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# SPE Virtual Symposium: Deepwater - Raising Potential through Innovation

24–26 August 2021 | Virtual

[go.spe.org/22SM01S](https://go.spe.org/22SM01S)

## Symposium Programme



## Welcome Message

Dear Colleagues,

We are pleased to welcome you to the inaugural **SPE Virtual Symposium: Deepwater – Raising Potential through Innovation** scheduled **24–26 August 2021**.

Deepwater exploration and production present a host of challenges. Major findings through case studies and technological advancements are guiding businesses in areas of operational decision making, cost optimisation, risk management, and improving safety and efficiency. Through this process, closer partnerships and collaboration between operators and service companies have produced environmentally friendly innovations. These significant reforms have reenergised interest in deepwater developments, unlocking ultra-deepwater potential and in enabling new projects in high-cost oil producing regions.

Although deepwater and ultra-deepwater exploration remains a new frontier in the Asia Pacific region, it presents a significant resource potential that can be unlocked on the back of established deepwater development projects, operational excellence and successful case studies. The symposium will discuss these best practices and lessons learnt focusing on how production and operations can be sustained and improved through innovation

**We encourage efforts and collaboration of our industry and its leaders to support this inclusive opportunity to bring the industry together to share and discuss latest insights on future challenges and opportunities.**

We look forward to your support for the SPE Virtual Symposium: Deepwater – Raising Potential through Innovation.

Sincerely,



Mohamad Abu Bakar  
Symposium Co-Chair  
General Manager  
Resource Development  
and Management  
Malaysia Petroleum  
Management  
**PETRONAS**



Daniel Abbott  
Symposium Co-Chair  
Development Manager  
Sabah Deepwater Assets  
**Sabah Shell Petroleum  
Company**

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*\* This Symposium Programme is updated as at 23 August 2021*

## Committee

### Advisor

Juhaidi Jaafar  
Senior Manager, Resource Development and Management  
Malaysia Petroleum Management  
**PETRONAS**

### Symposium Co-Chairs

Mohamad Abu Bakar  
General Manager,  
Resource Development and Management  
Malaysia Petroleum Management  
**PETRONAS**

Daniel Abbot  
Development Manager  
Sabah Deepwater Assets  
**Sabah Shell Petroleum Company**

### Programme Committee Members

CN Chong  
Vice President, Business Development  
Subsea Asia Pacific  
**Aker Solutions**

Tan Coon Seng  
Senior Sales Manager  
**Baker Hughes**

Haydn Ian Furlonge  
Adjunct Lecturer  
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Shankar Bhukya  
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**NOV Grant Prideco**

Brett Phillips  
Technical Solutions Manager  
**Oceaneering**

Paul Lonsdale  
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**PETRONAS**

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Manager, Resource Development and  
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Faizah Musa  
Manager (Field Cluster 3),  
Petroleum Engineering Sabah  
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Deepwater Project Lead  
**Shell Malaysia**

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Field Development Group Manager  
**Subsea 7**

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Business Development Manager  
**Technip FMC**

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



Society of Petroleum Engineers

### About the Society of Petroleum Engineers

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

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Society of Petroleum Engineers

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## SPE Virtual Symposium: CCUS Management - Achieving Net Zero Carbon and Sustainability Goals

Resilience for a Sustainable Future

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- **40+** industry and subject matter experts
- **20+** interactive technical presentations
- **13+** hours of engaging technical content
- **4+** hours of plenary and panel sessions
- Gain new ideas on achieving business and decarbonisation goals
- Expand your professional connections through virtual networking
- Discover unique solutions for effective CCUS implementation

For more information and to register, visit [go.spe.org/22SM03S](https://go.spe.org/22SM03S)



