Significant amount of world oil and gas production comes from sand prone reservoirs. Sand production can cause serious consequences. It can curtail production, impact well and facility integrity, and adversely affect production economics. Efforts to maximise hydrocarbon production while effectively control and efficiently manage sand production are ever-lasting battles for successful production management.

Sand management spans from exploration stage to the end of field life. Prior to development well drilling, geomechanical studies minimise drilling and production surprises, offer appropriate development and production planning and help production management throughout field life. Sand management is implemented from downhole to surface facilities and pipelines to gathering stations. Sand production can increase as the reservoirs are depleted. Downhole sand control is the most common approach. Surface sand handling with desanders, disposal units, vessel cleaning, pipeline pigging, sand shipping and disposal is common in many areas. Some severe or sensitive conditions may necessitate both downhole active sand control and desanders. Effective and efficient sand management throughout field life and from the sources to the delivery points is only possible with the integrated multi-disciplinary focused collaborations between geology, petrophysics, geomechanics, reservoir engineering, production technology, drilling, completions, process, facilities, integrity, materials and so on. Recently, real-time monitoring and control capability through Integrated Operations or Digital Field can further improve the integrated sand management and maximise uptime and asset efficiency.

Solids production is not a unique problem only in sandstone. On the contrary to typical hard rock of the most of carbonate reservoirs in the world, some carbonate rocks fail and produce solids due to low mechanical strengths and chemical sensitivities depending on deposition environments and mineralogy. Such a weak carbonate rock requires geomechanical studies and solids management similar to sandstone.

This workshop will look into solids production in both sandstone and carbonate reservoirs, and discuss about advancements in geomechanical modelling and prediction, solids control and management technologies in both subsurface and surface, integrated life-long management, monitoring and sampling, and a holistic approach to strategy development and implementation with the view of maximising business values in new developments as well as existing assets.

Session Highlights

Sand and Carbonate Solids Control and Management – Towards Excellence in Integrated Solutions for Maximum Value Creation

18 – 19 FEBRUARY 2019 | KUALA LUMPUR, MALAYSIA

Who Should Attend
Professionals involved in:
- Reservoir Engineering
- Geomechanics Engineering
- Drilling and Completions
- Production Engineering
- Production Technology
- Asset Management
- Technology Development
- Research

Technical Programme Committee

CO-CHAIRPERSONS

Cheol Hwan Roh
PETRONAS Carigali Sdn Bhd

Rosiah Haji Ahmad
Brunel National Petroleum Company

COMMITTEE MEMBERS

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See Chin Kiat
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Siti Rodhiah Fazilah
PETRONAS

Khairul Azmi Mahadi
PETRONAS

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PETRONAS Research Sdn Bhd

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Babik Heidari
Schlumberger

Nicholas Moses
Schlumberger

Jonathan Luke Ambrose
SMS Sand Management Service Sdn Bhd

Ali Moncur
SMS Oilfield

Chat Junesompitsiri
Superior Energy Services

Isham Omar
Vantage Completion Solutions

WORKSHOP ADVISORS

Shahri Ridzouddin
Mohd Mohd Ali
PETRONAS

Sharifudin Salahudin
Sutra Energy Solutions Sdn Bhd

GROUP REGISTRATIONS AVAILABLE!
Contact us at spek1@spe.org to arrange your group.

go.spe.org/19WM08W
Workshop Objectives

The workshop aims to gather engineers and managers for a holistic discussion on sand and carbonate solids management including, solids production physics and latest techniques, and best practices in implementation and monitoring while maintaining a keen eye on value. Additional discussions on remedial and retrofit technologies, both downhole and at the surface will be included. The workshop is an open sharing forum with discussion of experiences, solutions, best practices and lessons learnt to meet the industry’s immediate and long term needs.

WORKSHOP STATISTICS

10+ hours of peer-to-peer networking opportunities
30+ hours of knowledge sharing and technical discussion
30 expert-led technical discussion topics

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MONDAY, 18 FEBRUARY 2019

0800 – 0850  Arrival of Delegates and Registration
0850 – 0900  Safety Announcement by Hotel
0900 – 0920  Session 1: Welcome and Introduction
Co-Chairpersons: Cheol Hwan Roh, PETRONAS Carigali Sdn Bhd; Rosiah Ahmad, Brunei National Petroleum Company
0920 – 1000  Session 2: Keynote Addresses
1000 – 1030  Group Photo/Coffee and Tea Break
Session Managers: M Zaidan Khalid, PETRONAS Carigali Sdn Bhd; Suzanna Juyanti M Jeffry, PETRONAS Carigali Sdn Bhd
Sand management has been a major challenge to operators for many years. Recent experience also shows solids production occurring in carbonate reservoirs. With the current challenges, integrated solutions in sand and solids management and control are required to ensure effective and efficient sand management throughout field life. The panelists in this session will discuss on the challenges of sand and carbonate solids production, integrated solutions through multidisciplinary collaborations to maximise hydrocarbon recovery and advancement in the industry for example real time sand monitoring through Integrated Operations (IO) or Digital Field to improve asset efficiency.

