

# Emerging Solutions for Offshore Asset Integrity Challenges

10 - 11 FEBRUARY 2020  
KOTA KINABALU, MALAYSIA



The drivers for safe production of hydrocarbons towards and beyond asset design life can be attributed to a number of factors. These may include, and is not limited to, exploration in adjacent areas, improved hydrocarbon recovery through enhanced recovery processes or favourable economics prevalent with lowering operating costs or favourable market conditions, all potentially elongating field life. Each has its own unique challenges and it is pertinent that predicted operating conditions along with lessons learnt from past operations are understood when considering the longevity of field life.

Common integrity and reliability threats associated with operating mature assets include change in operating parameters versus design stage, material degradation, obsolescence of equipment and parts, accidental and extreme events and higher unplanned downtime. Keys to mitigating and managing the aforementioned threats are the acquisition and analysis of relevant data, risk assessment, and planning and acting based on robust principles demonstrable from statutory, local and international requirements, company policies/strategies and best industry practices. Stakeholders must also pay attention to technological advancements, developments and applications that assure new challenges to integrity; deepwater and ultra deepwater, aging assets, HPHT, flow assurance and many more; and ensure that these new challenges are mitigated.

The recent downturn in the oil and gas industry posts even greater challenges in ensuring asset integrity towards the end of field life. These include operating and equipment strategies for production sustainment, increased scrutiny in the justification of operational expenditure, allocation of budget and resources for preventative and corrective maintenance activities. A prudent cost-effective approach in managing and operating mature assets based around the knowledge of threats and associated mitigations is required.

## Session Highlights

Strategic Approaches to Asset Integrity	Solutions to Current Challenges of Deepwater Assets	Maximising Production, Flow Assurance and Reducing Integrity Risk for Late Life Asset
Process Safety Management in Asset Integrity	How Will the Future of Deepwater Development Affect Integrity?	Optimising Maintenance Programmes
Well Integrity – Enhancing Value Through Effective Installation, Maintenance and Monitoring	Case Study - Emerging Technologies in Asset Integrity Management	

**GROUP REGISTRATIONS AVAILABLE!**  
Contact us at [spekl@spe.org](mailto:spekl@spe.org) to arrange your group.

[go.spe.org/20WM04W](http://go.spe.org/20WM04W)



## Who Should Attend

The workshop serves as a unique platform for oil and gas upstream professionals, operators, service providers and academic associates that are looking to address the challenges of maintaining asset integrity including the extension of operations beyond asset design life; including:

- Asset Management, Integrity and Reliability
- Corrosion
- Facilities, Design and Engineering
- Health, Safety and Environment (HSE)
- Infrastructure and Structural
- Pipeline
- Process
- Production and Operations
- Project and Construction
- Subsea, SURF and Deepwater
- Wells
- Technical

## Technical Programme Committee

### CO-CHAIRS

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General Manager, Production Sabah  
**PETRONAS Carigali Sdn Bhd**

**Jeff Pearman**  
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Business Development Manager  
**Oceaneering International**

**Danny Murshidi**  
Wells Reservoir Facilities Management Manager  
**Sabah Shell Petroleum Company**

**Sanjeev Kumar A/L Nanta Kumar**  
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Head, Physical Asset Management, Group Technical Solutions  
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Senior Manager Project Delivery  
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### WORKSHOP ADVISORS

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**AWT International**  
Member, SPE Asia Pacific Regional Technical Advisory Committee

**Mohd Abshar Mohd Nor**  
Head of Wells Development Sabah, Wells Delivery Malaysia  
**PETRONAS Carigali Sdn Bhd**  
Member, SPE Asia Pacific Regional Technical Advisory Committee



## TECHNICAL PROGRAMME PREVIEW

### MONDAY, 10 FEBRUARY 2020

0800 – 0830 Arrival of Delegates and Registration

0830 – 0840 Safety Announcement by Hotel

0840 – 0930

#### Session 1: Welcome and Introduction

Co-Chairpersons: Muin B Masri, **PETRONAS Carigali Sdn Bhd**; Jeff Pearman, **Wood**

