



PETRONAS

SPE/VPI Virtual Workshop: Mature Field Development and IOR/EOR Technology

23 - 25 FEBRUARY 2021 | VIRTUAL [UTC +8]



Who Should Attend

Professionals involved in:

- Artificial Intelligence
- Asset Management
- Digitalisation
- Drilling and Completion
- Emerging Technology and Innovation
- Field Development Planning
- Geoscience
- Improved Oil Recovery (IOR) and Enhanced Oil Recovery (EOR)
- Facilities and Operations
- Production Enhancement
- Machine Learning
- Production Technology
- Reservoir Management
- Reservoir Surveillance
- Reservoir Monitoring and Intervention
- Well Intervention

Finding new and sizable oil and gas fields is becoming ever challenging. Recent announcements of hydrocarbon discoveries are mainly marginal. In addition, the oil price volatility has hugely impacted the speed of investment in exploration and new development. With a considerably large amount of recoverable oil and gas remaining in various mature fields, oil companies have focused on adding value to existing assets.

The current situation has encouraged operators and contractors to further develop advanced technologies and work methods, such as IOR/EOR techniques, to allow enhanced oil and gas production from existing developed fields to maximise economic recovery. As IOR/EOR has become an increasingly significant investment option, the industry will continue to see improvement in production efficiency and enhancement activities, restoration of production wells, innovation of drilling and completion of infill well, as well as results from case studies and research employing advanced oil recovery techniques.

The objective of this workshop is to share knowledge and experience on cost-effective IOR/EOR methods for production improvement, as well as examples on strategies employed for extending field life and improving recovery for mature fields. In the era of Industry 4.0, new approaches such as production digitalisation and artificial intelligence are becoming useful tools for effective reservoir management of mature fields.

This workshop is designed to bring together operators, contractors, service providers, and thought leaders to share knowledge, information, best practices, ideas, and plans while collaborating cohesively to further understanding on opportunities to redevelop and improve late-life assets.

Session Highlights

Addressing Challenges in Mature Fields and EOR	Reservoir Characterisation and Modelling	EOR Techniques and Advanced EOR Case Studies
Reservoir Management and Production Efficiencies of Mature Field	Improve Secondary Recovery	Application of New Digital Technology

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

go.spe.org/21WM15W

Workshop Objectives

This workshop provides a platform for sharing experiences, knowledge, successes and challenges, learnings and ideas to further develop IOR/EOR technologies and their applications; in a focused and practical manner for the benefit of engineering professionals in the oil and gas industry. The two-day workshop will be highly interactive; encouraging all the participants to contribute their knowledge and findings on mature fields IOR/EOR challenges, while networking with industry colleagues and innovators through discussions and teamwork.



hours of peer-to-peer networking opportunities



hours of knowledge sharing and technical discussion



expert-led technical discussion topics



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East Asset Development Lead
**Brunei Shell Petroleum Co
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Vietnam Petroleum Institute (VPI)

WORKSHOP ADVISOR



Serge Hayon
Senior Manager, Development
Murphy Exploration & Production Company
Member, SPE Asia Pacific Regional Technical Advisory Committee

Programme Schedule

Tuesday, 23 February 2021	
1300 - 1430 hours	Welcome Remarks and Session 1 Addressing Challenges in Mature Fields and EOR
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 2 Reservoir Characterisation and Modelling
1630 - 1700 hours	Networking Break
Wednesday, 24 February 2021	
1300 - 1430 hours	Session 3 EOR Techniques and Advanced EOR Case Studies
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 4 Reservoir Management and Production Efficiencies of Mature Field
1630 - 1700 hours	Networking Break
Thursday, 25 February 2021	
1300 - 1430 hours	Session 5 Improve Secondary Recovery
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 6 Application of New Digital Technology
1630 - 1700 hours	Networking Break

Technical Programme Preview

TUESDAY, 23 FEBRUARY 2021

- 1300 - 1305 hours **Welcome Remarks**
Co-Chairs: Syahrini Mokhtar, **PETRONAS**; Andrew Parker, **Brunei Shell Petroleum**
- 1305 - 1430 hours **Session 1: Addressing Challenges in Mature Fields and EOR**
Session Managers: Serge Hayon, **Murphy Exploration & Production Company**; Syahrini Mokhtar, **PETRONAS**; Andrew Parker, **Brunei Shell Petroleum**

Currently, most of the world's oil production come from mature fields. Increasing oil recovery from aging resources and adapting to the changing economic climate are major concerns for oil companies and authorities. In addition, the rate of replacement of produced reserves by new discoveries have been declining steadily over time. Therefore, increasing recovery factors from mature fields under conventional production will be critical to meet the growing energy demand in the coming years. Many companies have been addressing these challenges by focusing on investment opportunities to maximise oil reserves recovered, extend the life of fields, increasing the recovery factor, maintaining production, and increasing the returns on older investments.

As IOR/EOR become gradually more significant for mature field development, the oil industry continuously faces challenges in operations and management of EOR projects globally. These include technical issues such as the complicated nature of oil and gas reservoir and rock and fluid properties; and commercial concerns related to the high cost of EOR and volatility of the oil price.

This session will cover topics discussing these challenges and examples of what companies are doing to address them.

