



# OFFSHORE TECHNOLOGY CONFERENCE ASIA

2 - 6 November 2020  
Virtual

## **Excellence in Asia:**

Creating a Sustainable  
Energy Equation - The Next 50 years

Post Event Report

## PRINCIPAL SPONSORS



# OTC ORGANISATIONS

The Offshore Technology Conference (OTC) events around the globe, including OTC Asia, are brought to you by 13 sponsoring non-profit academic, scientific and professional organisations dedicated to the advancement and diffusion of scientific and technological knowledge of offshore resources and related environmental matters.

Income from this event is invested back into the sponsoring organisations' programmes that will provide opportunities for industry professionals to enhance their professional and technical competence, and to promote education in areas to continue to help advance the offshore energy industry.

## SPONSORING ORGANISATIONS



American Association of  
Petroleum Geologists



American Institute of  
Chemical Engineers



American Institute of  
Mining, Metallurgical,  
and Petroleum Engineers



American Society of  
Civil Engineers



American Society of  
Mechanical Engineers



Institute of Electrical and Electronics Engineers,  
Oceanic and Engineering Society



Marine Technology Society



Society of Exploration  
Geophysicists



Society for Mining,  
Metallurgy & Exploration



Society of Naval Architects  
and Marine Engineers



Society of  
Petroleum Engineers



The Minerals, Metals &  
Materials Society

## REGIONAL SPONSORING ORGANISATION



Brazilian Petroleum,  
Gas & Biofuels Institute

## ENDORISING ORGANISATIONS



International Association  
of Drilling Contractors



Petroleum Equipment  
& Suppliers Association

# THANK YOU TO OUR SPONSORS

## PRINCIPAL SPONSORS



## PLATINUM SPONSORS



Wellness Break  
Sponsor

Networking & ePoster  
Lounge Sponsor



## GENERAL SPONSORS



Gold Sponsor



Gold Sponsor



Gold Sponsor



Gold Sponsor



Gold Sponsor



Gold Sponsor



Conference Bag  
Sponsor



Silver Sponsor



Silver Sponsor



Silver Sponsor



Student Registration  
Sponsor

### Asia's Premier Offshore Energy Event

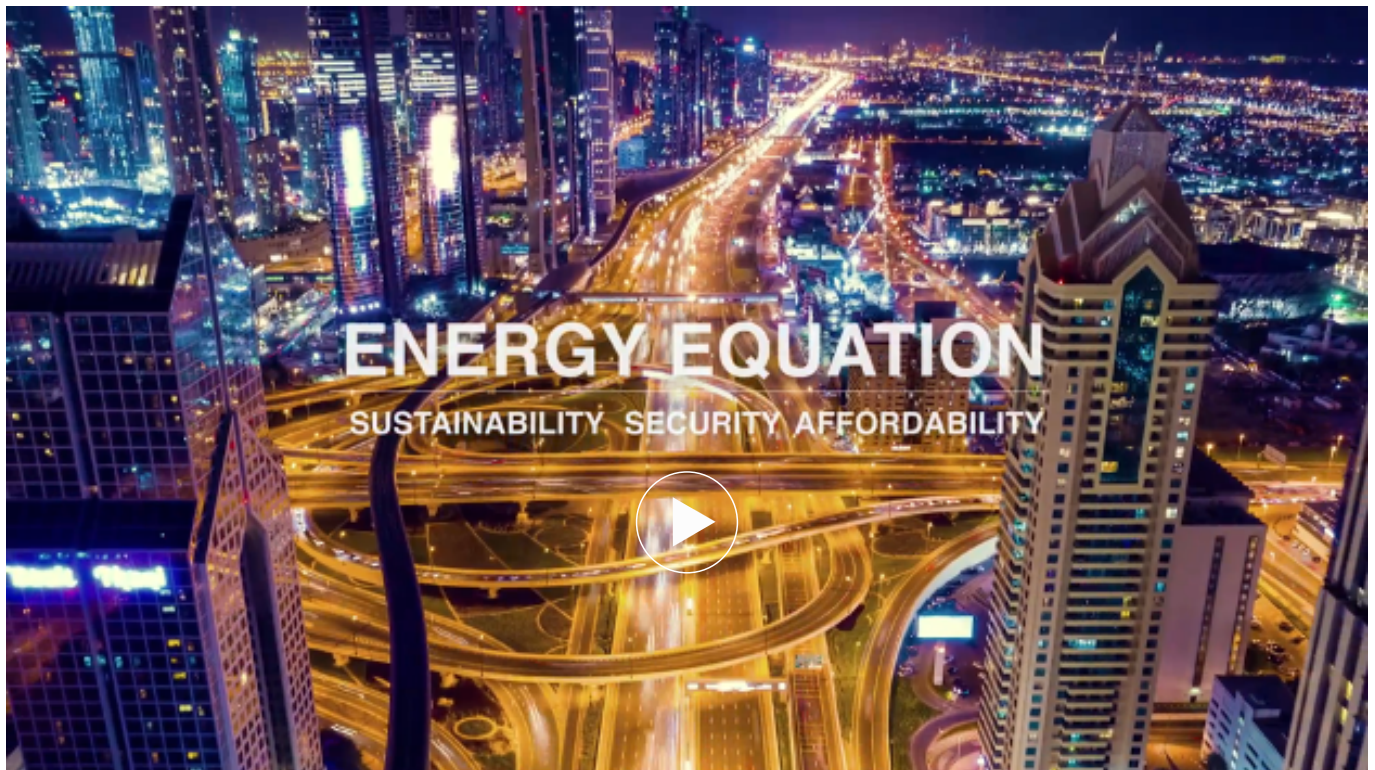
Founded in 1969, the Offshore Technology Conference (OTC) organises the world's foremost events for the development of offshore resources in the fields of drilling, exploration, production and environmental protection. The flagship OTC is held annually in Houston, Texas, U.S.A.

The first OTC Asia was held in 2014. OTC Asia's vision and goal are to fulfil OTC's mission to promote and further the advance of scientific and technical knowledge of offshore resources and environmental matters.

OTC Asia aims to:

- Meet the demand for technical information to support the growth of the offshore oil and gas industry in Asia.
- Provide opportunities for industry professionals and their employers to share their applied technologies and best practices with other producing areas in the world.
- Create opportunities to institute and strengthen intersociety collaboration and cooperation with member societies based in Asia.

OTC Asia 2020 was held virtually to provide the industry a platform for continued knowledge-sharing and professional development, and to preserve the significant work of the programme committee and authors who had prepared for the in-person event originally planned for March 2020.





