تحت رعاية صاحب السمو الشيخ خليفة بن زايد آل نهيان رئيس دولة الإمارات العربية المتحدة UNDER THE PATRONAGE OF H.H. SHEIKH KHALIFA BIN ZAYED AL NAHYAN, PRESIDENT OF THE UNITED ARAB EMIRATES

Host



Abu Dhabi International Petroleum Exhibition & Conference 11 - 14 November 2019



Oil&Gas 4.0 Strategic Conference at ADIPEC

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Abu Dhabi National Exhibition Centre (ADNEC) Abu Dhabi, United Arab Emirates





Oil & Gas 4.0 Strategic Conference at ADIPEC



"This era, known as the Fourth Industrial Age, is creating a paradigm shift in global growth and driving demand for our products. Our industry must step up to enable this massive step change in global development. In short, this mission can be given a simple name – Oil and Gas 4.0."

Dr Sultan Ahmed Al Jaber **UAE** Minister of State and ADNOC Group CEO

As we enter the 4th Industrial Age, the world's demand for energy and energybased products is increasing at an unprecedented rate. Oil and gas remains essential to the broader energy mix and a key enabler of tomorrow's global economy.

Energy companies are factoring into their strategies an assortment of global megatrends; new energy trading maps, continued downstream integration and diversification and navigating climate and environmental issues driven by policy and regulation changes in a frequently moving geopolitical landscape.

An Emerging Agenda for the Oil & Gas Industry

The primary mission of the oil and gas industry in the 4th Industrial Age is to stay ahead of the world's growing energy demand. We are calling this mission 'Oil and Gas 4.0'.

Oil and Gas 4.0, the Strategic Conference at ADIPEC, is rethinking how the industry adapts and applies disruptive and innovative technologies. Technologies with the ability to move at pace to deliver increased value across industries and value chains. In addition to creating an industry agenda committed to attract a digitally native, inclusive and diverse workforce with a total talent management agenda.

Oil and Gas 4.0 will ensure the industry demonstrates environmental stewardship and reshapes oil and gas multi-layered partnerships and ecosystems of the future.

A Selection of Oil & Gas 4.0 Speakers Include:



His Excellency Dr Sultan Ahmed Al Jaber Minister of State United Arab Emirates and CEO ADNOC Group



His Excellency Suhail Mohamed Al Mazrouei Minister of Energy and Industry United Arab Emirates



Condoleezza Rice Secretary of State (2005 - 2009)United States of America



His Excellency Tarek El Molla Minister of Petroleum & Mineral Resource Arab Republic of Egypt



His Excellency Thamir Al Ghadhban **Deputy Prime Minister** for Energy Affairs Minister of Oil Republic of Iraq



His Excellency

Sultanate of Oman



Mohammed Hamad Al Rumhy Hala Adel Zawati Minister of Oil and Gas Minister of Energy & Mineral Resources The Hashemite Kingdom of Jordan



His Excellency Omar Ayub Khan Federal Minister for Energy (Petroleum & Power Divisions) Government of Pakistan



Honourable Irene Muloni Minister of Energy & Mineral Development Republic of Uganda



His Excellency Ivan McKee Minister for Trade Investment & Innovation Scotland



Honourable John Munves Cabinet Secretary Ministry of Petroleum & Mining Kenya



His Excellency Mouhamadou Makhtar Cissé Minister of Petroleum and Energy Republic of Senega



His Excellency Adil Ali Ibrahim Minister of Energy & Mining The Republic of Sudan



His Excellency Mohammed Barkindo Secretary General OPEC



His Excellency Dr Mohammed Nasser Al Ahbabi **Director General** UAE Space Agency



Honourable Dr Mohammed Amin Adam Deputy Minister of Energy Republic of Ghana



Patrick Pouyanné Chairman and CEO Total



Bob Dudley Group Chief Executive BP



Claudio Descalz CEO Eni



Joe Kaese President and CEO Siemens



Sebastian Thrun CEO, KittyHawk; Co-Founder, Udacity Adjunct Professor, Stanford: Former Vice President, Google; Founder, Google X Lab ;Founder, GoogleGlass & Google Self Driving Car, Stanley



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Vagit Alekperov CEO LUKOIL

Abdulaziz Alhajri

Executive Director

Downstream Directorate

ADNOC



General (ret.) David Petraeus Chairman KKR Global Institute





Takayuki Ueda President & CEO **INPEX** Corporation

Antonio Pietri

President and CEO

Aspentech

Bakheet Al Katheeri

CEO

Mubadala Petroleum



Olivier Le Peuch CEO Schlumberger



Michele Fiorentino CIO ADNOC



Lord John Browne of Madingley **Executive Chairman** L1 Energy



John Defterios **CNN Business Emerging Markets** Editor and Anchor



Europe's No. 1 Ethical Hacker



Charif Souki Chairman of the Board Tellurian



Musabbeh Al Kaabi CEO Petroleum & Petrochemicals Mubadala Investment Company



Shawn Bennett Deputy Assistant Secretary for Oil and Natural Gas U.S. Department of Energy





Peter Terwiesch President Industrial Automation Business Member of the Group Executive Committee ABB



Fatema Mohamed Al Nuaimi CEO ADNOC LNG



Todd Karran President and CEO **NOVA Chemicals**



Dr Mohammed Al Qahtani Senior Vice President Upstream Saudi Aramco



Mark A. McCollum President and CEO Weatherford



Alfred Stern CEO BOREALIS



Andre Luyckx Vice President **Digital Transformation** ExxonMobil Upstream Integrated Solutions Company



D. Sergio López Deputy Director for Hydrocarbons Ministry of Energy, Tourism and the Digital Agenda Spain



Dr Rainer Seele CEO OMV



Lorenzo Simonelli Chairman and CEO **Baker Hughes**



Seifi Ghasemi Chairman, President and CEO **Air Products**



Michael Sabel Co-CEO Co-Chairman and Founder



Greg Cross Artificial Intelligence Pioneer Serial Entrepreneur Co-Founder and Chief Business Officer Soul Machines



Becky Anderson Managing Editor **CNN Abu Dhabi** and Anchor



Yaser Saeed Al Mazrouei

CEO

ADNOC Onshore

David Dickson

President and CEO

McDermott

Jason Bordoff

Professor of

Professional Practice

International and Public Affairs Columbia University

Pedro Miró

CEO

CEPSA

Elena Burmistrova Deputy Chairman of the Gazprom Management Committee Director General Gazprom Export



Abdulaziz Al Judaimi Senior Vice President Downstream Saudi Aramco



Tomonobu Uchida President JOGMEC



Wim Thomas Chief Energy Advisor Shell



Shashi Shanker Chairman & Managing Director Oil & Natural Gas Corporation (ONGC)



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as

brochure is accurate

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Mario Mehren

CEO

Wintershall Dea











Venture Global LNG



Sanjiv Singh Chairman IndianOil



Jan Leitermann

CIO

OMV











Andrew Smart Global Energy Industry Managing Director Accenture



Reinhard Florey CFO OMV



Eduard Ruijs Managing Director & Member of the Global Energy and Power Infrastructure Team BlackRock



Tom Ellacott Senior Vice President Wood MacKenzie



Proscovia Nabbanja CEO Uganda National Oil Company



Richard Holsman Accenture Digital Lead for Resources Accenture



Mark Cutis CFO ADNOC



Arjun Murti Senior Advisor Warburg Pincus



Alan Nelson CTO ADNOC



Dr Fereidun Fesharaki Chairman FGE



Darryl K. Willis Vice President Energy Industry Microsoft



Hadley Gamble Anchor CNBC



Mike Train President Emerson and Chairman **Emerson Automation Solutions**



Brian Worrell CFO Baker Hughes

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"ADIPEC is growing to become the event for the industry, the must-attend event in the calendar of most, if not all, of the major CEOs."

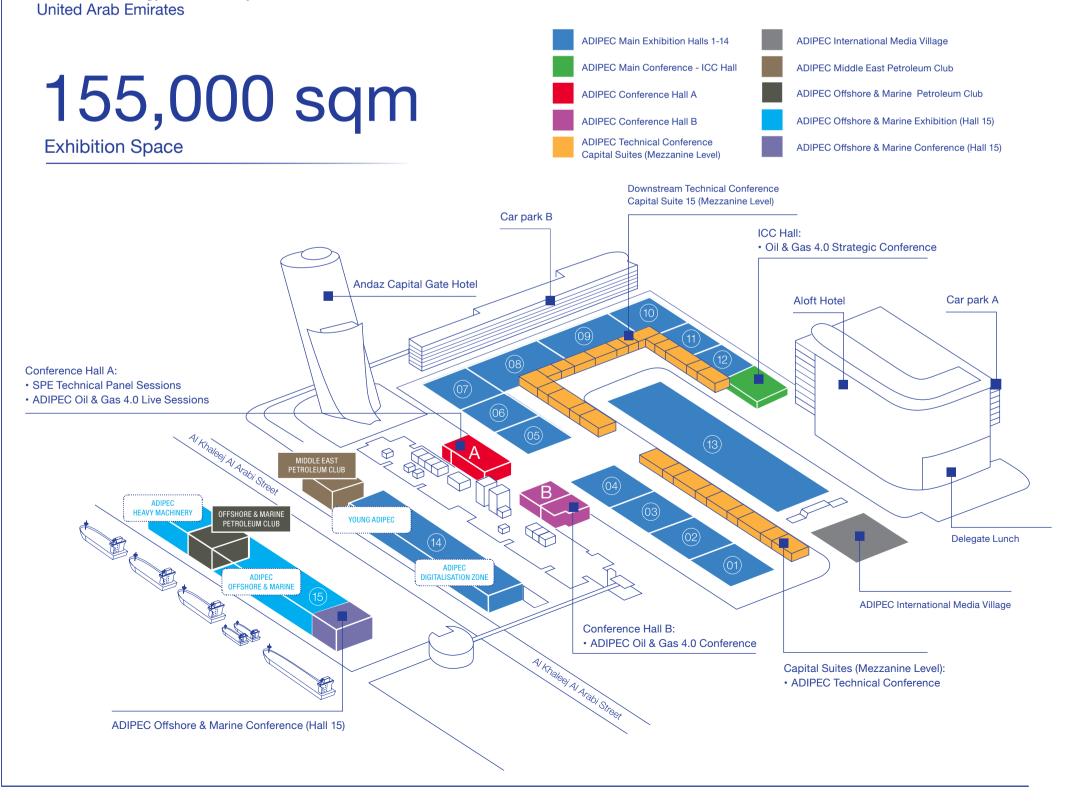
ADIPEC 2019 A Blueprint for the Oil & Gas Industry

The Abu Dhabi International Petroleum Exhibition and Conference (ADIPEC) provides one of the most important platforms to do business and exchange information, attracting global energy ministers, CEOs, leading industry decision makers and influencers.

Since its inauguration in 1984, ADIPEC has continued to grow, gaining worldwide recognition as the premier oil and gas industry exhibition and conference.

The exhibition hosts 2,200+ international exhibiting companies across 155,000 gross sqm with 29 country pavilions, attracting over 145,000 global attendees and 42 National and International Oil Companies.

The conference hosts over 980 strategic and technical speakers across 160+ sessions covering the whole energy value chain attracting over 10,400 delegates.





His Excellency

Suhail Mohammed Al Mazrouei Minister of Energy and Industry

The World's Most Important Oil & Gas Event

His Excellency Tarek El Molla Minister of Petroleum & Mineral Resources Arab Republic of Egypt



"ADIPEC is a one stop shop where we meet the people we want to meet – but we are also able to listen and learn about the latest in this industry. It's my 4th year in a row to come to ADIPEC, each year it's getting more attendees, more Ministers and more CEOs." His Excellency Mohammad Barkindo Secretary General, Organization of the Petroleum Exporting Countries (OPEC)



"ADIPEC has become one of the premium global energy platforms where the entire global energy industry gets together. I like the timing, in the fall, taking stock of the outgoing year, positioning yourself and projecting for the incoming year and in a very suitable environment with no encumbrances."