## Symposium Programme Schedule

Time (UTC +8)	Stream 1	Stream 2
<b>Tuesday, 24 August 2021</b>		
1300 - 1330 hours	<b>Opening and Keynote Session</b>	
1330 - 1430 hours	<b>Executive Plenary Session: Deepwater - Raising Potential through Innovation</b>	
1430 - 1500 hours	Break	
1500 - 1630 hours	<b>Technical Session 1</b> Exploration	<b>Technical Session 2</b> Development
1630 - 1700 hours	Networking Session	
<b>Wednesday, 25 August 2021</b>		
1300 - 1430 hours	<b>Panel Session 1</b> Sustainable and Profitable Development of Deepwater Fields	
1430 - 1530 hours	Break	
1530 - 1700 hours	<b>Technical Session 3</b> Production and Operations Excellence	<b>Technical Session 4</b> Innovative Technology and Solutions Enabler I
<b>Thursday, 26 August 2021</b>		
1300 - 1430 hours	<b>Panel Session 2</b> Accelerating Deepwater's Transition to a Carbon Neutral Energy Business	
1430 - 1530 hours	Break	
1530 - 1700 hours	<b>Technical Session 5</b> Innovative Technology and Solutions Enabler II	<b>Technical Session 6</b> Technical and Commercial Partnership and Collaboration
1700 - 1730 hours	Networking Session	



## General Information

### Event Hours

Please note that the event is scheduled in Kuala Lumpur local time (GMT/UTC +8 time zone)

Date	Time
Tuesday, 24 August	1300-1700 hours (UTC +8)
Wednesday, 25 August	1300-1700 hours (UTC +8)
Thursday, 26 August	1300-1730 hours (UTC +8)

### Code of Conduct

SPE is committed to providing a professional, friendly and safe environment for all participants at its events, regardless of gender, sexual orientation, disability, race, ethnicity, religion, national origin or other protected class.

This code of conduct outlines the SPE expectations for all participants, including attendees, speakers, vendors, media, exhibitors, sponsors and volunteers. Cooperation is expected from everyone, and SPE will actively enforce this code throughout this event.

Participants will be provided with personalised credentials allowing them access to the virtual event. These credentials are personal and non-transferable. Non-registered individuals and minors will not be able to access the virtual event, unless upon prior agreement with SPE.

SPE expects all event participants to help ensure a safe and positive experience for everyone. Unacceptable behaviour will not be tolerated during any portion of a meeting or event. Unacceptable behaviour includes but is not limited to:

- Intimidating, harassing, abusive, discriminatory, derogatory or demeaning speech or actions.
- Harmful or prejudicial verbal or written comments or visual images related to gender, sexual orientation, race, religion, disability or other personal characteristics, including those protected by law.
- Inappropriate contact including via electronic communications.
- The production or non-consensual sharing of harassing non-consensual photography or unwanted recording, including nudity and/or sexual images in virtual event (in any format, electronic or otherwise).
- Real or implied threat of professional or financial damage or harm.
- Inappropriate and sustained disruption of sessions, meetings and/or events.

- Photographing, video or audio recording of slides, oral or presentations without prior written permission from SPE.
- Violating the rules and regulations of the virtual event platform.
- Cybercrime and dubious online practises include but not limited to phishing, spamming, spoofing and cyberstalking.
- Inappropriate self-presentation or attire. Business casual dress code is preferred.

Reporting of harassment and disruptive behaviours can be made to [spekl@spe.org](mailto:spekl@spe.org).

Consequences of misconduct may include:

- Immediate removal from meetings and/or events without warning.
- Restrictions from future SPE events.

SPE reserves all rights to take any action to prevent and report violations of the Code of Conduct, including blocking access to SPE events. SPE cannot investigate reports of harassment or other misconduct during the virtual event but will inform the appropriate departments of the accused person's host institution about any such filed report.

### Photography and Videography

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# General Information

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- By engaging with sponsor and exhibitor booths or content, participants are consenting to exhibiting and sponsoring companies having access to the personal data that is public in their personal profile. Participants will need to contact the exhibiting and sponsoring companies regarding their privacy policies and to request erasure.
- Through the virtual event platform, participants may request to connect, which the receiving participant has the option to accept or decline. The platform's networking technology also recommends to participants related content and participants who match their interests.
- For any queries or concerns please contact the events team at [apweb@spe.org](mailto:apweb@spe.org).

## On-Demand Content

- An on-demand version of the live event sessions will be made available to attendees registered in the full access category only.
- Provision of the live event sessions and presentation materials by speakers and authors will signify their permission for SPE to do so.

## Disclaimer

SPE reserves the right to change the speaker(s), date(s) and/or to cancel the virtual event should circumstances beyond its control arise. SPE will not be liable to Participants for any damages, costs, losses or expenses of any kind incurred or suffered by Participants as a result of or in relation to SPE modifying, postponing or cancelling the virtual event or any part of the virtual event.



