

Under the Patronage of His Royal Highness
Prince Khalifa bin Salman Al Khalifa, Prime Minister, Kingdom of Bahrain



2017
MEPEC

09 - 11 OCTOBER 2017
Bahrain International Exhibition
and Convention Centre



POST EVENT REPORT

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OUR SINCERE THANKS TO THE LEADERSHIP OF MEPEC 2017



Under the Patronage of His Royal Highness
Prince Khalifa bin Salman Al Khalifa
 Prime Minister, Kingdom of Bahrain



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H.E. Shaikh Mohamed bin Khalifa Al Khalifa
 Minister of Oil
 Kingdom of Bahrain



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 GM, Local Content Unit,
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Saeed Al-Alloush
 Work Director, Chemicals,
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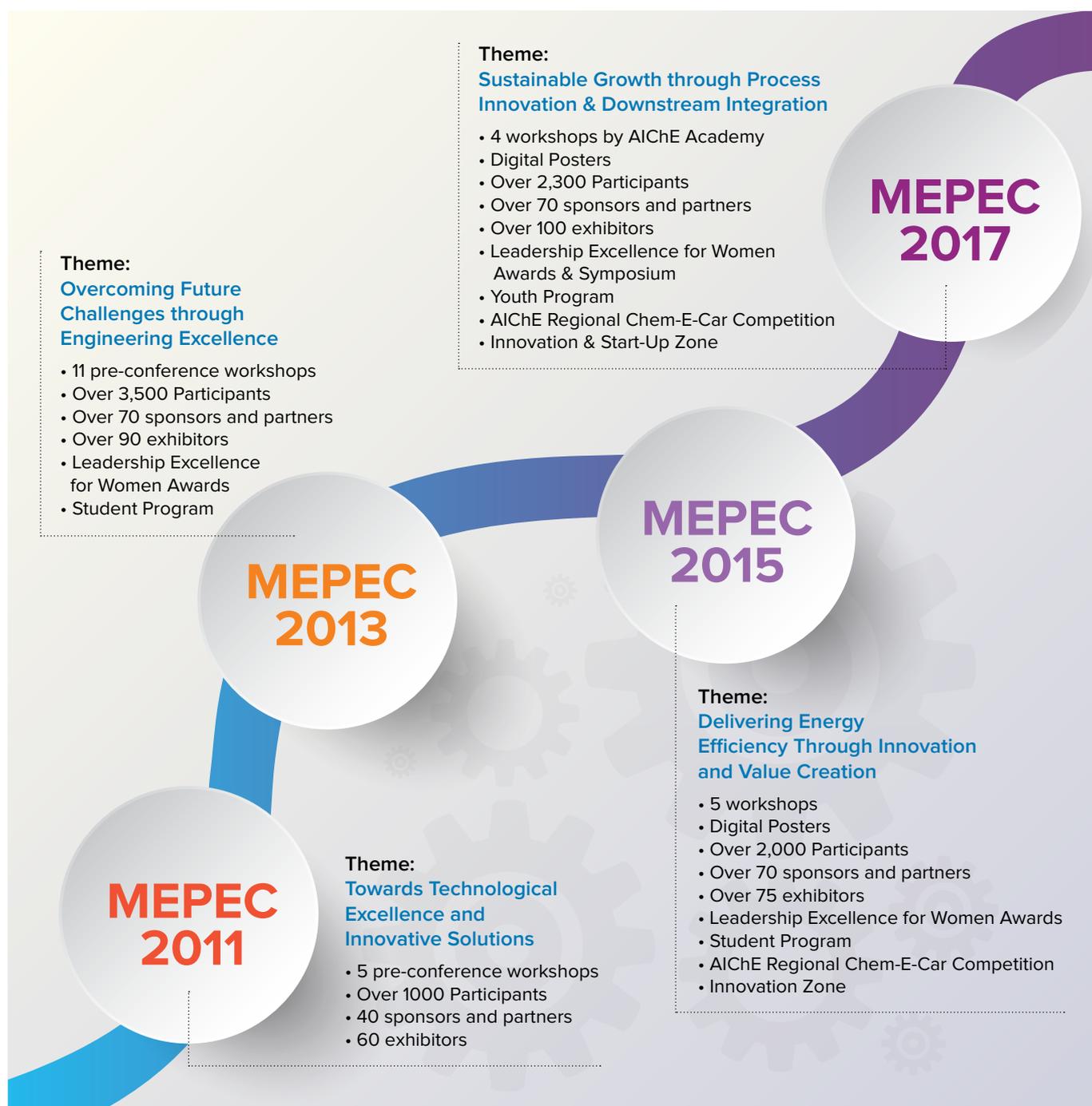
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MEPEC'S EVOLUTION

MEPEC strategic objectives:

- To be the #1 Technical Conference in the Middle East for all process engineers
- To attract leading international industry associations, technology providers, training institutes and world class experts
- To be the second largest Industry Trade Exhibition, after ADIPEC
- To be the best organized Trade Event in the GCC applying best international practices



Advisory Committee



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



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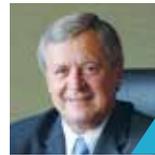
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Ziad Al-Labban
Former CEO,
Sadara Chemical Company

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Jim Brigman
Managing Director,
Ingenero Inc.



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(Middle East),
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Process Engineering
Senior Manager,
**Sadara Chemical
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Technical,
S-Chem



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Business Consulting
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AspenTech



Sandeep Goel
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Development ME,
CB&I Headquarters



Taib Abang
Engineering Specialist,
Saudi Aramco



Thomas DiGiacomo
Refining & EHS Consultant,
Saudi Aramco

MEPEC SHOWCASES THE CRUCIAL IMPORTANCE OF PROCESS ENGINEERING FOR INDUSTRIAL GROWTH

The 4th Middle East Process Engineering Conference and Exhibition was held under the patronage of His Royal Highness Prince Khalifa bin Salman Al Khalifa, Prime Minister of the Kingdom of Bahrain and welcomed 2,500-plus participants over the event period. The event received very positive feedback from participants, including delegates, exhibitors, speakers and students.

The theme was “Sustainable Growth through Process Innovation & Downstream Integration”, with a focus on raising the bar, as well as the capabilities, in this crucial area of the oil & gas industry.

Held at the Bahrain International Exhibition & Convention Centre, the three days saw keynote addresses by internationally acclaimed business leaders and eminent technology experts, Workshops by AIChE Academy, as well as Special and Technical sessions. There were also four special initiatives – the ‘Leadership Excellence Awards for Women & Symposium (LEWAS)’, an awards & symposium program dedicated to recognizing excellence among women in the oil & gas industry; the Youth Program, devoted to educating and nurturing engineering talent, the future flag bearers of the industry; and the Innovation Zone, an innovative concept devoted to the demonstration of novel techniques, cutting edge innovations and new inventions in Process Engineering.



THE OFFICIAL OPENING CEREMONIES

Over 2,000 delegates attended the Opening Ceremony where His Excellency Shaikh Mohamed bin Khalifa Al Khalifa, Minister of Oil, Kingdom of Bahrain, gave the opening address and stated that “MEPEC 2017 has attracted significantly more delegates than the previous conference... which reflects the growing popularity of the event”.

