



23 March - 1 April 2021 | Virtual

Host Organisation



Co-Host Organisations



**Schlumberger**

*Progressive Collaboration and Innovative Solutions:*

# Shaping the Future of Energy

## POST EVENT REPORT

Sponsoring Societies





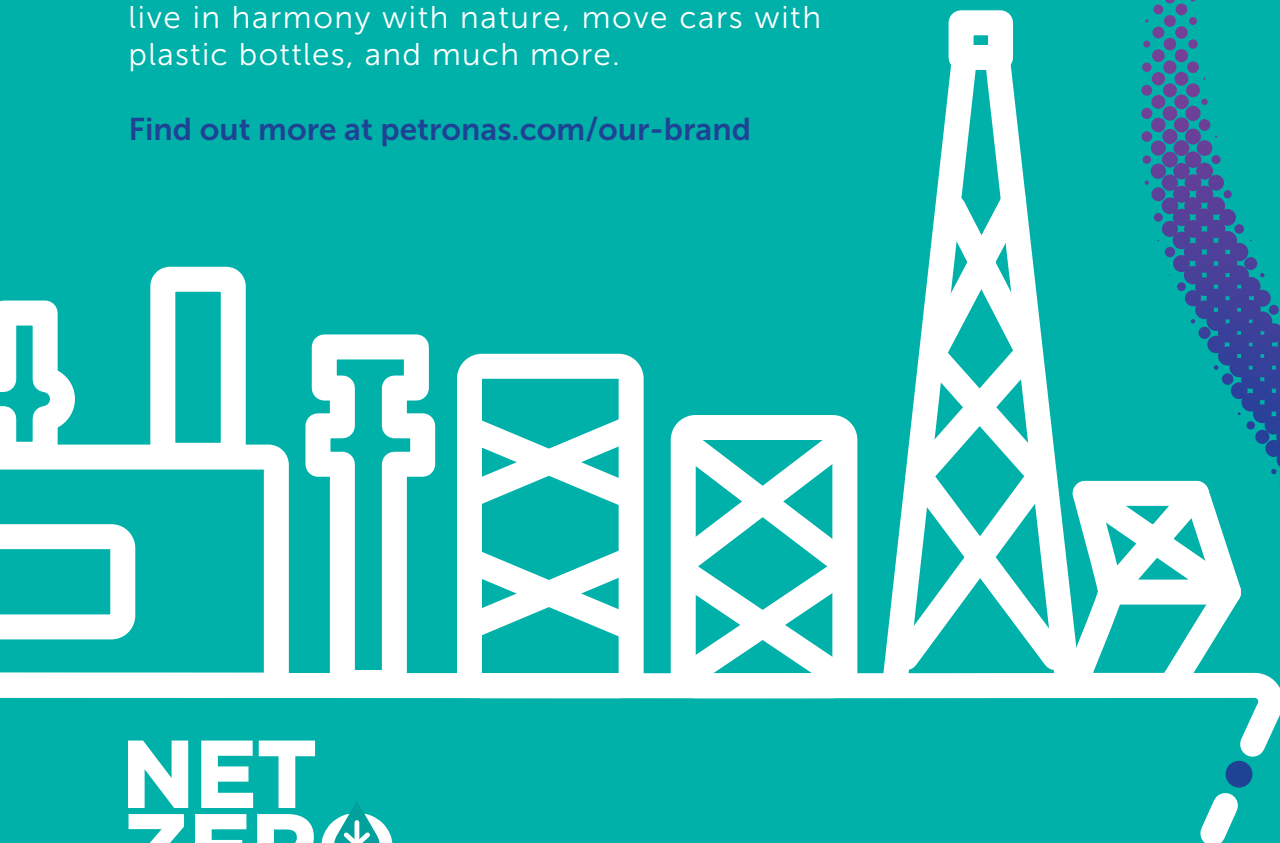
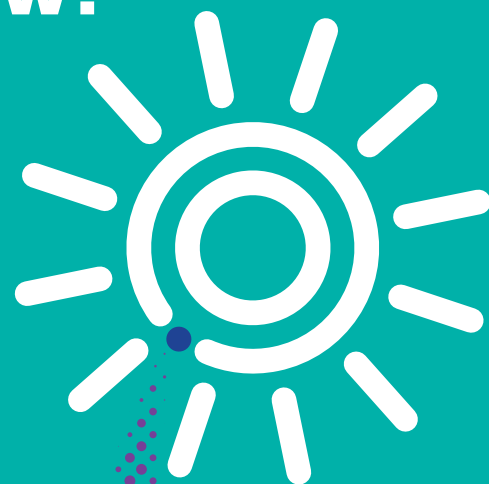
PETRONAS

# What does an an energy company have to do with you, your bottom line, and a better tomorrow?

When you connect the dots, everything.

As a progressive energy and solutions partner, we enrich lives for a sustainable future. This is our purpose. Our aim is to reduce emissions, grow renewable energy, bring education to more, champion social impact and promote a circular economy. This drives us to find new life for oil and gas, harness the power of solar energy, increase education opportunities, help people live in harmony with nature, move cars with plastic bottles, and much more.

Find out more at [petronas.com/our-brand](https://petronas.com/our-brand)

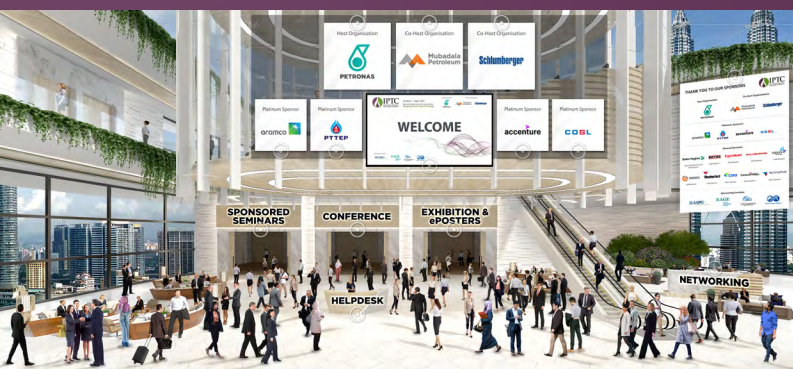


**NET  
ZERO**  
2050

**Passionate about Progress**

# Table of Contents

About IPTC and IPTC Sponsoring Societies	4
Thank You to Our Sponsors	5
Thank You to Our Exhibitors	6
IPTC 2021 In Numbers	7
IPTC 2021 In Photos	11
IPTC Boards of Directors, Executive Committee and Programme Committee	12
Opening Ceremony	16
IPTC Excellence in Project Integration Award	18
IPTC Insights	19
Executive Plenary and Panel Sessions	22
As the Experts	26
Technical and Knowledge Sharing ePoster Sessions	27
Engagement and Outreach	28



# About IPTC

Founded in 2005, the International Petroleum Technology Conference (IPTC) is the flagship multidisciplinary technical event in the Eastern Hemisphere. The scope of the conference programme and associated industry activities address the technology and relevant industry issues that challenge industry specialists and management around the world.

IPTC is sponsored by four industry organisations and societies, the American Association of Petroleum Geologists (AAPG); the European Association of Geoscientists and Engineers (EAGE); the Society of Exploration Geophysicists (SEG); and the Society of Petroleum Engineers (SPE).

IPTC is focused on the dissemination of new and current technology, best practices and multi-disciplinary activities designed to importance of the value chain and maximising asset value. The knowledge, capabilities and strengths of the participating countries and the sponsoring societies' global membership, over the spectrum of multi-disciplinary technologies, are central to the success of the conference and its corresponding exhibition.

## IPTC Sponsoring Societies



The American Association of Petroleum Geologists (AAPG) is one of the world's largest professional geological societies. AAPG works to advance the science of geology, especially as it relates to petroleum, natural gas, other subsurface fluids, and mineral resources; to promote the technology of exploring for, finding, and producing these materials in an economically and environmentally sound manner; and to advance the professional well-being of its members. AAPG was founded in 1917 and is headquartered in Tulsa, Oklahoma; currently almost one-third of members live outside the United States. For more information, visit: [www.aapg.org](http://www.aapg.org).