## ABOUT OTC ASIA

### OTC Asia 2020 in Numbers



**3,050**  
Unique Attendees



**775**  
Participating Organisations



**42**  
Sponsors and Exhibitors



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



**56**  
Countries Represented



**20+** Hours of High-Level  
Industry Dialogues

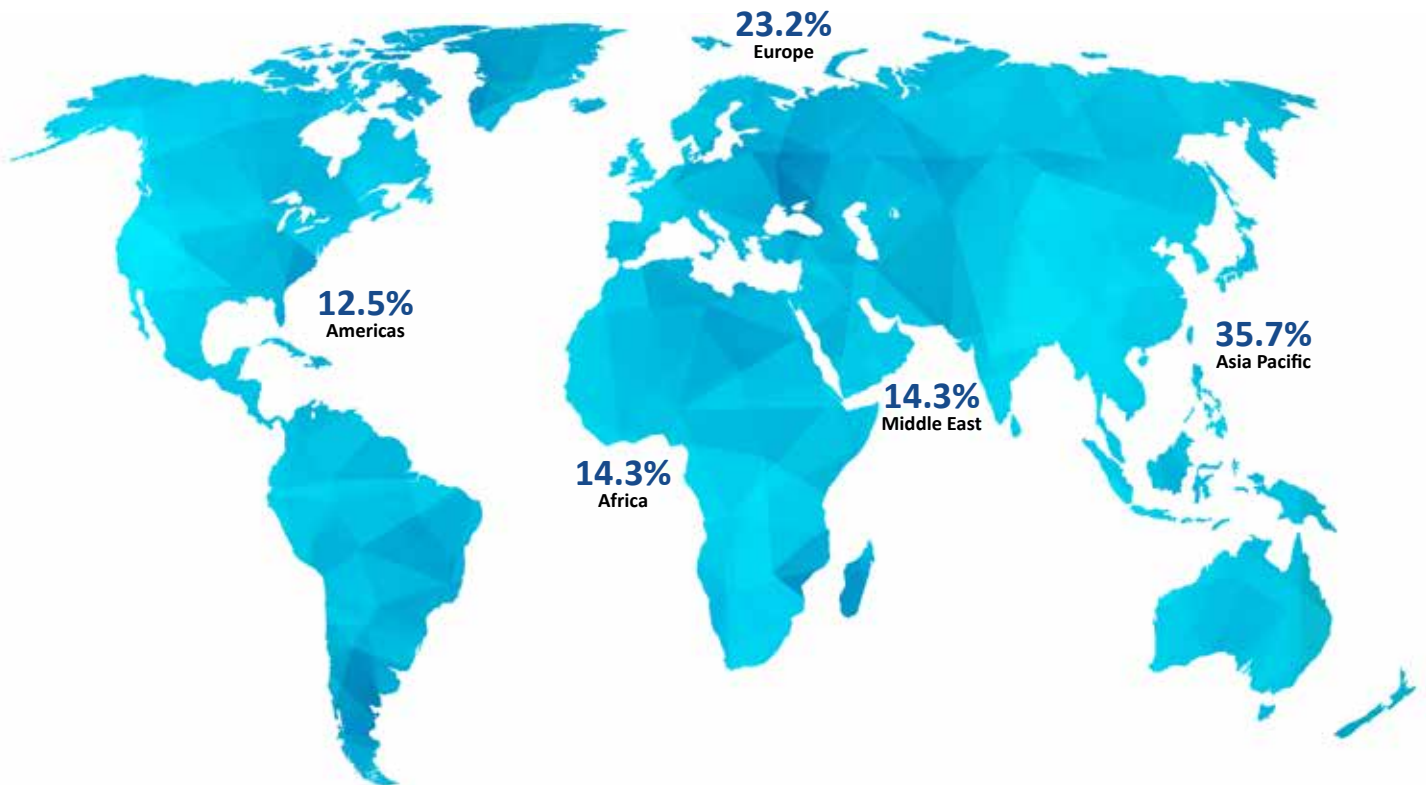


**35+** Hours of Networking and  
Business Opportunities



**43**  
NOCs and IOCs

### Attendance by Region



### Top 10 Countries



Malaysia



Thailand



Singapore



India



China



United States



Australia



Indonesia



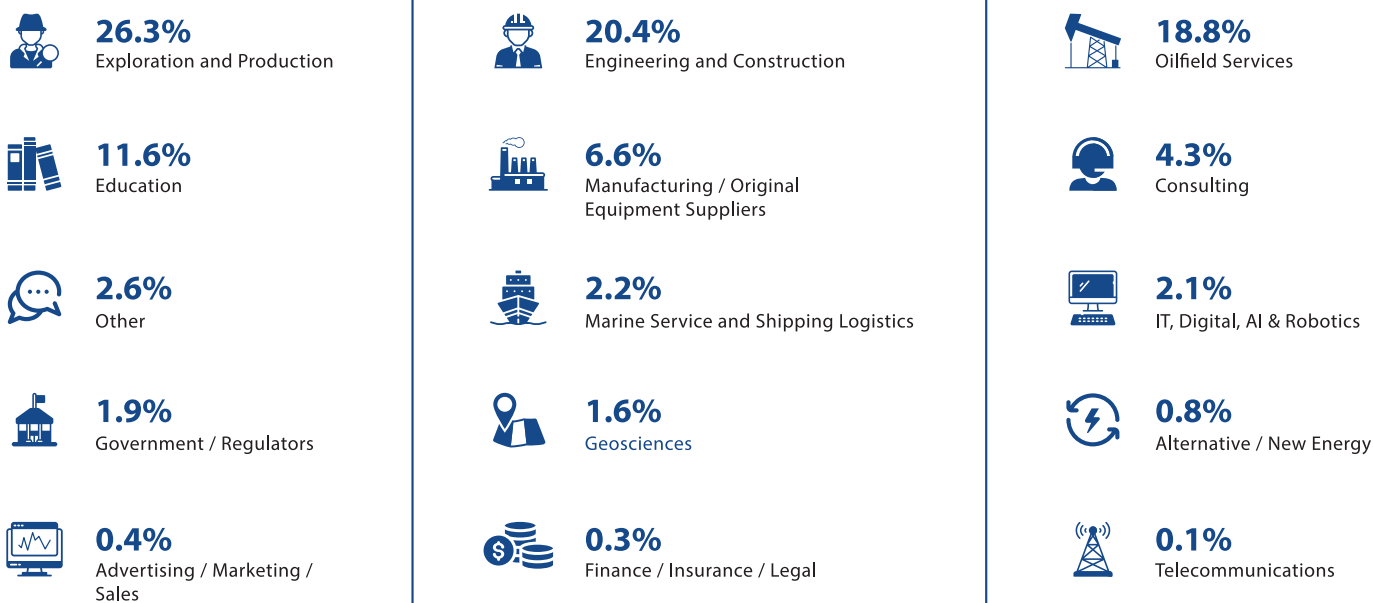
United Arab  
Emirates



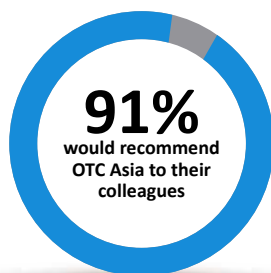
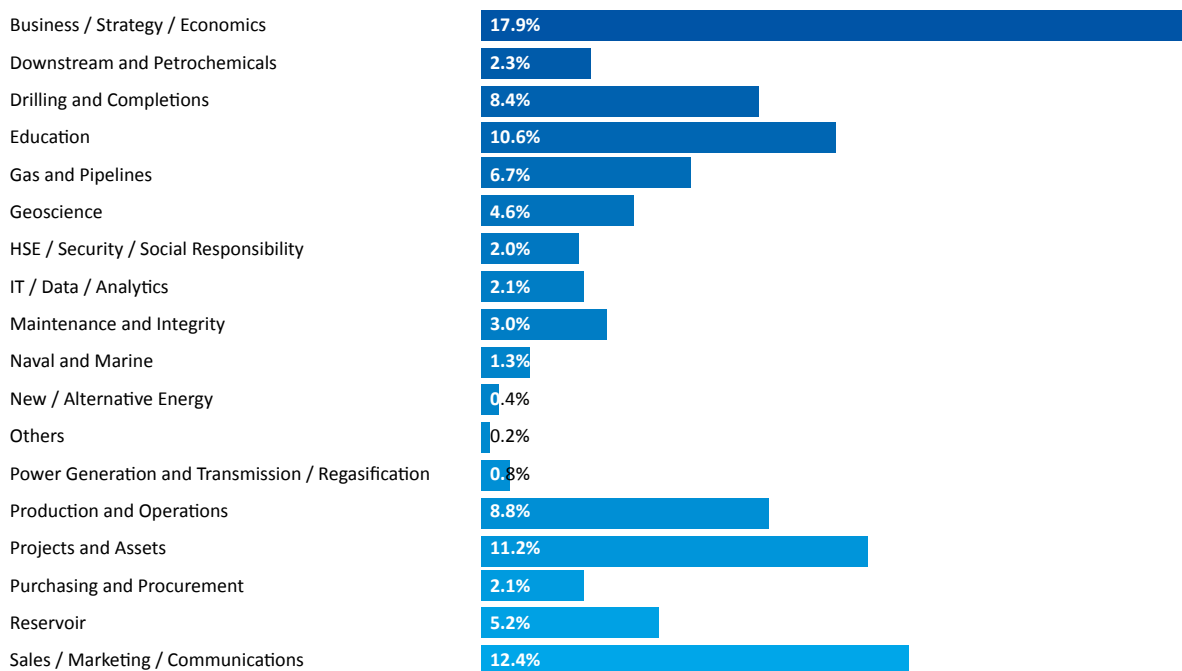
United Kingdom