Other dignitaries who attended included Ahmad Al-Saadi, Senior VP Technical Services, Saudi Aramco; Dr. Dafer Al Jalahma, Chief Executive, nogaholding; Fahad Al Dawood, Vice President OTC, SABIC; Dr. Peter Bartlett, Chief Executive, Bapco; Faisal Al Faqeer, CEO, Sadara Chemical Company; Mohammad Al Naghsh, President & CEO, SAMREF amongst many others.



His Royal Highness Prince Khalifa bin Salman Al Khalifa, Prime Minister, Deputized His Highness Shaikh Ali bin Khalifa Al Khalifa, Deputy Prime Minister, to inaugurate MEPEC 2017 on Monday 9th October 2017. With over 250 companies exhibiting from 35 countries, the event was organized by Middle East Energy Events with the cooperation and coordination of the National Oil and Gas Authority.

On this occasion, His Highness Shaikh Ali bin Khalifa Al Khalifa, Deputy Prime Minister conveyed to the organizers and participants the greetings of HRH the Prime Minister and his appreciation for their efforts in preparing and presenting the exhibition in a way that reflects Bahrain's progress in the world of exhibitions and conferences.

HH stressed on the keenness of HRH Prince Khalifa bin Salman Al Khalifa the Prime Minister to sponsor and support exhibitions and conferences that enhance Bahrain's economic position.

HH Shaikh Ali bin Khalifa Al Khalifa toured the exhibition during which he explored the latest products and technologies in the oil, gas and petrochemical industry and reviewed the best experiences and practices and technology in this vital and important field.





HRH Prince Khalifa Bin Salman Al Khalifa, the Prime Minister, deputized the Minister of Oil, HE Shaikh Mohammed bin Khalifa Al Khalifa to inaugurate the MEPEC conference under the theme “Sustainable Growth through Process Innovation & Downstream Integration”. The Minister of Oil expressed his sincere appreciation and gratitude to HRH the Prime Minister on his continued support of MEPEC since its inception in 2011. The Minister expressed his thanks and appreciation to the Chairman of the Conference, Dr. Halim Redhwi, Vice President of DTVC, Fuad Mousa and Saeed Alloush for their outstanding efforts in preparing the conference sessions and organizing this great event and presenting it on scientific and professional level. He also thanked the keynote speakers, the heads of the sessions, the participating delegations and the exhibitors, wishing them every success and good stay in their country, the Kingdom of Bahrain.

Ahmad A. Al-Sa’adi, Sr. Vice President, Technical Services - Saudi Aramco, shared four (4) strategies that have contributed to Saudi Aramco’s sustainable growth as a company and best in-class performance over the past few years, despite navigating through challenging times and an ever-changing business environment. Lead in technology development and innovation, capitalize on the digital revolution, improve capital efficiency & Embrace Operational Excellence.



Major trends in Global petrochemical landscape, Key Challenges in the Middle East, How to address these challenges, operational capabilities focus was the theme of the speech by **Fahad M. Al-Dawood, Vice President, Innovation and Business Development, SABIC**

The points that were discussed by the then President and **CEO of KPI, Bakheet Al-Rashidi** during his speech in MEPEC included the Oil market – Challenges and opportunities, Middle east future growth prospects, Kuwait strategic initiatives, Sustainable growth through the process innovation and oil downstream integration, Clean energy and effects of electric cards, Integration between refining and petrochemical.



Conference Program Day 1

Monday, 9 Oct 2017 | Bahrain International Exhibition & Convention Centre

07:00	Registration	Hall 2
08:30 - 09:30	VIP Bahraini Breakfast (by invite only)	VIP Majlis
09:30 - 10:15	Official Conference Opening	Hall 1
Speakers:	<p>His Excellency Shaikh Mohamed bin Khalifa Al Khalifa Minister of Oil, Kingdom of Bahrain</p> <p>Ahmad A. Al Sa'adi Senior Vice President, Technical Services, Saudi Aramco</p> <p>Fahad M. Al-Dawood Vice President - COTC, Innovation and Business Development, SABIC</p> <p>Bakheet Al-Rashidi Chairman, GDA & President, Kuwait Petroleum International Ltd.</p>	
10:15 - 11:00	Official Exhibition Inauguration and VIP Tour	
11:30 - 13:00	Technical Sessions	

Synergy & Collaboration between Industries (Downstream Integration Through Value Creation)	Hydrocracking (Process Design & Development)	Sustainability Outlook
Palm Hall	Al Seef	Al Fanar
<p>Moderators Joseph Ibrahim Technical Services Director (Middle East), Axens Dr. Nasser Al-Harbi Technology Affairs Senior Manager, SABIC</p> <p><i>Multi-Site Optimization of Natural Gas Processing Operations to Maximize Asset Utilization</i> Speaker Bart de Groot Principal Applications Engineer, Process Systems Enterprise Limited</p> <p><i>Simulation and Optimization Studies of a Novel Process for the Conversion of Raffinate Butanes to Propylene</i> Speaker Zhonglin Zhangabu Engineer, Saudi Aramco</p> <p><i>Utilization of Petcoke for Methanol Production: A Technical Comparative Assessment Between Slurry and Dry Feed Gasification Technologies</i> Speaker Sethuraman Balasubramanian Lead Scientist, SABIC</p>	<p>Moderator Basel Khatib Lead RS Specialist, UOP, A Honeywell Co.</p> <p><i>Next-Level Hydrocracker Flexibility: Unlocking High Performance in Today's Turbulent Markets</i> Speaker Simon Cackett Senior Licensing Technology Manager MENA, Shell Global Solutions</p> <p><i>A New Technology for Management of HPNA Compounds in Full-Conversion Hydrocrackers</i> Speaker Dr. Jens Hansen Senior Principal Research Scientist, Haldor Topsoe AS</p> <p><i>Indigenous Hydrocracking Catalyst CAN 15 – The Commercial Story</i> Speaker Vinod Ramaseshan Engineer Specialist, Saudi Aramco</p>	<p>Moderator S Mahesh Kumar Lead Scientist Olefins & Aromatics, SABIC</p> <p><i>Novel NI/LA-AL2O3 for Gasification of Biomass Surrogate in Supercritical Water</i> Speaker Sagir Adamu Phd Scholar, KFUPM</p> <p><i>Towards Sustainability - Holistic Approach, Systematic Implementation and Standard Evaluation Metrics</i> Speaker Nafees Ahmad Area Process Engineer, TASNEE</p> <p><i>Gasification Technology of Value Creation for KSA Economy Under Vision 2030</i> Speaker Dr. Chun Han Gasification & IGCC Specialist, Saudi Aramco</p>

13:00 - 14:00	Lunch & Networking Break	Exhibition Hall
14:00 - 15:00	Leadership Panel - Driving Change in Challenging Times	Palm Hall

Conference Program Day 1 (continued)

Tuesday, 10 Oct 2017 | Bahrain International Exhibition & Convention Centre

Session Chairs: **His Excellency Shaikh Mohamed bin Khalifa Al Khalifa**

Minister of Oil, Kingdom of Bahrain

June Wispelwey Executive Director, AIChE

Speakers: **Bakheet Al-Rashidi** Chairman, GDA & President, Kuwait Petroleum International Ltd

Ahmed A. Al-Ghamdi Manager, P&CSD, Saudi Aramco

Antonio Pietri CEO, AspenTech

Fahad M. Al-Dawood Vice President - COTC, Innovation and Business Development, SABIC

Guy Lewis Vice President Strategic Marketing & Planning, UOP, A Honeywell Co.