The European Association of Geoscientists & Engineers (EAGE) is a professional association of geoscientists and engineers. Founded in 1951, it is an organisation with a worldwide membership, providing a global network of commercial and academic professionals. The association is truly multi-disciplinary and international in form and pursuits. EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Division. EAGE has around 19,000 members worldwide representing over 100 countries. All members of EAGE are professionally involved in (or studying) geophysics, petroleum exploration, geology, reservoir engineering, mining and civil engineering. For more information, visit: [www.eage.org](http://www.eage.org).



The Society of Exploration Geophysicists (SEG) is a not-for-profit organisation committed to connecting the world of applied geophysics. With more than 20,000 members in 128 countries, SEG provides educational and technical resources to the global geosciences community through publications, books, events, forums, professional development courses, young professional programmes, and more. Founded in 1930, SEG fosters the expert and ethical practice of geophysics in the exploration and development of natural resources, characterisation of near surface, and mitigation of earth hazards. For more information, visit: [www.seg.org](http://www.seg.org).



The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 140,600 members in 144 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing opportunities to exchange information at in-person and online events and training courses, publications, and other resources at [www.spe.org](http://www.spe.org).



# Thank You to Our Sponsors



## HOST ORGANISATION



PETRONAS

## CO-HOST ORGANISATIONS



Mubadala  
Petroleum

Schlumberger

## PLATINUM SPONSORS



aramco



PTTEP

accenture

COSL

## GENERAL SPONSORS

Baker Hughes



Sponsored Seminar and  
Gold Sponsor

**BWTMS**  
TECHNICAL • MAINTENANCE • SOLUTIONS

Gold Sponsor

ExxonMobil

Gold Sponsor

HALLIBURTON

Gold Sponsor



Gold Sponsor



Gold Sponsor



Gold Sponsor



Silver Sponsor

ConocoPhillips

Silver Sponsor



Silver Sponsor

# Thank You to Our Exhibitors

## DELUXE



## PREMIUM



## STANDARD



# IPTC 2021 in Numbers



**4,266**  
Unique Attendees



**1,233**  
Participating  
Organisations



**79**  
Countries



**209**  
C-Suite Executives and  
Government Officials



**37**  
NOCs and IOCs



**29**  
Sponsors and Exhibitors



**80+**  
hours of business and  
technical content

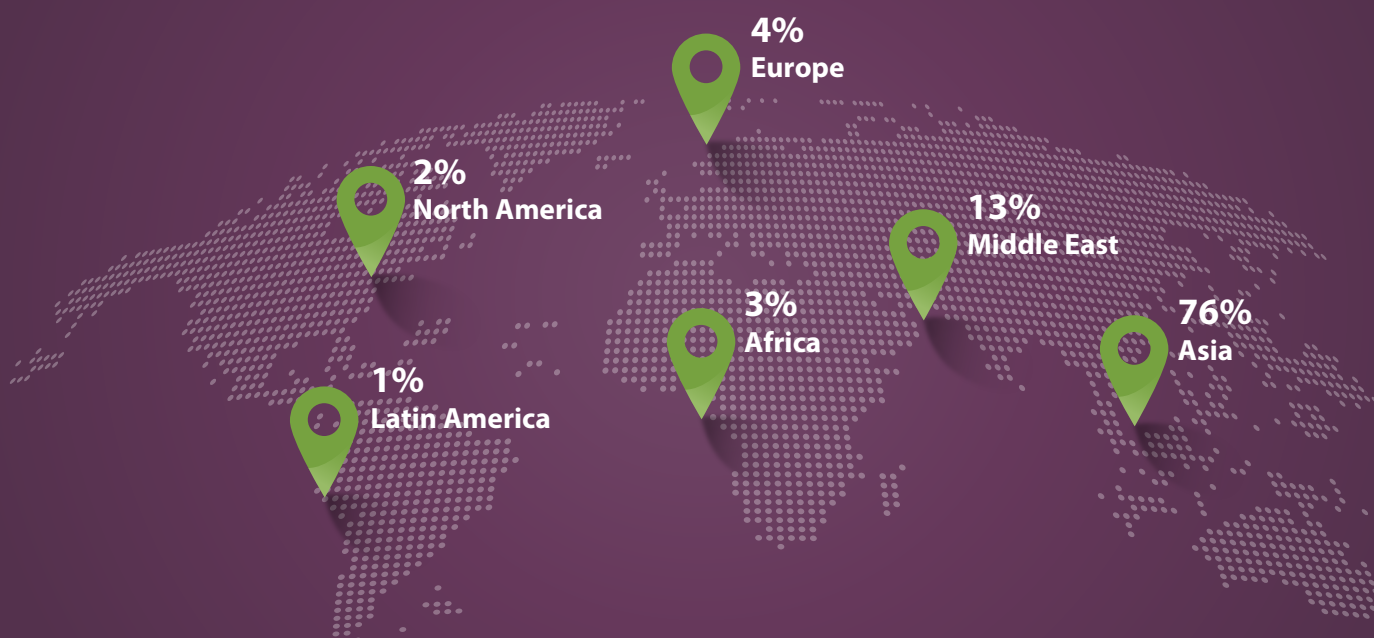


**30+**  
hours of High-Level  
Industry Dialogues



**40+**  
hours of Networking and  
Business Opportunities

## Attendance by Region



## Top 10 Countries



Malaysia



Saudi Arabia



Thailand



China



Indonesia



United States



India



United Arab  
Emirates



Singapore



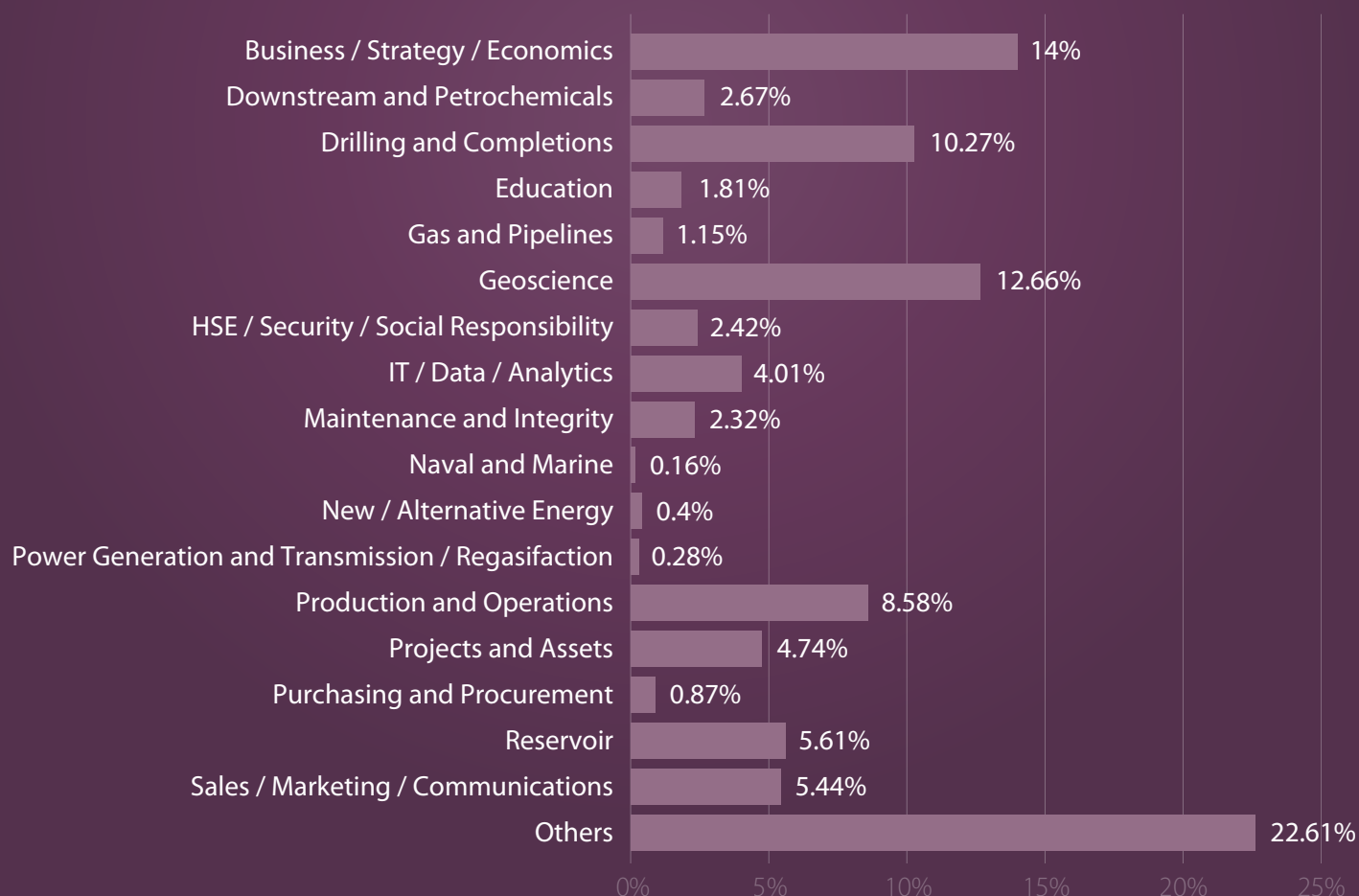
Nigeria

