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1–3 March 2023 *Bangkok, Thailand*

Balancing the Energy Landscape through Innovation and Sustainability

CONFERENCE PREVIEW

Sponsoring Societies











PTTEP Commits to Net Zero Greenhouse Gas Emissions by 2050

PTT Exploration and Production Public Company Limited (PTTEP) operates with consideration to create the right balance of business, social and environmental aspects. We take part in solving global warming issues and therefore set forth to achieve Net Zero Greenhouse Gas (GHG) Emissions by 2050 through our "EP Net Zero 2050" concept.

Exploring for Lower Carbon E&P Portfolio

Our exploration and production portfolio is managed to transform PTTEP into a lower-carbon organization. New projects with an emphasis on natural gas and greenhouse gas intensity are factored into the investment decision-making process. EΡ

Production and Planet in Balance

We pursue the development of technology to reduce GHG emissions, energy and production efficiency improvement, application of renewable energy in operations, as well as emissions offsetting through the planting of trees in forests and mangroves to increase the natural carbon sink.

NET ZERO 2050



Scan to watch EP Net Zero 2050 VDO

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international petroleum technology conference (iptc)











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Certified by Thailand Greenhouse Gas Management Organization (TGO)

*This Conference Preview is updated as at 7 February 2023

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DISCOVER IPTC

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), IPTC is widely regarded by energy professionals as a unique industry conference; providing peer-reviewed technology dissemination and knowledge sharing on a global scale and in a truly integrated manner.

The fifteenth edition of the International Petroleum Technology Conference (IPTC) is proudly hosted by PTT Exploration and Production Public Company Limited (PTTEP). Themed **"Balancing the Energy Landscape through Innovation and Sustainability"**, IPTC 2023 is scheduled from 1–3 March 2023 at the Bangkok Convention Center at CentralWorld in Bangkok, Thailand.





participating organisations



IPTC 2023 aims to address challenges facing the industry and highlight the technological advances required to meet future energy demand in a lower carbon world.



The bespoke three-day event will feature high-level discourse by industry thought leaders and experts, a comprehensive technical programme covering a broad range of topics from geoscience and petroleum engineering, an extensive exhibition showcasing leading-edge innovations and advancements in upstream exploration and production, as well as digital and sustainability initiatives and transformation in the energy transition.



Certified by Thailand Greenhouse Gas Management Organization (TGO)



can more women drive innovation in our industry?

Women continue to be underrepresented in fields such as science, technology, engineering and math.

This reality inspired a series of initiatives designed to accelerate women's professional development within our operations. This approach has produced an outcome which signals a more promising future; Aramco's growing cohort of female researchers have been named as inventors on 215 granted U.S. patents and counting.

Discover how our female talent is pushing the energy industry forward at aramco.com/poweredbyhow

MESSAGE FROM COMMITTEE LEADERSHIP

On behalf of the IPTC Board of Directors, the Executive Committee, the Conference Programme Committee and the Host Organisation, it is our pleasure to invite your organisation to participate in the 15th International Petroleum Technology Conference (IPTC), to be held from 1 – 3 March 2023 in Bangkok, Thailand.

It is a privilege for PTTEP to host IPTC for the third time as IPTC is considered a vital knowledge transfer platform for professionals to collaborate and create sustainable values for the energy industry, which is in line with PTTEP's vision - "Energy Partner of Choice".

IPTC is a unique, collaborative effort amongst AAPG, EAGE, SEG and SPE to deliver its renowned industry conference and peer-reviewed technical knowledge sharing on a global scale, in a truly integrated manner.

Under the theme **"Balancing the Energy Landscape through Innovation and Sustainability**", the conference will address industry challenges and highlight the technological advances required to meet future energy demands in a lower carbon world. We are also pleased to share that IPTC 2023 will be organised as a carbon neutral event, certified by the Thailand Greenhouse Gas Management Organisation.

The conference will feature industry thought leaders and subject matter experts through the event's two executive plenary sessions, eight panel sessions, and detailed technical presentations on a broad range of topics from geoscience and petroleum engineering. In addition, the programme will highlight emerging topics in energy transition, new and future energy, and Carbon Capture, Utilisation, and Storage (CCUS). More than 300 technical papers representing 86 organisations and 34 countries will be presented in over 40 technical sessions and ePosters.

An exhibition showcasing the latest advancements, innovations, achievements in upstream exploration and production, as well as recent digital and future energy initiatives will complement the event. It will be a great time for us to network with the 3,500+ energy professionals from 1,000 organisations and 50 countries expected to participate at the conference.

IPTC 2023 is also proud to support our younger generation with energy education programmes designed for university students and teachers, as well as an Emerging Leaders Workshop for young professionals. We hope that you will take this unique opportunity to engage and collaborate with top energy leaders, gain new ideas, and explore innovative solutions at the conference.

See you in Bangkok, Thailand this coming 1 – 3 March 2023.



Adif Zulkifli IPTC Board of Directors Chairman Executive Vice President & Chief Executive Officer Upstream PETRONAS



Krairit Euchukanonchai IPTC 2023 Honourable Advisor Chairman, Board of Directors PTT Exploration and Production Public Company Limited



Montri Rawanchaikul IPTC 2023 Executive Committee Chair Chief Executive Officer PTT Exploration and Production Public Company Limited



MESSAGE FROM COMMITTEE LEADERSHIP



Piya Sukhumpanumet IPTC 2023 Conference Programme Committee Chair Executive Vice President International Production Asset Group PTT Exploration and Production Public Company Limited



Kanita Sartwattayu IPTC 2023 Conference Programme Committee Vice-Chair Executive Vice President Domestic Production Asset Group PTT Exploration and Production Public Company Limited



Hasliza Othman IPTC 2023 Conference Programme Committee Vice-Chair Senior Vice President Malaysia Assets, Upstream Business PETRONAS



Aminuddin Said IPTC 2023 Conference Programme Committee Vice-Chair Director of Sales and Marketing East Asia SLB



Chayong Borisuitsawat IPTC 2023 Host Committee Chair Executive Vice President Strategy and Sustainable Growth Group PTT Exploration and Production Public Company Limited



Adisorn Smathimanant IPTC 2023 Development Activities Chair Senior Vice President Human Resources Division PTT Exploration and Production Public Company Limited

IPTC SPONSORING SOCIETIES

Founded in 2005, the International Petroleum Technology Conference (IPTC) is the flagship multidisciplinary technical event in the Eastern Hemisphere and is a collaborative effort among four of the industry's leading non-profit professional associations; the American Association of Petroleum Geologists (AAPG), the European Association of Geoscientists and Engineers (EAGE), the Society of Exploration Geopsychists (SEG) and the Society of Petroleum Engineers (SPE).

The mission of IPTC is to disseminate knowledge across the energy exploration and production industry, showcasing new and current technology, and best practices across multiple disciplines, emphasising the importance of collaboration to identify and deploy innovative solutions to maximise asset value.

Income from this event is invested back into IPTC's energy education programmes and the sponsoring societies' programmes that provide opportunities for industry professionals to enhance their professional and technical competence.



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: <u>www.eage.org</u>



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: <u>www.spe.org</u>



IPTC BOARD OF DIRECTORS

The IPTC Board of Directors was formed in June 2010 to oversee the management of IPTC. The Board is made up of members elected from IPTC's four organising societies.



Adif Zulkifli Chairman Executive Vice President & Chief Executive Officer Upstream PETRONAS Society of Petroleum Engineers



Pinar O. Yilmaz Vice Chairman American Association of Petroleum Geologists



Pascal Breton Treasurer Head of CSTJF Comms and Tech Marketing Department TotalEnergies European Association of Geoscientists and Engineers



Check out our list of Board members https://2023.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 provide guidance on key themes and counsel to the organising committees on the direction and focus of the programmes and activities.



Krairit Euchukanonchai Honourable Advisor Chairman, Board of Directors PTT Exploration and Production Public Company Limited



Montri Rawanchaikul Chair Chief Executive Officer PTT Exploration and Production Public Company Limited

EXECUTIVE COMMITTEE

Members

Matthew Penn Senior Vice President Subsea Asia Pacific Aker Solutions

Chaiwat Muncharoen Chief Executive Officer APICO LLC

John McCreery Director Balmoral & Company

Graham Gillies President, Asia Pacific Baker Hughes

Patrick Schorn Chief Executive Officer Borr Drilling

Qing Xu Vice President Geoscience Asia Pacific CGG

Chatit Huayhongtong President Chevron Thailand Exploration and Production Ltd.

