

Sand Control Management

10 - 12 November 2020 | VIRTUAL [UTC+8]



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for EARLY BIRD DISCOUNT!**



Who Should Attend

Professionals involved in:

- Asset management
- Asset operations
- Digitalisation
- Drilling and completions
- Geomechanics
- Production engineering
- Production technology
- Research and development
- Reservoir engineering
- Sand control management

The world is going through a major crisis in our generation with the global COVID-19 pandemic, coupled with a slowing global economy leading to lower hydrocarbon prices. Although prices have somewhat recovered, the expectation is that these low hydrocarbon prices will stay for longer. This year, the Sand Control and Management workshop will focus on how we can accelerate the application of new technologies, methodologies and digitalisation, so that the industry can survive.

Much of the world's hydrocarbons are produced from sand prone reservoirs. If unmitigated, sand production has serious consequences; it curtails production, impacts well and facility integrity and consequently, adversely affects economics. Efforts to maximise production, while effectively controlling and managing sand production are essential for successful production management. Another area of focus is fines control and management. Fines smaller than 45 microns is much more challenging to tackle compared to larger sand particles. Usually it is intended to be produced rather than controlled but can severely damage tubular and equipment in high rate wells and can accumulate in horizontal wellbore stopping production. Operators attempt various methods to overcome issues with fines.

Sand management spans from exploration stage to the end of field life. Prior to well drilling, geomechanical studies are conducted to minimise drilling and production risks, and offer appropriate development and production planning to help production management throughout field life. Effective and efficient sand management is only possible with the integrated, multidisciplinary-focused collaborations between geology, petrophysics, geomechanics, reservoir engineering, production technology, drilling, completions, process, facilities, integrity, materials and more. Recently, real-time monitoring and control capabilities through integrated operations or digital field has further improved integrated sand management, and maximised uptime and asset efficiencies.

This workshop will look into economical sand control and management, and discuss advancements in geomechanical modelling and prediction, fines management, solids control and management technologies for subsurface and surface, integrated long-term management, monitoring and sampling, including a holistic approach to strategy development and implementation. These strategies and advancements will help maximise business values in new developments as well as existing assets. This workshop will also discuss how we can adapt to the new environment with technologies, methodologies and digitalisation in sand management in order for the industry to remain sustainable.

Session Highlights

Panel Session: Sand Control and Management - Staying Resilient through Pandemic and Oil Price Crash Towards Sustainability

Geomechanics and Sand Production Predictions

Downhole Sand Control Technologies

Remedial Sand Control

Sand Monitoring, Sampling, Digitalisation and Data Analytics

Surface Sand Removal, Disposal and Management

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

go.spe.org/21WM06W

Workshop Objectives

This workshop provides opportunities for sharing and discussing views, experience, success stories, technology advancement, and challenges from operators, service providers, regulators, and decision makers. The programme discusses lessons learnt and value improvements generated through strategic collaborations, and innovative strategies to design for disassembly instead of for decommissioning, improve development commercial viability, and execution efficiency to sustain and prolong the field life.



hours of peer-to-peer networking opportunities



hours of knowledge sharing and technical discussion



expert-led technical discussion topics



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WORKSHOP ADVISORS



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Management (MPM)
PETRONAS



Sharifudin Salahudin
Managing Director
Sutera Energy Solutions Sdn Bhd

Programme Schedule

Tuesday, 10 November 2020	
1300 - 1430 hours	Welcome Remarks, Keynote Address and Session 1 Panel Session: Sand Control and Management - Staying Resilient through Pandemic and Oil Price Crash Towards Sustainability
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 2: Geomechanics and Sand Production Predictions
1630 - 1700 hours	Networking Break
Wednesday, 11 November 2020	
1300 - 1430 hours	Session 3: Downhole Sand Control Technologies
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 4: Remedial Sand Control
1630 - 1700 hours	Networking Break
Thursday, 12 November 2020	
1300 - 1430 hours	Session 5: Sand Monitoring, Sampling, Digitalisation and Data Analytics
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 6: Surface Sand Removal, Disposal and Management
1630 - 1700 hours	Networking Break

Technical Programme Preview

TUESDAY, 10 NOVEMBER 2020

1300 - 1315 hours **Welcome Remarks**
Co-Chairs: Cheol Hwan Roh, PETRONAS Carigali Sdn Bhd; Walrick E.J.J. van Zandvoord, Brunei Shell Petroleum Sdn Bhd

1315 - 1330 hours **Keynote Address**

1330 - 1430 hours **Session 1: Panel Session: Sand Control and Management - Staying Resilient through Pandemic and Oil Price Crash Towards Sustainability**
Session Managers: Suzanna Juyanty M Jeffry, PETRONAS; Domenice John Duncan, PTTEP Malaysia

With the industry facing challenges due to COVID-19 pandemic and low oil price, cost or value-driven solutions are required to ensure sustainability in project economics and effective management. The panellists will discuss the challenges faced by their organisations, and how they overcome the situation in achieving financial goals, as well as maximising recovery through integrated solutions and multi-disciplinary collaborations.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 2: Geomechanics and Sand Production Predictions**
Session Managers: Frank Wijnands, PETRONAS Carigali Sdn Bhd; Abbas Khaksar, Baker Hughes; Zurita Johar, PETRONAS Carigali Sdn Bhd

This session will focus on predicting the onset of rock failure leading to sand production; such as location, timing, volume, and rate of solids production over the well lifecycle. Conditions such as function of rock mechanical properties, grain size, geological stress, wellbore orientation, perforation geometry, flow rate, reservoir pressure, and water cut are the critical areas to be reviewed in this process.