# IPTC 2021 in Numbers

## Attendance by Primary Business



## Attendance by Job Function





# IPTC 2021 in Numbers



## Virtual Engagement | Immersive Learning



96% rated IPTC 2021 as good to excellent



95% would recommend IPTC to their colleagues



93% rated the technical programme as good to excellent



91% rated the coverage of new topics and trends as good to excellent



91% rated the content of technical papers as good to excellent



91% rated their experience as very good to excellent



9,721 total conference sessions views



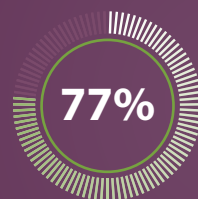
3,165 total ePosters views



5,048 total booth seminars views



81% of attendees visited the virtual exhibition



77% spent 1-5 hours at the virtual exhibition



1,320 average unique visits per day for exhibition booths

## What Our Attendees Liked Most

I must say, this is the best platform for connecting with members of the oil and gas industry worldwide. It was a great opportunity to learn and familiarise with new technological innovations.

Various recordings of the sessions enabled one to explore all the events one is interested in and not miss anything.

As a Petroleum Engineering student, I loved having this kind of virtual event that would give me more knowledge and help me get to know the world of oil and gas better.

It was highly interactive and very enlightening.

All the poster presentations, booth seminars and insights provided greater view of the future of the oil and gas sector.

The business card exchange, the booths, the lobby and all the settings make me feel like I'm at an in-person conference.

I especially like the user-friendly virtual site. Very easy to walk around from conference to exhibition, and also meet the speakers and network. Kudos to the organiser!

# IPTC 2021 in Numbers



**2,141**  
Conference Delegates



**68**  
Conference Sessions



**406**  
Speakers



**337**  
Technical Presentations



**90**  
Presenting Organisations

## Engaging Conference

**9** IPTC Insights Sessions

**1** Executive Plenary Session

**5** Panel Sessions

**3** Ask the Expert Sessions

**44** multidisciplinary technical sessions

**4** Sponsored Seminars

**132** interactive technical presentations and dialogues

**206** knowledge sharing ePoster presentations

## Interactive Exhibition



**19**  
Exhibitors



**65**  
Live Booth Seminars



**20+**  
Hours Live Chat and Video Calls



**700+**  
Business Cards Received at Booths



**190+**  
Featured Services and Solutions



Live Chat



Networking

## Expansive Networking

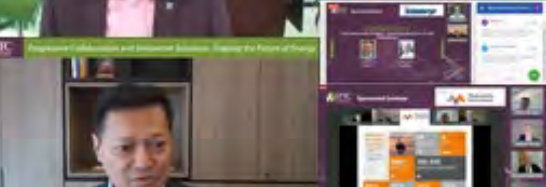
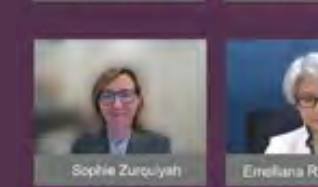


Meet the Speakers



Business Matching







# IPTC Board of Directors

As at 1 April 2021

The IPTC Board of Directors was formed in 2010 to oversee the management of IPTC. The Board is made up of members elected from IPTC's four founding societies. Members of the Board are appointed to three-year terms.