His Excellency Omar Sultan Al Olama Minister of State for Artificial Intelligence United Arab Emirates



"Any company, any government that merges data and oil is going to get yields that we have never seen before. We are going to see lower costs, wiith profits that cannot be found elsewhere. The opportunities are endless."

Amin H. Nasser President & CEO





"ADIPEC is becoming more important and more strategic every year – one of the best platforms for different companies and you can see the presence is not only regional – a lot of ministerial groups from different countries are also present here."

Bob Dudley Group Chief Executive



"If you look at the map, Abu Dhabi geographically is in the middle, it's not just a Middle Eastern conference now, it's people from all over the world. The delegates, the ministers are here, it's quite an extraordinary place and we'll be back every year."

Claudio Descalzi ^{CEO} Eni



"We are in Abu Dhabi, we are with our peers, we elaborate on the issues, we share strategy – in an environment that is tailored to the future and with a strong technological base and a very strong will to go forward together."

Dr Daniel Yergin Vice Chairman IHS Markit



Manager - Regulatory Affairs Saudi Aramco



ADIPEC 2019 Conference Chairman Omar Suwaina Al Suwaidi Director, Executive Office Directorate ADNOC



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"Over the last few years ADIPEC has become much more significant as a place of dialogue, on the thinking, on the outlook, and the different forces that are at play in the industry." "We have made enormous progress, but we still have a long way to go. Women's participation is essential to ensuring oil and gas has enough talent to drive growth in the coming years. This is why we need to focus on 'inclusion'. By removing those barriers that many women face in the workforce, often in very subtle ways, to bringing more opportunities for women in the industry."

"As we gather for this year's ADIPEC, the oil and gas industry continues to evolve and adapt to meet the ever growing global demand for energy. There is now a growing recognition of the importance of 'Oil and Gas 4.0' and many CEOs, policy makers and key stakeholders from across the world will join us in November to debate key issues, share ideas and to promote collaboration. As our industry transforms, it is clear that ADIPEC is not only leading the conversation but it is helping to set the oil and gas agenda."

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Programme Overview Oil & Gas 4.0 Strategic Conference

An emerging agenda for the oil and gas industry, providing 4 days of unprecedented dialogue, insight and thought leadership from across the industry landscape including:

- Ministerial and Policy Sessions
- Keynote Addresses
- Global Business Leaders Sessions
- Live Sessions
- Oil & Gas 4.0 Strategic Roundtables
- Inclusion and Diversity Sessions
- Technical sessions covering: upstream, midstream and downstream

DAY 1 Monday 11 November 2019

Keynote Address

Managing 21st century political risk: a unique insight into the issues companies will need to navigate to ensure they successfully create organisational resilience in the years ahead

LIVE Session

Inclusion and diversity of today: powerful women making history

10:00-11:30

Location: ICC Hall

ADIPEC 2019 Opening Ceremony

12:45-13:45

Location: ICC Hall

Ministerial & Policy Session

Energy systems at a global, regional and local level are responding to the pressures of environment, affordability and access

14:30 - 15:30

Location: ICC Hall



10:30-11:	00	Location: ICC Hall
The oil & gas	hed and delivered to ensure	active agenda of change will need organisations in the industry remain
11:00-12:	00	Location: ICC Hall
The 4th Indus	ial & Policy Session strial revolution is upon us. Of ordable energy	on ne of its critical assumptions will be
11:00-12:	00	Location: Conference Hall B
Harnessing th	Business Leaders ne potential of an inclusive, d anisational agendas	Session iverse and engaged workforce to
11:30-12: I IVE Se		Location: Conference Hall A
LIVE Se Egypt - trans	SSION sforming the North African a	and East Mediterranean gas market
LIVE Se Egypt - trans 12:00-12 Keynote Exploiting me	ssion forming the North African a :45 Address	and East Mediterranean gas market Location: ICC Hall eveloping and scaling new capabilities.
LIVE Se Egypt - trans 12:00-12 Keynote Exploiting me	ssion forming the North African a 45 Address gatrends will be critical in de al disruptors must the industr	and East Mediterranean gas market Location: ICC Hall eveloping and scaling new capabilities.
LIVE Se Egypt - trans 12:00-12 Keynote Exploiting me What potentia 13:30-14 Finance Financial par	ssion sforming the North African a :45 Address gatrends will be critical in de al disruptors must the industr :30 Global Business	and East Mediterranean gas market Location: ICC Hall eveloping and scaling new capabilities. ry embrace?
LIVE Se Egypt - trans 12:00-12 Keynote Exploiting me What potentia 13:30-14 Finance Financial par	ssion sforming the North African a :45 Address gatrends will be critical in de al disruptors must the industr :30 Global Business therships for the next phase nd private equity	And East Mediterranean gas market Location: ICC Hall eveloping and scaling new capabilities. ry embrace? Location: ICC Hall S Leaders Session
LIVE Se Egypt - trans 12:00-12 Keynote Exploiting me What potentia 13:30-14 Financial par companies a 14:00-15 Global E Sustaining ind an agile and r	ssion sforming the North African a :45 Address gatrends will be critical in de al disruptors must the industr :30 Global Business therships for the next phase nd private equity :00 Business Leaders dustry momentum in downst	And East Mediterranean gas market Location: ICC Hall eveloping and scaling new capabilities. ry embrace? Location: ICC Hall S Leaders Session of industry growth: National oil Location: Conference Hall B S Session ream: how will companies build

15:00-15:45

Location: Conference Hall A

LIVE Session

Disrupting and transforming the global gas and LNG energy landscape

15:30 - 16:30

Global Business Leaders Session

How is the industry embracing digital innovation?

16:00-17:00

Location: Conference Hall B

Global Business Leaders Session

Market volatility, trading policies and international agreements: what does the future hold?

16:15 - 17:00 -

Location: Conference Hall A

LIVE Session

How are oil and gas companies responding to energy transition? What more can we expect in the years ahead?

15:00-16:00

Location: Conference Hall B

Global Business Leaders Session

Digital transformation is broader than just technology and requires strong strategic partnerships, access to specialist skillsets, agile teaming and a fail fast culture

16:00-17:00

Location: Conference Hall B

Finance Global Business Leaders Session

Innovative partnerships to enhance and de-risk traditional business models

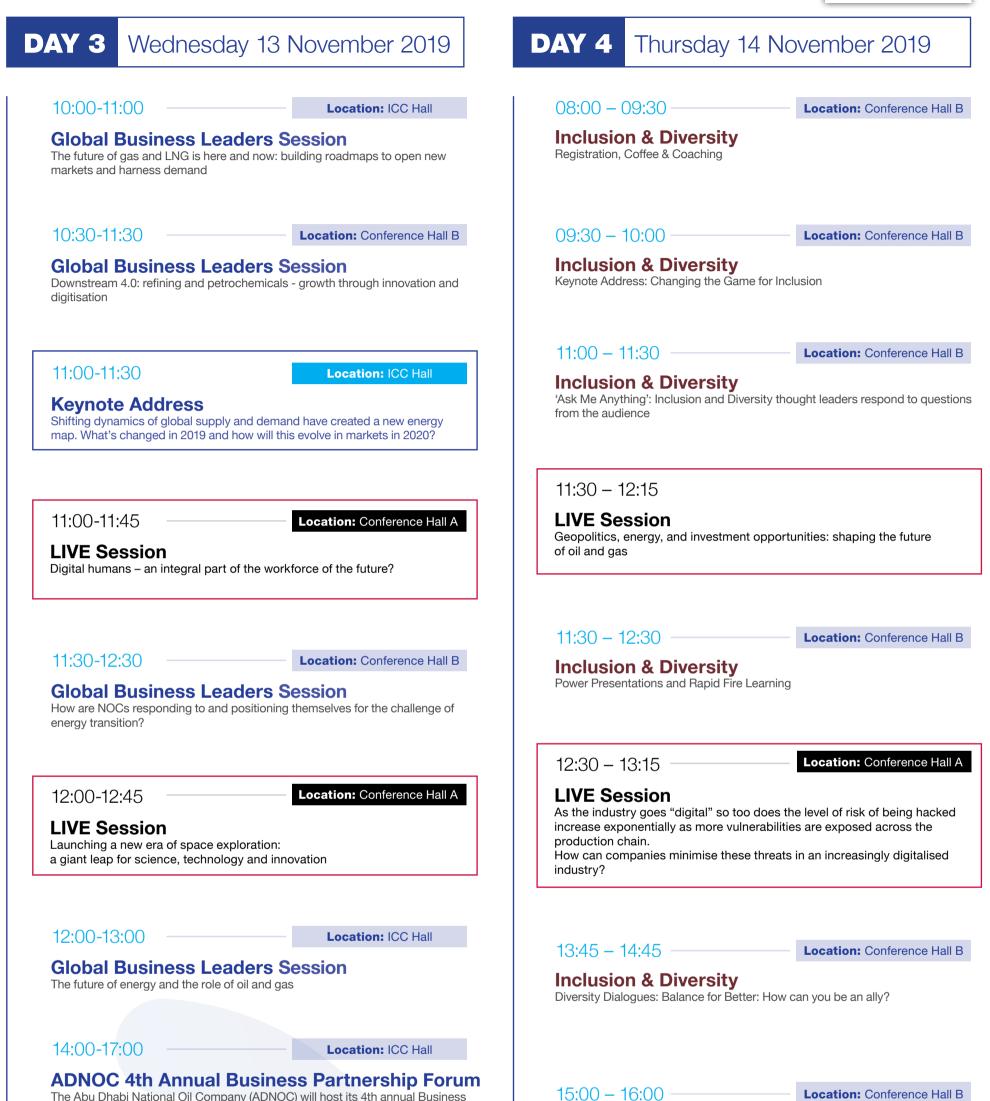
16:00-18:00

Location: ICC Hall

Transforming the trading landscape:

an unprecedented opportunity for the Middle East





The Abu Dhabi National Oil Company (ADNOC) will host its 4th annual Business Partnership Forum. Under the theme, Building on Our Platform for Growth, ADNOC will reinforce the vital importance of ADNOC's local, national, regional and international supplier partner communities. Topics to be discussed include: ADNOC's In-Country Value Program and ADNOC's Group-wide procurement update.

15:00 - 16:00

Inclusion & Diversity

ADIPEC's Oil and Gas Inclusion and Diversity Company of the Year Award Presentation

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Opening Ceremony & Keynote Addresses

Keynote Address: Managing 21st century political risk: a unique insight into the issues companies will need to navigate to ensure they successfully create organisational resilience in the years ahead



Condoleezza Rice Secretary of State (2005-2009) United States of America

DAY 1 Monday 11 November 2019

10:00-11:30

Location: ICC Hall

ADIPEC 2019 Opening Ceremony

Renowned global industry leaders set the stage for the conversation on how globally the oil and gas industry is being redefined to ensure growth and relevance to the future energy mix.



His Excellency Dr Sultan Ahmed Al Jaber Minister of State United Arab Emirates and CEO ADNOC Group



Minister of Energy and Industry United Arab Emirates

His Excellency Tarek El Molla Minister of Petroleum & Mineral Resource Arab Republic of Egypt





His Excellency Mohammed Barkindo Secretary General OPEC

John Defterios CNN Business Emerging Markets Editor and Anchor

Keynote Addresses

Each keynote speech will provide an insight into the understanding of key topics that are disrupting economics and the energy landscape; megatrends, industry dynamics, political influences, integration of 4.0, digitalisation, growing economies and emergent markets will be in focus on these keynote addresses, followed by a questions and answers format between the keynote speaker and moderator.

DAY 2	Tuesday 12 November 2019

The oil & gas company of the future: a proactive agenda of change will need to be established and delivered to ensure organisations in the industry remain relevant and competitive

12:00-12:45

10:30-11:00

Location: ICC Hall

Location: ICC Hall



Exploiting megatrends will be critical in developing and scaling new capabilities.



What potential disruptors must the industry embrace?