# ABOUT OTC ASIA

## Attendance by Primary Business



## Attendance by Job Function



## ABOUT OTC ASIA

### Conference



**1,839**  
Conference Delegates



**77**  
Conference Sessions



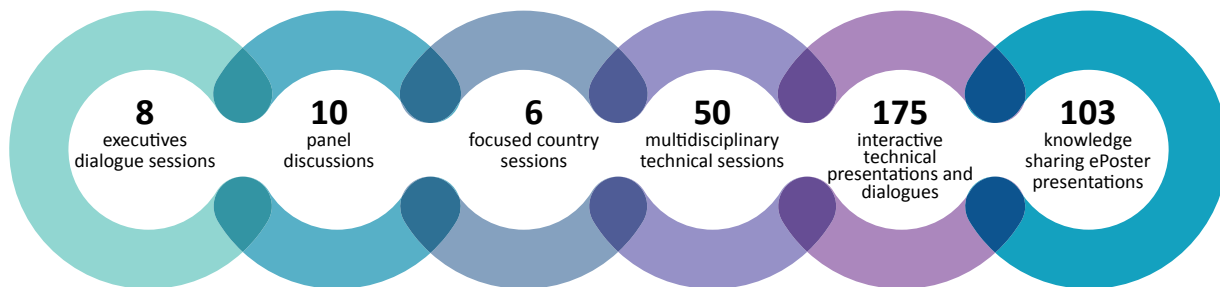
**382**  
Speakers



**277**  
Technical Presentations



**133**  
Presenting Organisations



### Exhibition



**37**  
Exhibitors



**18**  
Sponsors

### Recognition Programmes



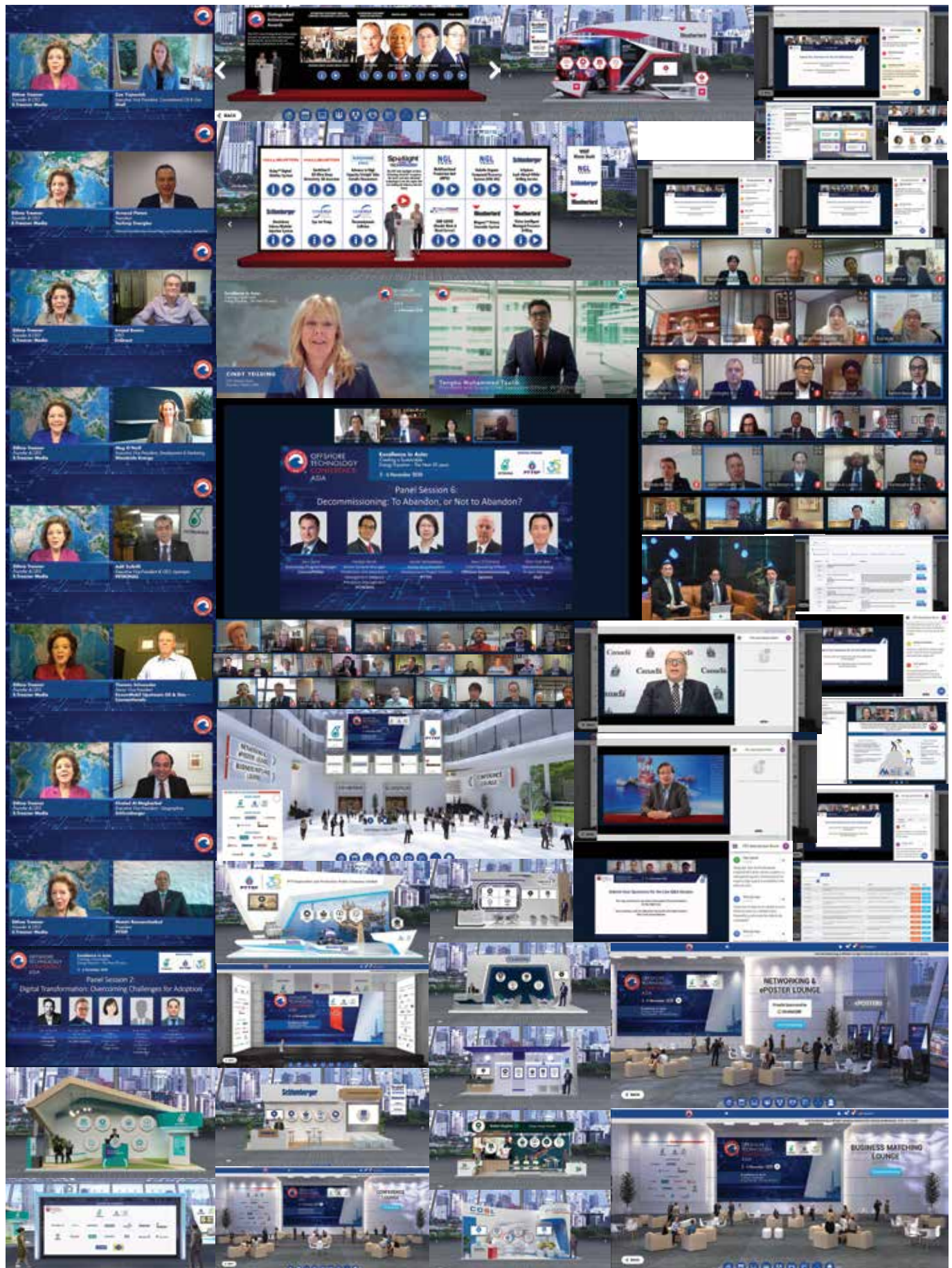
**Distinguished  
Achievement  
Awards**

**Spotlight<sup>SM</sup>**  
on new  
**TECHNOLOGY**





# OTC ASIA 2020 IN PHOTOS





# OTC BOARD OF DIRECTORS

## OTC Board of Directors

The Board of Directors is responsible for the operational stewardship of the event, to ensure that OTC's mission is upheld.

Members of the OTC Board are appointed for four-year terms by their respective society or organisation. The OTC Board includes 14 representatives, 12 from OTC's sponsoring organisations and two from OTC's endorsing organisations. The two principal officers, the Chairman and the Vice Chairman, are elected for two-year terms by the Board during their annual meeting.