## Chair



**Mahmoud Abdulbaqi**  
*European Association of  
Geoscientists and Engineers*

## Vice-Chair



**Adif Zulkifli**  
Executive Vice President & CEO,  
Upstream  
PETRONAS  
*Society of Petroleum Engineers*

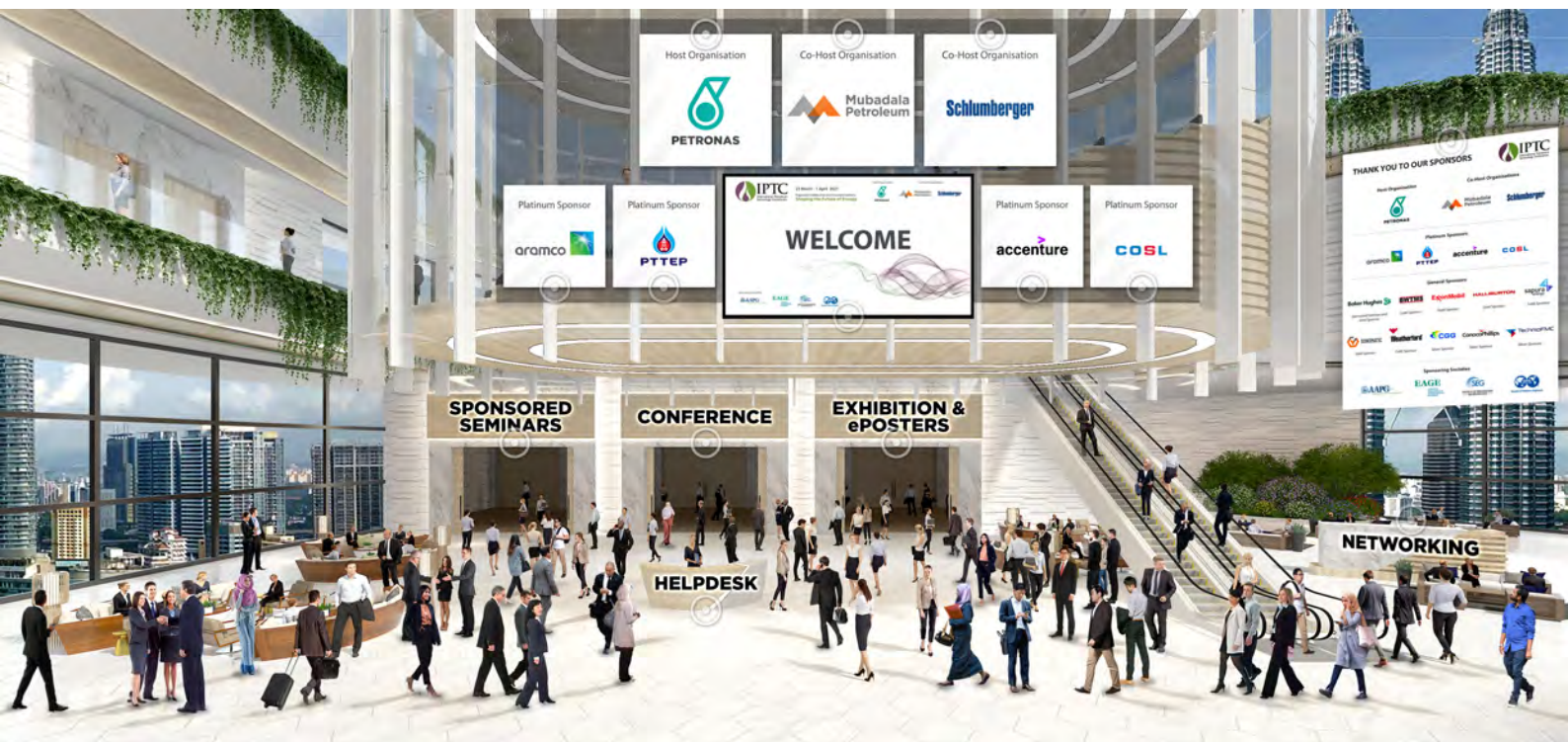
## Treasurer



**David Blanchard**  
President  
WTM Energy Inc.  
*American Association of Petroleum  
Geologists*

## Directors

- **Misfir AzZahrani**, Executive Director, Exploration, Saudi Aramco; *American Association of Petroleum Geologists*
- **Pascal Breton**, Deputy Vice President E&P Communication, Total; *European Association of Geoscientists and Engineers*
- **Mohammed Badri**, *Society of Exploration Geophysicists*
- **Joeseeph M. Reilly**, *Society of Exploration Geophysicists*
- **Mike Gunningham**, Chief Production Technologist, SGS Subsurface Consultancy; *Society of Petroleum Engineers*





# Executive Committee



The Executive Committee is comprised of senior executives from the worldwide energy industry who lead the development of the programme by determining the industry trends and key topics to be covered.

## Honourable Advisor



**Tengku Muhammad Taufik**

President & Group Chief Executive Officer  
PETRONAS

## Co-Chair



**Adif Zulkifli**

Executive Vice President & CEO, Upstream  
PETRONAS

## Co-Chair



**Stefano Raciti**

President & Country Manager, Malaysia  
Mubadala Petroleum

## Co-Chair



**Mohsin AlHadhrami**

President, East Asia  
Schlumberger

## Members

- **John McCreery**, Advisory Partner, Bain & Co.
- **Maria Sferruzza**, Senior Vice President, Asia Pacific, Baker Hughes
- **Qing Qu**, Vice President, Geoscience, Asia Pacific, CGG
- **Du Xiangdong**, Chief Engineer, China National Offshore Oil Corp. (CNOOC) Research Institute
- **Li Luguang**, Vice President, PetroChina and President, PetroChina E&P, China National Petroleum Corp. (CNPC)
- **Erik Keskula**, President, Malaysia, ConocoPhillips
- **Richard Hall**, Managing Director, Malaysia, EnQuest
- **Gustavo Baquero**, Senior Vice President, Operations Technology Excellence, Development & Production International, Equinor
- **Michael G. Cousins**, Senior Vice President, ExxonMobil Upstream Business Development Co.
- **Joe. D Rainey**, President – Eastern Hemisphere, Halliburton
- **Zhiyong Zhao**, Vice President, Asia, Hess Corp.
- **Toshikazu Ebato**, Executive Vice President Oil & Gas Upstream Technology Unit, Japan Oil, Gas and Metals National Corp. (JOGMEC)
- **Yasuhiko Kotera**, Executive Officer, General Manager, Technical Strategy Dept., JX Nippon Oil & Gas Exploration Corp.
- **Phongsthorn Thavisin**, Chief Executive Officer, PTT Exploration & Production Public Co. Ltd.
- **Muhammed Zamri Jusoh**, Chief Executive Officer, SapuraOMV
- **AbdulHameed Al-Rushaid**, Vice President, Petroleum Engineering and Development, Saudi Aramco
- **Markus Droll**, Executive Vice President, Projects & Engineering, Shell
- **Valentina Gabriel**, Senior Vice President, Technip Energies
- **Javier Rielo**, Senior Vice President, Asia Pacific, Total E&P
- **Frederico Justus**, President, Eastern Hemisphere, Weatherford

# Conference Programme Committee

The Conference Programme Committee is made up of more than 150 technical professionals who are responsible for developing the themes and scope of the conference's technical programme, and thus is made up of technical experts from the energy industry.

## Co-Chair



**Chen Kah Seong**  
Vice President  
Upstream Centre of Excellence  
PETRONAS

## Co-Chair



**Jalal Abu Bakar**  
Vice President,  
Commercial, Malaysia  
Mubadala Petroleum

## Co-Chair



**Zahris Sham Abu Musa**  
Global Account Director - PETRONAS  
Schlumberger

## American Association of Petroleum Geologists (AAPG) Subcommittee

### Co-Chairs

- **Azli B Abu Bakar**, Head Asia Pacific Basin Exploration, PETRONAS
- **Supamittra Danpanich**, Senior Vice President, Exploration Project Division, PTTEP

### Members

- **Chris Mijnsen**, Arrow Energy
- **Keyu Liu**, China University of Petroleum (Qingdao)
- **Ian A. Russell**, ExxonMobil Corp.
- **Seema Singh**, Panjab U., Chandigarh
- **Mark Tingay**, PETRONAS
- **Satyabrata Nayak**, PETRONAS Carigali Sdn. Bhd.
- **Ching Tu**, Schlumberger, WesternGeco
- **Kumar Satyam Das**, Shell
- **Friso Veenstra**, TNO
- **Zied Ouled Ameer**, Tatweer Petroleum
- **Gwenael Guerin**, Total E&P Asia Pacific

## European Association of Geoscientists and Engineers (EAGE) Subcommittee

### Co-Chairs

- **Eric Andersen**, Chief Geophysicist, PETRONAS
- **Sriyane de Silva**, Exploration Business Development Manager, Shell Malaysia E&P

### Members

- **Henk Rebel**, AEE Technologies Inc., China
- **Assel Salimova**, Baker Hughes Company
- **Tran Pham**, Baker Hughes Company
- **Eddy Kamaruddin**, Beicip-Franlab Asia
- **Haydn Ian Furlonge**, Brunei National Petroleum Company Sdn. Bhd.
- **Shivaji Maitra**, CGG
- **Jesse Alexander Baker**, ConocoPhillips
- **Muslim Rohaizak**, ConocoPhillips
- **Bernard Montaron**, Framwork SAS
- **Alan Morrison**, Geolog International B.V.
- **Junichi Takekawa**, Kyoto U.
- **Sanjeev Rajput**, PETRONAS
- **Phathompat Boonyasaknanon**, PTTEP
- **Mohd Abd Rasheed Bin Mohd Abd Rahman**, Repsol Oil & Gas Malaysia Ltd.
- **Eduard Kosa**, Shell
- **Abdul Hadi Abdul Rahman**, U. Teknologi PETRONAS
- **Ili Afifuddin**, Westwood Global Energy Group
- **Manish Agarwal**, Woodside
- **Scott Gagen**, Woodside Energy Ltd.

