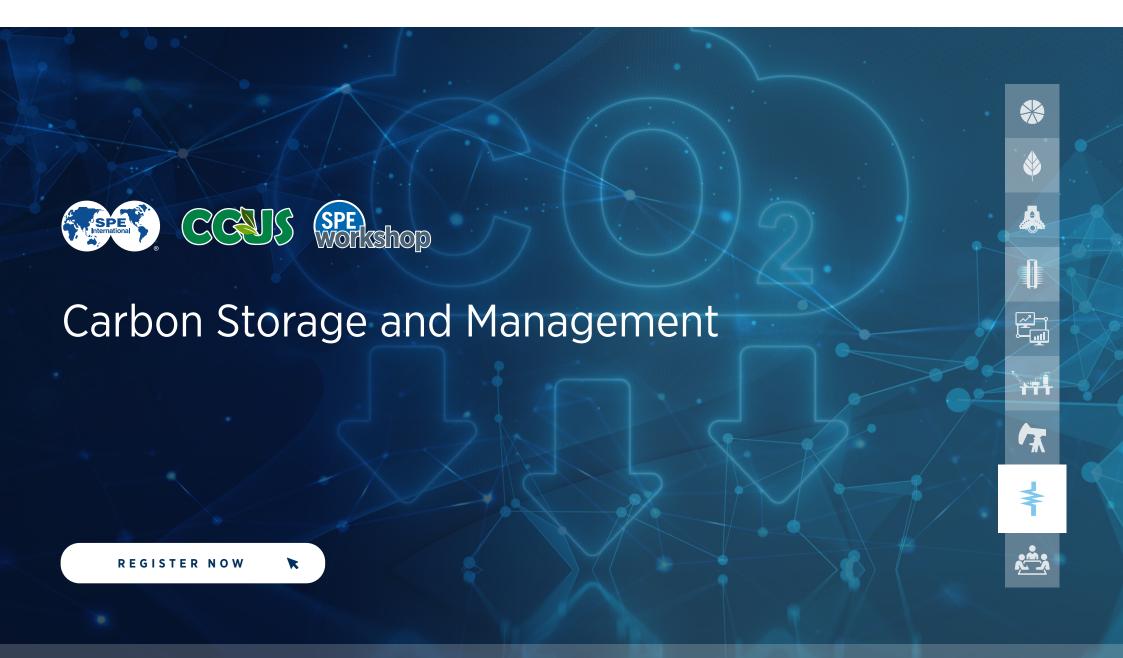
#### SPE WORKSHOP

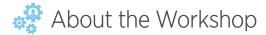
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## Carbon Storage and Management

The Asia Pacific region is witnessing a growing trend towards embracing carbon storage solutions as nations endeavour to mitigate greenhouse gas emissions and adhere to international climate agreements. To capitalise on the opportunities presented by carbon storage, the industry must adopt a multifaceted approach encompassing policy reforms, strategic partnerships, and technological innovations.

The SPE Workshop: Carbon Storage and Management provides a platform to facilitate knowledge exchange, foster strategic partnerships, and inspire actionable steps to accelerate the adoption of scalable carbon storage solutions while meeting global climate commitments.



**EXPLORE** new frontiers in carbon storage and management leveraging the latest in research, project development, case studies, and lessons learnt.



**GAIN** insights into pioneering technologies and scalable solutions in carbon storage with a focus on sustainability and emissions reduction.



**FOSTER** collaborative partnerships to advance carbon storage and management in Asia Pacific and **SHAPE** a sustainable energy future.



**NETWORK** and **EXCHANGE** diverse perspectives with peers and experts in the carbon storage field.

## Who Should Attend?

ASSET INTEGRITY

ccs/ccus

**₱** DRILLING AND COMPLETIONS

GEOLOGY AND RESERVOIR CHARACTERISATION

**■** HSE AND RISK MANAGEMENT

**■** MANAGEMENT OF CHANGE

MEASUREMENT, MONITORING AND VERIFICATION (MMV) SOLUTIONS

**PROCESS SAFETY MANAGEMENT** 

**PRODUCTION ENGINEERING** 

PRODUCTION AND OPERATION
MANAGEMENT

PRODUCTION TECHNOLOGY

REGULATORS

RESEARCH, DEVELOPMENT
AND ACADEMIA

SUBSEA AND SUBSURFACE MANAGEMENT

WELL AND RESERVOIR SURVEILLANCE

■ WELL ENGINEERING AND SERVICE

**■** WELLS MANAGEMENT

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Get to know the Committee Members that shapes the programme.