Sebastian Thrun CEO, KittyHawk; Co-Founder, Udacity; Adjunct Professor, Stanford Former Vice President, Google; Founder, Google X Lab Founder, GoogleGlass and Google Self Driving Car, Stanley

DAY 3 Wednesday 13 November 2019

11:00-11:30

Location: ICC Hall

Shifting dynamics of global supply and demand have created a new energy map. What's changed in 2019 and how will this evolve in markets in 2020?



Jason Bordoff Professor of Professional Practice International and Public Affairs Columbia University





Ministerial & Policy Sessions

As a new age for our industry beckons, ministers and policymakers come together at ADIPEC to put in place oil and gas strategies and policy capable of navigating a number of new industry and country dynamics.

High level discussions will be taking place around new energy systems, policies, strategic decisions and economic growth, revolving around the 4th Industrial Revolution and how are leaders creating conditions for Nations to embrace the benefits of this transformation.

DAY 1 Monday 11 November 2019

12:45-13:45

Location: ICC Hall

Energy systems at a global, regional and local level are responding to the pressures of environment, affordability and access

What policy measures need to be in place to ensure a successful transition; ensuring access to new sources of supply, new forms of competition and reducing the cost energy for industry and consumer alike?

Attendee Insights

For attendees responsible for investment decisions, policy formulation and building strategic partnerships in existing and new markets.



His Excellency Suhail Mohamed Al Mazrouei Minister of Energy and Industry United Arab Emirates



His Excellency Mohammed Hamad Al Rumhy Minister of Oil and Gas Sultanate of Oman



Her Excellency Hala Adel Zawati Minister of Energy & Mineral Resources The Hashemite Kingdom of Jordan



His Excellency Thamir Al Ghadhban Deputy Prime Minister for Energy Affairs Minister of Oil Republic of Iraq



John Defterios CNN Business Emerging Markets Editor and Anchor

DAY 2 Tuesday 12 November 2019

11:00-12:00

Location: ICC Hall









Honourable Irene Muloni

His Excellency Gabriel Mbaga Obiang Lima

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Sessions and topics

of 6 October 2019.

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How will policy makers ensure industrial and energy policy work together to ensure the economic benefits of this new industrial age are secured?

Attendee Insights

Linking industrial and energy policy is a fundamental tenant to creating conditions for economic growth. Attendees with responsibility for future growth assumptions and plans will gain a unique insight on the opportunities and importantly the barriers the panel identifies and discusses.



Honourable John Munyes Cabinet Secretary Ministry of Petroleum & Mining Kenya Federal Minister for Energy (Petroleum & Power Divisions) Government of Pakistan



His Excellency Mouhamadou Makhtar Cissé Minister of Petroleum and Energy Republic of Senegal Minister of Energy & Mineral Development Republic of Uganda

His Excellency

Adil Ali Ibrahim

Minister of Energy & Mining

The Republic of Sudan

Minister of Mines and Hydrocarbons Republic of Equatorial Guinea



Steve Sedgwick Anchor CNBC

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Global industry leaders and influencers come together at ADIPEC to connect, innovate and make change during ADIPEC's Global Business Leaders Panels.

These panels will gather top industry influencers to discuss what strategies are being developed to enable companies entering into new markets, attract new opportunities, develop key partnerships, people, and embrace the new ventures this new era of 4.0 is presenting.

DAY 1 Monday 11 November 2019

14:30-15:30

Location: ICC Hall

Oil and Gas 4.0: the nexus of technology and energy

How are companies empowering this step change in the development and delivery of the global energy system? What are the new strategies industry leading companies have embarked upon to capture growth, enable portfolio diversification and secure their position in the years ahead?

Attendee Insights

A must attend for industry attendees and commentators seeking to better understand the pivot the industry is undertaking. A unique insight opportunity into the strategy playbook of the leading companies in the industry.





Bob Dudley

BP



Patrick Pouyanné Chairman and CEO Total

Claudio Descalzi Group Chief Executive

CEO Eni











loo Kaese President and CEO Siemens

Takayuki Ueda President & CEO **INPEX** Corporation

Lorenzo Simonell Chairman and CEO **Baker Hughes**

Steve Sedgwick Ancho CNBC

15:30-16:30

How is the industry embracing digital innovation?

The oil and gas industry's need for growth is going through unescapable change. New energy trading maps, the changing nature of supply and demand, electrification and local industrial manufacturing are all demanding new ways of working. How are today's tech trends and the continued journey of digital transformation playing out for oil and gas companies? How is oil and gas 4.0 linking digital transformation, people and partnerships, enabling change and setting the basis to build the oil and gas company of the future?

Attendee Insights

An important session for attendees seeking to get a handle of the meaning of digital transformation and its actual impact from some of the leading architects of digital change in the industry.







Vagit Alekperov CEO LUKOIL

Dr Mohammed Al Qahtani Senior Vice President Upstream Saudi Aramco

Musabbeh Al Kaab CEO Petroleum & Petrochemicals Mubadala Investment Company





David Dickson President and CEO McDermott

Jason Bordoff Professor of **Professional Practice** International & Public Affairs Columbia University

will cont



Location: ICC Hall



16:00-17:00

Market volatility, trading policies and international agreements: what does the future hold?

Oil price volatility and ambiguity over global trade agreements often lead to uncertainty in global economic growth and unpredictable market conditions. Can and will the OPEC Alliance continue to support the balance of energy markets? Will the emergence of new regional trading hubs help balance markets? What new charters and frameworks can we expect? In addition, can industry, policy makers and global Think Tanks collaborate further to better align energy policy objectives and outcomes?

Attendee Insights

An important session for those attending with a keen interest in the likely direction of pricing over the next 12 months and the implications of price volatility on their planning assumptions.







His Excellency Honourable Mohammed Barkindo Dr Mohammed Amin Adam Deputy Minister of Energy Secretary General OPEC Republic of Ghana

D. Seraio López Deputy Director for Hydrocarbons Ministry of Energy Tourism and the **Digital Agenda** Spain





Dr Fereidun Fesharak Chairman FGF

Hadlev Gamble Anchor CNBC





DAY 2 Tuesday 12 November 2019

11:00-12:00

Location: Conference Hall B

Harnessing the potential of an inclusive, diverse and engaged workforce to transform organisational agendas

People create the basis of a successful business fostering development, innovation and creativity. In today's new era of Oil & Gas 4.0, business leaders are expected to do more to stand out especially when it comes to managing their pool of talent. How will the industry lead its existing and future employees differently? What are the unique initiatives being implemented that bridge disparity in gender, racial and ethnic diversity? How are business models being reinvented to attract and include millennials, women and minorities capitalising on the skill sets they bring?

Attendee Insights

All attendees will need to have in place strategies for dealing with the existing and future environmental agenda. The session provides a great opportunity for all attendees to better understand how leading organisations are planning to deal with this in the years ahead.



Proscovia Nabbania

CEO

Uganda National

Oil Company



CFO

ADNOC Offshore



Charlene Wheeless Wafa Ibrahim Al Hammadi **Chief Communications** & Principal Vice President Bechtel



Andrew Smar **Global Energy Industry** Managing Director Accenture



Location: ICC Hall

Financial partnerships for the next phase of industry growth: National oil companies and private equity

With new financial partnerships emerging it's imperative to understand the new investment opportunities for traditional and non-traditional energy players and what benefits this brings to the future when access to capital will be needed. How will the NOC/private equity relationship evolve and what is the opportunity they both bring to each other? How are operators releasing capital from assets and how attractive is the Middle East to private equity firms?

Attendee Insights

A must attend session for CEOs, CFOs, CIOs and C-level representatives from financial institutions and capital market firms that are looking to understand where the real investment and most profitable opportunities are in the region and globally.



Kenneth Ryan Partner & Head of Corporate Development for Capital Strategies & Investor Relations **Riverstone Holdings**





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Abdulaziz Alhairi

Executive Director

ADNOC



Sustaining industry momentum in downstream: how will companies build an agile and resilient business model capable of withstanding the inevitable cyclical highs and lows in the years ahead?

What new strategies, tactics and innovative partnership models will organisations need to put in place to reshape their refining and petrochemicals portfolio ensuring its ability to position for the new market opportunities and manage the downturn in demand for certain parts of the product slate?

Attendee Insights

#ADIPEC

#ADIPEC2019

A session for downstream executives, service partners and consultants seeking insight into the changes likely to emerge in this sector. Helping them better position their organisations to take advantage of this dynamic and fast changing part of the value chain.

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Pedro Miró

CEO

Dr Rainer Seele CEO Downstream Directorate OMV











Francois Good Senior Vice President **Refining & Petrochemicals** Orient, Total

Catherine MacGrego President New Ventures TechnipFMC

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Javier Blas Chief Energy Correspondent **Bloomberg News**

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A successful energy transition to a lower carbon world requires that oil and gas is supplied in a way that minimises adverse

social and environmental impact. An increasing number of countries, jurisdictions, and companies have announced targets

or goals to ensure that oil and gas meets certain environmental targets. What further steps will the industry need to take to

reduce indirect GHG emissions associated with the production, processing, transmission, refining, and distribution of oil

Business leaders across all components of the oil and gas value chain will gain a better understanding from the session, of the actions they will need to take to ensure their workforce is aligned in a manner that will contribute to their own

DAY 2 Tuesday 12 November 2019

New strategies to accelerate the industry's response to

14:30-15:30

and gas?

Attendee Insights

transformation agenda.

environmental pressures

Location: ICC Hall









Elena Burmistrova Deputy Chairman of the Gazprom Management Committee **Director General** Gazprom Export

Keith Martin

CEO

Executive Board Member

Uniper SE

Chairman IndianOil



Vice Chairman



IHS Markit

1500-1600

Location: Conference Hall B

Digital transformation is broader than just technology and requires strong strategic partnerships, access to specialist skillsets, agile teaming and a fail fast culture

Strategic partnerships lead the way in enabling powerful digital ecosystems. Insights into the critical developments within the industry provide a unique base of insight on how the digital agenda is radically reshaping the oil and gas industry.

Attendee Insights

Attendees working on existing or future digital programmes and those responsible for building new partnership ecosystems within their organisations will be able to understand actions industry leaders have taken and importantly some of the lessons learnt in building new partnership models.



Mario Mehren

CEO

Wintershall Dea







Mark A. McCollum President and CEO Weatherford





Richard Holsman Accenture Digital Lead for Resources Accenture





Bakheet Al Katheeri CEO Mubadala Petroleum

Michele Fiorentino CIO ADNOC



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topics



How do we go beyond traditional oil and gas partnership models that provide increased financial, operational and technical benefits? What are the criteria for a successful and sustainable partnership? How will risk and reward be managed? Are these partnerships changing the nature of competition and can they be replicated in other parts of the value chain?

Olivier Le Peuch CEO Schlumberger



Mike Train **President Emerson** and Chairman Emerson

Automation Solutions

Peter Terwiesch President Industrial Automation Business Member of the







Location: Conference Hall B

OMV





Attendee Insights

16:00-17:00

For attendees operating not only in the oil and gas industry, but industries that are now looking to partner, invest and collaborate with oil and gas players. A must attend session that taps into the world of these new partnerships, highlighting the business opportunities on offer by this new adjunct to the industry's business model.



CFO

Baker Hughes

Group Executive Committee

ABB



Eduard Ruiis

Managing Director

& Member of the

Global Energy and Power

Infrastructure Team BlackRock



Umberto Carrara

Executive Vice President

Refining

Eni

Andre Luyckx

Vice President

Digital Transformation

ExxonMobil Upstream

Integrated Solutions

Company



Steve Sedgwick Ancho CNBC

16:00-18:00

Location: ICC Hall

Transforming the trading landscape: an unprecedented opportunity for the Middle East

2019 has been a transformative year for ADNOC Marketing, Supply and Trading. Hear perspectives from ADNOC's leadership team and key partners on the future of the trading landscape, as well as ADNOC's vision and plans for its Marketing, Supply and Trading Directorate. Attendees: Industry players, industry analysts, traders, high-level government stakeholders.



This



DAY 3 Wednesday 13 November 2019

10:00-11:00

The future of gas and LNG is here and now: building roadmaps to open new markets and harness demand

A look at the key factors that could affect supply and demand forecasts, accelerate approvals for known FIDs, and access to emerging markets.