1230 – 1330  Networking Luncheon
1330 - 1430  Session 4: Poster Session 1
Session Managers: Siti Rodhiah Fazilah, PETRONAS; Nicholas Moses, Schlumberger
1430 - 1630  Session 5: Sandstone and Carbonate Geomechanics and Solids Production Predictions
Session Managers: Abbass Khaksar, Baker Hughes, a GE Company; Prapun Sooksawat, PTTEP; Babak Heidar, Schlumberger
This session focuses on predicting the onset of rock failure leading to sanding and solids production; the location, the timing and the severity of sanding and cumulative volume and rate of solids production over well life condition. Credible sand production prediction is a prerequisite for the implementation of any holistic sand and carbonate solids management strategy.
Session topics include factors that affect rock failure including rocks properties, distributions of Earth stresses around the borehole and their changes during field life, effect of well trajectory and perforation geometry, formation grain size and water-cut. Session discussions also include the merits and applicability of analytical and numerical predictive methodologies with proven field cases from both clastic and carbonate reservoirs highlighting the challenges and credibility of predictions for timely and fit for purpose sand and solids management decisions.

1630 - 1840  Welcome Dinner

1840 onwards  Welcome Dinner

POSTER SOLICITATION & INFORMATION

All participants are encouraged to prepare a poster for the Workshop. Presentations on both research and field experience are welcomed. Posters, including unconfirmed / partial results, are to be presented at an assigned time and are open for discussion. Posters will be on display for the entire Workshop period.

When preparing your poster:
- Avoid commercialism. No mention of trademarks / product name
- Poster size should be approximately 0.8m x 1.2m (W x H) or size A0 in portrait layout
- Identify topic by title, affiliation, address, and phone number
- Include a brief abstract that summarises the technology to be addressed
- Make the display as self-explanatory as possible
- Place the information in sequence: beginning with the main idea or problem, method used, results, etc. (Draw a plan keeping the size and number of illustrations in mind)
- Keep illustrations simple by using charts, graphs, drawings, and pictures to create interest and visually explain a point
- Use contrasting colours
- Use large print for narrative materials. (We suggest a minimum of 24 points or 3” high letters for the title)

*Note that the Workshop Programme Committee will review all poster abstracts / materials prior to display, and reserves the right to refuse permission to display any poster considered to be commercial in nature. If you are interested to participate, please email your proposed topic with a short abstract (between 200-300 words) to Jenny Chong at jchong@spe.org by 1 November 2018.

ATTENTION NON-MEMBERS: Join our worldwide membership!

Non-member full workshop attendees can join SPE at no additional cost. Look for your exclusive offer by email shortly after the event.
This session shares successes and failures of downhole solids control applications in open hole and cased hole, lessons learnt and best practices. Session topics will include standalone screen completions, gravel packs, high rate water pack and frac pack. The session will also cover new downhole solids control technologies, and economic analysis.

This session also encompasses methodologies, lessons learnt and best practices from the evaluation of both successes and failures during completion installation and longer term production. The continuous improvement of solids management operations is rooted in understanding of both installation and performance, which can only be gained through detailed data analysis and evaluation.

1840 onwards Welcome Dinner

TUESDAY, 19 FEBRUARY 2019

0830 – 0900 Arrival of Delegates and Registration

0900 – 0930 Session 7: Remedial Solids Control – Perception vs Facts

Session Managers: Chat Junesompitpisri, Superior Energy Services; Azhar Ali, PETRONAS Carigali Sdn Bhd

Either a failed primary sand control installation, or wells have been completed without sand control can pose a costly well intervention during the production life cycle of the well. Remedial sand control, when applied properly to the right candidate, can minimise these intervention costs in the long run. This session will cover the myths, believes, proper technique, selection between mechanical vs chemical solutions and share some case histories and lessons learnt.