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# Programme Schedule

TUESDAY, 3 SEPTEMBER 2024				
0800-0850 hours	Registration and Welcome Refreshments			
0850-0900 hours	Safety Announcement			
0900-0930 hours	Welcome Remarks and Keynote Address			
0930-1100 hours	Panel Session: Policy and Regulatory Frameworks			
1100-1130 hours	Group Photo / Coffee and Tea Break			
1130-1230 hours	Session 1: Advancements in Geological CO2 Storage: Methods, Challenges, and Implications I			
1230-1330 hours	Networking Luncheon			
1330-1430 hours	Session 1: Advancements in Geological CO2 Storage: Methods, Challenges, and Implications II			
1430-1530 hours	Session 2: CCS Wells Design and Management I			
1530-1600 hours	Coffee and Tea Break			
1600-1700 hours	Session 2: CCS Wells Design and Management II			
1700-1800 hours	Session 3: Advancements in Monitoring, Measurement, and Verification (MMV) and Surveillance for CO2 Storage Projects I			
1800 hours onwards	Networking Dinner			

WEDNESDAY, 4 SEPTEMBER 2024				
0800-0900 hours	Registration and Welcome Refreshments			
0900-1000 hours	Session 3: Advancements in Monitoring, Measurement, and Verification (MMV) and Surveillance for CO2 Storage Projects II			
1000-1030 hours	Coffee and Tea Break			
1030-1230 hours	Session 4: Injection Strategies and Risk Management			
1230-1330 hours	Networking Luncheon			
1330–1530 hours	Session 5: Advancements in Carbon Storage Technologies			
1530-1600 hours	Coffee and Tea Break			
1600-1800 hours	Session 6: Subsurface Utilisation: Harnessing CO2 for Enhanced Hydrocarbon Recovery or Other Novel Subsurface Processes			
1800-1830 hours	Workshop Summary and Closing Remarks			

## REGISTER TODAY 🔭







Visit our website to view full technical programme today!



Early Bird and Group Registration Savings Available.









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## Tuesday, 3 September 2024

0900 - 0930

Welcome Remarks and Keynote Address



#### **WELCOME REMARKS**

Ryuichi Uchimura Workshop Co-chair Deputy Managing Director Senior General Manager Technical Project Co-Director of BIGST

JX Nippon Oil & Gas Exploration (Malaysia) Limited



#### **WELCOME REMARKS**

Siti Normaizan Hassan Workshop Co-chair General Manager of Discovered Resource Arrangement Resource Development Management Malaysia Petroleum Management PETRONAS

#### 0930 - 1100

## PANEL SESSION: POLICY AND REGULATORY FRAMEWORKS

Moderators: Mark Edmondson, Computer Modelling Group Limited; Siti Aishah Mohd Hatta, Global CCS Institute

This panel session will offer a technical exploration of existing policies, regulations, and incentives at both regional and global scales, shaping the future of carbon management and environmental sustainability.

1100 - 1130 | GROUP PHOTO / COFFEE AND TEA BREAK

#### 1130 - 1230

SESSION 1: ADVANCEMENTS IN GEOLOGICAL CO2 STORAGE: METHODS, CHALLENGES, AND IMPLICATIONS I

Session Managers: Ana Widyanita, PETRONAS; Pankaj Tiwari, PETRONAS Research Sdn. Bhd.; Chiara Cavalleri, SLB

This session will offer a comprehensive subsurface evaluation of the complexities involved in CO2 storage, including screening, identification, characterisation, and utilisation of geological formations for long-term carbon storage.

1230 - 1330 | NETWORKING LUNCHEON

#### 1330 - 1430

SESSION 1: ADVANCEMENTS IN GEOLOGICAL CO2 STORAGE: METHODS, CHALLENGES, AND IMPLICATIONS II

Session Managers: Ana Widyanita, PETRONAS; Pankaj Tiwari, PETRONAS Research Sdn. Bhd.; Chiara Cavalleri, SLB

1430 - 1530

SESSION 2: CCS WELLS DESIGN AND MANAGEMENT I

Session Managers: Edward Hoskin, Ikon Science Ltd.; Noufal Al Nofali, Petroleum Development Oman

CCS wells serve as the primary infrastructure for injecting and storing captured CO2 deep underground. This session will focus on critical strategies and practices essential for optimising the performance and integrity of CCS wells throughout their entire lifespan.

