

SPE WORKSHOP

24-25 NOVEMBER 2026 | KUCHING, SARAWAK, MALAYSIA



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Integrated Carbonate Reservoir Development and Management

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INTEGRATED CARBONATE RESERVOIR DEVELOPMENT AND MANAGEMENT

24-25 NOVEMBER 2026 | KUCHING, SARAWAK, MALAYSIA

About the Workshop

Integrated Carbonate Reservoir Development and Management

Carbonate reservoirs are among the world's most prolific hydrocarbon systems, yet they can also be among the most difficult to develop. Heterogeneity, complex pore systems, karst and natural fracturing create uncertainty at every scale—from pore to platform to the field development plan. These challenges are compounded by mature gas fields approaching cessation of production, some with high CO₂ or H₂S content; the need to reduce operational carbon emissions; and growing interest in repurposing depleted carbonate reservoirs for carbon capture and storage.

This workshop brings together geoscientists, petrophysicists, reservoir and drilling engineers to explore integrated workflows for real-world carbonate reservoir challenges. Through case studies and interactive discussions, participants will examine reservoir architecture, modelling, well delivery, optimisation, digital workflows, improved recovery, and CCS applications. This workshop brings together geoscientists, petrophysicists, reservoir engineers, drilling engineers, surface engineers and field development planners to examine how integrated development and management workflows perform against real field challenges.



MASTER

integrated workflows to overcome the complexities of carbonate reservoir development.



UNLOCK

advanced modelling and digital tools that boost recovery and reduce uncertainty.



DISCOVER

practical, sustainable ways to optimise field development and management.



CONNECT

with industry experts to share insights and expand your professional network.



Who Should Attend?

- | | |
|---|--|
|  RESERVOIR ENGINEERS |  FIELD DEVELOPMENT AND ASSET MANAGEMENT PROFESSIONALS |
|  PETROLEUM ENGINEERS |  EOR SPECIALISTS |
|  PRODUCTION ENGINEERS |  CARBON MANAGEMENT AND CCS PROFESSIONALS |
|  DRILLING, COMPLETION, AND WELL ENGINEERS |  DIGITAL TRANSFORMATION AND DATA ANALYTICS SPECIALISTS |
|  GEOLOGISTS |  RESERVES, RESOURCES, AND UNCERTAINTY ANALYSTS |
|  GEOPHYSICISTS |  PROJECT AND OPERATIONS MANAGERS (UPSTREAM) |
|  PETROPHYSICISTS |  ACADEMICS, RESEARCHERS, AND TECHNICAL CONSULTANTS |
|  SUBSURFACE ENGINEERS | |
|  STATIC AND DYNAMIC RESERVOIR MODELLERS | |

OUR COMMITTEE MEMBERS

Get to know the Committee Members that shapes the programme.

NOT AN SPE MEMBER?

Join SPE today and receive a discounted registration rate for this workshop and other SPE events.

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Programme Schedule

TUESDAY, 24 NOVEMBER 2026

0730 - 0830 hours	Registration and Welcome Refreshments
0900 - 0930 hours	Welcome Remarks and Keynote Address
0930 - 1030 hours	Panel Session: Maximising the Value of Carbonate Gas Fields
1030 - 1100 hours	Group Photo/Coffee and Tea Break
1100 - 1300 hours	Session 1: Carbonate Geology, Architecture, and Reservoir Quality Prediction
1300 - 1400 hours	Networking Luncheon
1400 - 1600 hours	Session 2: Static-Dynamic Integration and Reservoir Modelling
1600 - 1615 hours	Coffee and Tea Break
1615 - 1815 hours	Session 3: Optimising Production & Field Management through AI and Digital Innovation
1815 hours onwards	Networking Reception

