



SPE Virtual Workshop: Integrated Reservoir Modelling and Simulation

7-9 December 2021 | Virtual [UTC +8]



Who Should Attend

Professionals involved in:

- Academics
- Asset Management
- Basin Study
- Data Science and Engineering
- Drilling
- Enhanced Oil Recovery (EOR)
- Field Development
- Geology
- Geological Modelling
- Geophysics
- Geomechanical and Geochemical Modelling
- Laboratory and Testing
- Petroleum Economics
- Petroleum Engineering
- Petrophysics
- Production Engineering and Technology
- Research and Development
- Reservoir Engineering
- Reservoir Management
- Reservoir Simulation
- Reservoir Surveillance
- Sustainability Development
- Software Engineering
- Well Completions

Amidst the current volatile oil prices, a cost-effective and value-added field development with proactive reservoir and production management requires attention more than ever. Over the years, this objective now goes hand in hand with the continuing progress in technology, both in its development and application. Reservoir modelling has remained the tool to unravel complex rock-fluid interactions to provide pragmatic predictions of production from oil and gas assets to assess business values.

New technological advancement in reservoir modelling helps to bring forward the opportunity to increase asset value, such as assessment of Enhanced Oil Recovery (EOR), field development optimisation, and effective asset management. In addition, the full spectrum of uncertainty analysis on integrated reservoir modelling is vital to capture subsurface and surface uncertainties and mitigate risks. Novel workflow such as live model update with real-time data can enhance the reliability of uncertainty forecasting. Moreover, new research trends such as big data analytics, artificial intelligence, neural network, advanced algorithms, streamlined operation in reservoir modelling and simulation are expected to improve the quality of technical studies, hence better decision-making.

The demand for green technologies such as Carbon Capture, Utilisation and Storage (CCUS) has recently increased, coinciding with the commitment from companies and government agencies in reducing carbon emissions and creating more sustainable projects. Improvements in modelling CO₂ for sequestration projects, for example, addresses the need for technical excellence as well as ensuring the highest safety in the storage and containment aspects.

This technical workshop will explore current technologies in integrated reservoir modelling along with case studies, best practices, and lessons learnt.

Session Highlights

Modern Computational Tools for Reservoir Characterisation, Modelling and Simulation

Reservoir Simulation - Integration, Enhancements, and Special Techniques

Reservoir Characterisation and Modelling for Complex Reservoirs

Integrated Asset Modelling Workflow to Maximise Oil and Gas Recovery

Uncertainty Quantification and Field Development Optimisation under Uncertain Environment

Carbon Cycle Management

GROUP REGISTRATIONS AVAILABLE
Contact us at apweb@spe.org to arrange your group.

go.spe.org/22WM11W

Workshop Objectives

This workshop aims to establish a greater understanding of integrated reservoir modelling and simulation for optimised operations to accommodate current and future market needs. Furthermore, this workshop provides an avenue for knowledge and idea exchange by sharing the latest technologies, case studies, lessons learnt, and workflows to achieve better predictions and improve decision-making.



Bespoke, expert-led technical topics



Knowledge sharing and technical discussions



Peer-to-peer networking opportunities



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Note: All times are Greenwich Mean Time (UTC) +8

| TUESDAY, 7 DECEMBER 2021 | |
|----------------------------|---|
| 1300 - 1315 hours | Welcome Remarks by Workshop Co-Chairs |
| 1315 - 1430 hours | Session 1: Modern Computational Tools for Reservoir Characterisation, Modelling and Simulation |
| 1430 - 1500 hours | Networking Break |
| 1500 - 1630 hours | Session 2: Reservoir Simulation - Integration, Enhancements, and Special Techniques |
| 1630 - 1700 hours | Networking Break |
| WEDNESDAY, 8 DECEMBER 2021 | |
| 1300 - 1430 hours | Session 3: Reservoir Characterisation and Modelling for Complex Reservoirs |
| 1430 - 1500 hours | Networking Break |
| 1500 - 1630 hours | Session 4: Integrated Asset Modelling Workflow to Maximise Oil and Gas Recovery |
| 1630 - 1700 hours | Networking Break |
| THURSDAY, 9 DECEMBER 2021 | |
| 1300 - 1430 hours | Session 5: Uncertainty Quantification and Field Development Optimisation under Uncertain Environment |
| 1430 - 1500 hours | Networking Break |
| 1500 - 1630 hours | Session 6: Carbon Cycle Management |
| 1630 - 1700 hours | Networking Break |

Register and join the sessions at your local time:

0800 hours - Doha / Kuwait City / Manama / Riyadh
 0900 hours - Abu Dhabi / Dubai / Muscat
 1030 hours - New Delhi
 1130 hours - Yangon
 1200 hours - Bangkok / Hanoi / Jakarta