Dou Lirong President Research Institute of Petroleum and Development China National Petroleum Corporation

Lisa Rae Bruner President ConocoPhillips Malaysia

Ramanrao Abdullah Group Chief Executive Officer Deleum Berhad

Egon van der Hoeven Senior Vice President Business Development **ExxonMobil Cepu Ltd.**

Joe D. Rainey President Eastern Hemisphere Halliburton

Zhiyong Zhao Vice President, Asia **Hess**

Kenneth Gerard Pereira Managing Director Hibiscus Petroleum Koji Yamamoto

Vice President Japan Oil, Gas and Metals National Corporation (JOGMEC)

Yasuhiko Kotera Executive Officer and General Manager Digital Transformation Department JX Nippon Oil & Gas Exploration Corporation

Tony Pink Vice President, Subsurface Energy Technologies NOV

Pawut U-Thasoontorn President Palang Sophon Ltd.

Mohamad Hanif Hashim General Manager **Petrofac**

Adif Zulkifli Executive Vice President & Chief Executive Officer Upstream PETRONAS

Natruedee Khositaphai Executive Vice President Technology and Carbon Solutions Group PTT Exploration and Production Public Company Limited

Waleed A. Al-Mulhim Executive Director Petroleum Engineering and Development Saudi Aramco

Lee Meng Keong President, East Asia SLB

Ivan Tan Executive Vice President, Wells Shell

Kean Peoh Lim Country General Manager Technip Energies

Federico Medrano Senior Vice President International Operations Weatherford

John Popovic Senior Director Project Delivery and Project Services Southeast Asia Worley

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PROGRAMME AND HOST COMMITTEE

Programme Committee

The Conference Programme Committee is responsible for developing the scope and topics of the conference's technical programme, and is made up of technical experts from the energy industry.



Piya Sukhumpanumet Chair Executive Vice President International Production Asset Group PTT Exploration and Production Public Company Limited



Hasliza Othman Vice-Chair Senior Vice President Malaysia Assets, Upstream Business PETRONAS



Access the full list of Programme Committee members https://2023.iptcnet.org/committees/programme-committee

Host Committee

The Host Committee collaborates with IPTC to deliver on the conference's protocol, publicity and special functions.



Chayong Borisuitsawat Chair Executive Vice President Strategy and Sustainable Growth Group PTT Exploration and Production Public Company Limited



Access the full list of Host Committee members https://2023.iptcnet.org/committees/host-committee



Kanita Sartwattayu Vice-Chair Executive Vice President Domestic Production Asset Group PTT Exploration and Production Public Company Limited



Aminuddin Said Vice-Chair Director of Sales and Marketing East Asia SLB

DEVELOPMENT ACTITIVITIES AND AWARD COMMITTEES

Development Activities Committee

The Development Activities Committee is responsible for the planning and development of energy education and young professional programmes, namely the Energy Education University Student Programme, Energy Education Workshop for teachers, and the Emerging Leaders Workshop.





Adisorn Smathimanant Chair Senior Vice President Human Resources Division PTT Exploration and Production Public Company Limited

Zhiyong Zhao Vice-Chair Vice President, Asia **Hess**



Siwanath Wetchasart Vice-Chair Country Lead, Thailand Baker Hughes



Access the full list of Development Activities Committee members https://2023.iptcnet.org/committees/development-activities-committee

Award Committee

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



David Blanchard Chair President WTM Energy Inc



Access the full list of Awards Committee members https://2023.iptcnet.org/committees/award-committee





HOST ORGANISATION



DIAMOND SPONSOR



Closing Session Sponsor and Energy Education University Co-Sponsor

GENERAL SPONSORS



Lanyards Sponsor



Gold Sponsor



Conference Session Rooms and ePoster Sessions Sponsor



Silver Sponsor and Energy Education University Co-Sponsor



IPTCafé Sponsor



Energy Education Workshop Co-Sponsor



Silver Sponsor



Meeting Pods Sponsor



Conference Luncheon - Day 2 (2 March) Sponsor



Conference Water Bottles and Stations Sponsor

HALLIBURTON

Silver Sponsor

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SCHEDULE OF EVENTS

Monday, 27 Febr	ruary 2023	
1200 - 2100 hours	Exhibitor Registration	Foyer, Level 22
1200 - 2100 hours	Exhibitor Move-In and Setup	BCC Hall A & B, Level 22
Tuesday, 28 Febr	ruary 2023	
0900 - 1800 hours	Exhibition Move-In	BCC Hall A & B, Level 22
0900 - 1800 hours	Registration	Foyer, Level 22
0900 - 1800 hours	Speaker/Author Check-In and Presentation Check	Lotus Suite 9, Level 22
Wednesday, 1 M		
0800 - 1930 hours	Registration	Foyer, Level 22
0800 - 1730 hours	Speaker/Author Check-In and Presentation Check	Lotus Suite 9, Level 22
	IPTC Society Presidents Panel Session	Lotus Suite 1-2, Level 22
0900 - 1030 hours	Technical Session 1: Innovation and Machine Learning I	Lotus Suite 3-4, Level 22
0900 - 1030 hours	Technical Session 2: Production Engineering: Stimulation	Lotus Suite 5-6, Level 22
0900 - 1030 hours	5	Lotus Suite 7, Level 22
0900 - 1030 hours	Technical Session 4: Project Management and Value Engineering	Lotus Suite 10, Level 22
0900 -1030 hours	Technical Session 5: Optimisation of Well Planning and Execution Drilling	Lotus Suite 11, Level 22
1000 - 1900 hours	Exhibition	BCC Hall A & B, Level 22
1030 - 1100 hours	Knowledge Sharing ePoster Session 1 and Coffee Break	BCC Hall A & B, Level 22
1100 - 1230 hours	IPTC Excellence in Project Integration Award Session	Lotus Suite 1-2, Level 22
1100 - 1230 hours	Technical Session 6: Geophysical Imaging and Inversion	Lotus Suite 3-4, Level 22
1100 - 1230 hours	Technical Session 7: Flow Assurance	Lotus Suite 5-6, Level 22
1100 - 1230 hours	Technical Session 8: Green Technology and Future Energy	Lotus Suite 7, Level 22
1100 - 1230 hours	Technical Session 9: Engineering, Construction and Commissioning	Lotus Suite 10, Level 22
1100 - 1230 hours	Technical Session 10: Optimisation of Well Planning and Execution Completions	Lotus Suite 11, Level 22
1100 - 1230 hours	Ask the Expert Session 1: The Dual Challenge - Energy and Environment	Lotus Suite 12, Level 22
1230 - 1400 hours	Conference Luncheon	Delegates Bar & Pre- Function Area, Level 22
1300 - 1400 hours	Knowledge Sharing ePoster Session 2	BCC Hall A & B, Level 22
1400 - 1530 hours	Opening Ceremony and IPTC Excellence in Project Integration Award Presentation	World Ballroom, Level 23
1530 - 1630 hours	Knowledge Sharing ePoster Session 3 and Coffee Break	BCC Hall A & B, Level 22
1630 - 1800 hours	Executive Plenary I: Balancing the Energy Landscape through Innovation and Sustainability	World Ballroom, Level 23
1730 - 1930 hours	Welcome Reception hosted by PTTEP	BCC Hall A & B, Level 22

