third edition of the Chem-E-Car competition had 5 teams of undergraduate students competing and the **winner for 2019 is Jordan University of Science and Technology.**

Participating Teams

University	Country
Jordan University of Science & Technology	Jordan
King Fahd University of Petroleum and Minerals	Saudi Arabia
University of Bahrain	Bahrain
King Faisal University	Saudi Arabia
BITS Pilani, Dubai	United Arab Emirates

AICHE Middle East Regional Chem-E-Car Competition® Sponsored by



Global Partner



WINNER: Jordan University of Science and Technology



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 Minister of Oil, Kingdom of Bahrain

Industry Initiative

ChemME
 ◀ ENGage the Youth ▶



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ChemME CHAIRMAN



Tamim Al Jasir
 Business Development Manager
Guardian Glass

ChemME CO-CHAIR



Fatema Husain
 Process Engineer - Technical
 Services Department
BAPCO

The initiative featured a comprehensive program of activities that attracted numerous students and early career professionals from the MENA region. Students and young professionals had the opportunity to meet with industry leaders and share ideas amongst their peers. This program aims to build their skills and knowledge, and pathways to employment, training and education.

Platinum Sponsor



Gold Sponsors



Silver Sponsors



ChemME Program

DAY 1 Monday, 14 Oct 2019

Exhibition Hall | Bahrain International Exhibition & Convention Centre

- 11:00 - 12:30 **AIChE Jeopardy Competition**
A highly Interactive game between three teams of four players each. It will test your Chemical Engineering knowledge.
- 13:30 - 15:00 **Leaders to Inspire**
Meet Chief Executive Officers of Major Companies and learn about their journey. Get tips on how to achieve your professional goals.
- 15:30 - 16:30 **ChemME Chain Puzzler**
A scavenger hunt to solve a series of puzzles. Each puzzle includes a clue to the next puzzle. Winners will be awarded.
- 17:30 - 18:30 **Personal Branding**
In this workshop, you will learn how personal branding can help you build your career and live a meaningful life.

DAY 2 Tuesday, 15 Oct 2019

Exhibition Hall | Bahrain International Exhibition & Convention Centre

- 07:00 - 16:00 **BAPCO Plant Tour**
Get an exclusive look inside the National Oil Refinery.
- 08:00 - 09:00 **3D Printing Crash Course (FabLab)**
Get an insight into 3D Plant Modeling and learn how 3D Printing technology can be used in Process Modeling technology and Process Efficiency improvement.
- 10:30 - 11:25 **Tête-à-tête with the Minister**
His Excellency Shaikh Mohamed Bin Khalifa Al Khalifa, Minister Of Oil, Kingdom Of Bahrain sharing insights about the industry.
- 13:00 - 15:30 **Technical Debate**
Be a member of one of the opposing teams and speak about the topic given to you. Make sure to support your ideas by justifications and rebut other team's points.
- 15:30 - 16:00 **Leaders to Inspire**
- 16:30 - 17:30 **Professional Profile Optimization**

DAY 3 Wednesday, 16 Oct 2019

Exhibition Hall | Bahrain International Exhibition & Convention Centre

- 08:00 - 16:00 **GPIC Plant Tour**
Get an exclusive look inside a petrochemical plant in Bahrain.
- 10:00 - 16:00 **Mondolez Plant Tour**
Get an exclusive look inside a food factory in Bahrain.
- 08:00 - 09:00 **Chemical Engineer Future Careers**
Meet successful young chemical engineers working in different fields and learn how to secure your dream job.
- 10:15 - 12:15 **Process Automation Competition (Fablab)**
Don't miss the opportunity to collaborate in automating the process of multiple modules using computer logic and simple programming.
- 13:00 - 14:00 **ChemME Closing Ceremony & Raffle Draw**

Thank You to the Speakers



HE SHAIKH MOHAMMED BIN KHALIFA AL KHALIFA
Minister of Oil, Kingdom of Bahrain



WALT SZOPIAK
Vice President
Downstream Technology & Services
Chevron Energy Technology Company



SÜLEYMAN ÖZMEN
Vice President
Downstream Licensing (Retired),
Shell Global Solutions