Attendee Insights

With gas assets becoming an integral part of the industry's pivot. This session will be important for all attendees with existing gas assets and or seeking to acquire new assets to complement their portfolio.







Fatema Mohamed Al Nuaimi CEO ADNOC LNG

Michael Sabel Co-CEO Co-Chairman and Founder Venture Global LNG Stefano Cao CEO Saipem





Shawn Bennett Deputy Assistant Secretary for Oil and Natural Gas U.S. Department of Energy

Andrew Wood CEO and **Executive Director** Worley



Location: Conference Hall B

Location: ICC Hall

Downstream 4.0: refining and petrochemicals - growth through innovation and digitisation

The transformation of the refining and petrochemical industries continues at pace. How has this important part of the value chain initiated and delivered new strategies around digital, people and business partnership? What steps are being taken to reduce environmental impacts of complex conversion and distribution technologies?

Attendee Insights

For those attendees seeking to understand the planned interventions leading downstream executives will make to overcome some of the well-known roadblocks to ensure their businesses remain a profitable part of the industry value chain.





Alfred Stern CEO BOREALIS

Seifi Ghasemi Chairman, President and CEO Air Products

Todd Karran President and CEO NOVA Chemicals







Antonio Pietri

President and CEO

Aspentech



Darryl K. Willis Vice President Energy Industry Microsoft



Shashi Shanker Chairman & Managing Director **Oil & Natural Gas** Corporation (ONGC)

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Will

11:30-12:30

Location: Conference Hall B

How are NOCs responding to and positioning themselves for the challenge of energy transition?

The new energy trading map, the changing nature of hydrocarbon demand, the emergence of a global gas market all pose both a challenge and opportunity for National Oil Companies. How has the NOC strategy playbook changed in recent years? Will the operating models and strategic partnerships of NOCs need to change to allow them to compete and gain ground against the majors?

Attendee Insights

Attendees seeking to partner with NOCs will get a greater understanding of the likely direction these organisations will





12:00-13:00

The future of energy and the role of oil and gas

The future energy landscape remains uncertain. On the one hand, population growth and rising living standards point to the need for further significant increases in energy demand. On the other hand, there is a growing recognition of the need to reduce carbon emissions. The world has started on its transition to a lower carbon intensive energy system. But what will that world look like? And how quickly will it emerge?

Attendee Insights

Exploring the reasons why long-term hydrocarbon energy forecasts will be wrong, highlighting the risks around the key drivers of change. Specifically, what could act as a catalyst to accelerate the world away from oil, and what could this mean for gas? Conversely, what - if anything - could lead to higher oil and gas demand than forecast? And what are the strategic implications and how majors are positioning themselves for this uncertain world.

Location: ICC Hall







Tomonobu Uchida Wim Thomas **Chief Energy Advisor** President JOGMEC

Tom Ellacott Senior Vice President Wood MacKenzie



Morgan D. Bazilian Director, Professor of Public Policy, Division of Economics and Business Payne Institute

Ed Rawle Javier Blas **Chief Economist** Chief Energy Correspondent ADNOC **Bloomberg News**

11



MODERATOR

brochure is This





ADIPEC Offshore & Marine Conference

The ADIPEC Offshore and Marine Conference will bring together senior executives and high-level decision makers to explore how shipping, transportation and logistics companies can best add value throughout the oil, gas and petrochemicals supply chains. Offshore and Marine industry leaders will provide detailed and topical analysis of the issues and challenges facing the global and regional tanker sector, and how the needs and requirements of exporters in the Middle East can best be met now and in the future.

The programme will be hosted by leading BBC journalist Yalda Hakim, and discussions will evolve around insightful analysis of crude, product and chemical tanker markets, Big Data analytics, environmental regulations including IMO 2020, cyber and physical security and Human Resources challenges.

There will also be sessions on petrochemicals transportation and logistics, and how investment in downstream petrochemicals industries across the region is opening up new possibilities for shipping, transportation and logistics companies.

Industry leaders from the offshore vessel support and logistics sector and logistics sector will present how to rapidly this recovering business is responding to evolving energy industry requirements, while harnessing new technology to maintain high levels of safety and operational efficiency.

The ADIPEC Offshore and Marine Conference will conclude with a gala reception, hosted by soccer superstar Ruud Gullit, that will provide excellent opportunities for networking.

ADIPEC Offshore & Marine Conference

DAY 3 Wednesday 13 November 2019

9:15-10:00 **Registration and welcome coffee break**

will

and topics

Sessions

as of 6 October 2019.

This brochure is accurate

10:00-10:10 Inaugural Address

10:10-11:00 **Keynote Session**



Capt. Abdulkareem Al Masabi

CEO ADNOC Logistics & Services







Knowledge Partner



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What challenges are the global regional and tanker industry facing? Analysing the needs and requirements of the energy sector in the Middle East, focusing on the UAE-China trading developments and the emergence of new hubs.





Angus Frew

Secretary General & CEO BIMCO



Yalda Hakim Anchor BBC World News

11:00-11:30 Panel discussion followed by Q&A

11:30-11:45 Coffee Break

11:45-12:35 Tanker shipping - securely connecting markets at a time of geopolitical and economic uncertainty

Top industry leaders will assess the state of the crude, product and chemical tanker makers and outline how the sector can better assist in meeting the strategic objectives of energy exporting countries, and major producing companies, in a reliable, safe, secure and environmentally sustainable way. Topics will include:

- High profile market analysts of tanker shipping, including likely supply and demand side trends.
- What are economists predicting for world trade developments in the current tense geopolitical circumstances and what might this mean for tanker shipping markets?
- How are the main geopolitical risks being assessed and how might trade barriers impact on key markets?
- What vessels are needed to meet future demand and how will they be sourced, funded and financed?
- Speakers will address the physical and cyber security challenges facing the sector as well as the regulatory impact of IMO 2020 and the choice between low sulphur and scrubbers.
- The implications of the regional security situation and stance taken by Joint War Committee.

12:35-13:00 Panel discussion followed by Q&A

13:00-14:00 **Networking Lunch**

14:00-15:00 Petrochemicals transportation and logistics - adding value to Middle East exports

- Investment in the downstream petrochemical industries across the region is creating interesting challenges, and opportunities, in terms of shipping, transportation and logistics. How can petrochemical exports be delivered to market in a timely, efficient and cost-effective way?
- What role digitalisation plays in the sector?
- Assessing the increased focus by container shipping lines on the petrochemicals business and how this can assist in achieving strategic targets.
- The role of leading 3PL logistics service providers. The emergence of rail as a serious petrochemicals transport and logistics option.
- How can innovative new technology solutions like Hyperloop benefit petrochemicals exports?
- How does the development of localised arbitration services brings confidence and value to regional shipping and trade?



Ali Shehah Acting CEO

Kuwait Oil Tanker Company

MODERATOR

Yalda Hakim

BBC World News

Anchor



Chairman

S One Capital

Samir Chatuverdi CEO Kizad

Martin Wallgrer Head of Information GAC



Yalda Hakim Anchor **BBC World News**

15:00-15:30 Panel discussion followed by Q&A

15:30-15:45 **Coffee Break**

15:45-16:45

Offshore vessel support and logistics - responding to energy major requirements and harnessing technology to maintain operational quality

- The offshore vessel sector is slowly recovering after years in the doldrums. How can the recovery be sustained and what investments are now required?
- What types of vessels are most needed in specific markets and what technology solutions will be brought to market?
- Assessing market conditions from a global and regional perspective, highlighting important case studies and charting out future prospects for this business.
- The need to adopt a green shipping approach and the need for investment in Human Resources.



Alessandro Ciocchi

Group Director Offshore

VGroup











- Analysing the key design initiatives and technology solutions that can support investors, owners and operators as they navigate the challenges of offshore asset management.
- A review of offshore vessel design trends, The use of new environmentally friendly propulsion technology.
- The role of classification societies in taking the offshore maritime sectors to a new level of efficiency, quality and carbon neutrality.

16:45-17:15 Panel discussion followed by Q&A

18:30-20:30 ADNOC Logistics & Services Evening Reception*





NEW FOR ADIPEC 2019

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LIVE Sessions

ADIPEC Oil & Gas 4.0, the Strategic Conference at ADIPEC will be launching new and exclusive Live sessions gathering top leading moderators, taking stage alongside global influencers and disruptors in an informal and unique setting.

An exclusive question-answer format that aims to get the audience closer to leading global figures transforming the global economic and energy landscape. Topics will evolve around politics, megatrends and energy dynamics as well as how these renowned leaders went above and beyond, leading the way in today's rapidly evolving, fast paced world.

DAY 1

Monday 11 November 2019

Inclusion and diversity of today: powerful women making history

Raising awareness, addressing biases, and creating an action agenda to shape a diverse and inclusive society is a critical priority for today's leader.

This Live Session will feature a conversation with Condoleezza Rice, the first female African-American to be appointed US Secretary of State. A political scientist and diplomat, Dr Rice is widely considered to be one of the most influential women in the world. She is outspoken on race and gender issues and is an advocate for female empowerment. As Secretary of State, Dr Rice pioneered the policy of Transformational Diplomacy directed toward expanding the number of responsible democratic governments in the world.



Condoleezza Rice Secretary of State (2005-2009) United States of America



Becky Anderson Managing Editor CNN Abu Dhabi and Anchor

16:15 - 17:00 -

How are oil and gas companies responding to energy transition? What more can we expect in the years ahead?

With global energy demand rising and oil and gas still remaining an essential part of the global energy mix, companies must adopt and embrace the challenge to comply with governmental policies that require a step change and a commitment to more sustainable hydrocarbons. How are majors adopting these changes and what strategies are being developed? What technologies are being adopted? Are there specific investment opportunities and funds being allocated? And how the leaders of today can accelerate the energy transition with innovation, commitment and drive this global transformation towards a lower-carbon future."

This Live Session will feature a conversation with Lord John Browne of Madingley on how oil and gas companies are leading this transformation and what steps companies must adopt to combat climate change and spearhead transition.

DAY 2 Tuesday 12 November 2019

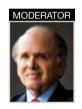
11:30-12:15

Egypt - transforming the North African and East Mediterranean gas market

With the region witnessing game changing discoveries, the race to create a regional gas and LNG market and trading hub has begun. New alliances are being formed, new delivery routes are being created and new infrastructure investments are in process, creating new bilateral trade and commercial partner business opportunities.



Lord John Browne of Madingley Executive Chairman L1 Energy



Dr Daniel Yergin Vice Chairman IHS Markit



His Excellency Tarek El Molla Minister of Petroleum & Mineral Resource Arab Republic of Egypt

15:00 - 15:45 -

Disrupting and transforming the global gas and LNG energy landscape

The world is changing and gas and LNG plays a crucial role within this change and in the global energy mix. With government policies advocating towards energy transition, new demand, more supply and new projects reaching FID, what to expect in the years ahead? Where are the new markets and will we see a transition on new business models and trends in this industry?



This Live Session will feature a conversation with Charif Souki, considered one of the pioneers of the US' gas and LNG exports, discussing how disruption can lead to innovation, new investments, new opportunities and success.



DAY 3 Wednesday 13 November 2019

11:00 - 11:45

Digital humans - an integral part of the workforce of the future?

Artificial intelligence partnered with digital humans can transform industries and economies, helping oil and gas companies exploit their business models to increase stakeholder and client engagement and bring about new dynamic interactive ways of operating and doing business across the energy value chain.

This Live Session will feature a conversation with Greg Cross on how humanising the next generation of computers can benefit the oil and gas industry; what can the oil and gas industry learn from leading edge businesses and where do robots fit in the next generation of business services and supply chain.



Greg Cross Artificial Intelligence Pioneer Serial Entrepreneur Co-Founder and Chief Business Officer Soul Machines





Launching a new era of space exploration - a giant leap for science, technology and innovation

The UAE's Space Agency's strategy contributes to the country's pillars of science, technology, innovation and policy, linking it to the Fourth Industrial Revolution. These objectives are aligned with the UAE's goal to diversify the national economy and support R&D.