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SCHEDULE OF EVENTS

Thursday, 2 March 2023

Thursday, 2 Mar	Thursday, 2 March 2023				
0800 - 1730 hours	Registration	Foyer, Level 22			
0800 - 1730 hours	Speaker/Author Check-In and Presentation Check	Lotus Suite 9, Level 22			
0830 - 1600 hours	Emerging Leaders Workshop	World Ballroom A, Level 22			
0900 - 1030 hours	Panel Session 1: Reinventing the Oil and Gas Value Chain amidst the Energy Transition	World Ballroom B & C, Level 23			
0900 - 1030 hours	Technical Session 11: IOR/EOR Field Applications	Lotus Suite 1-2, Level 22			
0900 - 1030 hours	Technical Session 12: Petroleum System Elements and Future Potential	Lotus Suite 3-4, Level 22			
0900 - 1030 hours	Technical Session 13: Artificial Lift	Lotus Suite 5-6, Level 22			
0900 - 1030 hours	Technical Session 14: IR 4.0 Adoption	Lotus Suite 7, Level 22			
0900 - 1030 hours	Technical Session 15: Facilities Engineering and Processing	Lotus Suite 10, Level 22			
0900 - 1030 hours	Technical Session 16: Challenges in Well Construction	Lotus Suite 11, Level 22			
0900 - 1030 hours	Ask the Expert Session 2: Accelerating CCUS through Data and Machine Learning to Support Net-Zero Goals	Lotus Suite 12, Level 22			
1000 - 1800 hours	Exhibition	BCC Hall A & B, Level 22			
1030 - 1100 hours	Knowledge Sharing ePoster Session 4 and Coffee Break	BCC Hall A & B, Level 22			
1100 - 1215 hours	Executive Plenary Session II: A New Energy Future	World Ballroom B & C, Level 23			
1215 - 1245 hours	Address by Conference Luncheon Sponsor: ExxonMobil	World Ballroom B & C, Level 23			
1245 - 1400 hours	Conference Luncheon sponsored by ExxonMobil	Delegates Bar & Pre- Function Area, Level 22			
1330 - 1400 hours	Knowledge Sharing ePoster Session 5 and Coffee Break	BCC Hall A & B, Level 22			
1400 - 1530 hours	Panel Session 2: Achieving Carbon Neutrality: The Sustainability Journey	World Ballroom B & C, Level 23			
1400 - 1530 hours	Panel Session 3: The Energy Workforce of Tomorrow	Lotus Suite 1-2, Level 22			
1400 - 1530 hours	Technical Session 17: Regional Tectonics, Structures and Stratigraphy	Lotus Suite 3-4, Level 22			
1400 - 1530 hours	Technical Session 18: Geoscience Modelling I	Lotus Suite 5-6, Level 22			
1400 - 1530 hours	Technical Session 19: CCS Strategy and Studies	Lotus Suite 7, Level 22			
1400 - 1530 hours	Technical Session 20: Asset Life Cycle Maintenance and Integrity	Lotus Suite 10, Level 22			
1400 - 1530 hours	Technical Session 21: Challenges in Well Completion	Lotus Suite 11, Level 22			
1530 - 1600 hours	Knowledge Sharing ePoster Session 6 and Coffee Break	BCC Hall A & B, Level 22			
1600 - 1730 hours	Panel Session 4: CCUS: Prospects and Technologies	World Ballroom B & C, Level 23			
1600 - 1730 hours	Technical Session 22: Reservoir Management	Lotus Suite 1-2, Level 22			
1600 - 1730 hours	Technical Session 23: Innovation and Machine Learning II	Lotus Suite 3-4, Level 22			
1600 - 1730 hours	Technical Session 24: Fluids and Cementing	Lotus Suite 5-6, Level 22			
1600 - 1730 hours	Technical Session 25: Considerations for Environmental Challenges	Lotus Suite 7, Level 22			
1600 - 1730 hours	Technical Session 26: Operation Facility Management	Lotus Suite 10, Level 22			
1600 - 1730 hours	Technical Session 27: Well Integrity and Well Intervention	Lotus Suite 11, Level 22			

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SCHEDULE OF EVENTS

Friday, 3 March 2023			
0800 - 1700 hours	Registration	Foyer, Level 22	
0800 - 1630 hours	Speaker/Author Check-In and Presentation Check	Lotus Suite 9, Level 22	
0830 - 1530 hours	Energy Education Workshop	World Ballroom A, Level 23	
0900 - 1030 hours	Panel Session 5: Towards a Human-centric Al Collaborative Ecosystem: A Holistic Approach	World Ballroom B & C, Level 23	
0900 - 1030 hours	Technical Session 28: IOR/EOR Studies	Lotus Suite 1-2, Level 22	
0900 - 1030 hours	Technical Session 29: Geophysical Data Acquisition, Processing and Interpretation	Lotus Suite 3-4, Level 22	
0900 - 1030 hours	Technical Session 30: Integrated Reservoir Engineering	Lotus Suite 5-6, Level 22	
0900 - 1030 hours	Technical Session 31: Challenges of CCS Development in Brownfield Assets	Lotus Suite 7, Level 22	
0900 - 1030 hours	Technical Session 32: Sustainability Design and Operation	Lotus Suite 10, Level 22	
0900 - 1030 hours	Technical Session 33: Well Data Analytics and Automation	Lotus Suite 11, Level 22	
0900 - 1030 hours	Ask the Expert Session 3: Introduction to CO2 Storage Resources Management System (SRMS)	Lotus Suite 12, Level 22	
1000 - 1700 hours	Exhibition	BCC Hall A & B, Level 22	
1030 - 1100 hours	Knowledge Sharing ePoster Session 7 and Coffee Break	BCC Hall A & B, Level 22	
1100 - 1230 hours	Panel Session 6: Revitalising Late Life Assets, Mature Fields and Aging Facilities	World Ballroom B & C, Level 23	
1100 - 1230 hours	Technical Session 34: Reservoir Studies/Simulation	Lotus Suite 1-2, Level 22	
1100 - 1230 hours	Technical Session 35: CCS and Contaminants	Lotus Suite 3-4, Level 22	
1100 - 1230 hours	Technical Session 36: Geoscience Modelling II	Lotus Suite 5-6, Level 22	
1100 - 1230 hours	Technical Session 37: Big Data Applications and Al	Lotus Suite 7, Level 22	
1100 - 1230 hours	Technical Session 38: Well Conformance	Lotus Suite 10, Level 22	
1100 - 1230 hours	Technical Session 39: Advancements in Drilling Technology	Lotus Suite 11, Level 22	
1100 - 1230 hours	Ask the Expert Session 4: Role of Geoscience in the Energy Transition	Lotus Suite 12, Level 22	
1230 - 1400 hours	Conference Luncheon	Delegates Bar & Pre- Function Area, Level 22	
1400 - 1530 hours	Technical Session 40: Unconventional Development, Stimulation, Drilling and Completion	Lotus Suite 1-2, Level 22	
1400 - 1530 hours	Technical Session 41: Petrophysics and Formation Evaluation	Lotus Suite 3-4, Level 22	
1400 - 1530 hours	Technical Session 42: Integrated Reservoir Geoscience	Lotus Suite 5-6, Level 22	
1400 - 1530 hours	Technical Session 43: Carbon Footprint Reduction	Lotus Suite 7, Level 22	
1400 - 1530 hours	Technical Session 44: Well Integrity and Production Monitoring	Lotus Suite 10, Level 22	
1400 - 1530 hours	Technical Session 45: Advancements in Completion Technology	Lotus Suite 11, Level 22	
1345 - 1430 hours	IPTC 2024 Launch Session	World Ballroom B & C, Level 23	
1400 - 1600 hours	Panel Session 7: Fuels of the Future	World Ballroom B & C, Level 23	
1600 - 1630 hours	IPTC 2023 Energy Education Programme Recognition Session sponsored by Saudi Aramco	World Ballroom B & C, Level 23	
1630 - 1900 hours	Exhibition Move-Out	BCC Hall A & B, Level 22	

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CONFERENCE PROGRAMME SCHEDULE