1430 - 1500 hours Networking Break

- 1500 - 1630 hours **Session 2: Reservoir Characterisation and Modelling**
Session Managers: Mas Rizal Abdul Rahim, **PETRONAS**; Oluwole Talabi, **Schlumberger**; Pham Huy Giao, **Vietnam Petroleum Institute (VPI)**

Reservoir characterisation is a broad discipline of geosciences and engineering branches. The integration of formation evaluation, petrophysical characterisation, geological studies, geophysical interpretations, and engineering characterisations are the main content of reservoir characterisation. For mature fields, models generated by reservoir characterisation studies are always controlled / validated by dynamic data and become very effective in optimising production of field development management.

This session will share experiences, successes and challenges, and lessons learnt from reservoir characterisation and modelling for mature fields. The key topics of this section are studies and practices of geological, geophysical, fluid, and integrated reservoir modelling such as:

- Methods and case studies to efficiently find and develop the remaining production potential of mature fields
- New or improved reservoir characterisation methods for reservoir modelling, and for evaluation of IOR / EOR applications, including application of artificial intelligence (AI) and machine learning in predicting reservoir properties

1630 - 1700 hours Networking Break

WEDNESDAY, 24 FEBRUARY 2021

1300 - 1430 hours **Session 3: EOR Techniques and Advanced EOR Case Studies**

Session Managers: *Falan Srisuriyachai, Chulalongkorn University; Monrawee Panchareon, PTTEP; Flavien Gathier, SNF Floerger*

This session will highlight EOR techniques and emerging technologies that can improve EOR efficiency, in both conventional and unconventional reservoirs. It aims to cover all phases of application from technology/method screening, laboratory experiments, reservoir simulation, and field implementation. Insights and lessons learnt from advanced case studies on EOR applications will also be discussed. Key topics will cover:

- Successes and/or failures of EOR implementation
- Modification and/or combination of EOR techniques
- Researches in new EOR techniques

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 4: Reservoir Management and Production Efficiencies of Mature Field**

Session Managers: *Fairuz Mahfar, EnQuest; Benjamin Luke Butler, Halliburton; Markus Gruenwalder, Repsol S.A.*

Mature fields impose various challenges; water and sand production, souring, production system bottleneck, high production cost; just to name a few. These challenges continue to hinder operators from maximising the value of their assets.

The big question is - How does the industry sustain production of a declining mature field? There are many opportunities to address this, such as through holistic strategies addressing subsurface and surface aspects of the asset, utilisation of artificial intelligence to ease opportunities for identification and generation, and proven technologies to boost asset value.

This session will discuss the case studies and innovative approaches in reservoir management, and production technologies applied worldwide to overcome mature field challenges.

1630 - 1700 hours Networking Break

THURSDAY, 25 FEBRUARY 2021

1300 - 1430 hours **Session 5: Improve Secondary Recovery**
Session Managers: *Iswahyuni Fifthana Hayati, Pertamina Hulu Mahakam; Che Engku M Rizal Che Engku, PETRONAS; Oluwole Talabi, Schlumberger*

Secondary recovery implementation is a complex process, and successful applications need to be tailored to specific reservoir properties. Successful application of secondary recovery methods, such as through water or gas injection, can lead to significant increase of the recovery factor. Secondary recovery methods are widely used due to lower investment requirements as compared to tertiary recovery methods, especially for marginal and small offshore fields. The key elements of an effective secondary recovery programme include surveillance and specific reservoir data acquisitions, flood performance, and simulation study of the process.

This session will focus on secondary recovery applications in (but not restricted to) various cases in Vietnam, ranging from water and gas injection to naturally fractured basement reservoirs, dry gas injection in condensate rich reservoirs, with an emphasis on the design of the process and lessons learnt from real field experiences. Key topics will cover:

- Gaslift optimisation
- ESP application for mature fields
- Water flooding management for high watercut reservoirs
- Gas recycling opportunity/Challenges for oil and gas condensate reservoirs

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 6: Application of New Digital Technology**
Session Managers: *Nguyen Minh Quy, Vietnam Petroleum Institute (VPI); Pham Quy Ngoc, Vietnam Petroleum Institute (VPI)*

With more than a decade of digital oil field implementations, the industry began its own digital transformation through the Internet of Things (IoT), big data analytics, and machine learning algorithms to enhance the exploration and production life cycle. This section is devoted to share the applications of digital transformation and machine learning, and to investigate all possible solutions to increase the oil recovery of mature fields. This session will discuss and address the following related topics:

- Application of AI in EOR
- Applications of AI/big data/IoTs to optimise oil and gas production
- History matching with machine learning tools
- Prediction of petrophysical/geomechanical properties using AI techniques
- Prediction of PVT data using AI
- Well log analysis using machine learning techniques
- Well testing interpretation with AI

1630 - 1700 hours Networking Break

Register and join the sessions at your local time:

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1030 hours - New Delhi
1130 hours - Yangon
1200 hours - Bangkok / Hanoi / Jakarta

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Company logo in on-demand materials up to three (3) months post event	✓	✓	✓

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

2. Workshop Deliverables

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

3. Commercialism

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4. Certificate of Attendance

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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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 23 – 25 February 2021 | 13:00 hours (UTC +8)



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	Non-Member	USD 440	USD 470	USD 500		
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TOTAL AMOUNT (USD)						

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