### Chair



Cindy Yeilding  
American Association of  
Petroleum Geologists

### Vice Chair

Paul Jones, **Society of Petroleum Engineers**

### Members

Lirio Quintero, **American Institute of Chemical Engineers**  
Brian Miller, **American Society of Civil Engineers**  
Doreen Chin, **American Society of Mechanical Engineers**  
Jerry Carroll, **Institute of Electrical and Electronics Engineers, Oceanic Engineering Society**  
Sandeep Khurana, **Marine Technology Society**  
Alex Martinez, **Society of Exploration Geophysicists**  
Dan McConnell, **Society of Mining, Metallurgy and Exploration**  
Steve Leverette, **Society of Naval Architects and Marine Engineers**  
Greg Kusinski, **The Minerals, Metals and Materials Society**  
Carlos Mastrangelo, **Brazilian Petroleum, Gas and Biofuels Institute**  
Robert Eifler, **International Association of Drilling Contractors**  
Galen Cobb, **Petroleum Equipment & Services Association**

# COMMITTEES

## Oversight Committee

The Oversight Committee consists of representatives from OTC's twelve sponsoring organisation. In addition to reporting to the OTC Board of Directors and ensuring the OTC brand is maintained throughout the planning and execution of the event, the Oversight Committee is also responsible for reviewing and assessing nominations and applications for the Distinguished Achievement Awards, and Spotlight on New Technology Awards.

### Chair



Neil Kavanagh  
Chief Scientist  
Woodside Energy

### Members

Carlos Mastrangelo, **B-in Partners**  
Malcolm Lewis Heron, **Institute of Electrical and Electronics Engineers, Oceanic Engineering Society**  
Greg Beckstrom, **Independent**  
Adriaan Tange, **Independent**  
Charles Knobloch, **Knobloch & Trip**  
John Halkyard, **Ocean Minerals LLC**  
AJ Jain, **Sapura Energy**  
Arnis Judzis, **University of Utah**  
Doreen Chin, **Yunka Energy**

# COMMITTEES

## Executive Programme Committee

The Executive Programme Committee consists of senior executives from relevant stakeholders in the Asia Pacific region from national and international operators, service companies and government agencies. The Executive Programme Committee is responsible for developing the executive dialogue, panel and country sessions for the conference.

### Chair



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

### Vice Chair



**Chayong Borisuitsawat**  
Executive Vice President  
Engineering and Development Group  
PTTEP

### Vice Chair



**Richard Kho**  
Managing Director  
Global Solutions, Malaysia  
Shell

### Members

- Saoud Mubarak Almehairbi, Senior Vice President, Umm Lulu, SARB, SU Business Unit, Abu Dhabi National Oil Co. Offshore
- Ahmad Hatta Kamaruzzaman, Managing Director, Malaysia & Brunei, Aker Solutions Malaysia Sdn. Bhd.
- Maria Sferruzza, Senior Vice President, Asia Pacific, Baker Hughes Company
- Jeff Lehmann, Managing Director, Chevron South Asia Ltd.
- Ma Xinhua, Academician of Chinese Academy of Engineering and President, RIPED, China National Petroleum Corp.
- Chen Rongqi, Chief Technical Officer, China Offshore Oil Engineering Co., Ltd.
- David Hendicott, President, Malaysia, ConocoPhillips
- Mustafa Kamal bin Abu Bakar, Chief Operating Officer, Dialog Group Berhad
- Edward Graham, Chairman & President, ExxonMobil Exploration and Production Malaysia Inc.
- Sid Whyte, Vice President – Asia Pacific, Halliburton
- Zhao Zhiyong, Vice President, Asia, Hess
- Kenneth Pereira, Managing Director, Hibiscus Petroleum Bhd.
- Yasuhiko Kotera, Executive Officer, General Manager, Technical Strategy Dept., JX Nippon Oil & Gas Exploration Corporation
- Naser Al Hajri, Senior Vice President - Operations, Southeast Asia, Mubadala Petroleum
- Mohamad Hanif bin Hashim, Senior Vice President, Petrofac
- Carlos S. Lopez, Regional Asia & Russia Technical Senior Manager, Repsol
- Datuk Kris Azman Abdullah, Senior Vice President, Special Projects, Sapura Energy Berhad
- Ali A. Al-Meshari, Manager, EXPEC Advanced Research Centre, Saudi Aramco
- Zahris Sham Abu Musa, Global Account Director – PETRONAS, Schlumberger
- Valentina Gabriel, Senior Vice President, Asia Pacific Business Unit, Technip Energies, TechnipFMC
- Anne-Sophie Vervial, Vice President, Country Delegate Brunei, China, Malaysia, Thailand, Vietnam, Cambodia, Philippines, Total E&P Asia Pacific
- Eric Young, Vice President - Asia, Weatherford

## MALAYSIA TASK FORCE

The Malaysia Task Force consists of representatives from relevant stakeholders in Malaysia, with the goal of working together to manage Malaysian interests, in order to ensure the event meets the needs of the local industry.

### Chair



**Hazli Sham Kassim**  
Chief Strategic Liaison Officer  
PETRONAS  
and President  
Malaysian Gas Association

### Vice Chair



**Sharifah Zaida Nurlisha**  
Chief Operating Officer  
MMC Oil & Gas Engineering Sdn. Bhd.  
and President  
Malaysian Oil and Gas Services Council

### Members

- Malaysia Gas Association
- Malaysia External Trade Development Corp.
- Malaysian Investment Development Authority
- Malaysia Oil & Gas Services Council
- Malaysia Petroleum Resources Council
- Malaysia Women in Energy

## OPENING CEREMONY



**YM Tengku Muhammad Taufik**  
President & Group CEO  
PETRONAS



**Cindy Yeilding**  
Chair  
OTC Board



## EXECUTIVE DIALOGUE SESSIONS

### Creating a Sustainable Future – The Next 50 Years

The energy sector has witnessed increased application of new technologies, formed new collaborations, and enhanced business models to remain relevant and resilient in a dynamic energy landscape. Increasingly, industry players face the challenge of balancing the “Energy Trilemma” – energy security, energy affordability and environmental sustainability. Industry thought leaders shared their perspectives on solutions to address these challenges.



**Amjad Bseisu**  
CEO  
EnQuest

“We see an exciting future...We see in the long-term value of looking at some of our assets as sinks or storage areas for carbon capture and sequestration, and turning the gas produced into hydrogen.”



**Thomas Schuessler**  
Senior Vice President, Upstream  
Oil & Gas – Conventionals  
ExxonMobil

“The long-term fundamentals of our industry are strong. Second of all, the energy landscape will be reshaped, and third, natural gas in our view will increasingly become the fuel of choice.”



**Adif Zulkifli**  
Executive Vice President and CEO, Upstream  
PETRONAS

“We’ve got to reinvent the upstream business. For PETRONAS as a group there will be some portfolio shifts. We will move away from being a traditional oil and gas company and move more investments into the new energy space.”



**Montri Rawanchaikul**  
President  
PTTEP

“The next 10, 15, 20 years will see an increased focus on achieving sustainability by going greener and cleaner. Gas will be a major part of the contribution.”



**Zoe Ujnovich**  
Executive Vice President  
Conventional Oil & Gas  
Shell

“Partnerships in this space are changing. Once it would have traditionally been with engineering firms, and now you see collaborations happening in different spaces. The collaboration with Microsoft is much more attuned to driving reductions in carbon emissions, but also leveraging more broadly the suite of technologies, such as artificial intelligence.”



**Khaled Al Mogharbel**  
Executive Vice President - Geographies  
Schlumberger

“Strategy and people are really what is going to take us to the next phase and being ready for the next 50 years of what I hope is an exciting era for the industry despite all the challenges we have... Sustainability becomes part of everything we do. It’s part of the product lifecycle.”