1030 – 1040 Coffee and Tea Break

1040 – 1210 Session 8: Sand and Carbonate Solids Monitoring and Sampling in Surface and Subsurface

Session Managers: Jonathan Luke Ambrose, SMS Sand Management Service Sdn Bhd; Scott Huan Thai Woo, Kebabangan Petroleum Operating Company Sdn Bhd

This session focuses on solids monitoring and sampling which serves as a tell-tale on the effectiveness of the solids management program. It looks at the challenges on the hardware (specifying, installing, calibrating and maintaining suitable sensor array and checkpoints), as well as data analysis (making better sense of the data for improved monitoring and to go beyond qualitative monitoring). Gas wells pose more challenges in sampling due to the risks and require tailored sampling equipment and procedures compared to oil wells. Additionally, if the reservoir fluids or gas contain hazardous contaminants such as mercury or NORM, the sampling process becomes riskier therefore requiring stringent procedures.

1210 – 1310 Networking Luncheon

1310 – 1410 Session 9: Poster Session 2

Session Managers: Sri Rodchiah Fazilah, PETRONAS; Nicholas Moses, Schlumberger

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

1410 – 1540 Session 10: Surface Sand and Carbonate Solids Removal, Disposal and Management

Session Managers: Feroz Sultan, PETRONAS Research Sdn Bhd; See Chin Kiat, NGL Tech Sdn Bhd; Ali Muncor, SMS Oilfield

This session focuses on solids handling on surface which require holistic solids management strategy. Multi-phase flow poses low solids removal efficiency, especially in gas wells where initially produce mostly gas but later water condensate fraction increases gradually. And when the reservoir fluids or gas contain hazardous contaminants such as mercury or NORM, the handling process becomes riskier and require stringent procedures. Solids surface handling, whether as initial strategy or in the case of downhole solids control failure, requires an estimation of expected solids volume as well as transport and deposition modelling while ensuring the environmental integrity of downhole/wellhead/choke/flowline components. Safe and environmentally sustainable solids disposal becomes the final link in the sand management chain.

1540 – 1720 Coffee and Tea Break

1550 – 1720 Session 11: Integrated Operation through Digitalisation and Data Analytics for Solids Management

Session Managers: Khairul Azmi Mahadi, PETRONAS; Faical Baghdadi, PETRONAS Carigali Sdn Bhd; Raj Paramalingam, Murphy Sarawak Oil Company Ltd

In the current era of digitisation, data analytics, and big data, a significant amount of work that could not be realised a decade ago can easily be done today. While most industries have welcomed and adapted to these changes, the oil and gas industry has been rather slow to the game. Oil and gas industry has a huge amount of data from seismic, drilling, logging and production. This data could be used to help make value-added engineering decisions in field development, operation, life-extension and abandonment. Furthermore, small improvements in production efficiency can have a meaningful impact at mature assets, for example—carefully targeted digitalisation steps can cut costs and, more important, can also improve the reliability of production equipment, leading to higher revenues that can extend an asset’s economic life.

A typical offshore production platform can have more than 40,000 data tags. In the area of sand and carbonate solids control, there are an array of data that could be tapped to make better decisions to drive value. Converting this complex flood of data into better business and operating decisions requires new, carefully designed capabilities for data manipulation and analysis as well as tools to support decision making.

1720 – 1740 Session 12: Workshop Summary and Closing Remarks

Co-Chairpersons: Cheol Hwan Roh, PETRONAS Carigali Sdn Bhd; Rosiah Ahmad, Brunei National Petroleum Company

SPONSORSHIP SUPPORT INFORMATION

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.

Supporters benefit both directly and indirectly by having their names associated with a specific workshop. While SPE prohibits any type of commercialism within the workshop room itself, the Society recognises that supporting companies offer valuable information to attendees outside the technical sessions.

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In addition to onsite recognition, SPE will recognise sponsors on the SPE website and in all printed materials for the workshop. Based on the category selected, supporting companies also receive logo visibility on promotional workshop items.

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DOCUMENTATION

• Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers.
• Work-in-progress, new ideas, and interesting projects are sought.
• Note-taking by attendees is encouraged. However, to ensure free and open discussions, no formal records will be kept.

WORKSHOP DELIVERABLES

• The committee will prepare a full report containing highlights of the Workshop and the report will be circulated to all attendees.
• Powerpoint presentations will be posted online and provided to attendees after the Workshop. Provision of the materials by Discussion Leaders will signify their permission for SPE to do so.