\backslash	Time	World Ballroom A-C, Level 23	World Ballroom B-C, Level 23	World Ballroom A, Level 23	Lotus Suite 1-2, Level 22	Lotus Suite 3-4, Level 22	Lotus Suite 5-6, Level 22	Lotus Suite 7, Level 22	Lotus Suite 10
	0900-1030 hours				IPTC Society Presidents Panel Session	Technical Session 1 Innovation and Machine Learning I	Technical Session 2 Production Engineering: Stimulation	Technical Session 3 Overarching Themes	Technical Se Project Manage Value Engin
	1030-1100 hours				Knowledge S	haring ePoster Session 1 and	Coffee Break - BCC Hall A & B, L	evel 22	
RCH	1100-1230 hours				Excellence in Project Integration Award Session	Technical Session 6 Geophysical Imaging and Inversion	Technical Session 7 Flow Assurance	Technical Session 8 Green Technology and Future Energy	Technical Se Engineering, Cons Commissio
MA	1230-1400 hours			Conference Luncheon - Delegates Bar & Pre-Function Area, Level 22					
۲, ۱	1300-1400 hours				Knov	wledge Sharing ePoster Sessi	on 2 - BCC Hall A & B, Level 22		
WEDNESDAY, 1 MARCH	1400-1530 hours	Opening Ceremony & Award Presentation							
ME	1530-1630 hours				Knowledge S	haring ePoster Session 3 and	Coffee Break - BCC Hall A & B, L	evel 22	
	1630-1800 hours	Executive Plenary I Balancing the Energy Landscape through Innovation and Sustainability							
	1730-1900 hours				Weld	come Reception hosted by PT	TEP - BCC Hall A & B, Level 22		
	0900-1030 hours		Panel Session 1 Reinventing the Oil and Gas Value Chain amidst the Energy Transition		Technical Session 11 IOR/EOR Field Applications	Technical Session 12 Petroleum System Elements and Future Potential	Technical Session 13 Artificial Lift	Technical Session 14 IR 4.0 Adoption	Technical Se Facilities Eng and Proce
	1030-1100 hours				Knowledge S	haring ePoster Session 4 and	Coffee Break - BCC Hall A & B, L	evel 22	
E	1100-1215 hours		Executive Plenary II A New Energy Future						
MAR	1215-1245 hours		Address by Conference Luncheon Sponsor: ExxonMobil						
Υ, 2	1245-1400 hours			Emerging Leaders Workshop	Conference Lunche	on sponsored by ExxonMobi	- Delegates Bar & Pre-Function	Area, Level 22	
SDA	1330-1400 hours			Young Leaders' Roadmap Towards Energy Transition	Knowledge S	haring ePoster Session 5 and	Coffee Break - BCC Hall A & B, L	evel 22	
THURSDAY, 2 MARCH	1400-1530 hours		Panel Session 2 Achieving Carbon Neutrality: The Sustainability Journey	and Beyond	Panel Session 3 The Energy Workforce of Tomorrow	Technical Session 17 Regional Tectonics, Structures and Stratigraphy	Technical Session 18 Geoscience Modelling I	Technical Session 19 CCS Strategy and Studies	Technical Se Asset Life Maintenance an
	1530-1600 hours		•		Knowledge S	haring ePoster Session 6 and	Coffee Break - BCC Hall A & B, L	evel 22	
	1600-1730 hours		Panel Session 4 CCUS: Prospects and Technologies		Technical Session 22 Reservoir Management	Technical Session 23 Innovation and Machine Learning II	Technical Session 24 Fluids and Cementing	Technical Session 25 Considerations for Environmental Challenges	Technical Se Operation Facility I
	0900-1030 hours		Panel Session 5 Towards a Human-centric Al Collaborative Ecosystem: A Holistic Approach		Technical Session 28 IOR/EOR Studies	Technical Session 29 Geophysical Data Acquisition, Processing and Interpretation	Technical Session 30 Integrated Reservoir Engineering	Technical Session 31 Challenges of CCS Development in Brownfield Assets	Technical Se Sustainability and Opera
	1030-1100 hours				Knowledge S	haring ePoster Session 7 and	Coffee Break - BCC Hall A & B, L	evel 22	
£	1100-1230 hours		Panel Session 6 Revitalising Late Life Assets, Mature Fields and Aging Facilities		Technical Session 34 Reservoir Studies/Simulation	Technical Session 35 CCS and Contaminants	Technical Session 36 Geoscience Modelling II	Technical Session 37 Big Data Applications and Al	Technical Se Well Confor
AAR	1230-1400 hours			Energy Education Workshop	Confe	rence Luncheon - Delegates B	ar & Pre-Function Area, Level 22		
FRIDAY, 3 MARCH	1345-1430 hours		IPTC 2024 Launch Session Sponsored by Saudi Aramco						
FRID	1400-1530 hours				Technical Session 40 Unconventional Development, Stimulation, Drilling and Completion	Technical Session 41 Petrophysics and Formation Evaluation	Technical Session 42 Integrated Reservoir Geoscience	Technical Session 43 Carbon Footprint Reduction	Technical Se Well Integri Production Me
	1430-1600 hours		Panel Session 7 Fuels of the Future						
	1600-1630 hours		Energy Education Programme Recognition Session		Closing	Session sponsored by Saudi A	ramco - World Ballroom, Level 2	23	
	Geoscier	ice	rface Operations (Upstream Nidstream Gas	to Midstream) Su		rated Reservoir Engineering eoscience	Overarching The	mes Opening / P	Plenary Session
/17	Drilling a	and Completions Pro	oduction Engineering	Re	eservoir IR 4.0		Unconventional	Panel Sessio	n

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0, Level 22	Lotus Suite 11, Level 22	Lotus Suite 12, Level 22
ession 4 ement and neering	Technical Session 5 Optimisation of Well Planning and Execution Drilling	
ession 9 Istruction and Ioning	Technical Session 10 Optimisation of Well Planning and Execution Completions	Ask the Expert Session 1: The Dual Challenge - Energy and Environment
e ssion 15 gineering essing	Technical Session 16 Challenges in Well Construction	Ask the Expert Session 2: Accelerating CCUS through Data and Machine Learning to Support Net-Zero Goals
ession 20 Cycle nd Integrity	Technical Session 21 Challenges in Well Completion	
ession 26 Management	Technical Session 27 Well Integrity and Well Intervention	
ession 32 cy Design ration	Technical Session 33 Well Data Analytics and Automation	Ask the Expert Session 3: Introduction to CO ₂ Storage Resources Management System (SRMS)
ession 38 rmance	Technical Session 39 Advancements in Drilling Technology	Ask the Expert Session 4: Role of Geoscience in the Energy Transition
ession 44 rity and lonitoring	Technical Session 45 Advancements in Completion Technology	

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Special Programme

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OPENING CEREMONY AND AWARD PRESENTATION

Opening Ceremony

The Opening Ceremony will feature a ministerial address by H.E. Supattanapong Punmeechaow, Deputy Prime Minister and Minister of Energy, Thailand, welcome remarks by Adif Zulkifli, IPTC Board Chairman and Executive Vice President & CEO, Upstream of PETRONAS, and Montri Rawanchaikul, IPTC 2023 Executive Committee Chairman and Chief Executive Officer of PTT Exploration and Production Public Company Ltd PTTEP).



H.E. Supattanapong Punmeechaow Deputy Prime Minister and Minister of Energy Thailand



Adif Zulkifli IPTC Board of Directors Chairman Executive Vice President & Chief Executive Officer Upstream PETRONAS



Montri Rawanchaikul IPTC 2023 Executive Committee Chair Chief Executive Officer PTT Exploration and Production Public Company Limited

IPTC Excellence in Project Integration Award

The IPTC committees and sponsoring societies believe in recognising projects that have demonstrated distinction throughout the entire exploration and 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, and a positive impact on the country, the region and the world.

The 15th IPTC Excellence in Project Integration Award recipient will be announced during the Opening Ceremony.

EXECUTIVE PLENARIES

Executive Plenary Session I:

Balancing the Energy Landscape through Innovation and Sustainability Wednesday, 1 March 2023 | 1630-1800 hours

Speakers



Montri Rawanchaikul Chief Executive Officer PTT Exploration and Production Public Company Limited



Jeff Miller President and Chief Executive Officer Halliburton



Adif Zulkifli Executive Vice President & Chief Executive Officer Upstream PETRONAS



Mazin Al Lamki Chief Executive Officer Energy Development Oman



John Anis President Director Pertamina Internasional EP



Nicolas Terraz President Exploration & Production TotalEnergies

Executive Plenary Session II: A New Energy Future

Thursday, 2 March 2023 | 1100-1215 hours

Speakers



Charn Kulpatnirun Executive Vice President New Venture Development PTT Public Company Limited



Amy Chua President, Asia Basin **SLB**



Laure Mandrou Senior Vice President Carbon-Free Solutions Business Line Technip Energies



Jarand Rystad Chief Executive Officer Rystad Energy



Irtiza Sayyed President, Asia Pacific ExxonMobil Lower Carbon Solutions

/20

IPTC Society Presidents Panel Session

Jean-Marc

Rodriguez

President

EAGE

Wednesday, 1 March 2023 | 0900-1030 hours

Speakers



Steven Goolsby President AAPG

Moderator



Mike Gunningham IPTC Board of Directors Chief Production Technologist SGS Subsurface Consultancy

The presidents of IPTC's four sponsoring societies, the American Association of Petroleum Geologists (AAPG); the European Association of Geoscientists & Engineers (EAGE); the Society of Exploration Geophysicists (SEG); and the Society of Petroleum Engineers (SPE) will share their perspectives on industry trends and technologies that are shaping the future of the energy landscape.



Ken Tubman President SEG



Med Kamal 2023 President SPE

Panel Session 1

Reinventing the Oil and Gas Value Chain amidst the Energy Transition Thursday, 2 March 2023 | 0900-1030 hours

Speakers



Matthew Penn Senior Vice President Subsea Asia Pacific Aker Solutions



Ramanrao Abdullah Group Chief Executive Officer **Deleum Berhad**



Kanita Sartwattayu Executive Vice President Domestic Production Assett Group PTT Exploration and Production **Public Company** Limited

Session Managers



Fatemeh Mehran Asia Pacific Industry Solution Advisor Halliburton



Kamel **Ben-Naceur Chief Executive** Officer Nomadia Energy



Mohd. Redhani Abdul Rahman Vice President of Exploration Upstream PETRONAS



Abdellah Merad **Executive Vice** President Core Services and Equipment SLB

Moderator



Prateek Pandey Vice President Southeast Asia Upstream Research Rystad Energy

Eric Andersen Head Geoscience Solutions **Exploration Upstream** PETRONAS

The oil and gas industry comprises of long-established sectors undergoing massive disruptions on multiple fronts. Today, the industry is in a critical situation where hydrocarbons are viewed as a risk to future life due to global warming caused by GHG emissions. As a result, many organisations have realised that real change must happen in their policy, culture, technology, and even their people's mindset to create healthy business value.

The established belief is that we cannot survive without oil and gas, and this industry will continue for decades. However, this industry must adapt its businesses toward energy transition and drive the value chain by considering emissions management.

By "Pivoting to the New", operators must apply agile business models to succeed in the future and invest in the benefits these game-changing opportunities may offer. Some operating companies are already transforming their core businesses to be hyper-efficient, while others are on a transition journey from "oil" to "energy,".