WEDNESDAY, 25 NOVEMBER 2026

0730 - 0830 hours	Registration and Welcome Refreshments
0830 - 1020 hours	Session 4: Enhanced Oil & Gas Recovery and Fluids Management in Carbonates: From Screening to Field Success
1020 - 1030 hours	Coffee and Tea Break
1030 - 1220 hours	Session 5: Late-Life Carbonate Reservoirs: CCS/CCUS, Asset Repurposing and Decommissioning Strategies for Sustainable Value Creation
1220 - 1300 hours	Networking Luncheon
1300 - 1450 hours	Session 6 (Part I): Delivering Wells with Confidence: Managing Subsurface Risk in Carbonate Developments from Geological Complexity to Well Performance
1500 - 1650 hours	Session 6 (Part II): Delivering Wells with Confidence: Managing Subsurface Risk in Carbonate Developments from Geological Complexity to Well Performance
1650 - 1700 hours	Coffee and Tea Break
1700 - 1830 hours	Session 7: Techno-Commercial and Facilities Strategies for Value-Driven Carbonate Development
1830 - 1845 hours	Workshop Summary and Closing Remarks

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PROGRAMME

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Available.

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Tuesday, 24 November 2026

0900 – 0930

Welcome Remarks and Keynote Address



WELCOME REMARKS

Rizal Bakar
Workshop Co-chair
General Manager, Petroleum Engineering
(Sarawak)

PETRONAS Carigali Sdn. Bhd.



KEYNOTE SPEAKER

Herry Maulana
Custodian (MPM Resource Exploration)
PETRONAS

0930 – 1030

PANEL SESSION: MAXIMISING THE VALUE OF CARBONATE GAS FIELDS

Moderator: Arie Krisna P. Lopulisa, Senior Geologist/ G&G Technical
Solutions, SLB

Panellists:

- PETRONAS
- Calum Andrew Hunter, Vice President Subsurface (Geoscience & Reservoir Management, **Mubadala Energy**)
- Pannayod Kritsativud, Manager, Thai Offshore Joint Venture Asset, PTTEP
- Jumain Marzuki, Technical Advisor, SLB
- Christian Longis, Head of Subsurface, Assets, Subsurface & Planning, **TotalEnergies E&P Malaysia**

1030 – 1100

GROUP PHOTO/COFFEE
AND TEA BREAK

1100 – 1300

SESSION 1: CARBONATE GEOLOGY, ARCHITECTURE, AND RESERVOIR QUALITY PREDICTION

Session Moderators: Nur Amalina Sahari@Shakarwi, **PETROS**; Siti Nur
Fathiyah Jamaludin, **University Teknologi PETRONAS**
*This session will examine how depositional processes, platform
evolution, diagenesis and reservoir heterogeneity influence
carbonate reservoir quality and connectivity, supporting improved
characterisation, modelling and development decisions.*

1300 – 1400

NETWORKING LUNCHEON

1400 – 1600

SESSION 2: STATIC-DYNAMIC INTEGRATION AND RESERVOIR MODELLING

Session Moderators: Chee Sheau Chien, **PETRONAS Carigali Sdn. Bhd.**; Hadi Amat, **PETRONAS Carigali Sdn. Bhd.**

*Join the speakers as they delve into how integrated static and
dynamic data, advanced reservoir modelling and uncertainty
management improve subsurface understanding, forecast
confidence, field development and reservoir management
decisions.*

1600 – 1615

COFFEE AND TEA BREAK

1615 – 1815

SESSION 3: OPTIMISING PRODUCTION & FIELD MANAGEMENT THROUGH AI AND DIGITAL INNOVATION

Session Moderators: Jazael Ballina Ruvalcaba, **AFED Digital** and
Rizal Bakar, **PETRONAS Carigali Sdn. Bhd.**

*Learn how AI and digital technologies optimise production and
field management through predictive analytics, digital twins and
automation, enabling improved recovery, operational efficiency and
faster, data-driven decisions.*

1815 ONWARDS

NETWORKING LUNCHEON

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Wednesday, 25 November 2026

**0730 - 0830 | REGISTRATION AND WELCOME
REFRESHMENTS**

0830 - 1020

SESSION 4: ENHANCED OIL & GAS RECOVERY AND FLUIDS MANAGEMENT IN CARBONATES: FROM SCREENING TO FIELD SUCCESS

Session Moderators: Aditya Mukerjee, **Computer Modelling Group Ltd**; Ronarong Paramatikul, **SLB**

This session will cover enhanced recovery and fluids management strategies for carbonate reservoirs, from screening and injection design to production optimisation, surveillance and field-wide performance management.