15:00 - 15:30

Coffee & Networking Break

Exhibition Hall

15:30 - 17:00

Technical Sessions

New Technologies for Process Integration (Downstream Integration Through Value Creation)	Optimization (Process Design & Development)	Manufacturing Excellence (Process Excellence)
Palm Hall	AI Seef	AI Fanar
<p>Moderators Dr. Nasiru Tukur Engineering Consultant, Saudi Aramco Mohannad Al-Haidri Manager of Polymer Processing, SABIC</p> <hr/> <p><i>Value Addition of Feedstock</i> Speaker Dr. Mohammed Al Hazmi Director, SABIC</p> <hr/> <p><i>Refinery - Petrochemical Integration: Valuable Aromatics from FCC Naphtha</i> Speaker Sachin Joshi Licensing Manager, GTC Technology US, LLC</p> <hr/> <p><i>Integrated Project Management for Success in an Oil-to-Chemicals Driven Environment</i> Speaker Delphine Largeteau Sales Development Manager, Axens</p> <hr/> <p><i>Opportunities and Challenges in Downstream Process Integration</i> Speaker Chris Smith Technical Advisor, ACWA Air Products</p>	<p>Moderator Dr. Jens Hansen Senior Principal Research Scientist, Haldor TopsoeAS</p> <hr/> <p><i>Mega Projects Process Design Challenges - Sadara Systems Review</i> Speaker Nayef Almogren Process Engineer, Sadara Chemical Company</p> <hr/> <p><i>Strategic Routes to Light Olefins and Chemicals from Refining Streams</i> Speaker Dr. Khalid Almajnoui Staff Scientist, Olefins & Aromatics, SABIC</p> <hr/> <p><i>Integrated Approach to Retrofit & Debottleneck Ethylene Plant Cold Section</i> Speaker Dhanasekar Periyasamy Principal Consultant / Engineer, AspenTech</p>	<p>Moderators Jim Brigman Managing Director, Ingenero Inc. Mohammed Benchekchou Regional Manager MENA, CRI Criterion Catalyst Co Ltd</p> <hr/> <p><i>Strategies For Fouling Abatement</i> Speaker Gurminder Singh Licensing Sales Manager, Shell Global Solutions</p> <hr/> <p><i>Optimizing Furnace Performance Utilizing Big Data Analytic Techniques</i> Speaker Dr. Pratap Nair President & CEO, Ingenero Inc.</p> <hr/> <p><i>Leverage the IIOT for a Comprehensive Enterprise Asset Performance Management Strategy</i> Speaker Dr. Martin Turk Director, Downstream O&G Global Solutions Architect, Schneider Electric</p> <hr/> <p><i>Reliability by Operator Round Excellence</i> Speaker Yahya Ali Hamdi Maintenance Strategy Engineer, SASREF - Saudi Aramco Shell Refinery Company</p>

19:00 - 20:30

Gala Dinner and Awards Ceremony The Diplomat Radisson Blu Hotel

Guest of Honor:

His Excellency Shaikh Mohamed bin Khalifa Al Khalifa

Minister of Oil, Kingdom of Bahrain

Conference Program Day 2

Tuesday, 10 Oct 2017 | Bahrain International Exhibition & Convention Centre

07:30	Registration	Hall 2
09:00 - 10:30	Keynote Session - Transformation from Volume to Value	Palm Hall
Moderator:	Hussain A. Al Qahtani President, SASREF – Saudi Aramco Shell Refinery Company	
Speakers:	Jonathan Forbes Lane General Manager, EMEAR, CRI Criterion Catalyst Co Ltd.	
	David Bergeron Vice President, ExxonMobil Catalysts and Licensing LLC	
10:30 - 10:45	Coffee & Networking Break	Exhibition Hall
10:45 - 12:15	Technical Sessions	

Process Improvement (Process Design & Development)	Waste Minimization (Sustainability)
Palm Hall 1	Palm Hall 2
<p>Moderator Dr. Abdullah Alqahtani Senior Manager, Cracker Technology KSA, SABIC</p> <hr/> <p><i>Replacing a Shell and Tube Bundle with a Rounded Welded Plate Pack to Increase Heat Recovery</i></p> <p>Speaker Robert Broad Business Development Manager, GESMEX GmbH</p> <hr/> <p><i>Divide Your Distillation Column with Confidence</i></p> <p>Speaker Anup Elias Senior Process Engineer, Sadara Chemical Company</p> <hr/> <p><i>Assessment of Rheological and Filtration Properties of High Molecular Weight Polymers in Bentonite Suspension as Drilling Fluids</i></p> <p>Speaker Hafiz Mudaser Masters Scholar, KFUPM</p>	<p>Moderator Luc Geerts Sr. Consulting Solutions Director, Schneider Electric</p> <hr/> <p><i>Sustainability: Innovative Solutions for Waste Minimization and Utilization</i></p> <p>Speakers Devendra Patil Process Engineer, SABIC - Petrokemya Arpit Mathur Process Engineer, SABIC - Petrokemya</p> <hr/> <p><i>Refresh Your Catalyst</i></p> <p>Speaker Soren Mikkelsen Sales Liaison Officer, Haldor Topsoe International AS</p> <hr/> <p><i>Solid-Liquid Separation Technology for Removing Contaminant Fines from Water Scrubbing, Clarifier Effluents and Grey Water</i></p> <p>Speaker Barry Perlmutter President & Managing Director, BHS Sonthofen Inc</p>

12:15 - 13:00	Lunch & Networking Break	Exhibition Hall
13:00 - 14:00	Panel Discussion - Digitization Revolution & the Petrochemical Industry	Palm Hall
Moderator:	Fuad Mosa General Manager, Local Content, Innovation & Business Development, SABIC	
Speakers:	Zak Alzein Vice President and GM, Connected Performance Services, Honeywell, UOP	
	Dr. Tobias Scheele Senior Vice President - Software, Schneider Electric	
	Ed Boufarah VP, Digital Solutions – MEA & India, Baker Hughes, a GE Company	
	Harvard Devold Group Vice President, Digital Lead, ABB Group	

Conference Program Day 2 (continued)

