The International Petroleum Technology Conference (IPTC) is an international oil and gas conference and exhibition. The event rotates amongst various venues in the Eastern Hemisphere. The scope of the conference programme and associated industry activities will address key technology and relevant issues that challenge industry specialists and management around the world, particularly in the gas business and certain overarching issues such as HSE, Security, HR and training.

23 March - 1 April 2021
Virtual

Progressive Collaboration and Innovative Solutions:
Shaping the Future of Energy

CONFERENCE HIGHLIGHTS
We are pleased to invite your organisation to participate in the 13th International Petroleum Technology Conference (IPTC) to be held virtually from 23 March – 1 April 2021, which is hosted by PETRONAS and co-hosted by Mubadala Petroleum and Schlumberger.

IPTC is a collaborative effort among 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), rotating between Asia Pacific and the Middle East. The synergies amongst these four leading professional societies provide the most comprehensive opportunity to form an outstanding multidisciplinary technical programme.

Under the theme “Progressive Collaboration and Innovative Solutions: Shaping the Future of Energy”, the 13th IPTC will address 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 and addresses the challenges of a lower carbon world.

The conference will include high level discourse by industry thought leaders and subject matter experts through the event’s IPTC Insights sessions, executive plenary session, five panel sessions, and detailed technical presentations on a range of industry subjects. More than 400 technical papers representing 85 organisations and 36 countries will be presented during 44 technical sessions and ePosters.

A technical exhibition will also showcase the latest advancements, innovations, achievements in upstream exploration and production, as well as recent digital initiatives related to the petroleum industry.

We hope that you will take this unique opportunity to participate and engage with others who are committed towards ensuring the future success of the energy industry, and to learn about the opportunities in the region and globally.

We thank you in advance and look forward to your support and to welcoming you to the virtual IPTC 2021.

Sincerely,

MESSAGE FROM THE COMMITTEE LEADERSHIP

Adif Zulkifli
Executive Committee Co-Chair
Executive Vice President & CEO, Upstream
PETRONAS

Chen Kah Seong
Conference Programme Committee Co-Chair
Vice President, Upstream, Centre of Excellence
PETRONAS

Stefano Raciti
Executive Committee Co-Chair
President & Country Manager, Malaysia
Mubadala Petroleum

Jalal Abu Bakar
Conference Programme Committee Co-Chair
Vice President, Commercial, Malaysia
Mubadala Petroleum

Mohsin Al Hadhrami
Executive Committee Co-Chair
President, East Asia
Schlumberger

Zahris Sham Abu Musa
Conference Programme Committee Co-Chair
Global Account Director - PETRONAS
Schlumberger
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 emphasise the 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 the corresponding exhibition.

What is the IPTC 2021 Virtual Event?

The look and feel of the virtual environment will provide attendees with a comprehensive event experience. As with the physical event, a virtual event will include conference programme components and presentations from industry experts and technical authors. The conference will host online keynotes, dialogues, panels and technical sessions by leading executives and industry professionals. The interactive exhibition hall and lounge areas will also be available for attendees to network through live-chat features with exhibitors and fellow participants. Being delivered online means attendees, speakers, and exhibitors can join IPTC from anywhere in the world.

Highlights

- **3,000+** energy professionals
- **15+** engaging high-level industry dialogues
- **40+** interactive multi-disciplinary technical presentations
- Access to global thought leaders and industry experts
- **35+** hours of networking and business opportunities
IPTC Virtual at a Glance

IPTC Insights
Hear industry thought leaders share 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.

Executive Plenary and Panel Sessions
Engage in insightful dialogues on pressing industry issues with business leaders and industry experts.

Technical Sessions
Join industry professionals to exchange technical knowledge, best practices and case studies.

Interactive Exhibition
Interact with exhibitors at their virtual exhibition booths where you can access digital resources about their products and services and engage with their representatives through one-to-one video and text chats.

Form new connections, strengthen existing relationships, exchange ideas and develop partnerships virtually to support and drive the industry forward through these special features:
- Exclusive breakout discussions with industry leaders and technical experts
- Schedule private virtual meetings with exhibitors
- Connect with attendees through digital networking tools
- View technical ePoster presentations to gain further insight into the industry’s latest technical advancements
The American Association of Petroleum Geologists (AAPG), founded in 1917, has been a pillar of the world-wide scientific community. The original purpose of AAPG, to foster scientific research, to advance the science of geology, to promote technology, and to inspire high professional conduct, still guides the Association today. Currently the world’s largest professional geological society with approximately 40,000 members in 129 countries, AAPG provides publications, conferences and education opportunities to geoscientists and disseminates the most current geological information available to the general public.
For more information, visit: 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

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

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 156,000 members in 154 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses and online resources.
For more information, visit: www.spe.org

IPTC Board of Directors
IPTC Board of Directors
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.