1020 - 1030 | COFFEE AND TEA BREAK

1030 - 1220

SESSION 5: LATE-LIFE CARBONATE RESERVOIRS: CCS/CCUS, ASSET REPURPOSING AND DECOMMISSIONING STRATEGIES FOR SUSTAINABLE VALUE CREATION

Session Moderators: Ivan Wu, **Halliburton**; Arie Krisna P. Lopulisa, **SLB**; Noorazlenawati Borhan, **PETRONAS**

Join the presenters in this session as they explore the potential of late-life and mature carbonate reservoirs for CO₂ storage, covering site screening, characterisation, injectivity, containment, monitoring and risk management, alongside regulatory and global case study insights.

1220 - 1300 | NETWORKING LUNCHEON

1300 - 1450

SESSION 6 (PART I): DELIVERING WELLS WITH CONFIDENCE: MANAGING SUBSURFACE RISK IN CARBONATE DEVELOPMENTS FROM GEOLOGICAL COMPLEXITY TO WELL PERFORMANCE

Session Moderators: Nurul Aida M Agil, **PETRONAS Carigali Sdn. Bhd.**; Harpreet Kaur Dalgit Singh, **Weatherford**

This session will focus on practical field applications, lessons learned, and technologies that will improve well performance and reduce development risk.

1500 - 1650

SESSION 6 (PART II): DELIVERING WELLS WITH CONFIDENCE: MANAGING SUBSURFACE RISK IN CARBONATE DEVELOPMENTS FROM GEOLOGICAL COMPLEXITY TO WELL PERFORMANCE

Session Moderators: Nurul Aida M Agil, **PETRONAS Carigali Sdn. Bhd.**; Harpreet Kaur Dalgit Singh, **Weatherford**

This session will focus on practical field applications, lessons learned, and technologies that will improve well performance and reduce development risk.

1650 - 1700 | COFFEE AND TEA BREAK

1700 - 1830

SESSION 7: TECHNO-COMMERCIAL AND FACILITIES STRATEGIES FOR VALUE-DRIVEN CARBONATE DEVELOPMENT (CAPS)

This session will focus on techno-commercial strategies, facilities innovation, and emerging technologies that optimise carbonate project economics, manage development risk, and deliver flexible, sustainable solutions that enhance long-term asset value.

1830 - 1845

**WORKSHOP SUMMARY AND
CLOSING REMARKS**



Puntira Henglai
Workshop Co-Chair
Senior Geologist
PTTEP Oman

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Sponsorship support of the event helps offset the cost of producing workshops and allows SPE to keep the attendance price within reach of operation level-individuals, those who benefit most from these technical workshops.

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Company logo in all workshop promotional email broadcasts	✓	✓	✓	✓
Company mentions/tags in selected regional social media promotions	✓	✓	✓	✓
Company logo displayed during event	✓	✓	✓	✓
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Option to display one company bunting**				✓

*Include 1 Oblong Table + 2 Chairs

**Company to provide bunting

Sponsorship packages are offered on a first-come, first-served basis. Please contact Muniza Bano Shaikh at mshaikh@spe.org to verify the availability of a particular sponsorship package.



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Reinforce Relationships

Reinforce your organisation's relationships with key industry practitioners



Demonstrate Commitment

Demonstrate your commitment to the industry through support

Who We Are

SPE is the largest individual member organisation serving managers, engineers, scientists and other professionals worldwide in the upstream segment of the oil and gas industry.

The Society of Petroleum Engineers (SPE) is a not-for-profit organisation dedicated to advancing the energy industry and empowering professionals. Revenue from this event supports SPE initiatives that drive professional growth, foster community, and deliver innovative solutions. By attending, sponsoring, or exhibiting at an SPE event, you help fund impactful programmes such as JPT, certification, the Distinguished Lecturer Programme, and Energy4me®, our energy education initiative. Together, we are advancing careers, building connections, and shaping the future of energy.



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Workshops offer sponsors unique access to a focused group of key decision-makers in the oil and gas industry. While SPE prohibits any type of commercialism within the workshop itself, it recognizes that sponsoring companies offer valuable information to attendees.

For a detailed list of available sponsorships, including benefits and pricing, contact Muniza Bano Shaikh at mshaikh@spe.org.

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