**Arnaud Pieton**  
President, Subsea  
Technip Energies

“Let’s not forget gas in the whole energy transition conversation. And when we think gas, we must think Asia because a lot is happening there.”



**Meg O'Neill**  
Executive Vice President  
Development & Marketing  
Woodside Energy

“As we think about the energy transition, one of the things that is very clear, is that we need to be looking at new energies that will allow us to get into lower carbon energy sources for the long-term. That underpins much of the work that we’re doing looking at hydrogen.”



## PANEL SESSIONS

Panel sessions featured business leaders and industry experts who engaged in insightful dialogues on current industry issues and shared knowledge and best practices in key areas of concern.

### Panel Session 1: New Frontiers in Gas Processing



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



**Mike Culligan**  
Manager  
LNG Technology and Licensing  
ConocoPhillips



**Zakaria Kasah**  
Vice President  
LNG Assets, Gas & New Energy Business  
PETRONAS



**Dominique Gadelle**  
Vice President  
Gas Monetization  
TechnipFMC



**Manu Van Leuvenhaege**  
Senior Project Sales Manager  
UOP Process Technologies  
Honeywell UOP



**Manikandan Narayanan**  
Director- Project Development  
TechnipFMC

### Panel Session 2: Digital Transformation: Overcoming Challenges for Adoption



**Are Tjonn Follesdal**  
Senior Vice President and Head, ix3  
AkerSolutions



**Samuel Rocher**  
CEO  
Cybernetix  
a TechnipFMC Company



**Ayaka Yamada**  
JAPAC Change and Transformation Manager  
Google Cloud



**Steve Freeman**  
Director of Artificial  
Intelligence and Machine Learning  
Schlumberger



**Torwong Chenvidyakarn**  
Chief Data Scientist  
PTTEP

### Panel Session 3: Climate Change: Are We Doing Enough?



**Jon Christopher Knudsen**  
Chief Commercial Officer  
Aker Carbon Capture



**Thirupathi Rao Narayanamoorthy**  
Head of Climate Change  
PETRONAS



**Lees Rodionov**  
Global Director Sustainability  
Schlumberger



**Julie Morgan**  
Chief Flow Assurance Engineer  
Woodside Energy

## PANEL SESSIONS

### Panel Session 4: FPSO Solutions for Oil and Gas Fields Development: What Lies Ahead



**Matthew Tremblay**  
Senior Vice President  
Global Offshore Markets  
ABS



**Danny Constantinis**  
Executive Chairman  
EM&I Group



**Jang Whan Kim**  
Chief Technical Advisor  
Genesis Oil and Gas (TechnipFMC)



**Arun Duggal**  
Director R&D  
Sofec



**Cedric Morandini**  
Offshore Business Development Director  
South Asia Zone  
Bureau Veritas



**Allan Magee**  
Professor  
National University of Singapore

### Panel Session 5: Brownfield



**John Penrose**  
Managing Director  
EnQuest Petroleum Production Malaysia Ltd



**Liu He**  
Chinese Academician of Engineering and Deputy  
Chief Engineer  
RIPED  
China National Petroleum Corp.



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



**Benjamin Choo**  
Country Manager  
Malaysia Assets  
PTTEP Sarawak Oil Limited



**Pascal Hos**  
CEO  
SEA Hibiscus Sdn. Bhd.



**Dipak Mandal**  
Reservoir Consultant



**Rajesh Trivedi**  
Production & Planning Business Owner  
South East Asia  
Schlumberger

## PANEL SESSIONS

### Panel Session 6: Decommissioning: To Abandon, or Not to Abandon?



**John Hand**  
Technology Program Manager  
ConocoPhillips



**Handan Ramli**  
Senior General Manager Production and  
Operations Management  
Malaysia Petroleum Management  
PETRONAS



**Kanita Sartwattayu**  
Senior Vice President  
Development Project Division  
PTTEP



**Kevin O'Flaherty**  
Chief Operating Officer  
Offshore Decommissioning Services



**Khor Chih Wei**  
Decommissioning Project Manager  
Shell

### Panel Session 7: Talent and Capability Development: Closing the Gap



**Stephen Remedios**  
Partner and Associate Director  
Boston Consulting Group



**Cindy Yeilding**  
Senior Vice President  
Strategic Initiatives  
BP America, Inc.



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



**Susan Howes**  
Vice President of Engineering  
Subsurface Consultants & Associates, LLC



**Sandeep K. Chondola**  
Custodian & Head (Capability)  
Technical Assurance & Capability  
PETRONAS Exploration



**Bob Shoup**  
Chief Geologist  
Subsurface Consultants & Associates, LLC



## PANEL SESSIONS

### Panel Session 8: Deepwater



**Mohd Ammar Ahmad Hanapi**  
Head Project Governance  
Resource Development & Management  
PETRONAS



**Prithipal Singh**  
General Manager, Deepwater Malaysia &  
Sabah Asset  
Shell



**Christophe Dieumegard**  
Vice President Subsea  
Projects & Asia Pacific Area  
TechnipFMC



**Artur Nunes da Silva**  
Vice President  
Deepwater Production Line  
Total



**Rahim Masoudi**  
GTA & Custodian- Reservoir Engineering  
Resource Development & Management  
MPM, Upstream Business  
PETRONAS

### Panel Session 9: Navigating a Disruptive Business Landscape



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



**Samsudin Miskon**  
Senior Vice President  
Project Delivery & Technology  
PETRONAS



**Datuk Kris Azman Abdullah**  
Senior Vice President  
Special Projects  
Sapura Energy Berhad



**Frederik Majkut**  
Marketing & Strategy Director – Asia  
Schlumberger



**John McCreery**  
Advisory Partner  
Bain & Co.

### Panel Session 10: Renewable and New Energy



**Andrea Alfani**  
Vice President  
Turbomachinery & Process Solutions, APAC  
Baker Hughes



**Patrick G. Hartley**  
Leader, CSIRO Hydrogen  
Industry Mission  
CSIRO Energy



**Felicity Underhill**  
General Manager, Future Fuels  
Origin Energy



**Jason Mariyappan**  
Head, New Energy  
PETRONAS



**Michel J. Azlir**  
Business Development Manager APAC  
SBM Offshore



**Heather Gustin**  
Independent



**Syed Malek Faisal Syed Mohamad**  
Head of Business Development  
PETRONAS New Energy

## COUNTRY SESSIONS

Country sessions provided in-depth coverage of the latest oil and gas developments in Asia and beyond. In addition to country briefings that included market outlooks, investment climate and opportunities, these sessions also highlighted industry and technological advancements in recent and on-going major projects.