However, this transformation needs to be quick for our business to remain relevant. Disruptors have already entered the industry, so incumbents need to act faster and drive the changes society wants to see. A strategy to transform their current core business can create efficiencies to release funds to grow and scale new businesses simultaneously.

In this panel session, we will hear from top industry leaders discussing their opinions and strategies for this purpose, what they have done so far and what will be their energy transition roadmap.

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Panel Session 2

Achieving Carbon Neutrality: The Sustainability Journey

Thursday, 2 March 2023 | 1400-1530 hours

Speakers



Casey Delhotal Vice President Government Relations Low Carbon Solutions ExxonMobil

Moderators



Aidid Chee Tahir Head, Integrated Hydrocarbon Management PETRONAS



Adri Postema Director Engineering and Standards IOGP



Susama Pitakuldilog Acting Senior Vice President Sustainability and Stakeholder Management Division PTT Exploration and Production Public Company Limited



Bayan Hefzi Upstream Environmental Strategy and Policy Lead Saudi Aramco



Kahina Abdeli-Galinier Emissions Management Business Director SLB



Matt Foder Senior Vice President Innovation and New Energy Weatherford

The world is now experiencing unprecedented extreme weather events resulting from global warming – heat waves, floods, wildfires and intense typhoons. It is a clear warning sign that we should act now to move into a low-carbon future. In response to this global warming effects, 136 countries have pledged to net-zero emissions target in alignment with the COP26 commitment.

Each year, more than 35 KMTCO2e of greenhouse gas (GHG) is generated from manufacturing activities; amongst those, 42% is from oil and gas, with 9% coming from oil and gas operations (under scope 1 and 2). To address this issue, oil and gas companies have started to articulate ambitious targets to reduce GHG emissions from their operations and move towards carbon neutrality and net zero-emissions to improve resiliency and sustainability. These targets are challenging and will require oil and gas companies to turn these ambitions into actions through the concept of "Avoid-Mitigate-Offset". However, this is not an easy task as many inherent complexities are associated with the industry's decarbonisation, such as technology availability, elevated abatement costs, geographical complication, lack of monetary funds, and limited regulatory support. This also includes the unclear carbon credit schemes, which are insufficient to support decarbonisation costs by producers, and a limited platform to support the offsetting pathways of consumers.

Despite those complexities, oil and gas companies must maximise the use of all available technologies and continue to invest in technological innovation. Collaboration and synergy with companies within the value chain or adjacent business segments can provide win-win solutions to address residue emissions. There is no single technology that can provide the ideal solution; a mixture of various technologies ranging from renewable energy, methane emission reduction, gas flaring and venting, CCUS, and future technologies such as hydrogen and hydrogen fusion, is necessary to effectively contribute to decarbonisation and our net-zero aspiration.

Given the economics and technical challenges for decarbonisation, we believe that starting now - without delay - will lead to a better outcome for the industry in this energy transition.

This panel session aims to discuss the strategic directions and critical drivers towards carbon neutrality, including net-zero, complemented with practical implementations in emissions reduction projects.

Panel Session 3 The Energy Workforce of Tomorrow Thursday, 2 March 2023 | 1400-1530 hours

Speakers



Siwanath Wetchasart Human Resource Business Partner Asia Pacific Baker Hughes

Moderators



Ronnarong





Farehana Hanapiah Senior Vice President Human Resource Management PETRONAS



Chayong Borisuitsawat Executive Vice President Strategy and Sustainable Growth Group PTT Exploration and Production Public Company Limited



Henricus Herwin Vice President Upstream Business Development PT Pertamina Hulu Energi

Asheesh Sastry Managing Director and Senior Partner BCG

Maylada Chayavadhanangkur Vice President Myanmar Commercial and Planning Department PTT Exploration and Production Public Company Limited

As the world is moving towards lower carbon energy, the oil and gas industry plays a vital role in this energy transition. It will change how the industry operates and bring new types of energy and technologies to support business demand. At the same time, our industry needs to attract and retain both the traditional and a new energy workforce for the future.

This energy transition is underpinned by an industry-wide adoption of new, lower-carbon technologies, evolving societal expectations for businesses, the changing demographic profile of future talent, and the importance of reliable and affordable energy for all. These aspects create a fundamental disruption, not just a matter of doing things differently, but one that will also demand new ways of thinking and operating. The mindset is not either-or but a balanced mix of energy that will sustainably provide the world with lower-carbon, reliable and affordable energy.

The challenge for oil and gas companies is defining the right ways to embrace the energy transition and having the right workforce to support it. This panel discussion will explore several topics such as:

- The role of oil and gas companies in the future and how does that redefine our workforce of tomorrow?
- What are some of the most important traits we expect from the future workforce?
- How can we develop a diverse organisation that can effectively navigate energy transition by reducing the knowledge gap between traditional wisdom and the next generation of talents?
- What are the industry's priorities to prepare, develop and maintain our attractiveness for the future workforce?
- How can we continue to pursue and champion diversity and inclusion in the transition and the future?

A diverse and highly talented workforce has powered our industry, but the future landscape is now changing, and so must we.



Panel Session 4 **CCUS: Prospects and Technologies** Thursday, 2 March 2023 | 1600-1730 hours

Speakers





Linda Stalker Senior Principal Research Scientist **CSIRO**

Yoshihiro Sawada **Corporate Advisor** and General Manager of International

Japan CCS Co., Ltd.



Emry Hisham Yusoff Head of Carbon Management Upstream PETRONAS Affairs Department



Koji Yamamoto Vice President Japan **Organisation for** Metals and **Energy Security**



Nopasit Chaiwanakupt Senior Vice President Carbon and Energy Solutions Division PTT Exploration and Production **Public Company** Limited



Iain Macdonald **Principal Advisor** Technical Carbon Advocacy and OGCI CCÚS Workstream Lead Shell

Moderators



Nazrin Banu Shaikh S Ahmad **Discovered Resource Arrangements** Resource Development Management PETRONAS



Yanadet Sripanich Energy Transition Lead PTT Exploration and Production Public Company Limited

The petroleum community is currently experiencing a rapidly growing interest in sustainability, where the energy landscape is anticipated to transition. Many parties within the community aim to reduce their carbon footprints via decarbonisation technologies. Among various pathways towards a low-carbon future, CCUS is deemed by many as the key answer, which builds upon the existing expertise of the petroleum community and represents an effective decarbonisation technology applicable for large-scale deployment in practice. Even though CCUS has gained a lot of attention and support from many governmental and private parties alike, there are still challenges and hurdles that we, as a community, must overcome before CCUS can be utilised to its full potential.

In this panel session, we will discuss perspectives from CCUS trailblazers and practitioners worldwide. We will reflect upon what they have learned and ponder on how we can best move forward as a community with the common goal of a sustainable energy future with CCUS in mind.

This panel session will address and discuss:

- Financial and regulatory challenges to kick-start CCUS initiatives and support their long-term operation
- Roles of carbon mechanism (such as carbon tax, credits, trading) as a potential expediter of CCUS deployment
- Challenges of CO2 sources (petroleum value chain vs. other industrial emitters) and its country of • origin (domestic vs. cross-border)
- CCUS potential and technological advancements in view of application in Asia Pacific
- Environmental roadblocks, long-term liabilities and mitigation plans •
- Notable risks and public concerns on CCUS applications
- Lessons learned and best practices from successful applications

Panel Session 5

Towards a Human-centric AI Collaborative Ecosystem: A Holistic Approach Friday, 3 March 2023 | 0900-1030 hours

Speakers



Cao Hong President of BGP CNPC



Michael Deal Vice President Research and Technology Development ExxonMobil



Thana Slanvetpan Acting Senior Vice President attached to Executive Vice President, Technology and Carbon Solutions Group seconded as General Manager for AI & Robotics Ventures (ARV) PTT Exploration and Production Public Company Limited



Umar A. Nahdi Manager, Petroleum Engineering Application Services Department Saudi Aramco



Daiye Zheng Kuala Lumpur INNOVATION FACTORI Manager SLB

Moderators



Panu Boonwattanopas Digital Manager Chevron Thailand Exploration and Production Ltd.



Suresh Sinnappu Energy Transition Director – APAC Baker Hughes

The rapid evolution of Artificial Intelligence (AI) technology has generated much excitement around its potential to enhance our daily lives. As a result, AI experts are having frequent conversations about the best ways to leverage AI in our society. The human-centred AI approach has emerged out of this dialogue. Human-centred AI is an emerging discipline intent on creating AI systems that amplify and augment rather than displace human needs while also operating transparently, delivering equitable outcomes, and respecting privacy.

Human-centred AI keeps human input at the centre of the design and building process. This approach takes advantage of the strengths of both humans and machines, enabling them to collaborate in a way that mutually reduces blind spots. Human-centred AI learns from human input and collaboration, focusing on algorithms among a more extensive, human-based system. It is defined by systems continuously improving because of human information while providing a practical experience between humans and machines.