Chairman
Mahmoud Abdulbaqi
European Association of Geoscientists and Engineers

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

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

The full list of Board members can be found at: http://2021.iptcnet.org/board-of-directors
Executive Committee
The Executive Committee is comprised of senior executives from the worldwide energy industry. The committee's role is to encourage the commitment of participation in the event, as well as to provide guidance to the other event committees on the direction and focus of their programmes. The Executive Committee determines the key themes that will be addressed in the plenary and panel sessions of the conference, as well as identify industry thought leaders for these special sessions who will be invited to participate.

Honourable Advisor

Tengku Muhammad Taufik
President & Group CEO
PETRONAS

Adif Zulkifli
Executive Vice President & CEO, Upstream
PETRONAS

Stefano Raciti
President & Country Manager, Malaysia
Mubadala Petroleum

Mohsin Al Hadhrami
President, East Asia
Schlumberger

A full list of committee members can be found at: http://2021.iptcnet.org/executive-committee

Conference Programme Committee
The Conference Programme Committee is 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.

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

Jalal Abu Bakar
Vice President, Commercial, Malaysia
Mubadala Petroleum

Zahris Sham Abu Musa
Global Account Director - PETRONAS
Schlumberger

A full list of committee members can be accessed at: http://2021.iptcnet.org/programme-committee

Award Committee
The Award Committee's members are appointed by the IPTC Board of Directors. They are tasked with soliciting nominations, reviewing and selecting the annual IPTC “Excellence in Project Integration” Award. This committee reports directly to the IPTC Board of Directors.

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

A full list of committee members can be found at: http://2021.iptcnet.org/award-committee
Conference Sponsors

HOST ORGANISATION

PETRONAS

CO-HOST ORGANISATIONS

Mubadala Petroleum
Schlumberger

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Gold Sponsor

SONOMATIC
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Gold Sponsor

CGG
Silver Sponsor

ConocoPhillips
Silver Sponsor
Moving Pegaga Forward

Mubadala Petroleum is an Abu Dhabi-based international, upstream oil and gas exploration and production company, recognized globally as a responsible operator and valued partner. We are a wholly-owned subsidiary of Mubadala Investment Company, which is owned by the Government of Abu Dhabi. We are present in 10 countries, across the Middle East, North Africa, Russia and Southeast Asia.

Our journey in Malaysia began in 2010 as the operator of offshore Block SK320, which includes the Pegaga gas discovery. The Pegaga gas field development has set the foundation for our long term growth in Malaysia.

In April 2020, we safely completed Pegaga’s first offshore transportation and installation of jacket, subsea pipeline and wellhead deck. The project’s development drilling campaign was launched in June 2020 with first gas expected in 2021.

We are proud to be Co-Host of IPTC 2021. Visit our virtual booth from 23 March to 1 April.

To find out more visit mubadalapetroleum.com
## Conference Schedule

(as at 18 February 2021)