# Conference Programme Committee



## Society of Exploration Geophysicists (SEG) Subcommittee

### Co-Chairs

- **Sandeep Kumar Chandola**, Custodian & Head (Capability), Technical Assurance and Capability, PETRONAS Exploration
- **Edward Hager**, Area Geophysicist, Polarcus

### Members

- **Liu Yongxia**, CGG
- **Rakesh Bharat Doshi**, CGG
- **Sinem Yavuz**, Curtin U.
- **Sarvagya Parashar**, Halliburton
- **Koji Kashihara**, JAPEx
- **Hitoshi Mikada**, Kyoto U.
- **Pauline Wong**, Mubadala Petroleum
- **Maziah Adura Bt A Majid**, PETRONAS Carigali Sdn. Bhd.
- **Mazin Farouki**, PGS
- **Samir Abdelmoaty**, Rockhopper Egypt
- **Aaron Tan Qun Jie**, Sabah Shell Petroleum Company Ltd.
- **Chrissie Sylvester Lojikim**, Sarawak Shell Bhd.
- **Suyang Chen**, Schlumberger
- **Stephan Gelinsky**, Shell International E&P
- **Subodh Notiyal**, TGS
- **Artem Sazykin**, WesternGeco

## Society of Petroleum Engineers (SPE) Subcommittee

### Co-Chairs

- **Anwar Husen b Akbar Ali**, Head, Petroleum Engineering Department, PETRONAS Carigali Sdn. Bhd.
- **Henricus Herwin**, Vice President, Development & Production - Technical Excellence & Coordination, PT Pertamina Hulu Energi

### Members

- **Ahmed Abou-Sayed**, Advantek International
- **Manabesh Chowdhury**, Antelopus Energy Pvt. Ltd.
- **Kevin Lay**, AWT International
- **Emad Gharaibah**, Baker Hughes Company
- **Guoxiang Liu**, Baker Hughes Company
- **See Hong Ong**, Baker Hughes Company
- **John Li**, BASF (China) Company Ltd.
- **Grandika Septia Primadani**, Beicip-Franlab Asia
- **Sachin Kumar Sharma**, Boston Consulting Group (BCG)
- **Kyle Kimmitt**, Brunei Shell Petroleum
- **Dan O'Reilly**, Chevron Australia Pty Ltd
- **Hangyu Li**, China U. of Petroleum
- **Wang Chao**, CGG
- **Thotsaphon Chaianansutcharit (Paul)**, Chevron Thailand Exploration & Production
- **Cao Gang**, RIPED, CNPC
- **Nik Saiful Nizam B Nik Abdul Rashid**, ConocoPhillips Asia Pacific Sdn. Bhd.
- **Mofazzal Hossain**, Curtin U.
- **Xingjin Wang**, Denison Gas
- **Dipak Mandal**, Dialog Group Berhad
- **Mark Rayfield**, Energean Greece
- **Naynesh C. Patel**, ExxonMobil Cepu Ltd.
- **Thomas Ng**, Franks International
- **Jason Kok Chin Hwa**, GRIT Energy Sdn. Bhd.
- **Aaron Yang Wang**, Halliburton
- **Aizal Baharuddin**, PETRONAS
- **Avinash Kishore Kumar**, PETRONAS
- **Ayham Ashqar**, PETRONAS
- **Bahrom Madon**, PETRONAS
- **Khairul Azhar Abu Bakar**, PETRONAS
- **Kuah Yong Cheun**, PETRONAS
- **Lou Khee Fang**, PETRONAS
- **Luky Hendraningrat**, PETRONAS
- **Muhammad Hatta Mhd Yusof**, PETRONAS
- **Nor Idah Kechut**, PETRONAS
- **Rahim Masoudi**, PETRONAS
- **Shahril Ridzaudin bin Mohd Mokhtar**, PETRONAS
- **Siti Normaizan Hassan**, PETRONAS
- **Siti Rodhiah Bt Fazilah**, PETRONAS
- **Sulaiman Sidek**, PETRONAS
- **Kuhanesapathy Thavaras Pathy**, PETRONAS Carigali Sdn. Bhd.
- **Mior Yusni Bin Ahmad Fuad**, PETRONAS Carigali Sdn. Bhd.
- **Rahimi Bin Ab Wahab**, PETRONAS Carigali Sdn. Bhd.
- **Siti Najmi Farhan Bt Zulkipli**, PETRONAS Carigali Sdn. Bhd.
- **Ivy Chai Ching Hsia**, PETRONAS Research Sdn. Bhd.
- **Rachmat Hidajat**, PT. Pertamina EP Cepu
- **Sunisa Watcharasing**, PTTEP
- **Nicolas Gaillard**, Poweltec
- **Yvonne Tan Yeen Voon**, Repsol Oil & Gas Malaysia Ltd.

# Conference Programme Committee

## Society of Petroleum Engineers (SPE) Subcommittee

### Members

- **Farrukh Hamza**, Halliburton
- **Kalyan Saikia**, Halliburton
- **Dinesh Cheryan**, Hess Exploration and Production Malaysia B.V.
- **Eric Delamaide**, IFP Technologies (Canada) Inc.
- **Chang Chooi Foong**, Independent
- **Syed Muhammad Siddik**, Independent
- **Tomaso Ceccarelli**, Independent
- **Wan Nawawi Wan Mohamad**, Independent
- **Takaaki Uetani**, INPEX
- **Shidong Li**, Inst. of Chemical and Engineering Sciences, A\*STAR
- **Aravindh Kaniappan**, Intertek
- **Ibrahim S. Abou-Sayed**, i-Stimulation Solutions, Inc.
- **Majed Ayed AlSuwailem**, King Abdullah Petroleum Studies and Research Center (KAPSARC)
- **Naif B. Alqahtani**, King Abdulaziz City for Science and Technology (KACST)
- **C. Mark Pearson**, Liberty Resources
- **Rosdi Baharim**, MISC Bhd.
- **Guillaume Plessis**, NOV (Grant Prideco)
- **Jan Paul**, OMV
- **Prady Chaliha**, Osaka Gas Australia
- **Jan Bon**, Petrolab Australia Pty. Ltd.
- **Le Anh Tuan**, Rosneft Vietnam B.V.
- **Sau-Wai Wong**, Rybkarock
- **Euver Enrique Naranjo Penaloza**, Santos Ltd.
- **Bong Khin-Fah**, Sarawak Shell Bhd.
- **Chow Mun Hon**, Sarawak Shell Bhd.
- **Guodong Zhan (David)**, Saudi Aramco
- **Alexey Ruzhnikov**, Schlumberger
- **Ali Didanloo**, Schlumberger
- **Jennie Chin Pui Ling**, Schlumberger
- **MaoKang Lu**, Schlumberger
- **Samie Lee**, Schlumberger
- **Shripad Biniwale**, Schlumberger
- **Paul Miller**, Schlumberger, WesternGeco
- **John (Jonggeun) Choe**, Seoul National U.
- **Pang Wei**, Sinopec Research Inst. of Petroleum Engineering
- **Francesco Patonico**, Subsea7
- **Salim Taoutaou**, Taoutaou Consulting LLC
- **Fong Nyuk Loon**, TechnipFMC
- **A. Dan Hill**, Texas A&M U.
- **Ding Zhu**, Texas A&M U.
- **Emiliano Piovesanel**, Total
- **Mohd Amro**, TU Bergakademie Freiberg / Germany
- **Usman Ahmed**, WellDog

## Challenged Gas Subcommittee

### Co-Chairs

- **Mohd Khaidhir Bin Abdul Hamid**, Head of Delivery, PETRONAS
- **Danny Lee**, Subsurface Manager, Mubadala Petroleum

### Members

- **Ahmad Garwan**, Halliburton
- **Liew Wei Long**, PETRONAS
- **Sharifah Shahira Wafa Bt Syed Khairulmunir Wafa**, PETRONAS Carigali Sdn. Bhd.

## I.R. 4.0 Subcommittee

### Co-Chairs

- **Anak Bt Karim**, Head, Digital Ecosystem, Centre of Excellence, PETRONAS

### Members

- **Muhammad Shafiq Shahrul Amar**, Independent
- **Faizan Akasyah Bin Ghazali**, PETRONAS Carigali Sdn. Bhd.
- **Nur Qistina Bt Salim**, PETRONAS Carigali Sdn. Bhd.





# Partnerships are key to Mubadala Petroleum

Mubadala Petroleum is a leading international, oil and gas exploration and production company, headquartered in Abu Dhabi and recognized globally as a responsible operator and valued partner.

Our active partnerships approach allows us to further build our expertise through sharing best practices and driving efficiencies, which is key to our success.

We are proud to have been Co-Host of IPTC 2021. Thank you for visiting us at our virtual exhibition booth.

Follow our exciting journey at  
[mubadalapetroleum.com](https://mubadalapetroleum.com)



# Opening Ceremony

This session marked the opening of the inaugural virtual IPTC with a ministerial address by The Honourable Dato' Sri Mustapa bin Mohamed, Minister in the Prime Minister's Department (Economy), exclusive keynote remarks by industry leaders and the announcement of the 13th IPTC Excellence in Project Integration Award recipient.