This Live Session will feature a conversation with His Excellency Dr Mohammed Nasser Al Ahbabi on how His Excellency sent a probe into orbit around Mars last year spearheading innovation and what does that means to the development of Mars City in Dubai – a visionary strategy for the UAE.

DAY 4 Thursday 14 November 2019

11:30 - 12:15

Geopolitics, energy, and investment opportunities: Shaping the future of oil and gas

Geopolitics and economic changes impact the oil and gas industry; impacts and changes that are linked to CEO's strategies, continuously looking for growth and diversification across new markets and value chains. The right opportunities for companies are measured taking account these variables and organisations must understand the evolution of these geopolitic scenarios and what do they mean for new energy investments.

This Live Session will feature General (ret.) David Petraeus addressing how new policies and industry dynamics can impact the strategic directions companies need to adopt in the years ahead.



As the industry goes "digital" so too does the level of risk of being hacked increase exponentially as more vulnerabilities are exposed across the production chain

How can companies minimise these threats in an increasingly digitalised industry?

Companies biggest vulnerabilities are not the security systems in place, but the humans employed. Jamie Woodruff will be discussing these topics in this Live Session and how hackers today are using social engineering to access businesses; how to improve employees awareness; who is better equipped to spot attacks, and will ethical hackers leapfrog criminal hackers to gain the upper hand, or are we doomed to a world where the criminal hacker will always be one step ahead?

Conference Hall A: • SPE Tachnical Pasel Sessions





His Excellency Dr Mohammed Nasser Al Ahbabi Director General UAE Space Agency Hadley Gamble Anchor CNBC

General (ret.) David Petraeus Chairman KKR Global Institute



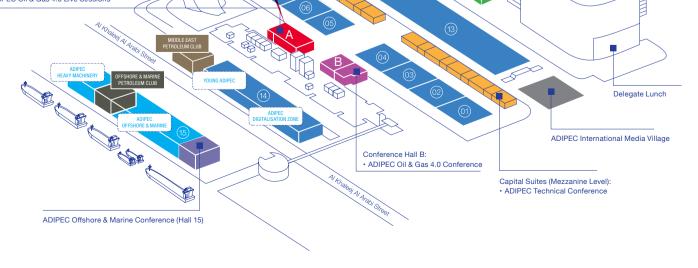
Mark Cutis

CFO ADNOC



Jamie Woodruff Europe's No. 1 Ethical Hacker

e to evolve and are subject to change.



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15

Oil & Gas 4.0 Strategic Roundtables

Innovation, transformation and agility are the backbone of today's forward thinking oil and gas company in the evolving energy landscape. They enable organisations to move their strategic business choices at pace, and create new company structures, business models and diverse partnerships, as they respond to new and emerging global megatrends.

ADIPEC Oil & Gas 4.0 embraces these values, leveraging the benefits of the 4th Industrial Age. ADIPEC 2019 introduces six exclusive, closed door roundtables, solely attended by CEOs and C-level executives, not only from leading international oil and gas companies, but also from the leading technology companies, which are spearheading disruptive innovation in the industry globally.

Stimulating intellectual, open and meaningful dialogue, the Oil & Gas 4.0 Strategic Roundtables will generate actionable outcomes and recommendations in support of transformative strategies that will help businesses to successfully navigate the evolving energy landscape.

The global oil and gas industry will benefit from the post-roundtables' published White Papers, which will detail the actionable outcomes and insights from each of the six conversations.



09:30 - 10:15

Big Data: A Pillar of Tomorrow's Petroleum Industry

With the emergence of the 4th industrial age, big data is revolutionising industries around the globe and the petroleum industry is no exception. This OPEC hosted roundtable will highlight the progressive influence of big data from innovation to adoption on the petroleum industry.

Attendee Insights

• For those interested in understanding OPEC's views on the industry's ongoing engagement and adoption of big data technology in its operations. From upstream efficiency gains to financial and productivity advantages across the entire value chain.





11:00 - 12:30

Re-energising transition: building a pathway towards the transformation of the world's energy mix

Oil and gas remains essential to the broader energy mix and a key enabler of tomorrow's global economy. However the world is changing, populations are increasing, people are becoming more prosperous and consumer demand continues to rise. Meanwhile, government policy and regulation continue to demand the transformation of the global energy landscape.

Attendee Insights

- As we enter the 4th Industrial Age, the world's demand for energy and energy-based products is increasing. How can the oil and gas industry commit to a sustainable hydrocarbons future that delivers solutions for low emissions across the value chain?
- Energy transition offers many pathways to follow. Which ones will turn out to be cul-de-sacs? Attendees will be able to explore options available and test their thinking on the right pathway to follow for their organisation.
- How are investor funds being allocated, accelerated and deployed to fast track environmentally disruptive and innovative technologies that have the ability to move at pace to deliver increased value across the oil and gas industry?

13:00 - 14:30

Digitalisation in Energy Roundtable: exploring how corporates need to adopt new cultures and mind sets to embrace digitalisation and prepare themselves for continued technological disruption into the future

A deep dive on how C-suite leaders must lead from the front as new technologies disrupt the industry landscape and create a need for a pipeline of digitally native talent required to seize the opportunities for future growth.

Attendee Insights

- A must attend session for those seeking a better understanding of how digitisation impacts the nature of work within the oil and gas industry. Digital transformation is a much-touted phrase, but
 - when it comes to creating new ways of working. little is known on

Roundtable Sponsor





Host

Dr Daniel Yergin Vice Chairman IHS Markit



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how the nature of work will be transformed.

 Attendees responsible for thinking through the future dimensions of an organisations workforce, its future skill sets and developing a robust employee value proposition in times of digital disruption will take away insights helpful in the formulation of their plans.



Host

Co-Founder, Udacity Adjunct Professor, Stanford Former Vice President, Google Founder, Google X Lab Founder, GoogleGlass & Google Self Driving Car, Stanley

Sebastian Thrun CEO, KittyHawk

15:30 - 17:00

Energy trends, policy formation and geopolitical factors affecting the global oil and gas industry

As global mega-trends continue to impact the oil and gas industry, c-suite insights help businesses embrace and navigate new industry trends and dynamics to successfully deliver future strategies for growth and diversification across industries and value chains.

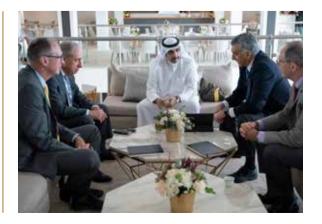
Attendee Insights

- An invaluable session for all those seeking a better understanding of how energy transition, the evolution of energy policy and 21st century geopolitics will impact the shape and form of the industry in the years ahead.
- Attendees responsible for leading and managing the strategic direction of their organisation as well as those responsible for shaping future energy policy in their market are likely to find the session of great interest.



Host

Jason Bordoff Professor of **Professional Practice** International and Public Affairs Columbia University





DAY 3 Wednesday 13 November 2019

10:30 - 12:00

Driving smart energy investments for the oil and gas business model of the future

Financial, investor insights and trends on smart oil and gas investments and intelligence on the new investment parameters emerging in the industry.

Attendee Insights

- A must attend session for those in the industry seeking insight as to where investments will be made in an era of energy transition.
- The industry will always witness large scale (\$10 billion) investments but increasingly the industry now offers investment opportunities that are smaller in value and offering faster returns.

12:30 - 14:00

The circular plastics economy contribution to the growth of the oil and gas industry

As oil and gas corporations commit to a more sustainable and environmentally conscious industry, how the industry can make plastics a more sustainable and reused, or recycled resource.

Attendee Insights

- A vital session for all those seeking to understand how organisations in the industry are planning to manage the paradox of growing global demand for petrochemicals and the need to be a driving force in the circular economy.
- Attendees responsible for planning, developing, advising and regulating the next wave of downstream investments will be able to get first hand insight from leading industry experts.





14:30 - 16:00

Human and machine collaboration and the impact this has on current business transformation

As the pace of digitalisation and technological development continues, employees and employers alike will need to understand the next wave of technological advancements. From developments in Al, IoT, augmented reality and machine learning through to the changes in sensory technology and big data, these changes will have extensive economic and societal impact.

Attendee Insights

• Attendees will gain insights into how these areas of technology will affect the workplace of the future across 3 core areas of business efficiency, social and economic sustainability and ethical adoption and governance.

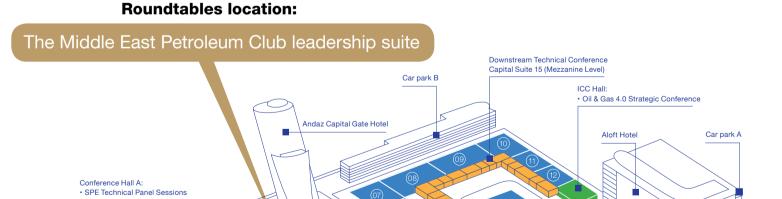


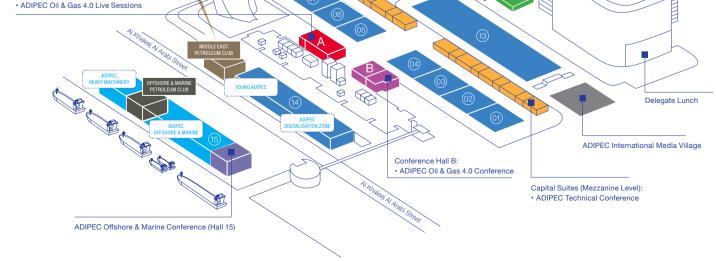
Greg Cross Artificial Intelligence Pioneer Serial Entrepreneur Co-Founder & Chief Business Officer Soul Machines

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17

Technical Conference at ADIPEC

ADIPEC is home to the world's largest Technical Conference for oil & gas professionals

Topping all previous records, industry experts submitted 3,672 technical abstracts – marking a 30% increase on 2018 submissions.

Hosted by the Abu Dhabi National Oil Company (ADNOC), the ADIPEC Technical Conference continues to grow in scope and prestige, with 2019 hosting 123 technical sessions covering 14 technical disciplines and 6 Technical Panel Sessions, attracting more than 10,400 delegates from over 135 countries worldwide.

123 Technical Sessions

Technical Categories for 2019

Location: Capital Suites (Mezzanine Level)

- E&P Geoscience
- Unconventional Resources
- Field Development
- Drilling and Completion Technology
- Project Engineering & Management
- Operational Excellence
- HSE
- Gas Technology
- People and Talent
- IOR/EOR
- Production Facilities Technologies
- Petroleum Advanced Analytics
- Artificial Intelligence in Oil and Gas

Location: Offshore & Marine Theatre, Hall 15

Offshore and Marine

6 Technical Panel Sessions

Technical Panel Topics for 2019

Location: Conference Hall A

- Digital Transformation and Innovation Implementing 4.0 Across the Whole Value Chain
- Unconventionals The Next Step Change
- Addressing the Human Capital Challenge Recruiting for Oil & Gas 4.0 and the Millennial Managed Organisation
- Creating Industry Partnerships to Maximise Operational and Commercial Value
- New Business Models for Oil & Gas Integrating Operators
 and Service Providers
- Global Gas Innovators The New Generation of Gas Projects



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10 Downstream Technical Sessions

Downstream Technical Categories for 2019

Location: Capital Suite 15 (Mezzanine Level)

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- Challenges and opportunities in the downstream industry
- Refining Technology, Operations and Marketing (RTOM)
- Circular Economy and the Future of the Downstream Industry (CEFDI)
- Disruptive Services for Petrochemical Plants (DSPP)
- Disruptive Technologies and Services in Refineries (DTSR)
- Gas Processing and Hydrogen Technology and Operations (GPHTO)
- Project Management, Engineering Technology and Implementation (PMETI)
- Operational Excellence, Maintenance and HSE (OEMH)
- Energy Efficiency and Energy Management (EEEM)
- Petrochemicals Technology, Operations (PTO)