<table>
<thead>
<tr>
<th>Time (UTC +8)</th>
<th>Track 1</th>
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<tbody>
<tr>
<td><strong>DAY 1: TUESDAY, 23 MARCH</strong></td>
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<tr>
<td>1300-1400 hours</td>
<td>Opening &amp; Award Presentation</td>
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<td>1300-1800 hours</td>
<td>Exhibition Live</td>
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<td>1400-1430 hours</td>
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<td><strong>Break</strong></td>
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<tr>
<td>1445-1515 hours</td>
<td><strong>IPTC Insights 1:</strong> Nasir Al Naimi, Business Line Head, Upstream, Saudi Aramco</td>
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<td><strong>Break</strong></td>
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<tr>
<td>1500-1515 hours</td>
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<td><strong>IPTC Insights 2:</strong> Julie Sweet, CEO, Accenture</td>
<td><strong>Break</strong></td>
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<tr>
<td>1515-1545 hours</td>
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<td></td>
<td><strong>IPTC Insights 3:</strong> Kerry Moreland, Vice President, Sub-Saharan Africa and Asia Pacific, Exploration and New Ventures, ExxonMobil Upstream Business Development Co.</td>
<td><strong>Break</strong></td>
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<tr>
<td>1545-1600 hours</td>
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<tr>
<td><strong>DAY 2: WEDNESDAY, 24 MARCH</strong></td>
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<tr>
<td>1300-1400 hours</td>
<td>Technical Session 1: Seismic Modelling/Quantitative Interpretation</td>
<td>Technical Session 2: Next Generation Technology for Oil and Gas</td>
<td>Technical Session 3: Advances in Reservoir Modelling</td>
<td>Technical Session 4: Development - Stimulation</td>
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<tr>
<td>1300-1800 hours</td>
<td>Exhibition Live</td>
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<td>1400-1430 hours</td>
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<td>Sponsored Seminar 1: PETRONAS</td>
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<tr>
<td>1430-1445 hours</td>
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<td><strong>Break</strong></td>
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<tr>
<td>1445-1515 hours</td>
<td>Executive Plenary: Managing Transformation to Shape the Future of Energy</td>
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<td><strong>Break</strong></td>
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<tr>
<td>1545-1615 hours</td>
<td><strong>IPTC Insights 4:</strong> Arnuad Breuillac, President, Exploration &amp; Production, Total</td>
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<tr>
<td>1615-1700 hours</td>
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<tr>
<td>1700-1800 hours</td>
<td>Technical Session 5: Drilling and Completions: Case Studies</td>
<td>Technical Session 6: CCS (Carbon Capture and Storage)</td>
<td>Technical Session 7: EOR Success in a Challenging Economy</td>
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<tr>
<td><strong>DAY 3: THURSDAY, 25 MARCH</strong></td>
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<tr>
<td>1300-1800 hours</td>
<td>Exhibition Live</td>
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<tr>
<td>1400-1430 hours</td>
<td>Sponsored Seminar 2: Mubadala Petroleum</td>
<td>Sponsored Seminar 3: Baker Hughes</td>
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<tr>
<td>1430-1445 hours</td>
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<td><strong>Break</strong></td>
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<tr>
<td>1445-1515 hours</td>
<td><strong>IPTC Insights 5:</strong> Datuk Mohd Anuar Taib, Chief Operations Officer, Sapura Energy Bhd.</td>
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<td><strong>Break</strong></td>
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<tr>
<td>1515-1630 hours</td>
<td>Panel Session 1: Energy Transition: Balancing Accessibility, Sustainability and Affordability</td>
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<tr>
<td>1630-1700 hours</td>
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<td><strong>Break</strong></td>
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<tr>
<td><strong>DAY 4: FRIDAY, 26 MARCH</strong></td>
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<tr>
<td>1300-1800 hours</td>
<td>Exhibition Live</td>
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<tr>
<td>1400-1430 hours</td>
<td>Sponsored Seminar 4: Schlumberger</td>
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<td><strong>Break</strong></td>
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<tr>
<td>1430-1445 hours</td>
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<td><strong>IPTC Insights 6:</strong> Emerging Leaders Roundtable</td>
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<tr>
<td>1445-1515 hours</td>
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<td><strong>Panel Session 2:</strong> Human Capital Dynamics for the Future</td>
<td><strong>Break</strong></td>
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<tr>
<td>1515-1615 hours</td>
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<td>1615-1700 hours</td>
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<td><strong>Break</strong></td>
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# Conference Schedule

(as at 18 February 2021)

## DAY 5: MONDAY, 29 MARCH

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<tr>
<th>Time (UTC +8)</th>
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<tbody>
<tr>
<td>1300-1400 hours</td>
<td>Technical Session 22</td>
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<td>Technical Session 25</td>
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<td>Innovative Technology</td>
<td>Petroleum Geology</td>
<td>Addressing Challenges</td>
<td>Reimagining Sustainable</td>
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<td></td>
<td>Gas Delivery Solution</td>
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<td>in Unconventionals</td>
<td>Development</td>
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<td>1300-1800 hours</td>
<td>Exhibition</td>
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<td>1400-1430 hours</td>
<td>Sponsored Seminar 5</td>
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<tr>
<td>1445-1515 hours</td>
<td>IPTC Insights 7: Paul Goodfellow, Chairman, President and CEO, Halliburton</td>
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<tr>
<td>1515-1615 hours</td>
<td>Ask the Expert 1</td>
<td>Ask the Expert 2</td>
<td>Ask the Expert 3</td>
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<td>1615-1630 hours</td>
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<td>1630-1730 hours</td>
<td>Technical Session 26</td>
<td>Technical Session 27</td>
<td>Technical Session 28</td>
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<td>Sand Management</td>
<td>Well Construction</td>
<td>Enhancement in</td>
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<td></td>
<td>and Solutions</td>
<td>Data Analytics</td>
<td>Facilities Performance</td>
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## DAY 6: TUESDAY, 30 MARCH