## Opening and Keynote Session

Tuesday, 24 August 2021 | 1300 - 1330 hours (UTC +8)

### Welcome Remarks



Mohamad Abu Bakar  
Symposium Co-Chair  
General Manager  
Resource Development and Management  
Malaysia Petroleum Management  
**PETRONAS**



Daniel Abbott  
Symposium Co-Chair  
Development Manager  
Sabah Deepwater Assets  
**Sabah Shell Petroleum Company**

### Keynote Address



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

## Executive Plenary Session: Deepwater – Raising Potential through Innovation

Tuesday, 24 August 2021 | 1330 - 1430 hours (UTC +8)

### Moderators



Mohamad Abu Bakar  
General Manager  
Resource Development and Management  
Malaysia Petroleum Management  
**PETRONAS**



Daniel Abbott  
Development Manager  
Sabah Deepwater Assets  
**Sabah Shell Petroleum Company**

### Speakers



Chen Kah Seong  
Vice President  
Upstream Centre of Excellence (COE)  
**PETRONAS**



Dr. Terapol Phoonsiri  
Country Manager  
Malaysia Asset  
**PTTEP**



Vijay Krishnan  
Partner and Head of Asia Pacific  
**Rystad Energy**



## Panel Session 1: Sustainable and Profitable Development of Deepwater Fields

Wednesday, 25 August 2021 | 1300 - 1430 hours (UTC +8)

### Sessions Chairs



Haydn Ian Furlonge  
Adjunct Lecturer  
ALJ Global School of Business  
**The University of the West Indies**



Kevin Lau  
Deepwater Project Lead  
**Shell Malaysia**

### Speakers



Phillip Solomon  
Executive Director,  
Commercial  
**GaffneyCline**



Aidil Shabudin  
Head of Resource  
Development and  
Management  
Malaysia Petroleum  
Management  
**PETRONAS**



Richard Kho  
General Manager  
Malaysia and  
Philippines Projects  
**Sarawak Shell Berhad**



Torfinn Akselsen  
Vice President of  
Subsea Commercial,  
Asia Pacific  
**TechnipFMC**

Development of deepwater fields have always been pursued with favourable reservoirs due to the high cost and long development time involved. Many initiatives have been undertaken over the past few decades to standardise solutions to help improve the overall profitability of these fields by reducing overall cost and ultimately minimising the necessary interventions in the operations phase. However, these efforts have not taken away the overall impression that deepwater developments are generally expensive and can be seen as an unattractive investment if the subsurface realisations fall in the low case.

In recent years, we have seen deepwater developments buck this trend as they have managed to continuously obtain lower unit development cost values through, not only technology and innovation, but also through disciplined project management practices and more realistic subsurface predictions. This panel of distinguished speakers will aim to showcase some of the more recent projects that have shown greater cost competitiveness in light of the downturn back in 2015 and more recently during the pandemic. These projects have also been able to compete for the necessary capital in various fiscal regimes within the region as they are becoming more of an attractive investment.

Some areas of discussion include:

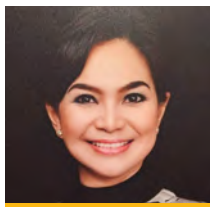
- What are the key enablers to ensuring a development is profitable in this current day and age and what key practices are various project teams using?
- Is deploying new technology the only way to further reduce costs in an overall project or are we better served being more innovative on existing standard solutions?
- What subsurface tools/practices are being used in the industry to help mitigate against low case realisations?
- How can deepwater development adjust to a post pandemic world where ways of working (virtual) will be the norm going forward?



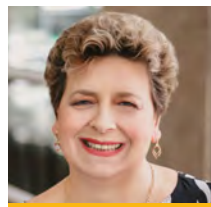
## Panel Session 2: Accelerating Deepwater's Transition to a Carbon Neutral Energy Business

Thursday, 26 August 2021 | 1300 - 1430 hours (UTC +8)

### Session Chairs



Priscilla Ujang  
Planning and HPIM Manager  
**Sabah Shell Petroleum Company**



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

### Speakers



Si Huai Yeaw  
Senior Engineer  
**Aker Solutions**



Derek Price  
Vice President  
Oilfield Equipment  
APACI  
**Baker Hughes**



Handan Ramli  
Head Production and Operation  
Production and Operation  
Management  
Malaysia Petroleum Management  
**PETRONAS**

This panel session aims to address how the deepwater business can respond to the challenge to halt global warming and in step with society's progress as it works towards the Paris Agreement goal of limiting the increase in the average global temperature to 1.5°C above pre-industrial levels.