Countries:



### Country Session 1: Japan



**Junya Okazaki**  
*Membrane Scientist*  
JGC Corporation



**Nagayuki Suzuki**  
*Director, Office of Offshore Development*  
Nippon Foundation



**Yoshihiro Sawada**  
*Corporate Adviser*  
*General Manager of International Affairs Dept.*  
Japan CCS Co., Ltd.



**Jiro Tanaka**  
*Associate General Manager, International Affairs Dept.*  
Japan CCS Co., Ltd.



**Keisuke Miyoshi**  
*Director, Project Team*  
CCS Group  
JOGMEC



**Atsushi Hatakeyama**  
*Senior General Manager Technical / Deputy Managing Director*  
JX Nippon Oil & Gas Exploration (Malaysia)

### Country Session 2: Australia



**Chris Clark**  
*Deputy Director General*  
Department of Jobs, Tourism, Science and Innovation



**Neil Kavanagh**  
*Chief Scientist*  
Woodside Energy Ltd



**Colin McIvor**  
*Cluster Manager*  
Subsea Innovation Cluster Australia (SICA)



**Francis Norman**  
*General Manager*  
*Innovation & Strategy*  
National Energy Resources Australia (NERA)

## COUNTRY SESSIONS

### Country Session 3: Thailand



**Wattanapong Kurovat**  
*Director General*  
Energy Policy and Planning Office  
Ministry of Energy of Thailand



**Warakorn Brahmpala**  
*Director*  
Strategy and Planning Division,  
Department of Mineral Fuels  
Ministry of Energy of Thailand



**Thanasit Vichaipairojwong**  
*Senior Vice President Corporate*  
Strategy Division  
PTTEP

### Country Session 4: Malaysia



**Akbar Md Thayoob**  
*President,*  
Malaysia Petrochemical Association (MPA)  
and Head, Strategic Planning and Ventures,  
PETRONAS Chemicals Group



**Surayu Susah**  
*Director of Chemical and Advanced*  
Material Industries Division  
Malaysian Investment Development  
Authority (MIDA)



**Hazli Sham Kassim**  
*President*  
Malaysia Gas Association (MGA)



**Sharifah Zaida Nurlisha**  
*President*  
Malaysian Oil and Gas Services Council  
(MOGSC)

### Country Session 5: China



**Chen Rongqi**  
*CTO*  
Engineering Construction Department  
CNOOC



**Hou Jianguo**  
*Chief Engineer*  
LNG, R&D Center  
CNOOC Gas and Power Group



**Bo Yonghao**  
*Deputy Director*  
Refinery and Chemical Department  
China National Oil and Gas Exploration  
and Development Company Ltd.



**Alan M. Wang**  
*Naval Architect and*  
Installation Engineer  
China Offshore Oil Engineering  
Cooperation (COOEC)



**Jeffrey Gu**  
*Assistant President*  
China Offshore Oil Engineering  
Cooperation (COOEC)



## COUNTRY SESSIONS

### Country Session 6: Canada



**Charles Reeves**  
Acting High Commissioner  
of Canada  
High Commission of Canada



**Jim Keating**  
Vice President, Oil & Gas  
Nalcor Energy



**Jean-Francois Gauthier**  
Director of Business Development  
GHGSat



**Alex Hay**  
Founder & Principal  
Southern Harbour



**Mohan Gurusamy**  
Trade Commissioner  
High Commission of Canada

## TECHNICAL PANEL SESSIONS

Technical panel sessions featured new and emerging technologies, topics included:

- Subsea Mining: Cutting Edge Subsea Mining Technology
- Digital Well Solutions

### Technical Panel Session 1: Subsea Mining: Cutting Edge Subsea Mining Technology



**Nobuyuki Okamoto**  
Deputy Director General, Metals  
Mining Technology Department  
Japan Oil, Gas and Metals National  
Corporation (JOGMEC)



**KK Goi**  
Managing Director  
NuStar Technologies



**Matthew Kowalczyk**  
President  
Ocean Floor Geophysics



**Masanori Kyo**  
Deputy Director, Project Team for  
Development of Production Technology  
for Deep Ocean Resources  
JAMSTEC



**Eiichi Asakawa**  
General Manager  
JGI, Inc.

### Technical Panel Session 2: Digital Well Solutions



**Kenza Lahlou**  
Vice President  
Sales & Marketing  
eDrilling



**Mats Hermansen**  
Senior vice President Sales  
Exebenus



**Glenn-Ole Kaasa**  
CEO  
Kelda Drilling Controls



**Dismas Bismo**  
Technical Sales Manager  
Asia Pacific - Drilling & Wells  
Kongsberg Digital



**Per Hagen**  
Regional Director  
Norwegian Energy Partners

## ■ TECHNICAL SESSIONS

50 technical sessions provided industry professionals the opportunity to present their technical expertise, and share best practices and case studies with peers, serving as a platform for presenters and the industry to hone their knowledge through an active exchange of ideas.

### Session Topics

- Approaches in Offshore Installation
- Production Maintenance and Integrated Operations
- Flow Assurance Research Advancement
- Deepwater Technology
- Drilling Efficiency
- Pipeline Design and Operations I
- Recent Advancements in Reservoir Modelling Technique
- Advancements in Laboratory Investigations: Chemical Flood
- Cost Management by Hazard Mitigation
- Formation Evaluation
- Downstream Digital Operations
- Asset Integrity Management
- Numerical Modelling of Hydrodynamics
- Geoscience/Geology
- Drilling Data Analytics
- Modern Stimulation Technologies for Productivity Improvement
- Technical Integrity and Process Safety
- Flow Assurance
- Project and Risk Management
- Drilling Optimisation
- Lean and Innovative Offshore Solutions
- Modelling of Fractured and Complex Reservoir
- HSE, Regulatory and Governance
- Metocean and Geotechnical Design
- Brownfield and Facilities
- Upstream Digital Operations
- Reservoir Characterisation
- Materials Selection and Corrosion
- EOR: Field Applications of Chemical Flooding
- Managed Pressure Drilling
- HPHT
- Challenging the Limits in Well Completion and Construction
- Floating and Riser Systems
- Recent Field Applications in IOR/EGR/EOR
- Alternative and Renewable Energy to Unlock Marginal Field Development
- Pipeline Design and Operations II
- Advancements in Reservoir Surveillance and Monitoring
- Field Application of Polymer, CO<sub>2</sub> Flooding and Nano Injections
- Geophysical Technology and Solutions: What's New?
- Sand Management Technology Applications and Advancement
- Pipeline and Structure Installation
- Decommissioning and Abandonment
- Subsea Production and Processing Systems
- Characterisation and Modelling of Unconventional Resources
- Drilling Fluids and Cementing Technology
- High CO<sub>2</sub> and Contaminated Fields
- Advanced Reservoir Characterisation
- Advancements in Laboratory Investigations: Polymer Flooding / Nano Injections
- Novel Approaches and Emerging Technologies in Geoscience
- Marginal Fields Development: Leapfrogging the Economic Hurdle

# KNOWLEDGE SHARING EPOSTER SESSIONS

ePoster authors shared their technical studies via the ePoster library in the virtual platform.



ePoster

Search by Paper Number, Paper Title, Author

Displaying (1-20 of 103) 1 2 3 4 5 Next

Paper Number	Paper Title	Author(s)	Download Paper	Action
Invited Speaker	Technology Advancement Against Nature 30-40 ORE Success in a 40 Years Producing Field	P. Yeoh, S.N. Hassan, N. Lait, A. Ashari, A.Z. Ishak, A.H. Mustafa, A. Roy, S. Kumar, and A.P. Tara PETRONAS Carigali Sdn. Bhd.	Download	Watch
OTC-30340-MS	Static Adsorption of Amphiphilic Surfactant	W.I. Mohamed Amir, S. Zahai, A. Abd Manap, PETRONAS Research Sdn. Bhd.	Download	Watch
OTC-30343-MS	Advanced Imaging Solution Using Existing Data Set for Geohazard Analysis	J. Kumar, T. Martin and G. Benhot, PGS	Download	Watch
OTC-30344-MS	The Drag Marine Vertical Axis Current Turbine to Assist in the Electrification of Offshore Platforms	A. Maimun and A.S. Soufjan, U. Teknologi Malaysia	Download	Watch
OTC-30354-MS	Rule-Based Design Application to Offshore Structures	N. Nagaraju, S. Pillai and C. Kumar, McDermott International Inc.	Download	Watch
OTC-30355-MS	The Feasibility of Resistivity Responses as Fluid Monitoring Controlled System in Conventional Reservoir-hydrocarbon Production	K. Adha, I. Lubis, M. Hermans and K.A. Lait, U. Teknologi PETRONAS	Download	Watch

BACK



## Technical Programme Committee

The Technical Programme Committee is responsible for developing the technical programme for the event, thus is made up of technical experts from the energy industry.

### AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS (AAPG) SUBCOMMITTEE

#### Subcommittee Chair

Robert Shoup, **Subsurface Consultants & Associates, LLC**

#### Members

Allan Filipov, **Independent**  
John Jong, **JX Nippon Oil & Gas Exploration Corporation**

### AMERICAN INSTITUTE OF CHEMICAL ENGINEERS (AIChE) SUBCOMMITTEE

#### Subcommittee Chair

Julie Morgan, **Woodside Energy**

#### Subcommittee Vice Chair

Dominic Foo, **University of Nottingham**

#### Members

Rafil Elyas, **East101 Sdn. Bhd.**  
Tushar Poddar, **Energise Futures**  
Marc Lehmann, **INPEX**

### AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) SUBCOMMITTEE

#### Subcommittee Chair

John Lim, **Shell**

#### Subcommittee Vice Chair

Eng Yeow Kuan, **Independent**

#### Members

Nontiwat Hutangkura, **Chevron Thailand**  
William Huen, **Curtin University**  
Boon Chin Teh, **DNVGL**  
Eddy Goh, **McDermott Asia Pacific**  
Steven Ling Neng Yin, **McDermott Asia Pacific**  
Paul Ong Pang Awn, **National University of Singapore**  
XuDong Qian, **National University of Singapore**

#### Members

Patrick Yap, **NOV APL**  
Chow WanHan, **Sarawak Shell Berhad**  
Daniel Johnny David, **Sarawak Shell Berhad**  
Vadim Anokhin, **Sarawak Shell Berhad**  
Ahmad Hafizzi Abdullah, **Shell**  
Ken Loh Khian Aik, **Shell**  
Chee Sian Hoo, **Shell Project & Technology – East**  
Rudranath Banerjee, **TechnipFMC**  
Shahreyar Shahyafar, **TechnipFMC**  
Kien Peng Yee, **TechnipFMC**  
Eu Shawn Lim, **Universiti Teknologi PETRONAS**  
Mohd Shahir Liew, **Universiti Teknologi PETRONAS**  
Noor Amila Wan Abdullah Zawawi, **Universiti Teknologi PETRONAS**

### AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) SUBCOMMITTEE

#### Subcommittee Chair

Adriaan Tange, **Independent**

#### Subcommittee Vice Chair

Albert Goh Chee Kong, **Qatar Petroleum**

#### Members

Joseph Liew, **GE Oil & Gas**  
Mohammed Abdul Hannan, **Newcastle University Singapore**  
Chatri Kriengyakul, **PTTEP**  
Kenneth Yip, **Shell Project & Technology - East**

### IEEE OCEANIC AND ENGINEERING SOCIETY (IEEE OES) SUBCOMMITTEE

#### Subcommittee Chair

Khalid Isa, **Universiti Tun Hussein Onn Malaysia**

#### Subcommittee Chair

Harumi Sugimatsu, **University of Tokyo**

#### Members

Jerry Carroll, **IEEE Oceanic Engineering Society**

#### Members

Eiichi Asakawa, **JGI, Inc.**  
M.A. Atmanand, **National Institute of Ocean Technology**  
Jenhwa Guo, **National Taiwan University**  
Lian Lian, **Shanghai Jiao Tong University**  
Jutiporn Jaiven, **PTTEP**  
Ken Takagi, **University of Tokyo**  
Tamaki Ura, **University of Tokyo**

### MARINE TECHNOLOGY SOCIETY (MTS) SUBCOMMITTEE

#### Subcommittee Chair

Joey Fisher, **M3 Marine Expertise Pte. Ltd.**

#### Subcommittee Vice Chair

Piyadarshan Pandey, **POSH (PACC Offshore)**

### SOCIETY OF EXPLORATION GEOPHYSICISTS (SEG) SUBCOMMITTEE

#### Subcommittee Chair

Chrissie Sylvester Lojikim, **Sarawak Shell Berhad**

#### Subcommittee Vice Chair

Mohd Firdaus Abdul Halim, **PETRONAS**

#### Members

Alessandro Mannini, **Beach Energy**

#### Members

Xie Yi, **CGG**  
Guillaume Cambois, **Independent**  
Hitoshi Mikada, **Kyoto University**  
Elita Yunyue Li, **National University of Singapore**  
Wanida Sritongthae, **PTTEP**  
Michelle Tham, **Schlumberger**  
Stephan Gelinsky, **Shell International E&P**