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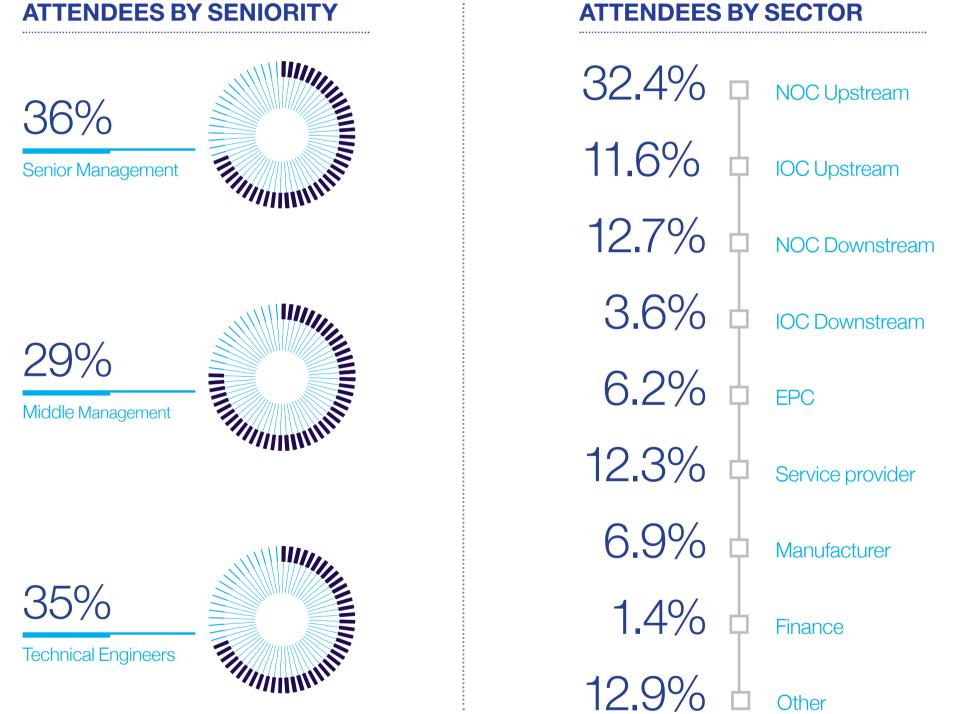
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Why Attend The ADIPEC Technical Conference?

- Unrivalled opportunity to learn from world-class expert technical speakers from across the globe.
- Invest in your knowledge development along with your peers by training at one of the largest technical conferences in the world.
- Meet fellow engineers from different oil and gas producing environments from around the world and learn about their unique challenges.
- Increase your ROI with exclusive online access provided post-conference to all technical abstracts presented.

As a registered delegate you will meet:



Other

ATTENDEES BY GEOGRAPHY



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19

Technical Panel Sessions



Hosted by the Abu Dhabi National Oil Company (ADNOC), the ADIPEC Technical Conference continues to grow in scope and prestige, with 2019 hosting 123 technical sessions covering 14 technical disciplines and 6 Technical Panel Sessions, attracting more than 10,400 delegates from over 135 countries worldwide.

DAY 1 Monday 11 November 2019

14:00 - 15:30

Location: Conference Hall A

Digital transformation and innovation – implementing 4.0 Across the whole value chain

The full adaptation of digital technology has been challenging for companies, multiple reasons can be sited for that, but the main colbert for failure has been the MOC processes and the willingness of employees to adapt to new ways.

Oil and gas has always been very technology driven industry. The use of sensors (IOT) and the Data generated by them has always been at the core of the industry for safe and reliable operations. Oil and Gas 4.0 is to position Oil companies in the heart of digital transformation and be a leader in the AI and Digital technology development.

Adapting new innovations into the oil and gas industry is challenging, Oil and gas has been a conservative industry, rightly so do to the safety risk associated with operations.

How can the mind set of agile and progressive be impeded into the oil and gas company of the future?

Panel Chair

Abdul Nasser Al Mughairbi

SVP Digital

ADNOC



Speakers





Toshio Todoroki

Jan Leitermanr Group CIO OMV

Sarah Karthigan Global AI Executive ExxonMobil

Chief Digital Officer Inpex Corporation



Rajeev Sonthalia

VP

Marketing & Technology

Schlumberge

Daniel Brennar VP COO Digital Baker Hughes

DAY 2 Tuesday 12 November 2019

11:30 - 13:00

Location: Conference Hall A

Unconventional – the next step change

For unconventional assets development of new technologies to drill, completed and fractured wells, as well as technologies and methods for the better understanding and identification of sweet spots proved to be essential. While today's technology advancements have become gamechangers, there is still plenty of room for growth. We've got to make a step change in technology and operations to maximise the value of our current and future assets.

Over the past 5 years, we have delivered minimal major breakthrough technologies. We've continued making small tweaks to well landing zone, perforation cluster spacing, proppant development, fluid volumes, placement design etc. Recently, the industry realised that data is an asset, and our challenge is how to use it, which also provides us with countless opportunities to utilise data analytics and machine learning.

Collectively, we are incumbent to develop the next generation of game changing technologies, and enhance industry collaboration, and best practices amongst world oil and gas producers. The Next Step Change is here now!

Panel Chair

Guy Tennant Area Vice President Southern Gulf Halliburton

Christophe Amadei Managing Director Total E&P UAE Unconventional Gas B.V.

Speakers

VP Geoscience and **Petroleum Engineering Baker Hughes**

Toshikazu Ebato

EVP Oil and Gas

Technology Unit JOGMEC



Mark Hopmann Completion Group President Weatherford

and are subject to change



(Full abstract available on the website www.adipec.com)

Location: Conference Hall A

Panel Chair

Speakers

Hans Christian Freitag

14:00 - 15:30

Addressing the human capital challenge – recruiting for oil & gas 4.0 And the millennial managed organisation

The world is changing. Oil & Gas industry is changing. So, we also need to change to stay competitive and deliver our strategies. We're in the midst of a significant transformation regarding the way we produce products thanks to the digitisation of manufacturing. This transition is so compelling that it is being called Industry 4.0 to represent the fourth revolution that has occurred in manufacturing. While many organisations might still be in denial about how Industry 4.0 could impact their business or struggling to find the talent or knowledge to know how to best adopt it for their unique use cases, several others are implementing changes today and preparing for a future where smart machines improve their business.

(Full abstract available on the website www.adipec.com)







Aseel Humoodi SVP Human Capital & Administration Borouge





Carolina Pretzel

VP Career

Management

Total E&P, Paris

Fabrice Bouchard **HR** Director Workforce Planning & Talent Management Schlumberger





Bushra Al BuAli Compensation & HRIS Manager Occidental of Oman, Inc.

Isabel Hametner SVP Human Resources OMV

Mark Heerink VP for Business **Development & Strategy** FLUOR







DAY 3 Wednesday 13 November 2019

09:30 - 11:00

Location: Conference Hall A



According to the IEA 2018 energy outlook the global energy demand is set to grow by a 25% between today and 2040 with oil and gas constituting a minimum of 50% of this energy demand. However the backdrop of a price volatility in the second half of 2018, other technological (and digital) market disruptions and the demands by society for a reduction in GHG emissions leaves energy companies confronting a turning point that requires setting different strategies to thrive in uncertain times.

A relentless focus to extract more value from projects and assets through innovation, increased operational efficiencies and reduced capital and operating expenditures is therefore a must.

Going it alone is not an option, this will require value based collaborations across the industry.



Ali Al Janabi

Country Chair

Abu Dhabi

Shell



Ranaa Riyamy

Director Major Projects

Occidental



Kyle Chapmar President Production Weatherford



Houda Dabboussi Vice President Commercial & NBD for MENA Shell

Hwem Ukpond Chief Global **Operations Officer** Baker Hughes

11:30 - 13:00

Location: Conference Hall A

New business models for oil and gas – integrating operators and service providers

The devastating drop in oil prices in 2014 and subsequent long recovery has had a lasting impact on our industry. One of the consequences has been a rethink of the traditional business models.

Since the inception of the oil and gas industry there have been clear lines between operators, drilling contractors and service companies. Now, in an effort to optimise costs, those lines are becoming blurred.

This overlap of responsibilities and roles raises a whole new set of questions. Operators traditionally try to maximise hydrocarbon recovery whereas drilling contractors and service companies strive to maximise returns on their investments. If a drilling contractor or service company becomes the operator, which priority takes precedence? Can an operator drill or service wells as effectively as a drilling contractor or service company?

On this panel, leaders from operators, drilling contractors and service companies will share their perspectives on these evolving new business models and the drivers behind them.





Speakers

Ibrahim Al Alawi Deputy CEO AlMansoori

Ayman Khattab President Gulf and North Africa Baker Hughes







Etienne Roux President Drilling and Evaluation Weatherford

David Reid Chief Marketing Officer NOV

14:00 - 15:30

Panel Chair

Speaker

Location: Conference Hall A

Global gas innovators – the new generation of gas projects

Even though the oil and gas business operates within a very complex global and national frameworks, it has never failed society in respect of delivering affordable and reliable supplies of oil and natural gas. The industry is overshadowed by the significant structural shift in the energy market, complex global supply chains, greenhouse emission, and shift in supply/demand pattern, which are increasing the complexity and risk of developing largescale gas projects. However, these factors, coupled with an increasingly competitive market and delivering competitive prices, are driving a renewed focus on unconventional solutions to improve efficiency, operational excellence, and environmental footprint within oil and gas operators.

This executive panel will examine lessons learned from the past in developing large-scale gas projects, best practices, and recent innovation in developing such projects. Also, it will examine how gas projects are impacted by many factors such as trends in the global supply/demand, structural change of the energy market, the new digital era, the shift in the innovation landscape, greenhouse emission, and global shortage and competition for talent.





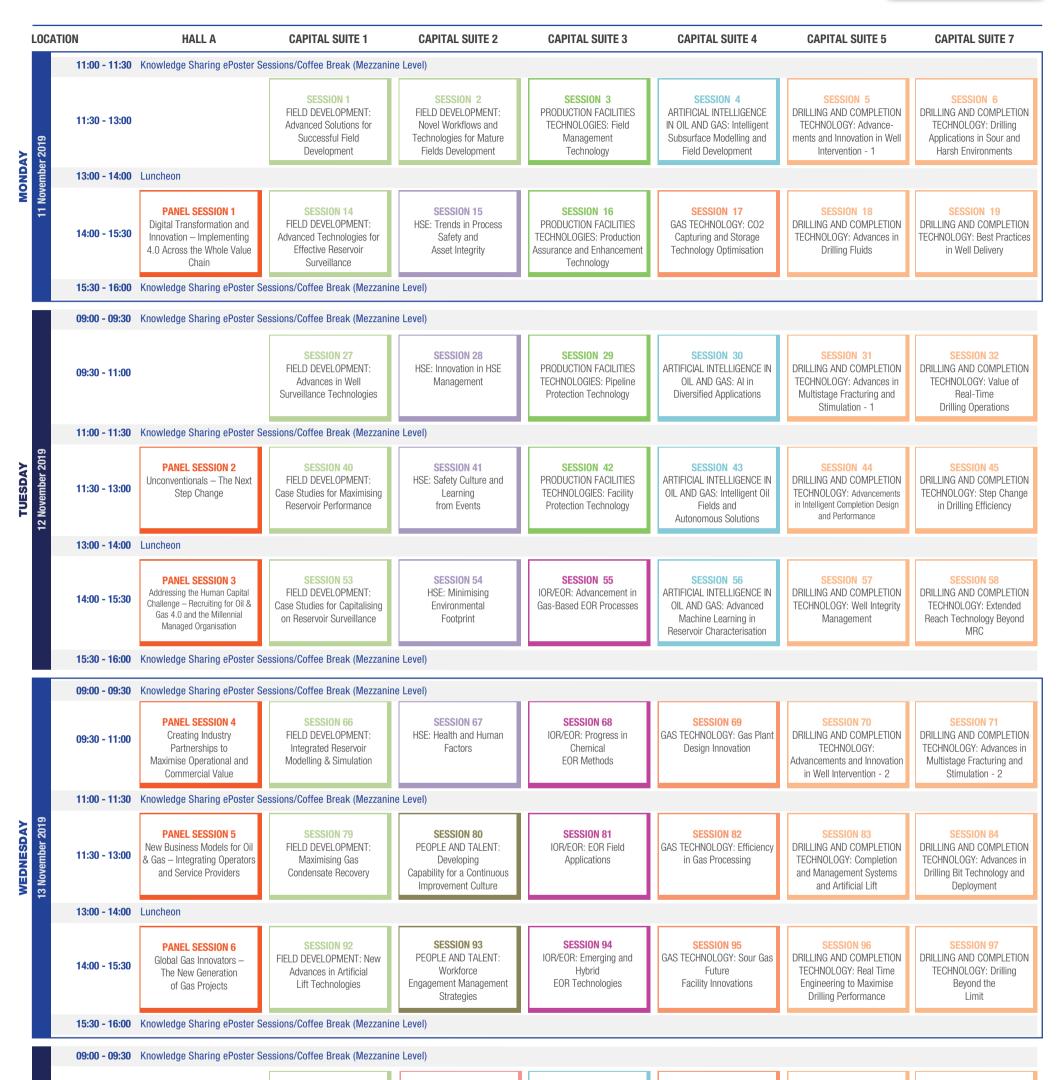
Gamal Hassan President **ADH** International