Tuesday, 10 Oct 2017 | Bahrain International Exhibition & Convention Centre

14:00 - 15:30 Technical Sessions

Process Modelling & Automation (Process Excellence)	Energy Conservation (Sustainability)
Palm Hall 1	Palm Hall 2
<p>Moderators Taib Abang Engineering Specialist, Saudi Aramco Dr. Hiren Shethna Engineering Consultant, Saudi Aramco</p> <p><i>Improve Furnace Performance and Scheduling Through Run Length Predictive Techniques</i></p> <p>Speaker Jim Brigman Managing Director, Ingenero Inc.</p> <p><i>Optimize Upstream Oil and Gas Assets by Using Adaptive Process Control</i></p> <p>Speaker Harpreet Singh Principal Business Consultant, AspenTech</p> <p><i>Towards Better Handling of Control Valve Stiction: A New Adaptive Online Approach</i></p> <p>Speakers Dr. Mustafa Al Naser Senior Research & Development Engineer, Yokogawa MEA Dr. Sami El Ferik Associate Professor, KFUPM</p>	<p>Moderators S Mahesh Kumar Lead Scientist Olefins & Aromatics, SABIC Luc Geerts Sr. Consulting Solutions Director, Schneider Electric</p> <p><i>Sustainability and Energy Efficiency Enhancement of Furnaces, Reformers and Fired Heaters Using Heat Radiation High Emissivity Ceramic Coating</i></p> <p>Speaker Misfer Ali Al-Ghamdi Operational Consultant MCE MCC Process Domain, SABIC</p> <p><i>Optimization of CO2 Removal Process Using Piperzine Activated MDEA Solvent</i></p> <p>Speaker Subbarao Kommuri Senior Scientist, SABIC</p> <p><i>System Approach to Compressors Performance Evaluation</i></p> <p>Speaker Ahmed Aseeri Founder & CEO, GAPTECH</p>

15:30 - 16:00

Coffee & Networking Break

Exhibition Hall

16:00 - 17:30

Technical Sessions

Gasoline Upgrading (Process Design & Development)	Process Excellence & Reliability
Palm Hall 1	Palm Hall 2
<p>Moderator Dr. Nasiru Tukur Engineering Consultant, Saudi Aramco</p> <p><i>Meeting Customer CS2 Specification for Naphtha Products</i></p> <p>Speaker Trevor Smith Product Line Manager, Honeywell, UOP</p> <p><i>Reforming of Heavy Naphtha by Modified Zeolite Based Catalysts</i></p> <p>Speaker Dr. Emad Al Shafei Senior Lab Scientist, Saudi Aramco</p> <p><i>On-Purpose Alkylation for Meeting Gasoline Demand</i></p> <p>Speaker Matthew Clingerman Regional Engineering Manager, DuPont Products S.A.</p>	<p>Moderator Thomas DiGiacomo Refining & EHS Consultant, Saudi Aramco</p> <p><i>Catalyst Characterization Methodologies for MTBE Synthesis</i></p> <p>Speaker Umesh Hasyagar Lead Scientist, SABIC</p> <p><i>Improving Reliability and Optimizing Speed Control of Steam Turbines</i></p> <p>Speaker Michael Murphy Rotating Equipment Director, REXA Inc</p> <p><i>Boost Your Tower Performance Knowing the Real Capacity Limits</i></p> <p>Speaker Petar Pribic Senior Process Engineer, Sadara Chemical Company</p>

Conference Program Day 2 (continued)

Tuesday, 10 Oct 2017 | Bahrain International Exhibition & Convention Centre

17:30 - 20:00 MEPEC Social Evening **Hall 2**

AIChE® Middle East Regional Chem-E-Car Competition	nogaholding Committee Reception (by invite only)
Hall 2	MEPEC Club

Keynote Session Day 3

Wednesday 11 Oct 2017 | 09.00 - 10.30 | Palm Hall, Bahrain International Exhibition & Convention Centre

07:30 Registration **Hall 2**

09:00 - 10:30 Keynote Session - Driving Sustainable Growth

Palm Hall

Moderator: **Dr. Mark C Hodgkinson** Manager, Operational Excellence, BAPCO - The Bahrain Petroleum Company

Speakers: **Ziad Al-Labban** Former CEO, Sadara Chemical Company

Antonio Pietri CEO, AspenTech

Guy Lewis Vice President Strategic Marketing & Planning, UOP, A Honeywell Co.

10:30 - 10:45 Coffee & Networking Break **Exhibition Hall**

10:45 - 12:15 Technical Sessions

Process Modelling & Automation (Process Excellence)	Gas Processing (Process Design & Development)
Palm Hall 1	Palm Hall 2
<p>Moderators Dr. Ayuba Adesina Lead Engineer, SABIC Jim Brigman Managing Director, Ingenero Inc.</p> <hr/> <p><i>A New Approach for Techno-Economic ZNO Benchmarking for Best Sorbent Selection Using Breakthrough Curves Data of Sulfur Removal</i> Speaker Dr. Abdou El Ilah Hachimi Senior Scientist, SABIC</p> <hr/> <p><i>APC in Ethylene Units</i> Speaker Abhijit Igave Senior Business Consultant, AspenTech</p> <hr/> <p><i>Performance Analysis of Gas Sweetening Processes in Saudi Arabia</i> Speaker Aban Sakheta PHD Scholar, KFUPM</p>	<p>Moderator Saifuddin Sheikh Business Consulting Director, AspenTech</p> <hr/> <p><i>Improving Overall Ethylene Plant Performance by Optimizing C2 Hydrogenation</i> Speaker Bart de Groot Principal Applications Engineer, Process Systems Enterprise Limited</p> <hr/> <p><i>Utilization of CO₂ in Dry Reforming of Methane to Syngas for the Production of Chemicals</i> Speaker Srikant Badgandi Senior Scientist, SABIC</p> <hr/> <p><i>Natural Gas Sweetening Unit Revamp - Improved Performance & Reliability</i> Speaker Vasanta Humane Senior Process Engineer, Treating & Sulphur Recover, BAPCO</p>

Conference Program Day 3

Wednesday, 11 Oct 2017 | Bahrain International Exhibition & Convention Centre

12:15 - 13:00 **Lunch & Networking Break** **Exhibition Hall**

13:00 - 14:00 **Panel Discussion: Modeling and Optimization of Manufacturing Processes – What is Next?**

Moderator: **Saeed Al-Alloush** Work Director, Chemicals, Facilities Planning Department, Saudi Aramco

Speakers: **Dr. Jim Rekoske** Vice President & Chief Technology Officer, UOP, A Honeywell Co.
Luc Chantepy Regional Sales Vice President (MENA), AspenTech
Ahmad Al-Abdrabbuh Senior Executive Vice President & Board Director, Yokogawa Saudi Arabia Co.

14:00 - 15:30 **Technical Sessions**

Operational Excellence (Process Excellence)	Sustainability Excellence
Palm Hall 1	Palm Hall 2
<p>Moderators Misfer Ali Al-Ghamdi Operational Consultant MCE MCC Process Domain, SABIC Taib Abang Engineering Specialist, Saudi Aramco</p> <hr/> <p><i>Hydrogenation Reactor Parameter Adjustments in Response to Changing Feedstock Compositions</i> Speaker Rawaf Alrawaf Technology Engineer, Saudi Chevron Phillips CO</p> <hr/> <p><i>Refinery Fouling Management</i> Speaker Prashant Kumar Senior Consultant, Process Systems Enterprise Limited</p> <hr/> <p><i>Evaluating Heat Exchanger Tube Rupture Phenomenon Using Simsci's Simcentral Software</i> Speaker Saher Jasvi Technical Sales Consultant, Schneider Electric</p>	<p>Moderators Dr. Anissa Bendjeriou Sedjerari Research Scientist, KAUST Catalysis Center Luc Geerts Sr Consulting Solutions Director, Schneider Electric</p> <hr/> <p><i>Riyadh Refinery Journey Towards Operational Excellence</i> Speaker Abdullah Al Dhafer OE Coordinator, Saudi Aramco</p> <hr/> <p><i>Re-Use Of Methanol Plant Process Condensate by Segregation & Improved Operation of Distillation Section</i> Speaker Muhammad Khalid Habibullah Senior Process Engineer, SIPCHEM</p> <hr/> <p><i>Pinch Technology to Improve Energy Efficiency of Cracker Plants</i> Speaker Batchala Rao Lead Scientist - Cracker Technology, SABIC</p>