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<td>1300-1400 hours</td>
<td>Technical Session 29</td>
<td>Technical Session 30</td>
<td>Technical Session 31</td>
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<td>Data Driven Applications</td>
<td>Artificial Lift</td>
<td>Reservoir Modelling</td>
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<td>1300-1800 hours</td>
<td>Exhibition</td>
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<td>1400-1430 hours</td>
<td>Sponsored Seminar 7</td>
<td>Sponsored Seminar 8</td>
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<td>1430-1445 hours</td>
<td>Break</td>
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<tr>
<td>1445-1515 hours</td>
<td>IPTC Insights 8: Dwi Soetjipto, Chairman, SKK Migas</td>
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<tr>
<td>1515-1615 hours</td>
<td>Panel Session 3: Navigating the Future of Gas</td>
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<td>1615-1630 hours</td>
<td>Break</td>
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<tr>
<td>1630-1730 hours</td>
<td>Technical Session 32</td>
<td>Technical Session 33</td>
<td>Technical Session 34</td>
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<td>Production Optimisation and Asset Performance</td>
<td>Drilling Technology</td>
<td>Towards Cleaner and</td>
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<td>Advancement</td>
<td>Sustainable Energy:</td>
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## DAY 7: WEDNESDAY, 31 MARCH

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<td>1300-1400 hours</td>
<td>Technical Session 35</td>
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<td>Integrated Geoscience</td>
<td>Digital Transformation</td>
<td>Driving Commercial Success</td>
<td>Mature Field Development,</td>
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<td>Applications</td>
<td>and Innovation</td>
<td>in Oil and Gas Development</td>
<td>Production and Abandonment</td>
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<td>1300-1800 hours</td>
<td>Exhibition</td>
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<td>1400-1430 hours</td>
<td>Sponsored Seminar 9</td>
<td>Sponsored Seminar 10</td>
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<td>1430-1445 hours</td>
<td>Break</td>
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<tr>
<td>1445-1515 hours</td>
<td>IPTC Insights 9: Jeff Miller, Chairman, President and CEO, Halliburton</td>
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<td>1515-1615 hours</td>
<td>Panel Session 4: Digital Transformation: Powering the Energy Industry through Necessary Disruption</td>
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<td>1615-1630 hours</td>
<td>Break</td>
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<tr>
<td>1630-1730 hours</td>
<td>Technical Session 39</td>
<td>Technical Session 40</td>
<td>Technical Session 41</td>
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<td>Drilling Engineering Design</td>
<td>Attribute Analysis</td>
<td>Innovative Solutions in</td>
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<td>Unconventional Development</td>
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## DAY 8: THURSDAY, 1 APRIL

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<tr>
<td>1300-1400 hours</td>
<td>Technical Session 42</td>
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<td>Innovative Solutions in</td>
<td>Big Data and Analytics</td>
<td>Completion Technology</td>
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<td>Reservoir Engineering</td>
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<td>1300-1800 hours</td>
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<td>1430-1445 hours</td>
<td>Break</td>
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<tr>
<td>1445-1545 hours</td>
<td>Panel Session 5: Asia Pacific Exploration Opportunities – Are We Missing Something</td>
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<tr>
<td>1545-1615 hours</td>
<td>Closing Session</td>
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</table>
Speakers
Opening Ceremony

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

Tengku Muhammad Taufik
President & Group CEO
PETRONAS

Mansoor Mohamed Al Hamed
Chief Executive Officer
Mubadala Petroleum

Olivier Le Peuch
CEO
Schlumberger

Mahmoud Abdulbaqi
Chairman
IPTC

IPTC Insights

Nasir K. Al Naimi
Business Line Head, Upstream
Saudi Aramco

Julie Sweet
CEO
Accenture

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

Arnaud Breuillac
President
Exploration & Production
Total

Datuk Mohd Anuar Taib
Chief Operations Officer
Sapura Energy

Paul Goodfellow
Executive Vice President, Deepwater
Shell

Dwi Soetjipto
Chairman
SKK Migas

Jeff Miller
Chairman, President and CEO
Halliburton

IPTC Insights: Emerging Leaders Roundtable

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

Cally Ting
Human Capital Manager
Malaysia
Mubadala Petroleum

Chang Qing
Vice President, Production Systems - Asia
Schlumberger
Speakers

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 Firoz Asnan
Senior Vice President
Malaysia Petroleum Management
PETRONAS