By developing machine intelligence to understand human language, emotion and behaviour, human-centred AI pushes the boundaries of previously limited AI solutions to bridge the gap between machines and humans.

From a business standpoint, human-centred AI solutions leverage human science and qualitative data to understand the deeper needs, aspirations and drivers that underlie customer behaviours in a market.

Advanced contextual analytics combine data and human science to deliver specific behavioural information. When analytics are applied to human behaviours and choices, patterns appear. These contextual analytics combine data and human science to produce dramatically improved and personalised customer experiences. Clear, informed business strategies can be developed when companies know what their customers do and expect.

The dialogue in this session will focus on the differentiation between human-centred and autonomous AI, the business benefits of human-centred AI, and whether it should be considered as a catalyst in digital business transformation as a way forward.



Panel Session 6

Revitalising Late Life Assets, Mature Fields and Ageing Facilities Friday, 3 March 2023 | 1100-1230 hours

Speakers



Sun Fujie Vice President CNOOC





Chevron Thailand

Exploration and

Production Ltd.

President



Martin White Senior Vice President Asia Pacific Halliburton



Paul Aslett Business Development Director Petrofac Limited



Nirandorn Rojanasomsith Executive Vice President Engineering, Development and Maintenance Group PTT Exploration and Production Public Company Limited



Benjamin Choo Senior Vice President Wells Engineering and Operations Division **PTT Exploration and Production Public Company Limited** Mohamad Abu Bakar Head Resource Development – Sabah Malaysia Petroleum Management PETRONAS

The prolonged volatility and uncertainties of the oil and gas industry have significantly impacted investment decisions for new and complex field developments with high capital expenditure. Essential oil and gas industry operators have now shifted to lower capital-intensive activities in maximising asset values from existing and matured fields. Operators have also been extending production of late life assets (LLA) while reducing risks and liabilities through innovative production and decommissioning strategies. Shared learnings from current strategies and activities can be adopted to lower risk exposure of future developments.

The current industry challenges have re-energised operators and solution partners to further develop and re-invent technologies and enhance work methodologies to focus on maximising economic and reserve recovery from mature and late-life assets. Continuous improvements have been achieved in operation reliabilities, production efficiencies, production sustainability activities, idle well restoration, applications of Improved Oil Recovery (IOR) and Enhanced Oil Recovery (EOR) methods, and innovation in reducing handling costs in managing sand and water breakthrough from the reservoirs. Novel technologies for flare gas capture and carbon capture and storage (CCS) can be applied to reduce greenhouse gas (GHG) emissions to achieve our net-zero target. Innovative development, operational excellence synergies, clustering approaches, and potential re-use of the decommissioned assets are among the key focus areas that will continuously add value to existing assets, including the development of the Near Field Exploitation (NFE) opportunities in existing hubs/systems.

Mature and late-life assets carry a vast amount of valuable data to identify further opportunities in maximising field values. A lot has been spent on those data. Embracing digitalisation and technologies such as Artificial Intelligence (AI) with advanced predictive analytics, especially in the areas of asset integrity and maintenance, are key enablers for efficient decision-making of the integrated value maximisation process, and to achieve positive Health Safety and Environment (HSE) performance of the asset. However, the current reality shows that AI and advanced analytics still fall short, and companies must put effort into adopting digitalisation and AI technologies widely.

Formulating new commercial or partnership models is also crucial to sustain the appeal of late-life assets. Innovative partnerships and commercial arrangements are important to align with investor expectations in generating interest in late-life assets; starting with contrasting differences in operating environments of traditional assets compared to late-life assets, followed by discussions on available avenues to innovate commercial terms that drive business decisions.

In summary, this session will share knowledge on cost-effective methods to enhance production and reserves recovery, maximise the value of matured and late-life assets, and look at what more can be done. Embracing technological advancement, digitalisation, AI, intelligent decommissioning strategies, and deploying attractive commercial and innovative partnership models are potential breakthroughs for asset sustainability.

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Panel Session 7 Fuels of the Future Friday, 3 March 2023 | 1400-1530 hours

Speakers





Shoichi Kaganoi

Executive Officer

INPEX Corporation

Division

Vice President, Hydrogen

and CCUS Development

Li Qun Senior Specialist R&D Department CNPC

Moderators



Danuwas Lambasara Vice President Development Planning PTT Exploration and Production Public Company Limited



Ahmad Yuniarto President Director PT Pertamina Geothermal Energi



Patricia Seevam General Manager Transformation and Energy Transition BOM CCS Malaysia Shell

As the world is moving toward cleaner and more renewable energy sources and power systems, new solutions are undeniably needed to strike a proper balance in global energy production when decarbonisation has become the international interest. In recent years, the energy sector has drastically increased its focus on sustainability and resilient assets. What is more, stakeholders are increasingly calling for commitments to reduce emissions and transition planning to ensure the stability of future energy supply. Government sectors worldwide also play a more vital role in regulating and pushing their policy toward a greener spectrum, taking carbon taxes as an example. Last but most importantly, consciousness towards environmental protection is widely spreading and ultimately dictating investment decisions.

In the face of changing perspectives on fossil fuels, the petroleum E&P industry must take immediate action to prepare for the future. One immediate action observable is an increase in the shares of natural gas in investment portfolios as it is more resilient than other fossil fuels, primarily because natural gas is among the cleanest fossil fuels available. It is safe to assume that natural gas will be the last step in the energy transition. But that is never enough to keep up with the earthly trend towards greenhouse gas emission reduction. While moving towards cleaner energy, technologies and means to neutralize CO₂ emissions will soon become the norm of natural gas production operation. Carbon capture and utilisation or storage will play a significant part during this interim transition period.

Technologies to replace fossil fuels also exist today and can be perceived to become more and more focused. With a carbon-neutral society finally in sight, delivering energy at zero CO₂ emission will soon put natural gas in the minority. Indeed, the industry will move towards "Fuels of the Future".

Renewable energy and fuels like hydrogen and other carbon-neutral synthetic sources will pave the way to replace fossil fuels for power generation. Over the following decades, they will become a significant part of the global energy supply portfolio. We can expect other renewable sources like solar, wind, wave, or geothermal to become much more predominant.

It has never been more evident that the energy transition is moving towards future types of fuels. This session will cover these exciting topics, views and discussions about our energy sector's future.

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Ask the Expert Session 1: The Dual Challenge - Energy and Environment

Wednesday, 1 March 2023 | 1100-1230 hours

The world faces two important and interrelated challenges. Affordable and reliable energy for all and protecting the environment.

The energy-environment challenge is not simple, but it is solvable if we understand and address the complex fabric of energy security, scale of energy demand, physics of energy density, distribution of energy resources, interconnectedness of the land, air, water and atmosphere, and the extreme disparity in global wealth and economic health.

The truth is that there are no good and bad, clean and dirty, renewable and non-renewable energy sources. They all have benefits, and they all have challenges. Climate change is an important issue, but it is not the only environmental issue. Solar and wind are important low-carbon solutions, but they are only part of the solution.

This session will address how we must put our best minds to the task of addressing the dual challenge, working together to better the world.

Speaker



Helge Hove Haldorsen Senior Fellow Switch Energy Alliance



Ask the Expert Session 2: Accelerating CCUS through Data and Machine Learning to Support Net-Zero Goals

Thursday, 2 March 2023 | 0900-1030 hours

This session will feature speakers sharing case studies by the Coordinating Committee of Geoscience Programmes (CCOP) and Deep-Time Digital Earth nation members around the region on planning, monitoring and simulating CCUS through data and machine learning.

Topics to be discussed are:

- · Geological and engineering challenges
- Analytical aspects of CCUS
- Data management and machine learning
- Case Studies from Asia Pacific, Southeast Asia Projects
- New directions

Speakers



Mike Stephenson Director Stephenson Geoscience Consultancy



Ellya Saudale Geologist Carbon Management



Yitian Xiao Chief Artificial Intelligence Research Scientist Sinopec Research Institute



John Kaldi Professor and Former CCS Program Director University of Adelaide



Nopasit Chaiwanakupt Senior Vice President Carbon and Energy Solutions Division PTT Exploration and Production Public Company Limited



Ask the Expert Session 3: Introduction to CO₂ Storage Resources Management System (SRMS)

Friday, 3 March 2023 | 0900-1030 hours

This session aims to create awareness of the recently published Guidelines for Applications of the CO₂ Storage Resources Management System (SRMS). SRMS was developed and sponsored by the world's foremost industry-focused professional societies, including SPE, AAPG, SEG, SPWLA, EAGE, SPEE and WPC.