1530 - 1600 | COFFEE AND TEA BREAK

#### 1600 - 1700

# SESSION 2: CCS WELLS DESIGN AND MANAGEMENT II

Session Managers: Edward Hoskin, Ikon Science Ltd.; Noufal Al Nofali, Petroleum Development Oman

#### 1700 - 1800

SESSION 3: ADVANCEMENTS IN MONITORING, MEASUREMENT, AND VERIFICATION (MMV) AND SURVEILLANCE FOR CO2 STORAGE PROJECTS I

Session Managers: Pankaj Tiwari, PETRONAS Research Sdn. Bhd.; Kanda Vattanapornpirom, PTT Exploration and Production Public Company Limited; Ludovic Ricard, CSIRO Energy

This session will delve into cutting-edge advancements in Monitoring, Measurement, and Verification (MMV) tailored for carbon injection projects crucial for combating climate change while ensuring the safety and efficiency of CO2 storage.

1800 ONWARDS | NETWORKING DINNER









3-4 SEPTEMBER 2024 | KUALA LUMPUR, MALAYSIA

## Wednesday, 4 September 2024

0800 - 0900

REGISTRATION AND WELCOME REFRESHMENTS

0900 - 1000

SESSION 3: ADVANCEMENTS IN
MONITORING, MEASUREMENT, AND
VERIFICATION (MMV) AND SURVEILLANCE
FOR CO2 STORAGE PROJECTS II

Session Managers: Ludovic Ricard, CSIRO Energy; Pankaj Tiwari, PETRONAS Research Sdn. Bhd.; Kanda Vattanapornpirom, PTT Exploration and Production Public Company Limited

1000 - 1030 | COFFEE AND TEA BREAK

1030 - 1230

# SESSION 4: INJECTION STRATEGIES AND RISK MANAGEMENT

Session Managers: Adil Pottayil, Calsep Asia Pacific Sdn. Bhd.; Sho Hirose, Japan Petroleum Exploration Co., Ltd. (JAPEX); Dwandari Ralanarko, PT Pertamina

Successful execution and sustained operation of CCS projects require a thorough evaluation of injection and storage dynamics. Understanding how various formation parameters influence injectivity is crucial. This session will explore the key factors of a successful injection strategy while assessing the associated risks.

1230 - 1330 | NETWORKING LUNCHEON

1330 - 1530

## SESSION 5: ADVANCEMENTS IN CARBON STORAGE TECHNOLOGIES

Session Managers: Satyabrata Nayak, **PETRONAS**; Chiara Cavalleri, **SLB** 

This session will discuss technological advancements and evaluation workflows to address the challenges associated with safe and effective CO2 storage, from site characterisation to the development and execution of carbon sequestration and monitoring programmes.

1530 - 1600 | COFFEE AND TEA BREAK

1600 - 1800

SESSION 6: SUBSURFACE UTILISATION:
HARNESSING CO2 FOR ENHANCED
HYDROCARBON RECOVERY OR OTHER NOVEL
SUBSURFACE PROCESSES

Session Managers: Mark Edmondson, Computer Modelling Group Limited; Zhenjie Chai, JX Nippon Oil & Gas Exploration (Malaysia) Limited

This session will examine the dynamics of carbon utilisation and the consequent challenges covering Enhanced Oil Recovery (EOR), Enhanced Gas Recovery (EGR), mineralisation, and other advanced technologies under the context of geological carbon sequestration.

1800 - 1830 | WORKSHOP SUMMARY AND CLOSING REMARKS















#### 3-4 SEPTEMBER 2024 | KUALA LUMPUR, MALAYSIA



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Company logo in all workshop Mobile App attendee emailers	✓	✓	✓
Company Logo listed in workshop brochure	✓	✓	✓

Sponsorship packages are offered on a first-come, first-served basis. Please contact Renee Wong at <a href="mailto:rwong@spe.org">rwong@spe.org</a> to verify the availability of a particular sponsorship package.



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## 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. Income from this event will be invested back into SPE to support many other Society programmes. When you attend an SPE event, you help provide even more opportunities for industry professionals to enhance their technical and professional competence. Scholarships, certification, the Distinguished Lecturer programme, and SPE's energy education programme Energy4Me® are just a few examples of programmes supported by SPE.











# Carbon Storage and Management

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.

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