15:30 - 16:30 **Closing Ceremony & Raffle Draw** **Exhibition Hall**

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iPosters Presentation

9 Oct 2017 | Bahrain International Exhibition & Convention Centre

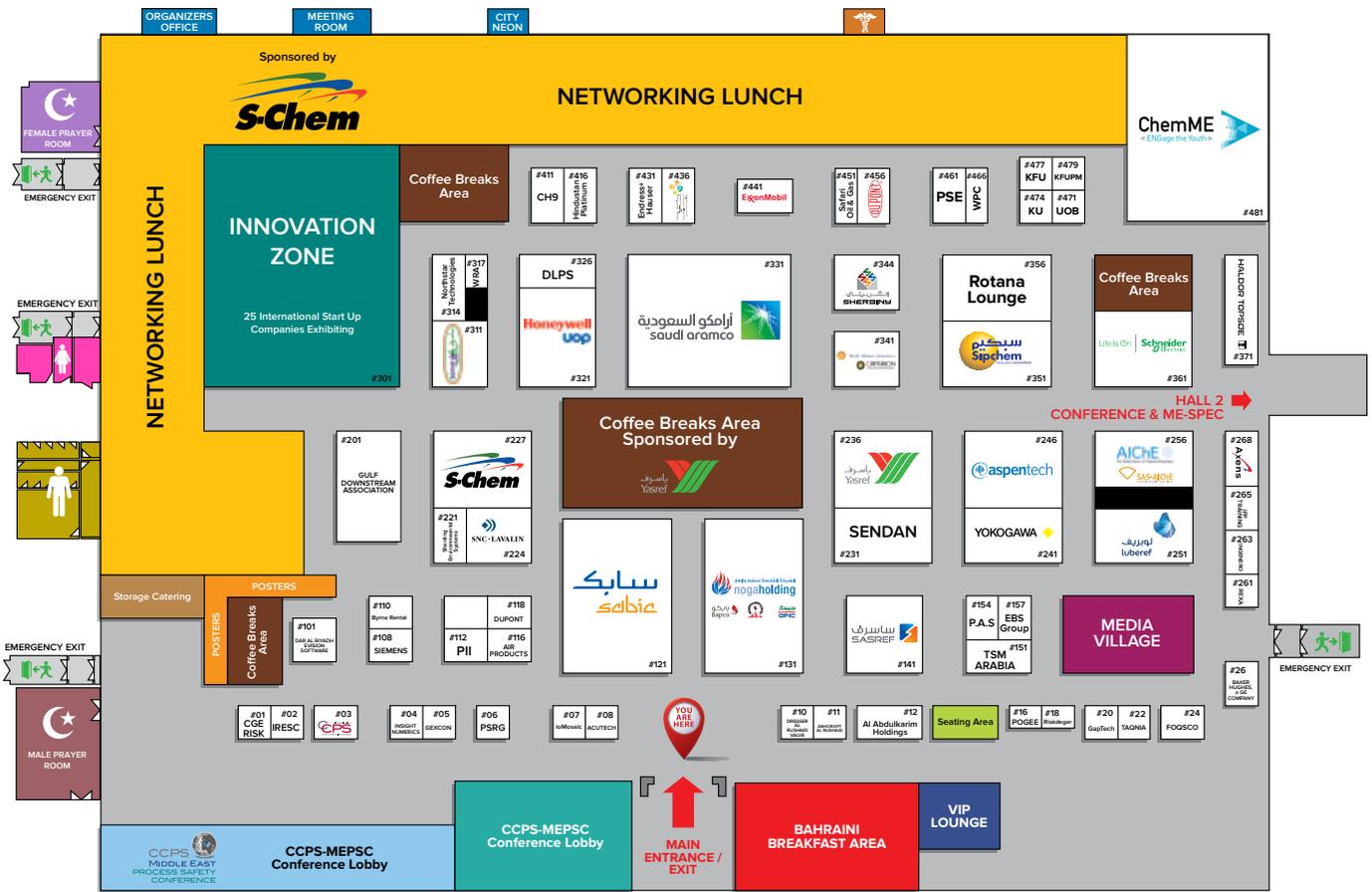
Screen Number	Presenter	Job Title	iPoster Title	Institution	Date
1	Saifuddin Sheikh	Business Consulting Director	Improve system reliability of oil & gas assets and mitigate risks	Aspen Technology	9th October
2	Muzzammil Shakeel	Scientist Research & Development	New innovation to control water flow in high water producing porous media using rpm	Halliburton	9th October
3	Michael Deighton	WQI IOT Project Director	How to manage change to achieve facilities integrity excellence	SNC-Lavalin	9th October
4	Jim Brigman	Managing Director	Increasing overall asset utilization by identifying synergies across units in a manufacturing complex	Ingenero Inc.	9th October
5	Dr. Eid Al-Mutairi	Associate Professor	Stochastic optimization for sustainable energy systems	KFUPM	9th Oct
6	Dr. Amani Bu-Qammaz	Professor	A review of the critical success factors for effective implementation of risk management process in the construction industry	Kuwait University	9th October
7	Ahmed Khaja	Scientist	Hydrogen production by photocatalytic reforming of glycols over AG-PD-TiO ₂ . Effect of initial partial pressure of O ₂	SABIC	9th October
8	Jagan Mohan Rallapalli	Senior Scientist	Development of an energy efficient separation method for a ternary component system using process intensification approach	SABIC	9th October
9	Ravi Alla	Engineer	Achieving ultra-low sulfur diesel with Isotherming® technology	Dupont	9th October
10	Nawaf Alhedaihi	Process Engineer	Solving process hydraulic problems using a multi hole orifices	Sadara	9th October
11	Dr. Qi Xu	Engineer	A simulation study of fcc reactor model	Saudi Aramco	9th October
12	Khalid Al Zahrani	Engineer	Manufacturing operations management technology	Saudi Aramco	9th October
13	Mahmoud Alkahlout	Engineer	CO ₂ dosing system for re-carbonation	Saudi Aramco	9th October
14	Hamed Abdulaziz Yahya	Process Engineer	A case study on split range controller for storage tank pressure controller	S-Chem	9th October
15	Bader Al Masradi	Supt, Monomer & Chemical	TASNEE Propane De-Hydrogenation (PDH) plant cold box system integrity enhancement	TASNEE	9th October
16	Tawfiq Alzainy	Senior Chemical Engineering Student	Microalgae-based biodiesel production using response surface methodology, with computer-aided simulation using AspenTech® software products	University of Bahrain	9th October
17	Yasser Al-Goufily	Engineer	Spent Caustic Incinerator Process Excellence and Sustainability Improvements – Process Engineering Perspective	SABIC	9th October
18	Abdullah Noor	Engineer	Energy Saving Opportunities with increased Synergies between Refinery and Petrochemical Plants	SABIC	9th October