## SOCIETY FOR MINING, METALLURGY, AND EXPLORATION (SME) SUBCOMMITTEE

### Subcommittee Chair

Charles L. Morgan, **Moana Hohonu Consulting LLC**

### Members

Dan McConnell, **Fugro**  
John C. Wiltshire, **University of Hawaii Manoa**

## SNAME SUBCOMMITTEE

### Subcommittee Chair

Allan R. Magee, **National University of Singapore**

### Members

Xiang Liu, **American Bureau of Shipping**

Emmanuel Fontaine, **MISC Berhad**

Arun Kr Dev, **Newcastle University**

Pipop Thabsuwan, **PTTEP**

Jaime Hui Choo Tan, **TechnipFMC**

Adi Maimun Abdul Malik, **Universiti Teknologi Malaysia**

## SOCIETY OF PETROLEUM ENGINEERS (SPE) SUBCOMMITTEE

### Subcommittee Chair

Nasir Haji Darman, **PETRONAS**

### Subcommittee Vice Chair

Manikandan Narayanan, **TechnipFMC**

### Members

James Carnegie, **Aker Solutions Malaysia Sdn. Bhd.**

Ahmed Elsherbini Ibrahim, **Baker Hughes**

Ong See Hong, **Baker Hughes**

Heather Gustin, **BHP**

Zhiming Chen, **China University of Petroleum**

Yongcun Feng, **China University of Petroleum**

Mrinal Vohra, **Expro**

Roberto Beneventi, **Frank's International N.V.**

Han Tiebout, **GustoMSC**

Habil Akram Rosland, **HAR Consulting**

Jiang Long, **Independent**

Mohd Adeeb Aisamuddin, **Independent**

Muhammad Shafiq Shahrul Amar, **Independent**

Salim Taoutaou, **Independent**

Tomaso Ceccarelli, **Independent**

Zahari Abdul Razak, **Independent**

Hiroshi Kobayashi, **INPEX**

Aravindh Kaniappan, **Intertek**

Hanna Hamizah Razif, **Intertek**

Rosdi Baharim, **MISC Berhad**

Arun Krishnan, **MODEC Offshore Production Systems (S) Pte. Ltd.**

Ian McManus, **Mubadala Petroleum (Thailand) Ltd.**

Stuart Smith, **NOPSEMA**

Guillaume Plessis, **NOV - Grant Prideco**

Shankar Bhukya, **NOV Wellbore Technologies**

Kevin O'Flaherty, **Offshore Decommissioning Services**

Prady Chaliha, **Osaka Gas Australia**

Belladonna Maulianda, **Pertamina**

Azhar Abdullah, **Petrobyte**

Alfred Soong, **PETRONAS**

Bahrom Madon, **PETRONAS**

Lau Chee Hen, **PETRONAS**

Lim Min Teong, **PETRONAS**

Luky Hendraningrat, **PETRONAS**

M Beheshti Kamil, **PETRONAS**

M. Faizal Sedaralit, **PETRONAS**

Malik Faisal Abdullah, **PETRONAS**

Mior Yusni Ahmad Fuad, **PETRONAS**

Mohamad Ikhranizam Mohamad Ros, **PETRONAS**

Mohd Azreen Zhafran Omar, **PETRONAS**

Muhammad Faris Arriffin, **PETRONAS**

Rahimi Ab Wahab, **PETRONAS**

Rahim Masoudi, **PETRONAS**

Raj Deo Tewari, **PETRONAS**

Saiful Azuan Abdul Aziz, **PETRONAS**

Siti Shafikah Md Daud, **PETRONAS**

Sulaiman Sidek, **PETRONAS**

Abdolrahim Ataei, **PETRONAS Carigali Sdn. Bhd.**

Anas Sofian, **PETRONAS Carigali Sdn. Bhd.**

Dipak Mandal, **Reservoir Consultant**

Mohd Faizatulizuddin Ishak, **PETRONAS Carigali Sdn. Bhd.**

Mohd Farris Bakar, **PETRONAS Carigali Sdn. Bhd.**

Yap Yun Thiam, **PETRONAS Carigali Sdn. Bhd.**

Mohd. Izzat Mohd. Thiyahuddin, **PETRONAS Research Sdn. Bhd.**

Syed Redzal Hisham Sy A Hamid, **PETRONAS Research Sdn. Bhd.**

Gary Ong, **PTTEP Malaysia**

Mauro Scotti, **Saipem**

Kukuh Soerowidjojo, **Sandvik**

Bong Khin-Fah, **Sarawak Shell Berhad**

Choong Yen Li, **Sarawak Shell Berhad**

Chow Mun Hon, **Sarawak Shell Berhad**

Yaw Sheng Ying, **Sarawak Shell Berhad**

Ahmed A. Al-Eidan, **Saudi Aramco**

Affian Jantan, **Schlumberger**

Andy Baker, **Schlumberger**

Maria Eugenia Yanez Banda, **Schlumberger**

Mohd Shafie Jumaat, **Schlumberger**

Muhammad Afiq Zaim Za'ba, **Schlumberger**

Pascal Millot, **Schlumberger**

Asun Entaban, **Shell**

Jeremy Wong, **Shell**

Khor Chih Wei, **Shell**

Afriandi Eka Prasetya, **SKK Migas**

Francesco Patonico, **Subsea 7**

Sharifudin Salahudin, **Sutera Energy Solutions SB**

Maria Papadopoulou, **TechnipFMC**

Mohd Taufik Arshad, **TechnipFMC**

Koji Sakura, **TENARISNKK Tubes**

Mojtaba Moradi, **Tendeka**

Azlinda Abdul Malik, **Universiti Teknologi PETRONAS**

Khaled Abdalla Elraies, **Universiti Teknologi PETRONAS**

Mysara Eissa Mohyaldinn Elhaj, **Universiti Teknologi PETRONAS**

Shiferaw Regassa Jufar, **Universiti Teknologi PETRONAS**

Sonny Irawan, **Universiti Teknologi PETRONAS**

Syahrir Ridha, **Universiti Teknologi PETRONAS**

Tarek Arbi Omar Ganat, **Universiti Teknologi PETRONAS**

Fauzi Abbas Abbas Shariff, **Vestigo Petroleum**

Fikri Irawan, **Weatherford**

Marcel Croon, **Weatherford**

Henry Pinkstone, **WellSpec**

## THE MINERALS, METALS & MATERIALS SOCIETY (TMS) SUBCOMMITTEE

### Subcommittee Chair

Melissa Chan Chin Han, **Institute of Materials, Malaysia**

### Subcommittee Vice Chair

Max Ong, **Norimax Sdn. Bhd.**

### Members

Kamal Azam Ibrahim, **PETRONAS**

Muhammad Hawari Hasan, **PETRONAS**

Andrew Spowage, **Queen Mary University of London**

Hock Guan Ong, **Shell**

# DISTINGUISHED ACHIEVEMENT AWARDS



## Distinguished Achievement Awards

The Offshore Technology Conference Asia (OTC Asia) Distinguished Achievement Awards recognises major technological, humanitarian, environment, and leadership contributions to the industry. This year's recipients are:



Kevin Owens

### OTC Asia Distinguished Achievement Award for Individuals

**Kevin Owens** will be honoured for his outstanding and unique achievements, and extensive contributions to the industry throughout his 37-year career spanning 6 continents and 9 countries. He has shown remarkable leadership across operational excellence, ensuring personal and process safety, reliability, maintenance, production, and financial results. Owens also led efforts to safely and reliably start up five new LNG Trains, two domestic market gas installations and the world's largest CO2 sequestration project located in Australia.

### OTC Asia Distinguished Achievement Award for Companies, Organisations and Institutions

**Woodside Energy** is recognised for their trailblazing Greater Enfield Project.

The Greater Enfield project is Australia's largest oilfield development currently in operation. The project also currently holds the world record for longest horizontal subsea water injection well and the world's first pipeline buoyant crossing of a seabed canyon.

With over 1.7 million work hours on the Mobile Offshore Drilling Unit, offshore installation vessels and pipelay vessel with zero lost work cases, its success and achievements are well-deserved.



Greater Enfield Project  
Woodside Energy



Dato' Mohamad Idris Mansor

### OTC Asia Heritage Award

**Dato' Mohamad Idris Mansor** is being recognised for his incredible achievements, specifically in establishing and growing PETRONAS Carigali, the E&P operation arm of PETRONAS, and his tremendous impact on the oil and gas industry in Malaysia and the region. Dato' Idris has been instrumental in advancing the energy industry through his guidance, leadership and volunteerism with the Society of Petroleum Engineers.

### Special Citations

**Phongsthorn Thavisin** will receive a Special Citation for his outstanding leadership and volunteerism within the industry, as well as, his lifelong commitment to reshaping Thailand's energy industry through technological innovations and operational success.

**Zhu Weilin** will receive a Special Citation for his significant contribution to the China offshore industry, as one of its pioneers; as an explorer, developer, visionary leader and scholar; as well as for his outstanding knowledge of regional geology and petroleum systems.



Zhu Weilin



Phongsthorn Thavisin



OTC Asia recognises innovative technologies with the Spotlight on New Technology® Award. The programme recognises the latest and most advanced technologies from the region that are leading the industry into the future.

## Congratulations to the OTC Asia 2020 Spotlight on New Technology Award recipients:

- Halliburton, producer of Relay™ Digital Slickline System
- Halliburton, producer of Earthstar® 3D Ultra-Deep Resistivity 3D Inversion
- Khrono, producer of Advances in High Capacity Straight Tube Coriolis Flowmeters
- NGLTech Sdn Bhd, producer of Multifunctional Production Unit (MPU)
- NGLTech Sdn Bhd, producer of Volatile Organic Compound Recovery System (VOC-RS)
- Schlumberger, producer of Irisphere Look-Ahead-While-Drilling Service
- Schlumberger, producer of OneSubsea Subsea Modular Injection System
- Synergy Oil and Gas Engineering, producer of Syn Jet Pump
- Synergy Oil and Gas Engineering, producer of Thermodynamic Collision
- Valvetight, producer of DBB-Saver (Double Block & Bleed Saver)
- Weatherford, producer of Magnus™ Rotary Steerable System
- Weatherford, producer of Victus Intelligent Managed Pressure Drilling



Detailed information about the winning technologies can be found [here](#).



## An OTC Event



## Other OTC Events