Montri Rawanchaikul
President
PTTEP

Samer S. Al Ashgar
General Manager
Charaterisation & Field Development Geosciences
Saudi Aramco

Takeshi Soda
Director, Petroleum and Natural Gas Division
Ministry of Economy, Trade and Industry (METI)
Government, Japan

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

Mazuin Ismail
Senior Vice President, Corporate Strategy
PETRONAS

Roger Bounds
Vice President, Strategy and Portfolio, Integrated Gas
Shell

Angela Wilkinson
Secretary General & CEO
World Energy Council

John McCreery
Advisory Partner
Bain & Co

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

Erdal Ozkan
Professor of Petroleum Engineering
Colorado School of Mines

Carla Carroll
Talent Manager - EESA & MENA-AP
Halliburton

Eric Young
Geozone Vice President - Asia
Weatherford

Farehana Hanapiah
Vice President Group Human Resources Management
PETRONAS

Panel Session 2:
Human Capital Dynamics for the Future
Speakers

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

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
CEO
CGG

Emeliana Rice-Oxley
Vice President
Exploration Upstream
PETRONAS

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

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

Ask the Experts

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

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

Bob Pearson
SPE Technical Director
Production and Facilities
Glynn Resources

Rise Of Machines: Time To Change The Petroleum Engineering Curriculum

Robello Samuel
Chief Technical Advisor and Technology Fellow
Halliburton

Machine Learning: from a Shopping List to a Change in Mindset

Francois Baillard
Chief Technology Officer
Iraya Energies

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Chief Technology Officer
Iraya Energies
Global Stewardship

Schlumberger has a long-standing culture of social and environmental stewardship in the communities where we and our customers live and work. We act on this in a variety of ways, including:

- deploying technologies with a reduced environmental impact
- promoting HSE and STEM education globally
- prioritizing the United Nations Sustainable Development Goals that we can most positively impact.

We are committed to conducting business safely and in a manner that preserves and respects human dignity.

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IPTC Sponsoring Societies Top Papers
The top papers from the conference’s of IPTC four Sponsoring Societies – the 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) – were invited to present their papers on key industry topics at IPTC.

IPTC Sponsoring Societies Top Papers Part 1
Wednesday, 10 February 2021
- Feasibility of Limestone Reservoirs as a Carbon Dioxide Storage Site: An Experimental Study by Arshad Raza, University of Engineering and Technology, Lahore (AAPG)
- Fast-Turnaround Time-Lapse Ocean Bottom Seismic Processing Enabled by Up/Down Deconvolution by Richard Ford, Schlumberger (SEG)
- Density Inversion from Seismic Using A Trans-Dimensional Approach: A Field Dataset Example by Reetam Biswas, BP (SEG)

IPTC Sponsoring Societies Top Papers Part 2
Wednesday, 3 March 2021
- Reinforcement Learning for Field Development Policy Optimisation by Giorgio De Paola, Repsol (SPE)
- Preventing the Next Big Well Control Event – A Leading Indicators Approach by Geir Karlsen, Deep Oceans LLC (SPE)

IPTC Sponsoring Societies Presidents Panel
Wednesday, 17 February 2021
The presidents of IPTC’s four sponsoring society will share their perspectives on what innovative technologies and industry trends are shaping the future of the energy landscape.

Richard Fritz 2020-2021 President American Association of Petroleum Geologists

Everhard Muijzert 2020-2021 President European Association of Geoscientists & Engineers

Maurice Nessim 2020-2021 President Society of Exploration Geophysicists

Tom Blasingame 2021 President Society of Petroleum Engineers

Mike Gunningham Director IPTC Board and Chief Production Technologist SGS
Located in the harsh environment of the UK North Sea, the Culzean development pushed the limits of existing technology. Complex reservoirs, ultra-High Pressure High Temperature (uHP/HT) wells and 1,000 bar rated surface facilities were all challenges faced by the project.

A development of true world scale, it included a new build drill rig, a three platform processing complex, a new build FSO and over 60 km of large bore gas export pipeline. Exceptional execution across all disciplines allowed it to be delivered safely, ahead of schedule as well as under budget.