COMMERCIALISM

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

ATTENDANCE CERTIFICATE

All attendees will receive a Workshop attendance certificate. This certificate will be provided in exchange for a complete Attendance Survey Form.

CONTINUING EDUCATION UNITS

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

TRAVEL/visa

Attendees are advised to book their airline tickets early. All travelers must be in possession of passports valid for at least six (6) months with proof of onward passage. Contact your local travel agent for information on visa requirements.

dress code

Business casual clothing is recommended. The Workshop atmosphere is informal.

Registration fee

• Registration fee ONLY includes all workshop sessions, coffee breaks and luncheons for the registrant. Accommodation is NOT included.
• SPE will provide details of recommended hotels upon receipt of your registration.

Taxes

• Registration Fees are made free and clear of, and without any deduction or withholding, if required by the laws of any country the sole responsibility of the Participant.

Registration Policy

• Registration fee MUST be paid in advance for attending the Workshop.
• Full refund is charged regardless of the length of time the registrant attends the Workshop, and cannot be prorated or reduced for anyone.

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 competencies. Scholarships, certification, the Distinguished Lecturer programmes, and SPE’s energy education programmes Energy4me are just a few examples of programmes that are supported by SPE.
Many oil and gas fields produce sand and solids. Sanding or solids production has multiple adverse effects on well productivity and integrity and can pose a high HSE risk. Source of solids or sands within the produced fluids is often the disintegrated formation grains from downhole mechanical failure of formation rocks under the production conditions. Sanding has a geomechanical root and it can be managed: “avoided/mitigated/controlled/handled”. Effective sand management calls for “multidisciplinary action” and starts with a robust understanding of field geomechanical conditions. Advanced analytical and numerical geomechanical analyses can identify the likelihood of sanding over well life, the likely sand producing zones, the timing (or formation pressure condition) and the severity of sanding. Such analyses will provide inputs and insights to completion engineers to make fit-for-purpose sand management decisions.

This short course on “Geomechanics for Sanding Prediction and Sand Management” is designed to provide geoscientists and engineers with the basics of petroleum rock mechanics and the use of well logs, core measurements, drilling and production information for geomechanical modelling, particularly on the application of reservoir geomechanics in sand production prediction and sand management decisions.

Objectives
This multidisciplinary course combines technical skills in several subsurface and well engineering disciplines to provide geomechanics solutions to field scale and individual well problems. Fundamental knowledge in petroleum geomechanics is key to good field development planning.

This course will provide you with the basic understanding and insights to assess the likelihood of sand and solids production. Participants will realise how the systematic and judicious applications of geomechanics in sanding evaluation and sand management practices can reduce costs and risks as well as enhance well productivity. Participants will learn about:

- The fundamentals of petroleum-related rock mechanics and its applications
- How to build a field calibrated geomechanical model: data required, data QC and standard workflows for the modelling of pore pressure, in situ stresses, and rock mechanical properties
- Physics of sanding, effects of rock strength, in situ stresses, depletion, drawdowns, well trajectory and perforation orientation, and water production on sanding
- Sand production prediction methods: data requirements, typical outputs, merits and limitations of common empirical, analytical and numerical sanding prediction methods, model calibration and field observations
- Overview of sand control options and procedure of selecting a sand control system
- Case studies and field-proven examples
## Daily Technical Programme