iPosters Presentation

10 & 11 October 2017 | Bahrain International Exhibition & Convention Centre

Screen Number	Presenter	Job Title	iPoster Title	Institution	Date
1	Delphine Largeteau	Sales Development Manager	Improving profitability by maximizing performance of existing assets	Axens	10th & 11th October
2	Ibrahim Al-Hulail	Senior Scientist	Unconventional clay control alternative to organic salts that can prevent swelling: A laboratory study	Jubail Industrial College and University	10th & 11th October
3	Ayman Mehdawe	Senior Account Manager	Leveraging the cloud to drive operational excellence	Honeywell UOP	10th & 11th October
4	Nihar Gulwadi	Manager - Process Technology	Pursuing sustainability improvement at a petrochemical complex in KSA: A case study	Ingenero Inc.	10th & 11th October
5	Muhammad Ilyas	Engineer	Microalgae - a non-edible source of bio-fuel production and wastewater treatment	KFUPM	10th & 11th October
6	Ismail M. Kinani	Process & Control Systems Section Manager	APC in air separation unit at SABIC gas	National Industrial Gases Company (SABIC Gas)	10th - 11th October
7	Abdulmajeed Alhamdan	Research Engineer	Improving performance and stability of steam reformer during feed disturbances with advanced control strategy	SABIC	10th & 11th October
8	Shahid Bashir	Scientist	Dark and photo reactions of ethanol over AU/TiO ₂ , PD/TiO ₂ AND AU-PD/TiO ₂ catalysts	SABIC	10th & 11th October
9	Sari Alsayegh	Engineer	Systematic optimization of H ₂ recovery from water splitting process using membranes and flammability suppressants	SABIC	10th & 11th October
10	Abdul Nishad	Senior Process Engineer	Temporary chillers for alky cooling water system	Samref	10th & 11th October
11	Anas Safar	Engineer	Optimal temperature control of a batch tank equipped with a steam heating coil system	Saudi Aramco	11th October
11	Khalid Al-Qahtani	Operations Engineer	Vacuum distillation column optimization and troubleshooting (1st intercondenser failure)	Saudi Aramco	10th October
12	Rengamannar Parthasarathi	Engineer	HS-FCC technology development catalyst qualification using a microdowner	Saudi Aramco	10th & 11th October
12	Gopal Juttu	Research Engineer	HS-FCC technology development catalyst qualification using a microdowner	Saudi Aramco	10th & 11th October
13	Ali Hunaidy	Engineer	ARKA-TAC ³ : Aramco-Kaist analysis tool (software) for CO ₂ capture and conversion	Saudi Aramco	10th & 11th October
14	Sarang Jape	Partner Projects	The digital energy efficiency and process automation management	Schneider Electric	10th & 11th October
15	Anil Kewalramani	Engineer	Comprehensive energy efficiency improvement measures for TASNEE PDH plant product compressor	TASNEE	10th & 11th October
15	Anil Kewalramani	Engineer	TASNEE Ethylene Cracker plant efforts for improving sustainability foot print	TASNEE	10th & 11th October
16	Bart De Groot	Principal Applications Engineer	Next-generation utilities optimisation for refineries and large-scale chemical production sites	Process Systems Enterprise	10th & 11th October
17	Khalid AlHazmi	Engineer	An alternative configuration of separation columns to save energy	SABIC	10th & 11th October
17	Abdullah Noor	Engineer	Energy saving opportunities with increased synergies between refinery and petrochemical plants	SABIC	10th & 11th October
18	Nayef Nazzal Al Hussaini	Senior Scientist	Application of Fussy logic controller to optimize regeneration time in Air Separation Units	SABIC	10th & 11th October

Exhibition Floor Plan Hall 1



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

Exhibition Floor Plan Hall 2



Exhibitors List

3M
 AcuTech
 AIChE
 Air Products
 Al Abdulkarim Holding
 Ashcroft Al Rushaid Instrument Co Ltd
 Aspen Technology
 Axens
 Baker Hughes, a GE Company
 Batelco
 Byrne Rental
 C5
 Capacitee Employment Solutions W.L.L.
 CCPS
 CGE Risk
 CH9
 Chemical Weekly
 Ciengis, SA
 Clariant
 CNCIC
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 ConCure
 Dar Al Riyadh
 Diversified Lines For Petroleum Services Est.-Dlps
 Dresser Al-Rushaid Valve & Instrument Co Lt
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 Empire Advertising
 Endress+Hauser
 Enterprise Business Solutions W.L.L
 ExxonMobil
 Faheem
 Foqso
 Gap-Tech
 GDA
 GDI
 GDN/Arabian Business Community,
 Gexcon
 Guangdong Shenling Environmental Systems Co. Ltd.
 Gulf Projects & Tenders
 Hal Software Limited
 Haldor Topsoe
 Halliburton
 Hindustan Platinum
 Honeywell UOP
 IFP Training
 Ingenero
 Insight Numerics
 iOMosaic
 IRESC
 Jasubhai Media/ Chemtech Foundation
 JIC
 Juffali
 KAUST
 KB Proto
 KFU
 KFUPM
 KU
 LOTO Safety Products DMCC
 Luberef
 MAAHAR
 MARS
 MITEF
 MODON
 nogaholding
 NOMADD Desert Solar Solutions Pte. Ltd.
 Northstar Technologies
 OGN/Gulf Industry,
 Oil and Gas Directory Middle East
 Oil Review Africa
 Oil Review Middle East
 Oil SNS
 Oxford Business Group Middle East
 PAS
 PII
 PIPE COUPLING
 POGEE
 PSE
 PSRG
 Rawabi Marketing International
 Rexa, Inc.
 Risk Deger
 SABIC
 Sadara
 Safari Oil & Gas
 Saferoad Information Technology Co. LTD
 SAMREF
 SAS-AIChE YPC
 Saudi Aramco
 Saudi Aramco Shell Refinery Co. (SASREF)
 S-Chem
 Schneider Electric
 SDC
 Sendan International Company Limited
 Shell Global Solutions
 Sherbiny Holdings
 Siemens
 Sipchem
 Sixt
 Smartix
 SNC Lavalin
 Solvay
 Taqnia
 TARRO
 Telaa
 The Hive
 The Kernel
 Chengyi Company Limited"
 Time Control Technologies
 Travel Desk & Info
 TSM Arabia
 Tweetso
 UOB
 WPC
 WRA
 Yasref
 Yingkou Tanyun Chemical Research Institute Co.,Ltd
 Yokogawa

Co-located Events



Industry Initiatives



ChemME, THE YOUTH INITIATIVE

338 Students attended from 23 Universities

ChemME
◀ ENGage the Youth ▶



What is ChemME?

Led by F. Al-Blaies, Co-founder of the Young Professional Committee under SAS-AICHE, ChemME is a dedicated track for the youth participant. In 2017, the program attracted and engaged more than 300 youth participants from different Middle Eastern countries including early career professionals and students.