It represents a strategic development for the region and one that will help maintain the UK’s GHG reduction targets by supporting the move to cleaner gas power generation both now and into the future.
Khurais Arab Light Increment by Saudi Aramco

Khurais Arab Light Increment program features increasing oil production from the existing Khurais, Abu Jiffan and Mazalij fields and thereby boosting the production capacity of Khurais Central Processing Facility (KhCPF) from 1,200 MBD to 1,500 MBD. This was achieved by constructing a 300 MBD Oil Processing Facility together with the construction of a grass root Satellite Gas Oil Separation Plant (GOSP) at Mazalij and Abu Jiffan to separate the additional crude, gas, and water streams, and recover 200 MBD together with additional production and water injection wells. The program also incorporates major environmental, energy, and reliability enhancement scope items.

The project covers wide area of execution between Khurais CPF, Abu Jifan, Mazalij, Satellite GOSP and Ain Dar, stretching over 300 km with nearly 3,340 interface points to manage, and more than 350 direct and indirect purchase orders from 22 countries, about 30% of the total value was invested in local content, capitalizing on local expertise and supporting In-Kingdom manufacturing industry. The project also saw a wide variety of technology deployment leveraging on the advancement in equipment technology and Industrial Revolution (IR) 4.0, which serves as a cornerstone of this project.

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.
PTTEP was founded in 1985 as a national petroleum exploration and production company dedicated to provide sustainable energy security. Our journeys have led us to discover energy for all, to drive the economy and enriching lives. No matter the obstacles, we can strive to overcome together to make a better world.

www.pttep.com
How to Register

Register online at [http://2021.iptcnet.org/register](http://2021.iptcnet.org/register)

## Individual Registration Fee

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee Per Person</th>
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<tr>
<td>Full Access Member</td>
<td>USD 345</td>
</tr>
<tr>
<td>Non-Member</td>
<td>USD 395</td>
</tr>
<tr>
<td>Speaker / Author / Committee / Session Chair</td>
<td>USD 195</td>
</tr>
<tr>
<td>Student (with valid Student ID)</td>
<td>Complimentary</td>
</tr>
<tr>
<td>Visitor</td>
<td>Complimentary</td>
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## Member Rate

To be entitled to the member rate, participant must provide their membership number from one of the following professional associations:

- AAPG - American Association of Petroleum Geologists
- EAGE - European Association of Geoscientists & Engineers
- SEG - Society of Exploration Geophysicists
- SPE - Society of Petroleum Engineers

## Group Registration

Register 5 save 15%, register 10 save 20%

## Student Registration

IPTC 2021 is offering 500 complimentary registrations to university students (with valid university ID) to attend the virtual event from 23 March - 1 April 2021. Registration for this 500 complimentary access will be allocated on a first-come first-served basis. Should any students wish to guarantee their attendance at the virtual event, student may consider purchasing a Full Access or Exhibition Visitor Registration.

## Registration Access Type

<table>
<thead>
<tr>
<th>Access Type</th>
<th>Full Access</th>
<th>Student</th>
<th>Visitor</th>
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</thead>
</table>
| **Conference**
  Opening, Executive Plenary, IPTC Insights, Panel, Technical, Ask the Expert and Closing Sessions, Conference Lounge and Meet the Speaker room | ✔           | ✔       |         |
| **Exhibition**
  Interactive exhibition booth features and booth seminar sessions | ✔           | ✔       | ✔       |
| **Sponsored Seminars**                           | ✔           | ✔       | ✔       |
| **Knowledge Sharing ePoster Sessions**          | ✔           | ✔       | ✔       |
| **Business Matching**
  Schedule private meetings with exhibitors       | ✔           | ✔       | ✔       |
| **Networking Lounge**
  Private message and exchange business card with online attendees | ✔           | ✔       | ✔       |
| **Conference Digital Proceedings**              | ✔           |         |         |
| **Digital Briefcase and Business Card**
  Digital resources, information and business cards | ✔           | ✔       | ✔       |
| **On-Demand Content**
  Conference sessions and presentations up to 3-months after the live event | ✔           |         |         |
The International Petroleum Technology Conference (IPTC) is an international oil and gas conference and exhibition. The event rotates amongst various venues in the Eastern Hemisphere. The scope of the conference programme and associated industry activities will address key technology and relevant issues that challenge industry specialists and management around the world, particularly in the gas business and certain overarching issues such as HSE, Security, HR and training.