Mohamed Al Marzoogi SVP Development ADNOC



ADIPEC Technical Conference Sessions

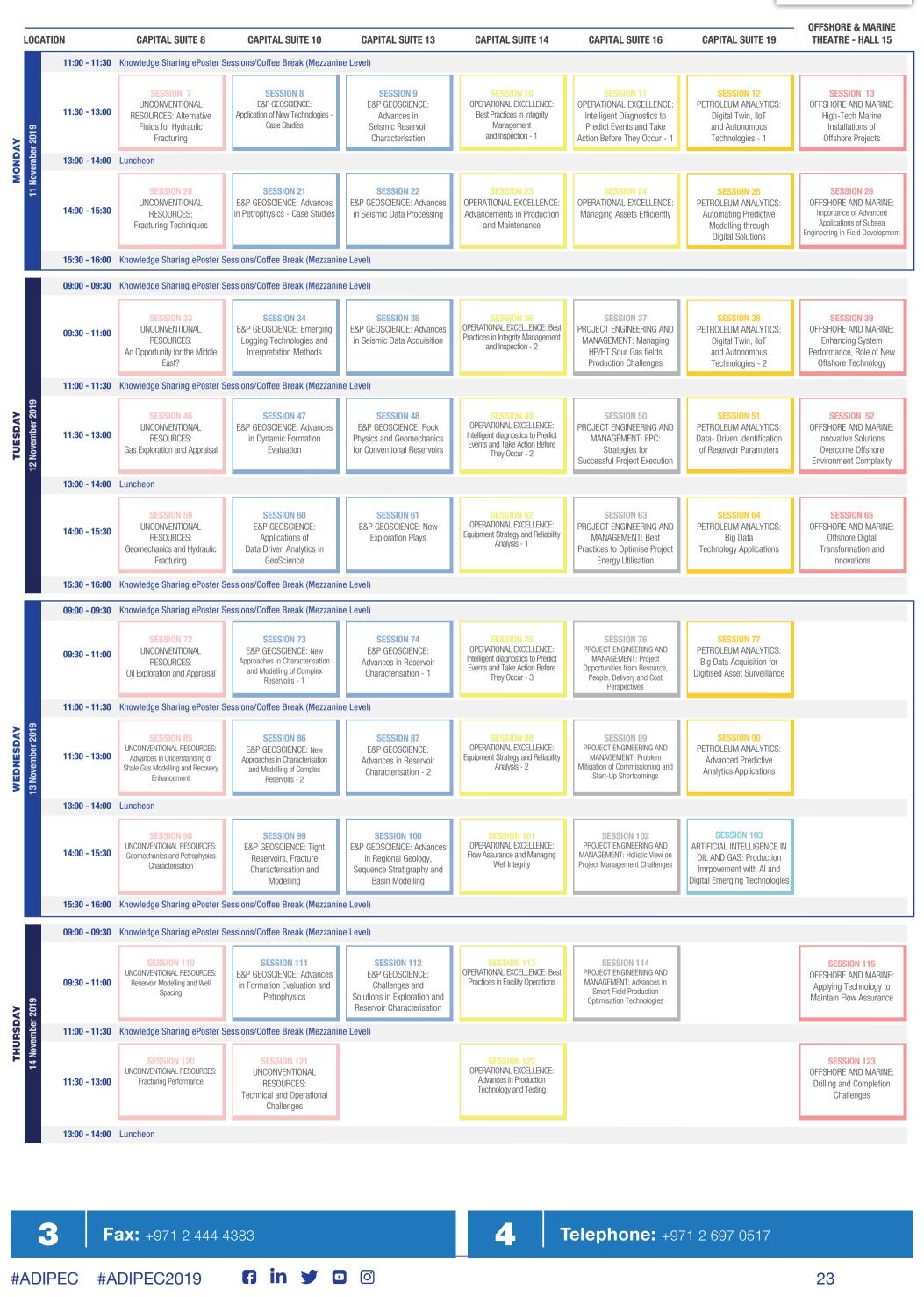




er 2019	09:30 - 11:00	SESSION 105 FIELD DEVELOPMENT: Advances and Challenges in Artificial Lift Technologies	SESSION 78 OFFSHORE AND MARINE: Management of Flow Assurancem from Design to Operations	SESSION 106 ARTIFICIAL INTELLIGENCE IN OIL AND GAS: Intelligent Drilling	SESSION 107 GAS TECHNOLOGY: Gas Compressors Designing and Enhancement	SESSION 108 DRILLING AND COMPLETION TECHNOLOGY: Advanced Lower Completion Technologies	SESSION 109 DRILLING AND COMPLETION TECHNOLOGY: Managing Wellbore Stability in Challenging Environments
mbe	11:00 - 11:30 Knowledge Sharing ePoster S	essions/Coffee Break (Mezzanir	ne Level)				
14 November 2019	11:30 - 13:00	SESSION 116 FIELD DEVELOPMENT: Challenging Field Development	SESSION 91 OFFSHORE AND MARINE: New Offshore Designs Save Cost, Time and Resources	SESSION 104 OFFSHORE AND MARINE: Advanced Marine Technology Unlock Offshore Development	SESSION 117 GAS TECHNOLOGY: Gas Metering Accuracy Makes Life Easier	SESSION 118 DRILLING AND COMPLETION TECHNOLOGY: Rig Equipment and Waste Management	SESSION 119 DRILLING AND COMPLETION TECHNOLOGY: Advances in Cementing Technology
	13:00 - 14:00 Luncheon						
EASY WAYS TO REGISTER							
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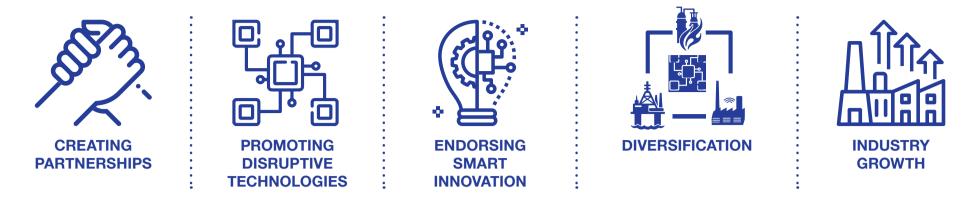
THURSDAY

ADIPEC Technical Conference Sessions



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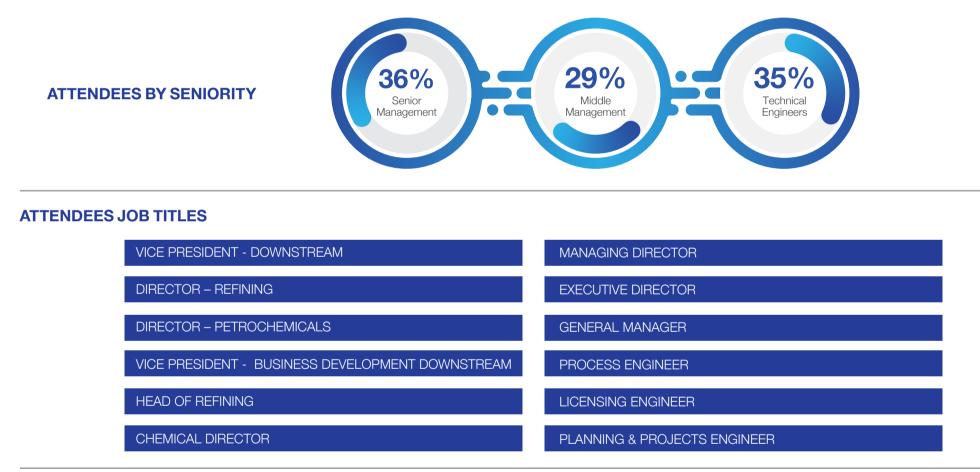
Downstream Technical Conference at ADIPEC



As the downstream sector becomes more competitive, positive and financially sound, strategic partnerships and disruptive technologies are reshaping downstream businesses. It's not just about short-term profits, but long-term investments that can create future proofing refineries and petrochemical plants, where smart innovation and digitalisation come together to embrace diversification and expansion into higher value and niche markets.

It is against this backdrop that ADIPEC 2019 further enhances its downstream technical content and delivers 4 NEW categories dedicated to support the growth of today's global downstream industry, from management decisions to day-to-day on the ground operations.

ADIPEC Downstream Conference Fast Facts As a conference delegate you will meet:



This brochure is accurate as of 6 October 2019. Sessions and topics will contin

17% AMERICA	12% EUROPE 41% MENA 8% AFRICA		•
		0 00	•





Confirmed Speakers ADIPEC 2019 Downstream Technical Conference



Dr. Gnana Singaravel

Specialist Research & Development -Research Centre Division ADNOC Refining



Eng. Otmar Schneider Vice President Asset Development OMV Refining & Marketing GmbH



Dr Alois Virag Senior Vice President Downstream Middle East and Asia

Richard Horne

Borouge Pte Ltd

Nicholas Kinnis

Technology McDermott

Phil Morris

Air Products

SNC-Lavalin

Refining

Vice President - Packaging



Jiří Hájek Director of Development and Innovation Vice Chairman of the Board Unipetrol Centre for Research and Education



Jeff Knight Project Development Manager Honeywell UOP



Giancarlo Lauro Manager CERM R&M Circular Economy Refining & Marketing Eni

Camino Fidalgo

Head of Digital

Cepsa Química



Massimo Trani Vice President Downstream Proprietary Technologies Licensing Eni S.p.A. Refining & Marketing



Mark Litke President

Cumulus Digital Systems, Inc.