ChemME was running for three days continuously in the main ChemME lounge and arena located at centralized location inside Bahrain Exhibition Center, and was patronized by His Excellency Shaikh Mohammed Bin Khalifah, Bahrain Oil Minister, who witnessed several sessions during the first and second day.



Speed Mentoring

During the first session, Executives from SASREF, SAMREF, Saudi Aramco, LUBEREF and YOKOGAWA attended the workshop to mentor more than 60 young professionals in a casual environment.



Project Workshop

A detailed workshop and competition on "Process Safety" which was moderated and delivered by SMEs from Saudi Aramco.



Table Topic Competition

Co-organized by Bahrain Toastmasters Club (B.E.S.T), the table topic aims at challenging contestants in the art of impromptu speaking.



Technical Presentations

This technical track was designed for 6 young professionals and graduate students where they had the opportunity to present their projects and researches in ChemME arena.



Social Mixer

Students and young professionals had the opportunity to network with each other during a dedicated lunch for the youth.



CEO Talk

A speech from the former SADARA CEO, Ziyad Labban, who emphasized on the youth role in creating a positive change and shared his prospective on the fundamentals of effective leadership, find out the traits employers are seeking in a leader.



CV Clinic

Co-organized by BAYT, this session was aimed at providing fresh graduates and young professional with tips in writing a professional resume that better illustrates and represents the candidates skills and capabilities the helps him increasing his employment opportunities.



Students Future Career Session

In this session, students had the chance to meet with four young professionals from different industries to learn about the different career paths that they can pursue in the future.



Technical Debate

In this contest, technical subjects were addressed on separate groups (affirmative side vs. opposing side). Each competing team was justifying his point of view and defending his opinion.



Plant Tour

A plant tour which gave the young professionals the opportunity to visit the BAPCO refinery and learn about their processes. This involvement and the young energy were endorsed by His Excellency Deputy Prime Minister Shaikh Ali Bin Khalifa Al Khalifa.

AIChE Chem-E-Car COMPETITION



The second AIChE Middle East Regional Chem-E-Car Competition® took place and saw teams of undergraduate students develop and construct a car powered by a chemical or biochemical energy source, safely transport a specified weight over a given distance and then stop. The winner of this exciting competition for 2017 was KFUPM. The competition took place at the Bahrain International Exhibition & Convention Centre last 10 October 2017.

WINNER: SADEEM from KFUPM

PARTICIPATING TEAMS

University	Country	Car Name
American University of Beirut	Lebanon	ChemEnator
Dawood University of Engineering and Technology	Pakistan	Bat Mobile
KFUPM	Saudi Arabia	SADEEM
Sultan Qaboos University	Oman	SQU Car
University of Bahrain	Bahrain	Super X

Team Supporter of
American University of Beirut:



Team Supporter of
Sultan Qaboos University:



AIChE Middle East Regional Chem-E-Car Competition®

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INNOVATIONS & START-UPS

The Innovation & Commercialization Zone (ICZ) was a unique platform devoted to the demonstration of novel techniques, cutting edge innovations and new inventions in Process Engineering.

Startups, new ventures and scale-ups had the perfect opportunity to demonstrate their creative solutions, working prototypes and Minimal Viable Product (MVP) at the Middle East's largest audience of Process Engineers.





LEWAS

Leadership Excellence
for Women Awards & Symposium



Leadership Excellence for Women Awards

LEWAS Awards

Our award categories are designed to recognize women at various stages in their careers – understanding that each stage is a step towards advancing opportunities for women both professionally and personally throughout the GCC. In addition, we added recognition certificates for the organizations who did their part to help women advance professionally, as well as those who continued to champion women and tackle gender diversity within their organizations.

The Awards Ceremony took place on 9 October 2017 at The Diplomat Radisson Blu Hotel, Manama, Bahrain.



EMPOWER, ENGAGE, AND ELEVATE

The LEWAS Symposium was created when a group of women decided there needed to be a forum in the GCC that provided a place to: celebrate women's achievements, learn from well-respected women, have an opportunity to network, and improve upon knowledge.

Workshop - "Illuminating Your Path"

A Workshop for Early Career Women" covered two topics which focused on Personal Leadership Style and Work-Life Balance that will help participants kick-start their leadership journey and examine solutions to help them find and maintain a balance between a successful personal and professional life.

Symposium

Focusing on the challenges and opportunities for women leaders in the Oil & Gas industry, the inaugural LEWA Symposium was an unparalleled gathering of the GCC's best and brightest female talent. During the event, women and men professionals came together to hear from an exceptional line-up of speakers who are pioneers in the field. We highlighted on what worked and failed – and why – so participants could gather insight on what to expect when they faced a similar problem.

Co-located Event

Chair



Reem Al Ghanim
Division Head,
Women Development
& Diversity
Saudi Aramco

LEWAS – LEADERSHIP EXCELLENCE FOR WOMEN – AWARDS & SYMPOSIUM

About the Awards

An industry initiative of MEPEC, the Leadership Excellence for Women Awards (LEWA) is an award program dedicated to recognizing professional excellence in women from the Oil & Gas industry.

LEWA celebrates women who demonstrate innovation, leadership and talent, in both academic and business sectors of the industry. There are seven award categories, dedicated to women academicians, engineers and technical experts. The awards are judged by industry experts chosen from amongst the partners and committee members of MEPEC.



LEWA Award Categories

- Academic Achievement
- Academic of Distinction
- Rising Star
- Leading with Excellence
- Woman of Achievement
- Corporate Champion (Male)
- Corporate Excellence

LEWAS Steering Committee Members



Dr. Anissa Bendjeriou Sedjerari
Research Scientist,
KAUST Catalysis Center



Dr. Miasser Al Ghamdi
Sr. Manager (A), Computation
and Reaction Modeling, ESD,
SABIC



Dawood Nassif
General Manager, nogaholding



Nada Al Mesfer
Quality Unit Head,
Well Surveillance Group,
Kuwait Oil Company - KOC



Dr. Ghada Salama
Instructional Associate Professor,
Texas A & M University



Suleyman M Ozmen
Downstream Licensing
Vice President,
Shell Global Solutions US Inc



Dr. Majeda Khraisheh
Professor & Head of Department,
Chemical Engineering,
Qatar University



Ulrike von Lonski
Director of Communications,
WPC - World Petroleum
Council

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2017 Award

The LEWAS winners are



Rising Star



Esra Alkhadhar Alhosani
Instrumentation and Control Engineer, Abu Dhabi Company for Onshore Oil Operation (ADCO)



Winner



Abrar Alabbad
Geologist, Saudi Aramco



Runner up



Haya Jasim
Instrument Engineer, Gulf Petrochemical Industries Company (GPIC)



Runner up

Leading with Excellence



Fatima Sharif
Warehouse Supervisor, Gulf Petrochemical Industries Company (GPIC)



Winner



Mariam Al Hendi
Senior Mechanical Engineer, Abu Dhabi Gas Industries Limited (GASCO)



Runner up



Rana Qudaih
Project Manager, Product Development, Borouge



Runner up

Woman of Achievement



Dr. Meena Marafi
Executive Director, Petroleum Research Center, Kuwait Institute for Scientific Research (KISR)



Winner



Najat Sharif
Human Resources Manager, Gulf Petrochemical Industries Company (GPIC)