### WEDNESDAY, 20 FEBRUARY 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>0800 – 0900</td>
<td>Registration and Welcome Coffee and Tea</td>
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<tr>
<td>0830 – 1030</td>
<td><strong>Session 1: Introduction</strong>&lt;br&gt;• What is geomechanics and its application in oil field?&lt;br&gt;• When and where geomechanical assessment is needed?&lt;br&gt;• Typical data you need to build a geomechanical model&lt;br&gt;• Sanding and sand management principles&lt;br&gt;• Physics of sand production&lt;br&gt;• Sand management tools and techniques</td>
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<tr>
<td>1030 – 1045</td>
<td>Coffee and Tea Break</td>
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<tr>
<td>1045 – 1230</td>
<td><strong>Session 2: Building the Geomechanical Model</strong>&lt;br&gt;• Basic principles of stress, earth stresses, their limits and stress regimes&lt;br&gt;• Borehole stresses and physics of borehole failure&lt;br&gt;• Basics of rock mechanical properties: elasticity, plasticity, rock strength from core tests, logs, calibrations and best practices&lt;br&gt;• Pore pressure and stress modelling: vertical and horizontal stresses (magnitude and orientation)&lt;br&gt;• Verifying the geomechanical model, and calibration of 3D and 4D models</td>
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<tr>
<td>1200 – 1330</td>
<td>Networking Luncheon</td>
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<tr>
<td>1330 – 1515</td>
<td><strong>Session 3: Sand Production Prediction</strong>&lt;br&gt;• FAQ and sand management principles&lt;br&gt;• Sand production prediction: data requirements, workflow and typical outputs&lt;br&gt;• Common sanding evaluation methods; empirical, analytical and numerical methodologies, merits and limitations and model calibration&lt;br&gt;• Effects of water production on sanding&lt;br&gt;• Case studies from the region</td>
</tr>
<tr>
<td>1515 – 1530</td>
<td>Coffee and Tea Break</td>
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<tr>
<td>1530 – 1700</td>
<td><strong>Session 4: Sand Management Methods and Options</strong>&lt;br&gt;• Common sand control methods: passive and active sand controls, surface handling, and their pros and cons&lt;br&gt;• Selection criteria and the process of defining optimum sand control type&lt;br&gt;• Grain size analysis and best practices</td>
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SPE WORKSHOP:
Sand and Carbonate Solids Control and Management – Towards Excellence in Integrated Solutions for Maximum Value Creation
18 – 19 February 2019 | Kuala Lumpur, Malaysia

Do you wish to be considered a Discussion Leader (10-15 minutes presentation)? □ Yes □ No
If yes, please indicate the subject/topic on which you would like to present:

Please state your Technical Discipline (Select one ONLY):
□ Completions □ Management and Information □ Drilling □ Production and Operations □ Health, Safety and Environment □ Projects, Facilities and Construction □ Reservoir □ Reservoir

Please state your expectation for the Workshop, so that we can tailor a portion for the Workshop to answer attendees’ concerns:

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<table>
<thead>
<tr>
<th>Registration Fees (Please tick appropriate box)</th>
<th>EARLY BIRD REGISTRATION BY 18 JANUARY 2019</th>
<th>REGISTRATION AFTER 18 JANUARY 2019</th>
</tr>
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<tbody>
<tr>
<td>Workshop + Training Course (18 – 20 February 2019)</td>
<td>SPE MEMBER: USD 2,060.00</td>
<td>NON-MEMBER: USD 2,420.00</td>
</tr>
<tr>
<td>Workshop Only (18 – 19 February 2019)</td>
<td>SPE MEMBER: USD 1,600.00</td>
<td>NON-MEMBER: USD 1,800.00</td>
</tr>
<tr>
<td>Training Course Only (20 February 2019)</td>
<td>SPE MEMBER: USD 600.00</td>
<td>NON-MEMBER: USD 800.00</td>
</tr>
</tbody>
</table>

TERMS & CONDITIONS

Registration Fee
- Fee includes workshop sessions, workbook, certificate, daily luncheons and coffee breaks.
- Fee DOES NOT include accommodation. SPE will provide details of recommended hotels upon receipt of your registration.
- Registration of participant will only be confirmed upon registration and receipt of full payment or an acceptable employer’s letter of guarantee.
- All outstanding payments must be received on or prior to the date of the event for participants to be allowed to attend. SPE reserves the right to cancel the registration if no payment is received prior to or on the date of the event.
- Full fee is charged regardless of the length of time the Participant attends the event and cannot be pro-rated.
- Taxes
  - Fees are made free and clear of, and without any deduction or withholding for and on account of, any taxes, duties or other deductions. Any such deduction or withholding, if required by the laws of any country are the sole responsibility of the Participant.

Cancellation Policy
- A processing fee of USD 150.00 will be charged for cancellation received thirty (30) days or more prior to the first day of the workshop.
- Registration cancelled between fifteen (15) days to twenty-nine (29) days prior to the first day of the event will be refunded 25% of the registration fees.
- Registration cancelled fourteen (14) days or less prior to the first day of the workshop will not be eligible for a refund.
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- Cancellation must be notified in writing to SPE.

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- SPE will not be liable to you for any damages, costs, losses or expenses of any kind incurred or suffered by you as a result of or in relation to SPE modifying, postponing or cancelling the event or any part of the event.
- The Participant acknowledges and agrees that by registering for this event, the Participant accepts these Terms and Conditions and agrees to be bound by them.

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