1300 hours - Bandar Seri Begawan / Beijing / Kuala Lumpur / Perth / Singapore
 1400 hours - Tokyo / Seoul
 1430 hours - Adelaide
 1500 hours - Brisbane
 1700 hours - Wellington



Technical Programme Preview

TUESDAY, 7 DECEMBER 2021

1300 - 1315 hours **Welcome Remarks by Workshop Co-chairs**

Co-chairs: *Uday Shankar, PETRONAS Carigali Sdn Bhd; Chonlada Doungprasertuk, PTTEP*

1315 - 1430 hours

Session 1: Modern Computational Tools for Reservoir Characterisation, Modelling and Simulation

Session Managers: *Dipak Mandal, Dialog Energy Sdn Bhd; Nur Izzaty Syuhada Romzi, Emerson E&P Software; Leonardo Patacchini, Stone Ridge Technology*

Over the last decade, the industry has been experiencing the emergence of several computational technologies that bring significant impacts in reservoir characterisation, modelling, and simulation. These are reflected in several key areas; firstly, on the algorithm side: with the adoption of artificial intelligence and data analytics in reservoir modelling to improve decision-making. Secondly, on the hardware side: the application of graphics processing units (GPUs) that enabled the reservoir modelling community to run more and faster simulations, particularly in facilitating access to ensemble modelling. Thirdly, on the infrastructure and usability side: with the expanding usage of cloud offerings to facilitate access to applications and data integration from various sources.

This session will focus on the following related discussion topics:

- Application of data analytics to petrophysics, reservoir characterisation, and geomodelling workflows
- Non-physics-based reservoir modelling, multi-fidelity simulations, and facilitation of cross-team integration (e.g. Reservoir, Wells, Facilities Management System - RWFM)
- Next generation of reservoir modelling software and hardware
- Cloud platforms and development of on-demand access as an enabler for large and small companies to adopt modern hardware, as well as to facilitate the integration of various disciplines in the reservoir modelling chain

1430 - 1500 hours Networking Break

TUESDAY, 7 DECEMBER 2021

1500 - 1630 hours

Session 2: Reservoir Simulation - Integration, Enhancements, and Special Techniques**Session Managers:** *Murali Raghunathan, PETRONAS Carigali Sdn Bhd; Dewi Haerani Kurniawati, Rock Flow Dynamics*

Managing mature fields in practice has pushed reservoir engineers to their limits in performing their tasks, whilst integration has become the key “mantra” for securing higher value from the fields. The landscape of working teams has undergone enormous change as it leverages integration amongst disciplines, which has taken reservoir simulations to a higher level. Further simulation projects encompassing multi-disciplinary approaches are more common now than in the past decades. Through new techniques/methodology, enhanced workflows, and seamless integration, reservoir simulation has taken advantage of the increased computational capabilities. Having seen these changes, the application of high-end computing has enabled reservoir engineers to explore further.

This session will discuss innovations, latest technologies, and case studies in addition to advancements in simulating geo-mechanical, geochemical, thermal, and chemical processes. Topics may include but are not limited to:

- Advances in simulating the basics of the Enhanced Oil Recovery (EOR) process
- Assisted history matching techniques especially in matured fields
- Locating remaining oil through hybrid solutions through simulation and machine learning/artificial intelligence techniques
- Advances in computer hardware as an enabler
- Geomechanical and thermal coupling of simulation models
- Enhancements in network modelling highlighting surface-subsurface integration

1630 - 1700 hours

Networking Break

WEDNESDAY, 8 DECEMBER 2021

1300 - 1430 hours

Session 3: Reservoir Characterisation and Modelling for Complex Reservoirs**Session Managers:** *Thomas Setiawan Tjahyadi, ConocoPhillips; I Nengah Nuada, Mubadala Petroleum Thailand; Grace Stephani Titaley, PT PERTAMINA Hulu Energi, Robet Wahyu Widodo, PT PERTAMINA Hulu Energi*

In recent years, the reservoir model has been widely used to assist field development more than ever. It became an important tool for the development and management of petroleum reservoirs. Accurate reservoir performance predictions can be obtained through reservoir simulation using a previously built geological model that comprises parameters obtained through reservoir characterisation.

Reservoir characterisation is an important step and provides necessary input in building a reservoir model. Complex reservoirs such as thin beds, multilayers, unconventional, fractured, and carbonates often face challenging reservoir characterisation. However, with the advancement of technology and increased collaboration between multiple disciplines, proper characterisation in these challenging reservoirs can be economically rewarding.

This session will focus on the latest innovations, methodologies, best practices, and case studies of reservoir characterisation and modelling for complex reservoirs. Related topics may also include multi-reservoirs and multi-fluid modelling.