Runner up



Merhane Kamel
Senior Static Equipment Specialist, Abu Dhabi Company for Onshore Oil Operation (ADCO)



Runner up

2017 Award

The LEWAS winners are

Academic of Distinction



Dr. Valerie Eveloy
Associate Professor,
Department of
Mechanical Engineering,
The Petroleum Institute,
Part of Khalifa University
of Science and
Technology (PI)



Winner



Dr. Lourdes Vega
Joint Chair
Professor,
The Petroleum
Institute, Part of
Khalifa University
of Science and
Technology (PI)



Runner up



Sumaya Ali S.A. Al-Maadeed
Head of
Computer Science
Department,
Qatar University
(QU)



Runner up

Academic Achievement



Safiya Khalil
Student,
The Petroleum
Institute, part of
Khalifa University
of Science and
Technology (PI)



Winner



Afsaneh Daneshvar
Chemical Engineer,
Qatar University
(QU)



Runner up



Asmaa Othman Mohamed
Chemical Engineer,
Qatar University
(QU)



Runner up

Corporate Champion



Dr. Ali Abdullah Al-Meshari
Manager,
EXPEC Advanced
Research Center, Saudi
Aramco; and Chief
Executive Officer,
Saudi Aramco Upstream
Technology Company



Winner



Adnan Mohamed
Leadership
Development
Section Head,
Abu Dhabi
National Oil
Company
(ADNOC)



Runner up



Mubarak Al-Mutairi
Manager,
Technical Services,
Kuwait National
Petroleum
Company (KNPC)



Runner up

Corporate Excellence

Tata Consultancy Services



Winner

Abu Dhabi National Oil Company



Runner up

Saudi Aramco



Runner up

LEWAS Workshop Agenda



Tuesday, 10 October 2017

Bahrain International Exhibition and Convention Centre

'Illuminating Your Path' A Workshop for Early Career Women

08:30 - 09:00 **Introduction and Keynote**

09:00 - 09:30 **GP Strategies**

To determine the current status of GCC Women in Leadership, Knowledge Group conducted a research study which targeted women in GCC countries. The purpose of the survey was to gather the opinions of women in the region on their opportunities in the workforce and more specifically, on their opportunities to enter leadership positions. In this session, Lisa Gulesserian will present the findings, conclusions, and recommendations they found. You will have an opportunity to be a part of the discussion on how we can better support women entering and succeeding in leadership positions.

Speaker

Lisa Gulesserian Leadership Development Consultant, Knowledge Group

09:30 - 12:00 **Roadmap to Leadership - Workshop**

Are you curious about your personal leadership style? This interactive workshop will give participants insight on modern leadership, while providing tools to kick-start their personal leadership journey.

Speaker

Zahi Abdein Management & Professional Trainer, Saudi Aramco

12:00 - 13:00 **Lunch**

13:00 - 13:30 **Barriers Facing Female Professionals in the Middle East and Asia**

How does the female workforce pipeline in the GCC compare to Lebanon, Jordan, Malaysia and Indonesia? This study dives into the barriers early career women face such as: entering the workforce, the lack of retention, and the need for promotion. Join us for the riveting findings from Aisha Alomair, Professor Richard Larson, Mitsui Professor of Engineering Systems, and Lisa D'ambrosio, Principal Researcher at MIT Age Lab

Speaker

Aisha Alomair Business Systems Analyst, Saudi Aramco

Principal Partner



LEWAS Workshop Agenda



Tuesday, 10 October 2017 (continued)

Bahrain International Exhibition and Convention Centre

13:30 - 16:00

Work-Life Balance - Workshop

Are you living out your values? What does success look like to you? How do you set boundaries? Is perfectionism and comparison weighing you down? Join us in this 3-hour session where we will debunk the myth of the true “Hollywood life”, and where we will find joy in the beautiful messy lives we were created to live!

Speaker

Jennifer Born Women Development & Diversity Division, Saudi Aramco

16:00 - 16:30

Plans and Goals

16:30 - 17:00

Call to Action and Q&A

Symposium Agenda

Wednesday, 11 October 2017

Bahrain International Exhibition and Convention Centre

‘Leadership Excellence for Women’ Symposium

07:00

Registration & Breakfast

08:30 - 09:30

Opening Remarks

Speakers

Jehan Al –Murbati Executive Director, Sustainable Energy Unit, UNDP Kingdom of Bahrain

Dr. Peter Bartlett CEO, BAPCO

09:30 - 10:00

Untapped Reserves: Promoting Gender Balance in Oil & Gas

Speakers

Dr. Iván Martén Senior Partner and MD, Vice Chairman, Energy Practice, The Boston Consulting Group (BCG)

Ulrike von Lonski Director of Communications, WPC - World Petroleum Council

10:00 - 10:30

Coffee Break

10:30 - 11:30

Women of Empowerment - Past, Present & the Future

Moderator

Ulrike von Lonski Director of Communications, WPC - World Petroleum Council

Symposium Agenda



Wednesday, 11 October 2017 (continued)

Bahrain International Exhibition and Convention Centre

	<p>Speakers</p> <p>Nada Al Mesfer Quality Unit Head, Well Surveillance Group, Kuwait Oil Company - KOC</p> <p>Dr. Valerie Eveloy Associate Professor, Department of Mechanical Engineering, The Petroleum Institute, part of Khalifa University of Science and Technology (PI)</p> <p>Dr. Miasser Al Ghamdi Sr. Manager (A), Computation and Reaction Modeling, ESD, SABIC</p> <p>Fatima Sharif Moosa Supervisor, Gulf Petrochemical Industries Company (GPIC)</p>
11:30 - 12:15	<p>Highlighting Corporate Excellence</p> <p>Moderator</p> <p>June Wispelwey Executive Director, AIChE</p> <p>Speakers</p> <p>Dr. Amal Jamil Fatani Center Head, All Women BPS & IT Center, Tata Consultancy Services</p> <p>Reem Al Ghanim Division Head, Women Development & Diversity, Saudi Aramco</p>
12:15 - 13:30	<p>Lunch</p>
13:30 - 14:30	<p>Narrowing the Gender Gap and Strengthening the Female Pipeline in the Oil & Gas Industry</p> <p>Moderator</p> <p>Dr. Iván Martén Senior Partner and MD, Vice Chairman, Energy Practice, The Boston Consulting Group (BCG)</p> <p>Speakers</p> <p>Houda Dabboussi General Manager, New Business Development MENA Upstream International, Shell</p> <p>Dr. Meena Marafi Executive Director, Petroleum Research Center, Kuwait Institute for Scientific Research (KISR)</p> <p>Dr. Ali Abdullah Al-Meshari Manager, EXPEC Advanced Research Center, Saudi Aramco, and Chief Executive Officer of Saudi Aramco Upstream Technology Company</p> <p>Dr. Suzana Nunes, Professor Environmental Science and Engineering, Associate Dean, Biological and Environmental Science and Engineering, King Abdullah University of Science and Technology.</p>
14:30 - 15:00	<p>Coffee Break</p>
15:00 - 16:00	<p>Mentoring and Networking</p>
16:00	<p>Closing Remarks and Keynote</p>

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