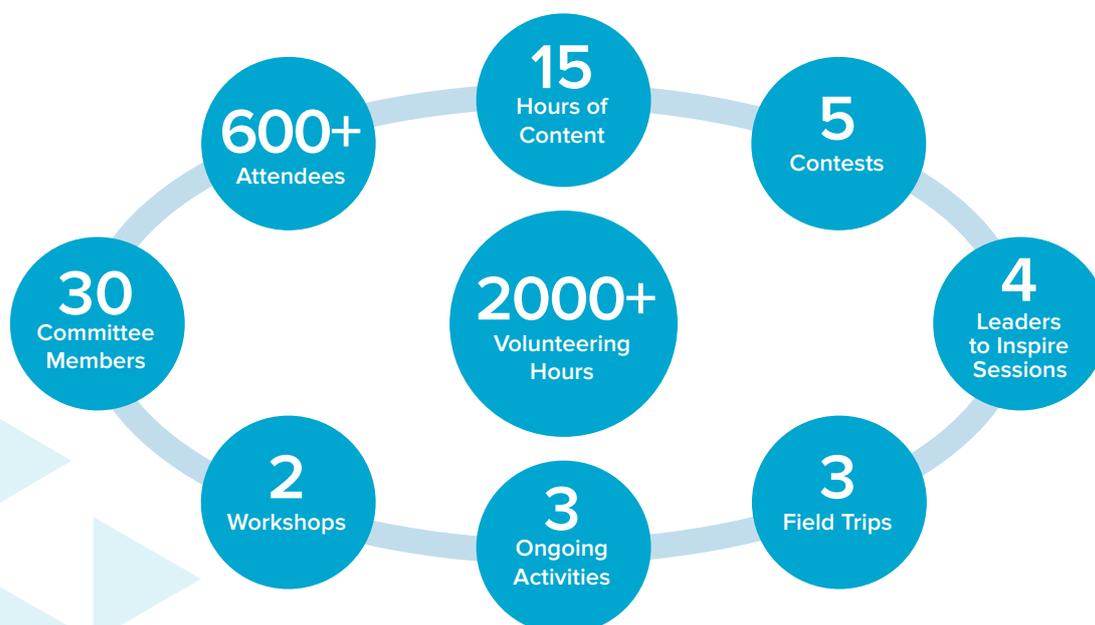


SAM THIARA
Lecturer
Simon Fraser University



LAWRENCE SCHWARTZ
CMO, SVP Marketing
Aspen Technology

ChemME in Numbers



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

Industry Initiative



**INNOVATION &
 COMMERCIALIZATION
 ZONE**

Chairman



Craig Smith
 CEO

**Dhahran Valley Technology
 Development Company (DVTDC)**

Partners



Innovation Zone sponsored by

**أرامكو السعودية
 saudi aramco**



Innovation Zone featured start-ups and scale-ups conducting live demonstrations of technologies that can change the future.

AbuCash Money transfer solutions at near zero cost on highly secure chips	F.O.F Technologies - Kampus BuyBack	Prayogik Technologies Pvt Ltd Thermoelectric generator	Technology in Pipe Couplers & Flange Adaptors
Aim 3D 3D printing and scanning solutions	Greenturn Idea Factory (Greeniee) Energy strategy planning platform	RABT Technologies Hajj Gear (tracks safety of pilgrims)	TerraDrone CCS Co.
BRAQ Industries Drone solutions for high-risk labour intensive industries	KHOUT ALTEBAAH Filaments for 3D printers	Saaya Health Telemedicine (Mental Health Access)	The Hive Remote sensing facility management system for industrial Internet of Things
efactory, intellisense, Saudi Aramco Human sensory data from brain signals to produce physical commands	LazyWait Fully integrated consumer facing services	Singapore Management University - SMU	VendaZone
Emerson	LOTO Safety Products DMCC Safety Lockout Padlock for Energy Isolation programs	Smart Transformation (STChain) Smart Certification System	Vortex IoT Manage real events in real time by generating sensor data
Eye Wheels Powered Wheelchair controlled by eye gaze on a monitor	Namthaja	Smartix Controlled water temperature using remote control or keypad	Whosfit.co Personality tester matching famous business or innovators
FabLab Bahrain			Yokogawa Middle East and Africa



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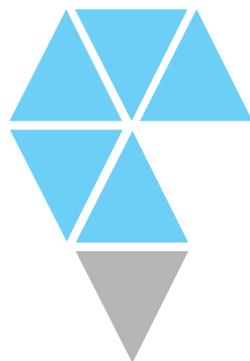


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