Malaysia remains committed to promote and preserve an attractive investment climate in our upstream sector. We continue to welcome investments, strategic collaborations and partnerships to further unlock value potential in Malaysia's upstream sector... The Malaysian government, under the purview of the Economic Planning Unit, is in the final stage of formulating the country's National Energy Policy. This document together with specific action plans will be launched in the second half of 2021.



**The Honourable  
Dato' Sri Mustapa bin Mohamed**  
Minister in the Prime Minister's Department (Economy)  
Malaysia



Our conviction is that industry gatherings such as this one must continue. Platforms such as IPTC are critical as they allow us to stay connected as a fraternity... The level of commitment and support we see here is also a strong signal that resilience continues to be the defining attribute of this industry, despite many being severely hit by the turbulence of 2020.

Those present here collectively have the capacity and the capability to turn all the technical prowess and technological ingenuity that have long been defining features of this industry, towards decarbonisation. We should explore this, not because we are ceding to the investment and policy changes that are happening as we speak, but because we are now presented with the opportunity to take the lead in providing solutions for carbon emissions.



**Tengku Muhammad Taufik**  
President &  
Group Chief Executive Officer  
**PETRONAS**



The oil and gas industry is an essential component of life as we provide energy, create opportunities, and help develop communities where we operate. At Mubadala Petroleum, our goal is to continue doing this responsibly, affordably and for the long term. Despite the current challenges, our prospects are promising. We have the right strategy to chart a successful path forward; one that supports the journey of energy transition, while playing a key role in meeting energy needs in a safe and sustainable way.



**Mansoor Mohamed Al Hamed**  
Chief Executive Officer  
**Mubadala Petroleum**

# Opening Ceremony



To continue to be relevant and generate value by delivering energy that can sustain the world across the transition while meeting stakeholder expectations, the oil and gas industry must work differently. In Schlumberger, we believe many of the key aspects of how our industry can, and must change, hinge on collaboration.



**Olivier Le Peuch**  
Chief Executive Officer  
Schlumberger



The issues facing us in the upstream industry are getting more and more complex. Which requires not only the most advanced technologies, but also the most up-to-date technologies. The solutions to these efforts are proving to be more and more challenging, which requires a multi-disciplinary approach. IPTC provides a perfect platform for presentations, discussion, and exchange of ideas on these technologies and on these integrated solutions.



**Mahmoud M. Abdulbaqi**  
Chairman  
IPTC Board of Directors



Click image to view video

# IPTC Excellence in Project Integration Award

As the upstream oil and gas industry moves towards increasingly complex and capital intensive projects, conventional practices must be challenged. It is crucial that lessons are shared from successfully integrated projects that embody excellence. The IPTC committees and sponsoring societies believe in highlighting projects above US\$500 million that have demonstrated distinction throughout the entire exploration to production value chain.

The IPTC Excellence in Project Integration Award is given to a project that adds value to the industry and exemplifies strong teamwork, solid geoscience knowledge, reservoir and production engineering acumen, determined and watchful construction, and outstanding facilities engineering practices. Equally important, successful projects require a pervasive culture of HSE, a focus on sustainability, and a positive impact on the country, the region and the world.

## 13<sup>th</sup> IPTC Excellence in Project Integration Award Recipient:



### ICHTHYS LNG by INPEX

Ichthys LNG is ranked among the most significant oil and gas projects in the world. The energy development is a joint venture between INPEX group companies (the Operator), major partner Total, and the Australian subsidiaries of CPC Corporation Taiwan, Tokyo Gas, Osaka Gas, Kansai Electric Power, JERA and Toho Gas.

A Final Investment Decision for Ichthys LNG was reached in 2012 and production commenced in July 2018.

Ichthys LNG is expected to produce 8.9 million tonnes of LNG and 1.65 million tonnes of LPG per annum, along with more than 100,000 barrels of condensate per day at peak.

It is one of the few energy projects worldwide to incorporate the whole chain of development and production: subsea, offshore, pipeline and onshore. Gas and condensate from the Ichthys Field will be exported to onshore facilities for processing near Darwin via an 890-kilometre pipeline. Most condensate is directly shipped to global markets from a floating production, storage and offloading facility permanently moored near the Ichthys Field in the Browse Basin.

## 13<sup>th</sup> IPTC Excellence in Project Integration Finalists:

### Culzean by Total



### Khurais Arab Light Increment by Saudi Aramco



Learn more about the projects [here](#).





## Progressive Collaboration and Innovative Solutions: Shaping the Future of Energy

Focused on the conference theme “Progressive Collaboration and Innovative Solutions: Shaping the Future of Energy”, IPTC Insights showcased industry thought leaders sharing their perspectives on how improved partnership models, enhanced business strategies and new technologies are being utilised to future-proof the industry as it navigates the volatility, unpredictability, complexity and ambiguity, while addressing the opportunities for a lower carbon world.

“

We just did some really interesting research which looked at companies who are investing in technology and sustainability and the prediction is that they are much more likely to be the leaders of tomorrow than those companies that are not focusing on both, so technology and sustainability are really twin engines to drive growth.

”



**Julie Sweet**  
Chief Executive Officer  
**Accenture**

“

There are still many people out there that are well below the global average on all metrics. Energy access for these people is so critical, so that they can gain higher levels of education, higher income, improved living conditions, and ultimately live longer lives. The resources that we find now and in the future are such a critical part of the energy mix that will fundamentally contribute to economic growth and the advancement of living standards, not only in Asia Pacific and Africa, but across the globe.

”



**Kerry Moreland**  
Vice President  
Sub-Saharan Africa and Asia Pacific  
Exploration and New Ventures  
**ExxonMobil Upstream Business  
Development Co.**

“

Our key tenets and values revolve around honesty, open-mindedness and willingness. Those three are essential areas to embracing the energy transition, or more importantly, sustainable energy... It is the honesty to embrace that there is disruption. It is the open-mindedness to consider alternatives - what are those alternatives and what are those options that we can do effectively... And then ultimately the willingness to go execute. I think these are requirements for success in any kind of disruption.

”



**Jeff Miller**  
Chairman, President and  
Chief Executive Officer  
**Halliburton**

“

All of us need to see energy transition as an opportunity. It is here to stay and we need to figure out how to thrive in it. When I was at an E&P company, at first they saw shale as a competitor, and then after a while shale became a must-have. I'm sure with renewables it will be the same. Today, we see it as a competitor to an oil and gas company. But if we all focus on our goal to deliver energy to customers, I think we should start to see there are opportunities for all and there are ways for us to embrace it.

”



**Datuk Mohd Anuar Taib**  
Group Chief Executive Officer  
**Sapura Energy**

# IPTC Insights

## Progressive Collaboration and Innovative Solutions: Shaping the Future of Energy

“

We just did some really interesting research which looked at companies who are investing in technology and sustainability and the prediction is that they are much more likely to be the leaders of tomorrow than those companies that are not focusing on both, so technology and sustainability are really twin engines to drive growth.

”



**Nasir K. Al Naimi**  
Senior Vice President, Upstream  
**Saudi Aramco**

“

I do believe that we are setting the stage for our data not just to work for us, but to speak through us by helping us to make better decisions. The big shift that I see is that whereas in the past technology was a solution to a problem, in this world of digital enablement, we're actually enabling the systems and the processes that we use on an end-to-end basis.

”



**Paul Goodfellow**  
Executive Vice President,  
Deepwater  
**Shell**

“

As one of the fastest growing economies, Indonesia needs more energy to support it. The energy transition will increase the importance of renewable energy. At the same time we need to also focus on efficiently and effectively producing from existing basins to ensure Indonesia's national energy security.

”



**Dwi Soetjipto**  
Chairman  
**SKK Migas**

“

What customers are requiring are affordable energy, reliable energy and clean energy. In a lot of countries around the world, it is in that order. Clean is, of course, necessary, but it cannot be at the expense of affordability or reliability, and this is how we see the future.