The SRMS guidelines include suggestions for the application of the SRMS and include details of the processes of quantification, categorisation, and classification of storable quantities of CO₂ so that the subjective nature of subsurface assessments can be consistent between storage resource assessors. The guideline was proposed in 2017, and formally accepted by the sponsoring organisations in 2021. Modelled on the Petroleum Resource Management System (PRMS), the SRMS guidelines is aimed at making the development of storage resources clearer by drawing parallels with the well-known and well-understood process of maturing petroleum resources.

Although a voluntary system, the intent is that regulators, government departments and financiers will be able to draw upon the experience of managing petroleum resources to advise on the management of carbon dioxide storage resources. Geological storage of CO₂ can be in geologic structures or in regionally extensive dipping geologic formations. Inherent in storage is that displaced fluids are managed. The storage mechanisms are geologic, residual, solubility, and mineral trapping.

Speaker



John Kaldi Professor and Former CCS Program Director **University of Adelaide**

Ask the Expert Session 4: Role of Geoscience in the Energy Transition

Friday, 3 March 2023 | 1100-1230 hours

The global energy system is perceiving progressive transformation as world leaders look to transiting into a carbon-neutral future. As such, we are facing an inflection point in the energy transition. The intensifying of the world's ambition to achieve net zero by 2050 at COP26 and the changing of geopolitical scenarios made the challenge even greater, resulting in the price of energy and other commodities to surge across the globe.

We are at the energy inflection point, and world leaders, together with industry and academia, must develop new strategies and technologies to be implemented for the pursuit of critical energy goals to remain on track. In these turbulent times, geoscientists and engineers will shape the contours of our energy future. They have a major role to play in many realities, from understanding the power of energy policy-making and new energy security challenges, developing new technologies for minimising decarbonisation costs, extracting fossil fuel while minimising the carbon impact, and developing a future-ready workforce. This session will deep-dive into the role of geoscientists and engineers in the energy transition, technological innovations and environmental concerns.

Speaker



Sanjeev Rajput Head and Custodian Reservoir Geoscience, Upstream PETRONAS



TECHNICAL AND KNOWLEDGE SHARING ePOSTER SESSIONS

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

Topics include:

- Advancements in Completion Technology
- Advancements in Drilling Technology
- Artificial Lift
- Asset Life Cycle Maintenance and Integrity
- Big Data Applications and Al
- Carbon Footprint Reduction
- CCS and Contaminants
- CCS Strategy and Studies
- Challenges in Well Completion
- Challenges in Well Construction
- Challenges of CCS Development in Brownfield Assets
- Considerations for Environmental Challenges
- Engineering, Construction and Commissioning
- Facilities Engineering and Processing
- Flow Assurance
- Fluids and Cementing
- Geophysical Data Acquisition, Processing and Interpretation
- Geophysical Imaging and Inversion
- Geoscience Modelling I
- Geoscience Modelling II
- Green Technology and Future Energy
- Innovation and Machine Learning I
- Innovation and Machine Learning II
- Integrated Reservoir Geoscience

- Integrated Reservoir Engineering
- IOR/EOR Field Applications
- IOR/EOR Studies
- IR 4.0 Adoption
- Operation Facility Management
- Optimisation of Well Planning and Execution Completions
- Optimisation of Well Planning and Execution Drilling
- Overarching Themes
- Petroleum System Elements and Future Potential
- Petrophysics and Formation Evaluation
- Production Engineering: Stimulation
- Project Management and Value Engineering
- Regional Tectonics, Structures and Stratigraphy
- Reservoir Management
- Reservoir Studies/Simulation
- Sustainability Design and Operation
- Unconventional Development, Stimulation, Drilling and Completion
- Well Conformance
- Well Data Analytics and Automation
- Well Integrity and Production Monitoring
- Well Integrity and Well Intervention



Access the full technical programme https://2023.iptcnet.org/iptc-programme-schedule

Decarbonizing industry



DEVELOPMENT ACTIVITIES

Emerging Leaders Workshop

Young Leaders Roadmap for Energy Transition and Beyond

Thursday, 2 March 2023 | 0800-1800 hours

The Emerging Leaders Workshop is a programme designed for Young Professionals (YPs) under the age of 35 or with less than 10 years of experience in the energy industry. This programme offers participants a great opportunity to network with industry experts and to discuss their perspectives on how to energise the industry.

The unique landscape of the energy transition demands a new type of leader, equipped with skills in collaboration, innovation and adaptability. The IPTC 2023 Emerging Leaders Workshop, themed "Young Leaders' Roadmap Towards Energy Transition and Beyond", is designed to establish the next generation of leaders. The workshop aims to cover the hard and soft skills necessary for a sustainable transition, how existing skillsets might be repurposed, and what role E&P leaders will play in a net-zero world. During the workshop, young professionals and industry experts will have the opportunity to exchange views, collaborate and contribute towards the roadmap, while senior leaders will share their knowledge and wisdom with attendees. Finally, the workshop will provide a timely opportunity for participants from various backgrounds and disciplines to exchange their experiences and to network.

Opening Remarks



00+

participants

countries

PTT Exploration and Production

Keynote Address



Amy Chua President, Asia SI R

PRELIMINARY AGENDA

0800 – 0830 hours	Arrival of Delegates
0830 – 0845 hours	Welcome Remarks
0845 – 0900 hours	Opening Remarks
0900 – 0945 hours	Keynote Address and Q&A
0945 – 1015 hours	Ice Breaker
1015 – 1100 hours	Group Photo and Coffee Bre
1100 – 1230 hours	Panel Session: Reshaping the
	Future Together
1230 – 1400 hours	Lunch
1400 – 1615 hours	Mentoring Session
1615 – 1630 hours	Closing Remarks
1630 – 1800 hours	Networking Reception

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Access full programme

hours of networking

https://2023.iptcnet.org/development-programmes/emerging-leaders-workshop

organisations

speakers and mentors

SEATS ARE LIMITED | Register before 23 January 2023 for Early Bird Savings



DEVELOPMENT ACTIVITIES

Energy Education: University Student Programme

Monday to Friday, 27 February - 3 March 2023

At each IPTC event, final-year undergraduate science, geoscience and engineering students from around the world are invited to participate in IPTC's Energy Education activities. This programme aims to give university students a clear insight into the industry they are about to join; to allow them to return to their universities and colleges with a positive story to relate to their fellow students and to provide opportunities for students to form new friendships. The programme also provides students with the opportunity to interact with a number of major industry employers who are looking to recruit the best talent from institutions around the world.

PRELIMINARY PROGRAMME

Monday, 27 February 2023 Students Arrival, Briefing, and Welcome Dinner

Tuesday, 28 February 2023 Field Trip to PTTEP Technology and Innovation Center (PTIC)

Wednesday, 1 March 2023 Attend IPTC 2023 Conference Sessions

Thursday, 2 March 2023 Attend Emerging Leaders Workshop

Friday, 3 March 2023 Attend Energy Education Workshop and Closing Session



Access full programme https://2023.iptcnet.org/development-programmes/energy-education

Energy Education Workshop: Energy4Me

Friday, 3 March 2023

The Energy Education Workshop aims to deliver educational resources to educators by providing appropriate, age-specific curriculum materials and industry career recruitment materials. The programme values the roles teachers and energy professionals play in educating young people about the importance of energy and believes in the importance of giving teachers the tools they need to comfortably teach students on energy choices and careers. There will be hands-on activities to provide educators with interactive, age-appropriate experiments, using basic household items that illustrate energy concepts. Teachers will also be provided with a technology tour of the exhibition area, allowing them to explore the mechanisms behind some of the key processes in oil and gas exploration and production and connect them to Science, Technology, Engineering and Mathematics (STEM) subjects they teach.



Access full programme https://2023.iptcnet.org/development-programmes/energy-education-workshop



TRAINING COURSES



Basics of CCUS

Tuesday, 28 February 2023 | 0900 - 1700 hours

Course Instructor: Professor Mike Stephenson, Director, Stephenson Geoscience Consulting

Course Objectives

This course aims to provide attendees with the basics of CCS within the context of earth system science. Key topics are:

- The role of CCS within decarbonisation as an aspect of earth system science
- Why CCS is necessary
- How CO₂ is captured in industrial processes and how it can be used industrially
- The factors affecting geological storage
- How CO2 stores are monitored for leakage
- How CCS will pay for itself
- Public views and public acceptance of CCUS



Click Here for more information



SOCIETY OF EXPLORATION GEOPHYSICISTS

Seismic Uncertainty Evaluation

27 - 28 February 2023 | 0900 – 1700 hours

Course Instructor: Manish Agarwal, Founder and Principal Geophysicist, **Applied Geoscience**

Course Objectives

The course covers the assessment, quantification, and qualification of the seismic uncertainties in a systematic and technical manner in order to arrive at a risking scorecard. This course is beneficial to interpreters in supporting a phased approach to ensure seismic and interpretation leading to a successful well placement.