Ashraf Zin PETRONAS

Process Engineer

Global Marketing Manager -

Gopi Sivasubramanian

Global Director of Process

Technologies - Downstream

Business Development Lummus



Johan Ferket **Consultancy Manager** Stork, a Fluor Company

Rafael Larraz

CEPSA

Engineering Manager



Vahid Rezagholizadeh Product Portfolio Manager Siemens

Manufacturing - Chemicals



Mohamed Mahmoud Lab Scientist (NATSD Technical Leader) Saudi Aramco



Pravin Kumar Senior Engineer The Bahrain Petroleum Company



Goran Surina Group **Reliability Leader** MOL Group



Vineet Bakshi Sr. Process Manager -Strategy & BD Engineers India Ltd

Dr. Prachi Singh Senior Engineer Research ADNOC R&D Programme Manager, Energy Efficiency Environment & Process Control and Optimisation



ADNOC Gas Processing

Jochen Koehler Head of BIM Competence Centre PERI Group

Salama Al Marzooqi (RCD) Scientist Catalysis Research Research Centre Division ADNOC Refining

Erik Verdeyen Chief Evangelist Qpinch









Michel Molinier



Balachandar Panneerselvam Study Manager Advisian







Santhosh Sasidharan Senior Process Engineer Saudi Aramco

Sneha Verma Fluor











Tobias Roelofs

Abdullah Dirani

Development

Fluor

Director of Business

R&D Manager

Comprimo

Technology Specialist -

part of the Worley Group







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brochure is accurate as of 6 October 2019. Sessions and topics

This





Director of Sales KBC (A Yokogawa Company)



PhD. Head of Business Development Downstream MEA OMV





Licensing Technical ExxonMobil Catalysts &



Petrochemistry and New Materials Coordinator Cepsa Research Centre



Manal Al Badawi Specialist - Environment Borouge



Ahmed Shoman Head of Technical Support & Market Development -Marketing Department ETHYDCO



Simone Corbò **Technical Sales** Baker Hughes





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Programme Overview ADIPEC 2019 Downstream Technical Conference

dmg::events

Session 1	(FR)	Session 2	
NEW Challenges and	opportunities in the downstream industry	Refining Techno	logy, Operations and Marketing (RTOM)
14:00 - 14:30	Market outlook insights: The evolving world of the downstream industry	09:30 - 10:40	Refining and petrochemical integration, tech and marketing
4:30 - 15:00	The role of the operators and the IMO Legislation	Session 3	
			y and the Future of the Downstream Industr
5:00 - 15:30	A new era for the oil and gas industry: How will climate change affect the oil and gas industry?	11:30 - 13:20	The role of the circular economy in advancin downstream industry
		Session 4	
		NEW	ces for Petrochemical Plants (DSPP)
		14:00 - 15:10	Disruptive Approach – Crude to Chemicals

DAY 3 Wednesday 13 November 2019

Session 5

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NEW Disruptive Technologies and Services in Refineries (DTSR)

09:30 - 11:20 Digitalisation and artificial intelligence disrupting new methodologies in downstream operations

Session 6



Gas Processing and Hydrogen Technology and Operations (GPHTO)

11:30 - 13:20

Gas and hydrogen processing technologies to optimise downstream operations and profitability

Session 7



14:00 - 15:50

Connecting downstream project management tools with engineering technology successfully implementing new processes to achieve better results

DAY 4 Thursday 14 November 2019

Session 8

Operational Excellence, Maintenance and HSE (OEMH)

09:30 - 11:00 Deploying innovative techniques in operational excellence, maintenance and HSE

Session 9

Energy Efficiency and Energy Management (EEEM)

11:30 - 15:40Increasing effectiveness through energy efficiency
management

Session 10

Petrochemicals Technology, Operations (PTO)

14:00 - 15:50

Achieving progress through petrochemical

innovation, technology and operations







Downstream Technical Conference Committee

The Downstream Technical Committee consist of industry experts who review submitted abstracts to select and create the downstream technical sessions. The sessions will provide a holistic view of refinery and petrochemical integration, project developments and latest technologies that can help drive your business forward and improve your day-to-day operations.



Francesco De Francesco Vice President International Refineries Development ENI



Ramón Areitio Toledo General Manager CEPSA Petroleum Operations Middle East LLC



Jiří Hájek Director of Development and Innovation Vice Chairman of the Board Unipetrol Centre for Research and Education



Dr. Mikael Berthod Vice President ADNOC Refining Research Center



Ahmed Salem Executive Director Downstream Refining & Petrochemicals MENAT & India Baker Hughes



Claus-Peter Hälsig Vice President Process & Technology FLUOR



Miguel Ángel García Carreño Process Development Discipline Manager CD Division Technology and New Ventures Repsol



Imre Csoti Vice President Onshore Operations - MENA McDermott



Mark Jones Superintendent Hydrotreating Thermal Processes & Process Control Technical Services BAPCO



Morgan Allen Senior Technical Service Manager Grace

Ahmed Omar Abdullah Chief Executive Officer Borouge



"The downstream is becoming mainstream. ADIPEC is getting the momentum – this is going to add value and at the right time."

Ramón Areitio Toledo General Manager CEPSA Petroleum Operations Middle East LLC



"The downstream industry is playing a prominent role in our industry, with many new developments and new investments on the

Francesco De Francesco

International Refineries Development Vice President ENI



"I look forward to ADIPEC's downstream technical sessions and shaping the discussions on integration, diversification and technological developments that can help drive the global downstream industry forward, facilitate dayto-day operations and help deliver market solutions."

horizon.

The expansion of ADIPEC's Downstream Technical Conference is a testament of this growth and we look forward to this year's programme with new sessions, new features and exciting new topics."

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Abu Dhabi International Petroleum Exhibition & Conference **INCLUSION & DIVERSITY** 14 November 2019



Inclusion & Diversity

Location: Conference Hall B

Fostering diverse and inclusive oil and gas workplaces - as oil and gas businesses focus on diversification, collaboration, integration and rapid adaptation to changing technology, a new era beckons in managing human capital that the industry must adapt to.



08:00 - 09:30

Registration, Coffee & Coaching



Dr Carole Nakhle Founder and Chief Executive Officer Crystol Energy



Sarah Howell Marketing Communications Advisor - LNG ExxonMobil LNG Market Development, Inc.



Eithne Treanor Presenter ADIPEC TV & CEO E Treanor Media

Eithne Treanor Presenter ADIPEC TV & CEO E Treanor Media

09:30 - 10:00 Keynote Address: Changing the Game for Inclusion

11:00 - 11:30

11:10 - 11:30

'Ask Me Anything': Inclusion and Diversity thought leaders respond to questions from the audience



Nina Hoegh Jensen Senior Vice President Operations Total Abu Al Bukhoosh



Intisaar Alkindy General Manager Upstream and Deputy Country Chairman Shell Oman



CEO and Chairman of Board of Directors Unipetrol Centre for Research and Education



Executive Development and Diversity and Inclusion Leader Baker Hughes







ABB



Dr. Satyam Priyadarshy Technology Fellow & Chief Data Scientist



Presenter ADIPEC TV & CEO E Treanor Media



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11:30 - 12:30

Coffee Break and Networking

Power Presentations and Rapid Fire Learning

Jan Leitermann CIO OMV

Sarah Andrews Head of Marketing Communications









Halliburton

Marie Ffolkes President, Americas Air Products





Eithne Treanor Presenter ADIPEC TV & CEO E Treanor Media



15:00 - 16:00

ADIPEC's Oil and Gas Inclusion and Diversity Company of the Year Award Presentation

16:00

Close of ADIPEC Inclusion and Diversity in Energy conference









ADIPEC 2019 Conference Pass Packages

ALL ACCESS **CONFERENCE PASS**

Unlimited access to ADIPEC 2019 Conferences

Organised by **dmg::**events

CONTENT

- Keynote Addresses
- Ministerial & Policy Sessions
- Global Business Leaders Sessions
- Finance Global Business Leader Sessions
- Technical Panels & Conference Sessions
- Downstream Technical Conference Sessions
- Inclusion & Diversity in Energy Conference Sessions
- Live Sessions

EXPERIENCE & NETWORKING

- Access to the Middle East Petroleum Club
- Access to the Global Meetings Programme
- Access to Delegate Lunches on all four days
- Access to the ADIPEC 2019 Mobile App
- Access to the Exhibition Floor
- Complimentary Delegate Bag
- Digital Copy of the Downstream Technical Presentations - available post-show
- Digital Copy of the Technical Conference Proceedings - available during the show
- Group Booking Support
- Pre-Registration & Fast-Track Entry

Standard Price:

\$4,599

Excluding 5% UAE Value Added Tax (VAT)

INCLUSION AND DIVERSITY **CONFERENCE PASS**

Championing inclusion & diversity in the workplace

Organised by **dmg::**events

CONTENT

Inclusion & Diversity Conference Sessions

EXPERIENCE & NETWORKING

- Access to the Global Meetings Programme
- Access to Delegate Lunch on the day of the Inclusion & Diversity Conference
- Access to the ADIPEC 2019 Mobile App
- Access to the Exhibition Floor
- Complimentary Delegate Bag

TECHNICAL CONFERENCE PASSES

Over 100 sessions of technical expertise covering the upstream sector

4-DAY PASS

CONTENT

Access to all the technical panels and conference sessions held across the 4 days, covering 14 technical categories:

COVERING 14 TECHNICAL CATEGORIES

- E&P Geoscience
- Unconventional Resources
- Field Development
- Drilling and Completion Technology ų.
- Project Engineering and Management
- Operational Excellence
- HSE

EXPERIENCE & NETWORKING

- Access to the Global Meetings Programme
- Access to Delegate Lunches on all four days
- Access to the ADIPEC 2019 Mobile App
- Access to the Exhibition Floor
- Complimentary Delegate Bag
- Digital Copy of the Technical Conference Proceedings - available during the show
- Group Booking Support
- Pre-Registration & Fast-Track Entry

Regular

SPE Members

Standard Price:

Standard Price:

\$1.270

\$1,435

Excluding 5% UAE Value Added Tax (VAT)

DOWNSTREAM TECHNICAL **CONFERENCE PASS**

Four days packed with downstream technical insights

Organised by **dmg::**events

CONTENT

• Downstream Technical Conference Sessions

EXPERIENCE & NETWORKING

- Access to the Global Meetings Programme
- Access to Delegate Lunches on four days of the Downstream Technical Conference
- Access to the ADIPEC 2019 Mobile App
- Access to the Exhibition Floor
- Complimentary Delegate Bag

2-DAY PASS

Organised by

CONTENT

- Access to all the technical panels and conference sessions - choose any 2 days of your choice from the 4, covering 14 technical categories:
- 6 Gas Technology
- ١ • People and Talent
- Offshore and Marine Ä,
- 4 IOR/EOR
- di i Production Facilities Technologies
- <u>.</u> Petroleum Advanced Analytics
- Artificial Intelligence in Oil and Gas

EXPERIENCE & NETWORKING

- Access to the Global Meetings Programme
- Access to Delegate Lunches on the two days reaistered for
- Access to the ADIPEC 2019 Mobile App
- Access to the Exhibition Floor
- Complimentary Delegate Bag
- Digital Copy of the Technical Conference Proceedings - available during the show
- Group Booking Support
- Pre-Registration & Fast-Track Entry

Regular

Standard Price:

\$1,350

CONTENT

Petroleum Club

Offshore & Marine Conference

EXPERIENCE & NETWORKING

Access to the ADIPEC 2019 Mobile App

Standard Price:

Excluding 5% UAE Value Added Tax (VAT)

ADIPEC OFFSHORE &

MARINE CONFERENCE

Organised by **dmg::**events

Delegate access to the ADIPEC Offshore & Marine

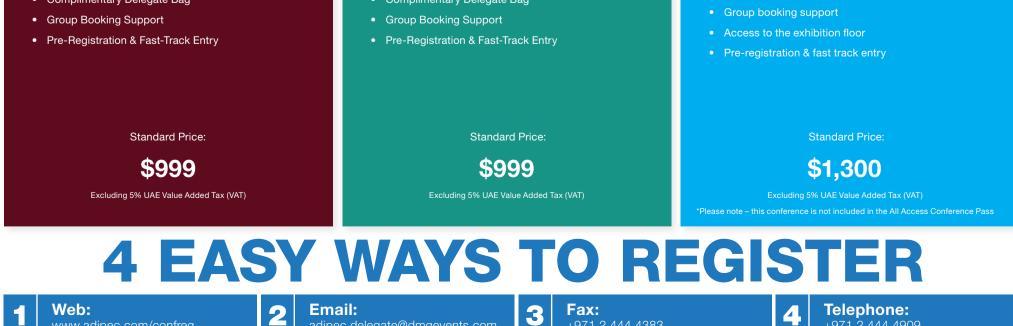
Access to delegate lunch on Wednesday 13 November in the Offshore and Marine Conference area

• Complimentary delegate bag ADNOC Logistics & Services

A full day of commercial content focused on exploring how shipping, transportation & logistics companies can best add value throughout the oil, gas & petrochemicals supply chain

SPE Members

\$830



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Abu Dhabi International Petroleum Exhibition & Conference 11 - 14 November 2019

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- **F:** +971 2 4444 383
- E: adipec@dmgevents.com

JUSTIFY YOUR ATTENDANCE

We know and understand it can be difficult to get approval to attend industry events and that travel and training budgets can be limited. To assist with your preparations to attend ADIPEC, we are pleased to



FOR CONFERENCE ENQUIRIES

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