”



**Arnaud Breuillac**  
President,  
Exploration & Production  
**Total**

## Leadership to Shape the Future of Energy

This session provided insights into how the industry's future leaders can employ improved partnership models, business strategies, human capital and opportunities and disruptions from technologies, to transform and shape the future.



I started out in a very power distant culture and even in Asia, the power distance is becoming smaller and smaller, and leaders need to adapt to that. In the past or in a power distant environment, all the engagements are formal. Now, you are expected to have informal engagements. As a leader you need to adapt, as this is the new generation we are managing - be it our customers or our workforce.



**Mohd Redhani Abdul Rahman**  
Head, Portfolio, Intervention and  
Transition  
**PETRONAS**



To be ready for the future, companies must focus on two areas. Firstly, digitalisation and upscaling of digital literacy is a fundamental transformation of the company. Secondly, leadership capabilities. More and more we are going to need leaders who are people managers. Companies need to facilitate the development of their leaders as coaches, as mentors and as navigators for the future.



**Cally Ting**  
Human Capital Manager, Malaysia  
**Mubadala Petroleum**



This generation wants to ensure that their work has a social meaning, a collective sense of purpose, so if you want to attract younger workers, your organisation must really showcase how you can make a difference in the world.



**Chang Qing**  
Vice President,  
Production Systems, Asia  
**Schlumberger**



# Executive Plenary and Panel Sessions

## Executive Plenary Session: Managing Transformation to Shape the Future of Energy



**Maria Sferruzza**  
Senior Vice President, Asia Pacific  
**Baker Hughes**



**Przemek Lupa**  
Head of Development &  
Investment (Asia Pacific)  
**Masdar**



**M Firouz Asnan**  
Senior Vice President  
Malaysia Petroleum Management  
**PETRONAS**



**Montri Rawanchaikul**  
President  
**PTTEP**



**Samer S. Al Ashgar**  
General Manager, Characterisation &  
Field, Development Geosciences  
**Saudi Aramco**

## Panel Session 1: Energy Transition: Balancing Accessibility, Sustainability and Affordability



**Takeshi Soda**  
Director for Oil and Natural Gas  
Division  
**Ministry of Economy, Trade and  
Industry (METI) Japan**



**Naser Al Hajri**  
Senior Vice President  
Operations - South East Asia  
**Mubadala Petroleum**



**Mazuin Ismail**  
Senior Vice President,  
Corporate Strategy  
**PETRONAS**



**Angela Wilkinson**  
Secretary General and  
Chief Executive Officer  
**World Energy Council**



**John McCreery**  
Advisory Partner  
**Bain & Company**

# Executive Plenary and Panel Sessions



## Panel Session 2: Human Capital Dynamics for the Future



**Erdal Ozkan**  
Professor of Petroleum Engineering  
**Colorado School of Mines**



**Carla Carroll**  
Regional Talent Manager,  
Eastern Hemisphere  
**Halliburton**



**M. Fahmi El Mubarak**  
Vice President, Human Capital  
Subholding Upstream  
**PT Pertamina Hulu Energi**



**Eric Young**  
Geozone Vice President - Asia  
**Weatherford**



**Farehana Hanapia**  
Vice President, Group Human  
Resources Management  
**PETRONAS**

## Panel Session 3: Navigating the Future of Gas



**Mazin Rashid Nasser Al Lamki**  
Chief Operating Officer  
**Mubadala Petroleum**



**Shamsairi Mohd Ibrahim**  
Vice President,  
LNG Marketing and Trading  
**PETRONAS**



**Natruedee Khositaphai**  
Executive Vice President, Strategy and  
Business Development Group  
**PTTEP**



**Ajay Shah**  
Vice President - Shell Energy Asia  
**Shell**



**Asheesh Sastry**  
Managing Director and Partner  
**Boston Consulting Group**



# Executive Plenary and Panel Sessions

## Panel Session 4:

### Digital Transformation: Powering the Energy Industry through Necessary Disruption



**Senthil Ramani**  
Head of AI for Growth Markets  
**Accenture**



**Aadrin Azly**  
Chief Digital Officer  
**PETRONAS**



**Trygve Randen**  
Business Line Director,  
Digital Subsurface Solutions  
**Schlumberger**



**Eric Delattre**  
EP Digital Transformation Officer  
**Total SE**



**Ahmed Ibrahim**  
Vice President, Digital APAC  
**Baker Hughes**

## Panel Session 5:

### Asia Pacific Exploration Opportunities - Are We Missing Something?



**Sophie Zurquiyah**  
Chief Executive Officer  
**CGG**



**Emeliana Rice-Oxley**  
Vice President  
Exploration Upstream  
**PETRONAS**



**Kanok Intharawijitr**  
Executive Vice President, Geosciences,  
Subsurface and Exploration Group  
**PTTEP**



**Jaffee Suardin**  
Deputy of Planning  
**SKK Migas**



**Jean-Marc Rodriguez**  
Vice President Exploration Asia Pacific  
**Total SE**

# Think Proactive Intervention

Produce more with reduced cost using our complete portfolio,  
expanded operating envelopes, and leading digital capabilities.

All under ONE family.

[slb.com/well-intervention](https://slb.com/well-intervention)