Click Here for more information



ASSOCIATION OF GEOSCIENTISTS & ENGINEERS

Upscaling and Artificial Intelligence-Based Proxies for Uncertainty Assessment of Reservoir Production

Tuesday, 28 February 2023 | 0900 – 1700 hours

Course Instructor: Dr. Dominique Guérillot, Professor, Texas A&M University

Course Objectives

This course aims to recap main techniques required to build an integrated reservoir model, and to explain different potential workflows for field development and/or history matching processes. This course will include explanations of upscaling techniques and the use of proxies for uncertainty assessment of production forecasts. All these methods will be illustrated and applied to the Brugge case.

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Click Here for more information https://learninggeoscience.org/local/pages/?id=459



Society of Petroleum Engineers

EOR Polymer Flooding - Latest Updates from Screening to Implementation

28 February 2023 | 0900 – 1700 hours

Course Instructor: Jan Nieuwerf, EOR Commercial Manager, SNF

Course Objectives

This course will provide the participants with a more in-depth knowledge of:

- EOR screening and justification
- Impact on CO2 and GHG reduction of polymer flooding vs water flooding
- EOR project management
- Subsurface simulation and polymer flood design
- Polymer selection considerations, screening, and applicability
- Injection facilities considerations and design
- Polymer flood operations



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ttps://www.spe.org/en/training/courses/eor-polymer-flooding-latest-updates-screening-implementation/

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LIST OF EXHIBITORS

Company Name	Booth Number
Abdullah A. Al Barrak & Sons Co.	C27
Air Drilling Associates Pte. Ltd	P15
Al-Khafji Joint Operations	E26
AspenTech Subsurface Science & Engineering	P05
C&C Reservoirs	A27
Carbo	A28
CDI Energy Products Pte Ltd	J15
ChampionX	B25
China Oilfield Services Limited (COSL)	D25
Citadel Casing Solutions	P03
Dexon Technology PLC	P23
EEST Energy Services (Thailand) Limited	E17
Eliis	D17
Eneroil Offshore Drilling Ltd	B27
Expro	C25
Geolog International B.V.	H25
Geoteric	H27
Geowell Sdn Bhd	G25
GoWell	P07
Hardbanding Solutions	P08
HRH Geology	P22
Hunting Energy Services	A22
Impact Fluid Solutions	A25
Impact Selector	P11
Innovation Technical Solutions SAOC-iNNOVATEQ	H28
J.S.T. Services Co., Ltd.	P13
JOGMEC	F09
Kongsberg Satellite Services AS	P19
Markleen Management S.L	P20

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LIST OF EXHIBITORS

Company Name	Booth Number
MISC Berhad	E09
Nouryon Surface Chemistry Pte Ltd	B28
NOV	A09
Odfjell Technology	P17
OPS Oilfield Equipment and Services Ltd.	F25
Pall Corporation	P10
Petroleum Experts Limited	D09
Petroliam Nasional Berhad (PETRONAS)	A01
PGS Exploration UK Limited	A17
PTT Exploration and Production Public Company Limited	C01
PXGeo	E25
RESMAN	A26
Rock Flow Dynamics	F21
Saudi Aramco	G01
Shanghai Wangyuan Instruments of Measurement Co., Ltd.	G27
Sinomine Specialty Fluids	P16
SLB	C09
SNF	C28
Solvay Specialty Chemicals Asia Pacific Pte Ltd	A23
Sonomatic SEA Sdn Bhd	D21
Suzhou Douson Drilling and Production Equipment Co., Ltd (Douson)	P09
Thai Benkan Co., Ltd.	P01
Thru-Tubing Systems Asia Ltd.	P21
Thunder Cranes Sdn Bhd	A21
Weatherford	B09
WEFIC Ocean Equipment Manufacturing Co., Ltd.	E21
Welltec A/S	F17
Wuhan Linmei Head Plate Co., Ltd.	G28



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Registration Categories and Fees

Category		Fee Per	r Person	
		Early Bird by 23 January 2023	Standard after 23 January 2023	
Full Conference	Member		USD 1,050	USD 1,150
	Non-Member		USD 1,200	USD 1,300
	Speaker / Author / Committee / Session Ch	nair	USD 900	USD 1,000
Student				mentary rudent ID only
Visitor			USI	D 50
Emerging Leaders	Workshop (2 March 2023)		Complim	D 50 pentary for ace registrants
AAPG Training Course: Basics of CCUS Member		USD 650	USD 700	
(28 February 2023) Non-Member		USD 750	USD 800	
-	rse: Upscaling and Artificial	Member	USD 650	USD 700
Intelligence-Based Proxies for Uncertainty Assessment of Reservoir Production (28 February 2023)Non-Member		USD 750	USD 800	
SEG Training Course: Seismic Uncertainty Evaluation Member		USD 1,200	USD 1,300	
(27-28 February 2023) Non-Member		USD 1,400	USD 1,500	
-	e: EOR Polymer Flooding -	Member	USD 650	USD 700
(28 February 2023)	m Screening to Implementation	Non-Member	USD 750	USD 800

GROUP REGISTRATION AVAILABLE

Register 5 save 10%, Register 10 save 20%

GENERAL INFORMATION

Venue

Bangkok Convention Centre at CentralWorld 999/99 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand State 2 100 1234 Click here

Airport

Travellers arrive in Bangkok, Thailand at the Suvarnabhumi International Airport (BKK) and Don Mueang International Airport (DMK). Both airports are approximately 30 minutes by car from Bangkok Convention Centre at CentralWorld. Event attendees may arrange for ground transfers with their selected hotels or secure a taxi at the arrival hall.

Badge Collection

Event badges can be collected during the event at the venue. Badges are required for admission into the event and must be worn at all times during event days.

Photography and Audio Visual Copyright

All conference sessions and the exhibition/technical showcase are protected by international copyright laws.

Photography and video/audio recording of any kind in conference sessions and the exhibition are prohibited without prior written permission by IPTC.

Visa

Event attendees travelling to Bangkok, Thailand must be in possession of passports valid for at least six (6) months with proof of onward passage out of the country. Visa requirements depend on the country of origin. Please check with your travel agent, or the Thailand Embassies, High Commissions or Consulates on regulations relating to immigration/visa before your departure.

An invitation letter to facilitate the application of visa will be issued to registered attendees if required. Please download the letter of invitation request form. Please send the request to Faezah Saaban.

Please note that it is the sole responsibility of the attendee to obtain the necessary supporting document(s) for entry into Bangkok, Thailand. The invitation letter does not guarantee that you will be granted a visa.

Accommodation

The following hotels are within proximity of the event. All accommodation and hotel bookings are to be made directly with the hotels.

Centara Grand at CentralWorld

999/99 Rama 1 Road, Pathumwan, Bangkok 10330, Thailand

Click here

Online Booking: Click here Booking Deadline: 31 January 2023

	Price (THB)		
Room Type	Single	Double/Twin	
Superior Room	THB 4,600++	THB 5,000++	
Deluxe Room	THB 4,900++	THB 5,300++	
Club Deluxe	THB 6,200++	THB 6,800++	
Junior Suite	THB 7,200++	THB 7,800++	
Club Suite	THB 10,200++	THB 10,800++	

Notes:

- All accommodation and hotel bookings are to be made directly with the hotel.
- Rates are based on per room per night and are inclusive of daily buffet breakfast for one (1) or two (2) persons.
- Rates are subject to 10% service charge and 7% applicable government tax (currently)
- Rates are inclusive of internet access in room.
- Cancellation or shorten stay notified before 21 January 2023 will charged for one-night. Cancellation charge for entire stay will be charged for cancellation after 21 January 2023.
- For no show, the hotel reserves the right to charge your credit card for entire stay as original reserved.

Siam Kempinski Hotel Bangkok

991/9 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand

Click here

Online Booking: Click here

Booking Deadline: 31 January 2023

	Price (THB)		
Room Type	Single	Double/Twin	
Deluxe Room	THB 6,500++	THB 7,000++	
Premier Room	THB 7,100++	THB 7,600++	
Executive Balcony Room	THB 10,800++	THB 11,300++	
Executive Room	THB 17,500++	THB 18,000++	

Notes:

- Rates are exclusive of 10% service charge and 7% applicable government tax.
- A charge will be applied for extra bed for the third person of THB 2,890++ per room per night.
- Room types are availability based on first-come first-served and subject to availability.
- Room rates are inclusive of breakfast at hotel's restaurant.
- Complimentary wired internet and Wi-Fi access.
- Complimentary daily refillable mini bar including soft drinks, local beers and snacks.

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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 technologies 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, sustainability, the energy transition, HR and training.

Sponsorship & Exhibition Enquiries: Nick Chantrell, Senior Sales Manager, Asia Pacific Email : nchantrell@iptcnet.org Tel : +60 3 2182 3145

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