This imperative is being incorporated into corporate strategies as carbon neutrality goals, typically net-zero carbon by 2050. For the energy industry, the tactics considered are numerous and range from well-established practices such as utilisation of natural sinks through tree planting, driving operational excellence to eliminate flaring and abating methane intensity, shift to natural gas, through to the more challenging transition to renewable energy and alternative decarbonised fuels, to major projects involving carbon capture and storage.

How can the deepwater industry respond to this urgent challenge and develop solutions which allow them to retain economic potential? This will require a fundamental transformation of how the industry produces and utilises energy and hence, industry-wide collaboration is essential. This panel of industry experts will share their views on how co-operation can bring together the best solutions and match the development pace to align with other sectors so that global energy sources remain economical for society.

Some areas of discussion include:

- How can we accelerate the abatement of Scopes 1 & 2 emissions and play a role in Scope 3?
- What are the appropriate technologies to pursue? Ranging from emissions reduction, energy utilisation efficiency, efficiency improvements through digitalisation and novel hardware
- How viable is carbon capture and storage for deepwater developments?
- What cultural changes may be necessary to accommodate innovative solutions and how do we pace the transition across different geographical regions so that deepwater development and operations remain sustainable?



## Technical Sessions

Tuesday, 24 August 2021

1500-1630 hours (UTC +8) | Stream 1

### Technical Session 1 : Exploration

**Session Co-Chairs:** Samsul Idrus, **PETRONAS**; Faizah Musa, **PETRONAS Carigali Sdn. Bhd.**; Tan Sue Chein, **PTTEP Sabah Malaysia**

1500 hours	<b>Formation Pressure and Hydrocarbon Accumulation Sequence in Oil-bearing Basins</b> Zhao Xouxiang, Songling Yang, Wenjie Cai , Dong Li and Jianguang Chen, CNOOC International Limited
1520 hours	<b>Deep Water Exploratory Wells: One Decade for a Successful Return to Foamed Cement Execution</b> Aaron Martinex Melo, Moises Munoz, Yangsong Wu and Julio Guerra, Schlumberger; Leng Xueshuang and Zhang Xingxing, CNOOC
1540 hours	<b>Operational Performance Training using High Fidelity Simulations and Advanced Human Performance Techniques</b> Kuhanesapathy Thavaras Pathy and Khairul Amir Khazali-Rosli, PETRONAS; Clive Battsby, Drilling Systems; Grant Wallace and Bruce Christie, Salos Sunesis

Tuesday, 24 August 2021

1500-1630 hours (UTC +8) | Stream 2

### Technical Session 2: Development

**Session Co-Chairs:** Sharina M Salim, **PETRONAS**; Kevin Lau, **Shell**

1500 hours	<b>Limbayong: Decoding Industry Decile Reservoir Complexity for Marginal Deepwater Development</b> Mohamed Aiman Mohamed Najib and Phoon Yong Ken, PETRONAS
1520 hours	<b>Trusting the Unknown: Translating Deep-water Geological Concepts into Quality Investment Decisions in Offshore Brunei Darussalam</b> Fauzi Said and Syazwina Rosli, Brunei Shell PETROLEUM
1540 hours	<b>Optimising J-shape Deviation Well Geological Proposal by Deepening Kickoff Point</b> Lei Huang, CNPCI
1600 hours	<b>Extensive Planning, Execution and Improvement in Addressing Challenges of Top-Hole Uncertainties in Deepwater Wildcat Exploration Well</b> M Abiabhar Abitalhah, M Syafiq M Ariffin, Hairul Rajab, Remy Azrai M Amin, M Hafiz M Makri, M Syahmi M Yusof, M Sadiq Shafiq Sam, Ahmad Afiq Mahadi and Zulfadli Anwar Zainal Abidin, PETRONAS Carigali Sdn. Bhd.; Zarin Zid and Ismail Abd Rahman, Baker Hughes