Predicting solids volumes and rates are still considered challenging, however, credible sand predictions are critical to provide valuable insights to completion and production engineers, to develop fit-for-purpose sand management and sand control strategies.

This session aims to discuss proven case studies from both clastics and carbonate reservoirs, the robustness and reliability of current analytical, and numerical geomechanical sand prediction methodologies.

1630 - 1700 hours Networking Break

WEDNESDAY, 11 NOVEMBER 2020

1300 - 1430 hours **Session 3: Downhole Sand Control Technologies**
Session Managers: Orient Balbir Samuel, PETRONAS Carigali Sdn Bhd; Kesavan Govinathan, DuneFront; Siti Rodhiah Fazilah, PETRONAS

This session encompasses methodologies, lessons learnt and best practices from evaluation of both successes and failures during completion installation and long-term production. The focus of this session will include downhole solids control applications in open hole and cased hole, such as standalone screen completions, gravel packs, high rate water pack, and frac-pack. The continuous improvement of solids management operations is rooted in the understanding of both installation and performance, which can only be achieved through detailed data analysis and evaluation.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 4: Remedial Sand Control**
Session Managers: Sulaiman Sidek, PETRONAS Carigali Sdn Bhd; Nicholas Moses, Schlumberger; Syazwan Abdul Ghani, PETRONAS Carigali Myanmar Limited

The remedial of sand issues caused by primary sand control installation failure, or wells that are completed without sand control, is an inherent problem in the oil and gas industry. Effective solutions have been extremely limited and costly; however, when these solutions are applied correctly, it can optimise the cost, safeguard assets, and prolong field life. This session will uncover the common 'myths' surrounding remedial sand control, and discuss lessons learnt on proper technique selection and placement, mechanical vs. chemical solutions, novel technologies, and innovative approaches.

1630 - 1700 hours Networking Break

THURSDAY, 12 NOVEMBER 2020

1300 - 1430 hours **Session 5: Sand Monitoring, Sampling, Digitalisation and Data Analytics**
Session Managers: Jonathan Luke Ambrose, **SMS Sand Management Service Sdn Bhd**; Feroz Sultan Maung Maung Myo Thant, **PETRONAS Research Sdn Bhd**; Nik Zarina Suryana Bt Nik Khamsani, **PETRONAS Carigali Sdn Bhd**

Traditionally, sand sampling revolves around spot sampling which poses several challenges such as HSE, transient nature of sand production, and risk of impairment to samples during the collection and processing stages. Sand monitoring, on the other hand, utilises manual, intrusive/non-intrusive methods, and interpretation of the data.

Prediction of sand count, erosion rate, and subsequent sand volume with respect to time-based machine learning can improve decision making in sand management, and proactively make corrective measurement for Loss of Primary Containment (LOPC) avoidance. With a single source of integrated database, this has become the new way of working in holistic sand management to accelerate analysis and design. This session focuses on the challenges surrounding hardware, data analysis, HSE of sand sampling and monitoring, and how digitalisation can improve the way to manage sand issues.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 6: Surface Sand Removal, Disposal and Management**
Session Managers: See Chin Kiat, **NGL Tech Sdn Bhd**; Badrul A. Abu Bakar, **Sarawak Shell Berhad**; Amal Majeedah Aji, **Brunei Shell Petroleum Sdn Bhd**

The dynamic and transient nature of multi-phase flow is the primary cause of low solids removal efficiency using conventional methods. Hazardous contaminants, such as mercury or Naturally Occurring Radioactive Material (NORM) in reservoir fluids or gas, can complicate the handling process of solids removed. As this becomes a risk for operators, stringent procedures and novel solutions are necessary.

Surface handling, as an initial strategy or in the case of downhole control failure, requires an estimate of expected solids volume, transport, and deposition modelling while ensuring the erosional integrity of downhole/wellhead/choke/flowline components. Safe and environmentally sustainable solids disposal becomes the final link in the surface sand management chain. This session will focus on solids handling on the surface, which require holistic strategies of solids 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
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Company logo in on-demand materials up to three (3) months post event	✓	✓	✓

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- 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

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- 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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Sand Control Management
 10 - 12 November 2020 | 13:00 hours (UTC +8)



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Do you wish to be considered a Discussion Leader (10-15 minutes presentation)? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please indicate the subject/topic on which you would like to present: _____ _____					
Please state your Technical Discipline (Select one ONLY): <input type="checkbox"/> Completions <input type="checkbox"/> Drilling <input type="checkbox"/> Health, Safety and Environment <input type="checkbox"/> Management and Information <input type="checkbox"/> Production and Operations <input type="checkbox"/> Reservoir <input type="checkbox"/> Projects, Facilities and Construction					
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TOTAL AMOUNT (USD)						

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