# Schlumberger

# Ask the Experts

## Ask the Experts 1

**Geostatistical Reservoir Modeling:  
Data Analytic and Machine Learning**



**Michael J. Pyrcz**  
Associate Professor  
**The University of Texas at Austin**

**Lacustrine Shale Oil Development  
in China: Current Status and  
Strategic Outlook**



**Jin Zhijun**  
Professor  
**SINOPEC Exploration & Production  
Research Institute**

*Session Chair*



**Assel Salimova**  
Wireline Services Director  
Asia Pacific Oilfield Services  
**Baker Hughes**

## Ask the Experts 2

**High Pressure, High Temperature  
(HPHT) South East Asia**



**Brent Couzens-Schultz**  
Geohazards and Pore Pressure Manager  
**Shell International Exploration and  
Production**

**Oil and Gas Production  
Technologies of the 21st Century;  
Where We Are Headed and  
What We Need**



**Robert Pearson**  
SPE Technical Director  
Production and Facilities  
**Glynn Resources**

*Session Chair*



**Sriyanee De Silva**  
Exploration Business  
Development Manager  
**Shell Malaysia E&P**

## Ask the Experts 3

**Rise of Machines: Time to  
Change the Petroleum  
Engineering Curriculum**



**Robello Samuel**  
Chief Technical Advisor and  
Senior Fellow  
**Halliburton**

**Machine Learning: From a  
Shopping List to a Change in  
Mindset**



**Francois Baillard**  
Chief Technology Officer  
**Iraya Energies**

*Session Chair*



**Sunisa Watcharasing**  
Engineer, Technology and  
Innovation Department  
**PTTEP**



# Technical and Knowledge Sharing ePoster Sessions

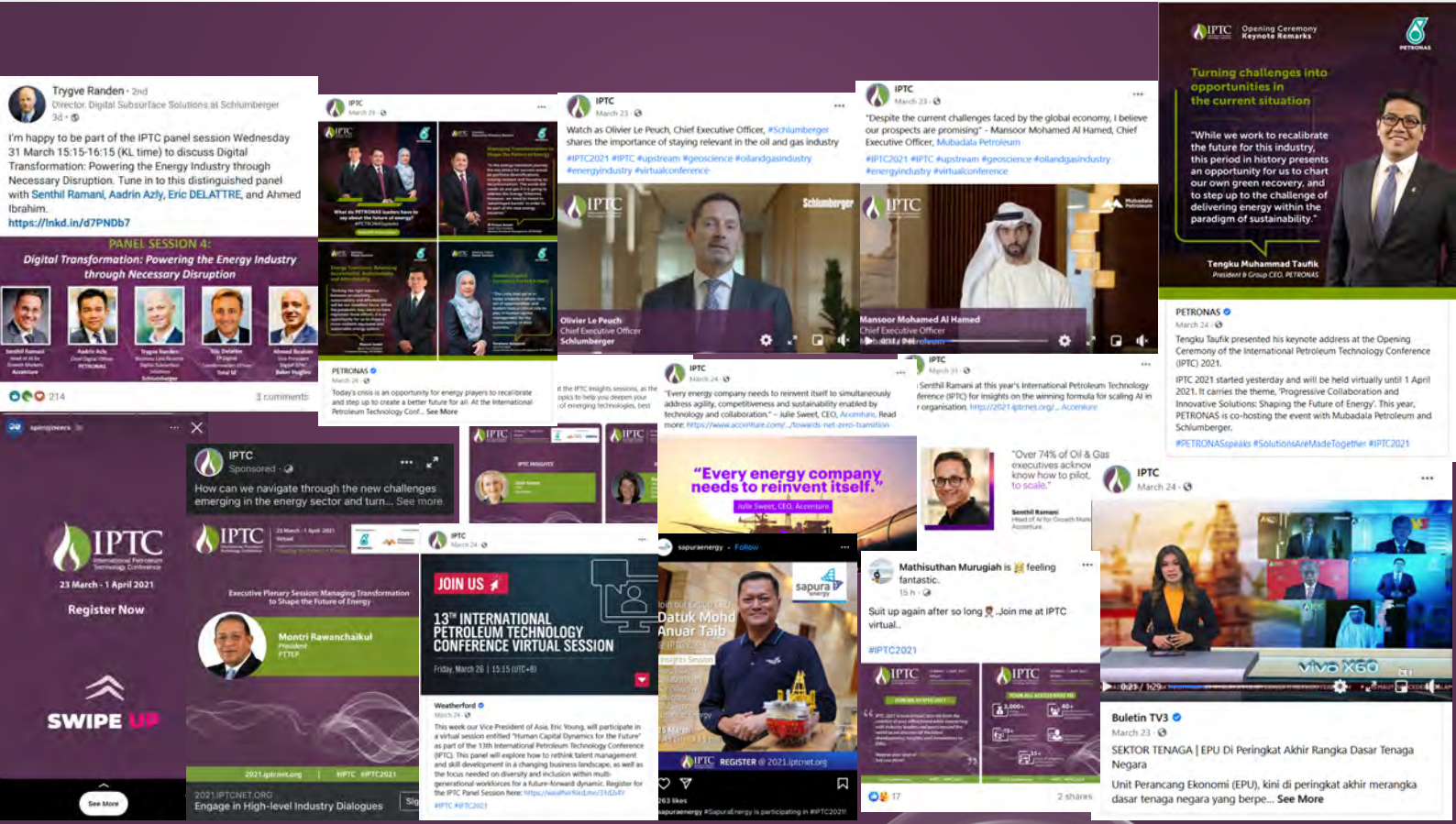
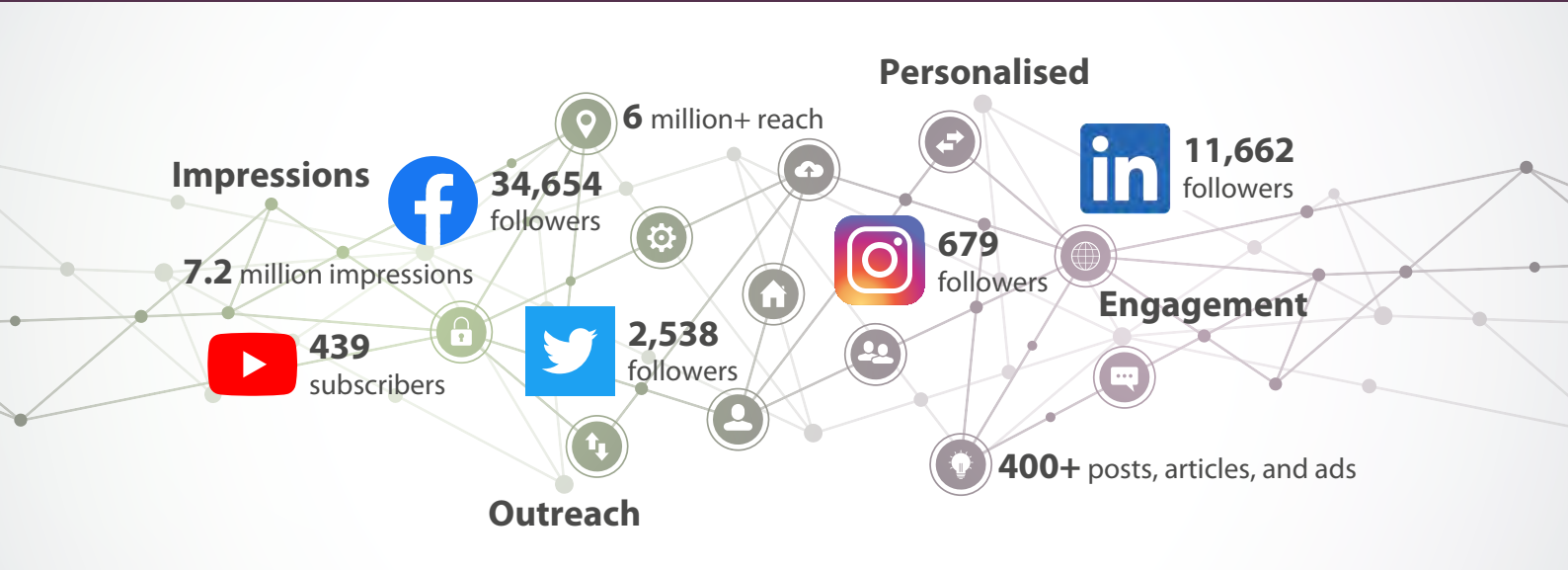


More than 300 technical presentations were presented across a vast variety of technical topics at the Technical and ePoster Sessions.

Technical Sessions include:

- Addressing Challenges in Unconventionals
- Advances in Reservoir Modelling
- Artificial Lift
- Attribute Analysis
- Big Data and Analytics
- Carbon Capture and Storage (CCS)
- Completion Engineering Design
- Completion Technology Advancement
- Data Driven Applications in Geoscience
- Development - Stimulation
- Digital Transformation and Innovation
- Drilling and Completions - Case Studies
- Drilling Completions Fluids and Cementing
- Drilling Engineering Design
- Drilling Technology Advancement
- Driving Commercial Success in Oil and Gas Development
- Enhancement in Facilities Performance
- EOR Success in a Challenging Economy
- EOR/CO<sub>2</sub>/Sour Gas
- Flow Assurance
- Future of Work and Digital Technology
- Geomechanics / Geohazards
- Innovative Solutions in Reservoir Engineering
- Innovative Solutions in Unconventional Development
- Innovative Technology Gas Delivery Solutions
- Integrated Geoscience Applications
- Integrated Reservoir Management Extending Asset Life
- Mature Field Development, Production and Abandonment
- New Frontier in Facilities Management
- Next Generation Technology for Oil and Gas
- Petroleum Geology
- Petrophysics and Reservoir Engineering
- Production Operations
- Production Optimisation and Asset Performance
- Reimagining Sustainable Development
- Reservoir Modelling
- Sand Management and Solutions
- Seismic Imaging
- Seismic Modelling/QI
- Technological Advancement towards High Efficiency and Optimisation
- Towards Cleaner and Sustainable Energy: Green House Gas Management/Low Contaminants
- Well Construction Automation
- Well Construction Data Analytics
- Well Integrity and Well Abandonment

100





exclusive host



أرامكو السعودية  
saudi aramco



fuelling global recovery  
through sustainable energy



## Call for Papers Open

Deadline: 30 June 2021



Paper submission online:  
[go.iptcnet.org/papers22](https://go.iptcnet.org/papers22)

sponsoring societies



Kingdom of Saudi Arabia

# 2022 reconnect

21–23 February | Dhahran Expo