Wednesday, 25 August 2021

1530-1700 hours (UTC +8) | Stream 1

### Technical Session 3: Production and Operations Excellence

**Session Co-Chairs:** CN Chong, **Aker Solutions**; Priscilla Ujang, **Sabah Shell Petroleum Company**

1530 hours	<b>An Optimisation of Subsea Underwater Inspection with Risk Based Inspection Approach for Subsea Asset</b> Awaluddin Berwanto, Ahmad Razali Yaakob and M Syafiq Husni Ahmad Zawawi, PETRONAS
1550 hours	<b>Emission ZERO FPSO Program</b> Alessandro Zunino, SBM Offshore
1610 hours	<b>Increasing ESP Lifetime by Employing Novel Non-corrosive Acid System for Scales Removal</b> Hany Gamal, King Fahd Univeristy of Petroleum & Minerals



## Technical Sessions

Wednesday, 25 August 2021

1530-1700 hours (UTC +8) | Stream 2

### Technical Session 4: Innovative Technology and Solution Enablers I

**Session Co-Chairs:** Shankar Bhukya, **NOV Grant Prideco**; Paul Lonsdale; **One Subsea**

1530 hours	<b>Technological Advancements for Operational Excellence</b> Laurent Bordet, NOV Grant Prideco
1550 hours	<b>Deepwater Riserless Casing Drilling: A Game Changing Strategy for Riserless Casing Seat Optimisation</b> Steven Rosenberg, Subsea Drive
1610 hours	<b>Prediction of Water-Phase Mass Attenuation Coefficients Based on Multiphase Metering Data</b> Mahdi Darab, Ola-Marius Langelo Royset and Rune Nygaard, OneSubsea, a Schlumberger Company; Lowestein Odai and Arvinder Paul Singh, Tullow Oil
1630 hours	<b>Well Real Time Centre: Challenges on Monitoring the Ultra-Deepwater Wells Operation during a Pandemic Crisis</b> Zool Fairiez Syatereiy Ahmad Zuhdi, EFTECH Drilling Solutions; Azlan Mohamad, PETRONAS; Raja Syafiq Raja Hamzah, EFTECH Drilling Solutions; Azlesham Rosli, PETRONAS; Sa'aid Hazley Abdul Talib and Mohamad Shukor Zainal Abidin, EFTECH Drilling Solutions

Thursday, 26 August 2021

1530-1700 hours (UTC +8) | Stream 1

### Technical Session 5: Innovative Technology and Solution Enablers II

**Session Co-Chairs:** Shankar Bhukya, **NOV Grant Prideco**; Paul Lonsdale; **One Subsea**

1530 hours	<b>Design One – Build Many – Fast4Ward Achievements</b> Damien Nguyen, SBM Offshore
1550 hours	<b>New Developments in Thermal Insulation for Deepwater Pipelines</b> Jane Lim, Shawcor
1610 hours	<b>Challenging Limits of Dense Completion Fluids Systems</b> Jessica Paola Ramirez Angula, A. Mack, P. Vincent and L. King, TETRA Technologies

Thursday, 26 August 2021

1530-1700 hours (UTC +8) | Stream 2

### Technical Session 6: Technical and Commercial Partnership and Collaboration

**Session Co-Chairs:** Brett Phillips, **Oceaneering**; Julie Morgan, **Woodside Energy Ltd.**

1530 hours	<b>Digital Platform as a Tool for Efficient Reservoir Management</b> Nadir Husein, Geosplit LLC
1550 hours	<b>Collaborate Early to Accelerate and Optimise your Subsea Development: Agile Subsea Field Development Service</b> Sampath Munaweera, OneSubsea, a Schlumberger Company
1610 hours	<b>Unlocking Energy Efficiency through Technology Partnership and Data Usage</b> Konstantin Puskarskij, Maersk Drilling; Massamiliano Russo, Kongsberg Maritime
1630 hours	<b>Southeast Asia Looks to Boost its Deepwater Potential with Amended Fiscal Terms</b> Prateek Pandey, Rystad Energy

## Knowledge Sharing ePoster Session

This technical presentation is available at the Sessions area throughout the event.

### Presentation

**Enhanced Use of Digital Solutions to Enable New Health Care Services on Calm Buoys**  
Alessandro Zunino, SBM Offshore



## Contacts

### Society of Petroleum Engineers (SPE)

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Visit [go.spe.org/22SM01S](http://go.spe.org/22SM01S) for more information



Society of Petroleum Engineers

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