1430 - 1500 hours

Networking Break

1500 - 1630 hours

Session 4: Integrated Asset Modelling Workflow to Maximise Oil and Gas Recovery**Session Managers:** *Mohamad Yusman Mohamat Yatim, Emerson E&P Software; Mahmoud Bedewi, Halliburton; Muhammad Hafiz Khairul Azmi, JX Nippon Oil & Gas Exploration (Malaysia) Limited*

This session will discuss top-down workflow integration focusing on solving surface and subsurface challenges for maximising hydrocarbon recovery. Recent advancement in data science coupled with powerful computing capabilities allows for more robust integration across the different departments. Challenges faced in operations can be detected early and risks can be mitigated accordingly. Related discussion topics may include:

- Tackling challenges in well and surface network modelling
- New advancement in the subsurface to surface modelling technology
- Solving production nomination and/or allocation uncertainty
- Live model update and real-time data from reservoir simulations
- Integration of surface and subsurface models for optimising production challenges
- Implementation of virtual metering to compliment industry-standard monitoring
- Use of real-time data with life-of-field simulation to remotely manage asset and control surface equipment such as pumps, compressors, etc.

1630 - 1700 hours

Networking Break

THURSDAY, 9 DECEMBER 2021

1300 - 1430 hours **Session 5: Uncertainty Quantification and Field Development Optimisation under Uncertain Environment**
Session Managers: *Francesco Falsini, Resoptima Sdn Bhd; Smail Chouya, Schlumberger; Wa Wee Wei, Schlumberger*

The recent pandemic and long-term oil price volatility has imposed large uncertainties on the oil and gas market outlook. Considering the current business environment, robust field development decision-making particularly under subsurface uncertainties and multiple scenarios evaluation are required more than ever to help oil and gas companies to guard against downside risk and be ready for any potential upside.

The session will focus on case studies highlighting best practices, success stories and lessons learnt in probabilistic reservoir subsurface uncertainty quantification, and risk assessment to achieve a robust field development plan (FDP). Related topics may include:

- Integrated static-dynamic uncertainty and risk assessment: Automated and integrated workflow application, challenges, and improvement
- Cross-discipline integrated uncertainty and risk assessment: Surface facilities, processes, economics, and more
- New assisted history matching algorithms and approaches including design of experiments (DOE)
- Ensemble-based reservoir modelling for history matching and field development plan (FDP) optimisation
- Agile uncertainty and risk assessment enabled by digital offerings such as cloud and high performance computing (HPC) solutions
- Role of data analytics and big data solutions including artificial intelligence, machine learning as well as data mining in uncertainty quantification and solutions

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 6: Carbon Cycle Management**
Session Managers: *Robert Porjesz, CGG; Mohamad Kamal Hamdan, PTTEP*

Carbon capture, utilisation and storage (CCUS) techniques have an essential role to play to reach the ambitious goals of net-zero carbon emission by 2050 in many countries around the world. This net-zero emission target offers unparalleled opportunities for the oil and gas sector with its decades of experience in subsurface modelling. Capturing, transporting, utilising, and sequestering CO₂ comes with its own challenges and is capital-intensive. This put more emphasis on novel and advanced technologies to be developed for a more technically feasible and economically viable solution. Methods developed, deployed, and proven in the oil and gas industry have been extended to CCUS projects and new approaches have been introduced and are being implemented. These techniques are needed to address challenges specific to the modelling and management of CO₂ itself, including utilisation aspects such as blue hydrogen, fuel, chemicals, etc. This session aims to cover the extensive modelling techniques and approach for CO₂ related activities, which include:

- Screening of potential onshore and offshore CO₂ sites
- Storage site/caprock characterisation
- Laboratory testing
- Injection optimisation
- Storage site, caprock and well integrity analyses and modelling
- Flow assurance
- Integrated models
- Storage development plans
- Carbon utilisation (EOR, blue H₂, fuels, etc.)
- Long-term monitoring solution
- Environmental impact

1630 - 1700 hours Networking Break

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Workshop Guidelines

1. Documentation

- Presentation slides / Proceedings will not be published; therefore, formal papers and handouts are not expected from Discussion Leaders.
- Work in progress, new ideas, and interesting projects are sought.
- Resource documents may be provided as pre-reads and during the live event.

2. Workshop Deliverables

- An on-demand version of the live event sessions will be made available to registered participants only.
- Provision of the live event sessions and presentation materials by Discussion Leaders will signify their permission for SPE to do so.

3. Commercialism

In keeping with the Workshop objectives and the SPE mission, excessive commercialism in presentations are not permitted. Company logos must be limited to the title slide and used only to indicate the affiliation of the presenter.

4. Certificate of Attendance

All full access attendees will receive a certificate of attendance post event.

5. Continuing Education Units

This Workshop qualifies for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the Workshop.

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| Description | | Fee Per Person | | | Tick (✓) | Amount (USD) |
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| Workshop | Member | USD 420 | USD 470 | USD 520 | | |
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