Panel Session: Industry Outlook on Offshore Asset Integrity

Moderators: Muin B Masri, **PETRONAS Carigali Sdn Bhd**; Jeff Pearman, **Wood**

0930 – 1000

1000 – 1200

#### Session 2: Strategic Approaches to Asset Integrity

Session Managers: Dinna Geraldine Ramlian, **Mubadala Petroleum**; George Bell, **Dialog Energy Sdn. Bhd.**

In the current situation of forecasted oil prices in the range of between US\$50 and US\$60, operators are increasingly managing producing assets through a declined production phase and through facilities that are aged and likely to be past their originally planned design life. The focus is to manage assets as such; to maximise production whilst maintaining assurance of technical integrity at minimum cost. In addition, this emphasis will ensure economic viability of assets through to cessation of production, prior to commencement of abandonment and decommissioning process.

Asset integrity strategies have evolved from prescriptive to risk-based and require a good understanding of the consequences of failures, potential degradations and failure modes. Integrity threats are typically influenced by a host of circumstances such as change in operating parameters, material degradation, corrosion, fatigue, and a general lack of reliability, together with obsolescence of equipment and systems. Service history and data analysis are essential in predicting threats, estimating remaining life and planning of intervention activities. Data digitalisation has, in practice, proven essential in undertaking complex assessment and analysis and has significantly improved the understanding of the asset integrity status across facilities.

To be technically sound and cost-effective, asset integrity strategies and performance monitoring must be integral components within the on-going work planning process. This session will address the strategies, processes, lessons learnt and technology applications (both existing and developing) that impact maintaining integrity in a cost-effective manner.

1200 – 1300

1300 – 1500

#### Networking Luncheon

#### Session 3: Solutions to Current Challenges of Deepwater Assets

Session Managers: Danny Murshidi, **Sabah Shell Petroleum Company**; Mohd Hisham Ibrahim, **Schlumberger**

As the oil and gas industry steps out further into the deepwater region, asset integrity challenges become even more pronounced. Deepwater development experiences various challenges, involving SURF (Subsea, Umbilical, Riser and Flowline) and structural (mooring and tendon) design, operation and maintenance. Challenges to deepwater integrity could come from properties of process fluids (HPHT, sand erosion, corrosion, hydrate and more), geohazards (gas hydrates, seafloor pockmarks, shallow gas and more), environmental loads (wind, wave, current, marine growth and more) and accessibility.

Deepwater facilities are installed in a challenging environment where inspection and remediation measures can be very costly. Effective management of integrity (via standard, process, tool, people and others), leveraging on new technology and digital solutions, and operation excellence will be key requirements to succeed in deepwater developments. It is becoming more crucial to steer the asset integrity organisation to embrace digital technologies, such as data analytics and machine learning in the pursuit of transforming how assurance and verification regimes are efficiently delivered towards minimising unplanned production deferral.

This session will discuss deepwater integrity challenges and solutions. Topics covered include:

- Design consideration for SURF and structural components toward the delivery of the lifecycle integrity objectives, as well as, the evaluation of most suitable design codes for SURF projects with CAPEX justification.
- Surveillance and diagnostic methods especially on the evaluation of emerging technologies that have the potential to deliver cost-effective solutions and drive the efficiency of the OPEX utilisation.
- Inspection techniques and tools as well as the ability of the workforce to absorb new technologies so that anomalies are identified and rectified in a timely and cost-effective manner.
- Remedial techniques and case studies which include lessons learnt and engagement within the deepwater fraternity to enhance the overall production delivery of deepwater assets, both new and ageing facilities.

1500 – 1515

1515 – 1715

#### Coffee and Tea Break

#### Session 4: Maximising Production, Flow Assurance and Reducing Integrity Risk for Late Life Asset

Session Managers: Sanjeev Kumar A/L Nanta Kumar, **PETRONAS**; Amir Abd Rahman, **Vestigo Petroleum Sdn Bhd**

### 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
- Keep 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 **Joachim Soon** at [jsoon@spe.org](mailto:jsoon@spe.org) by **29 November 2019**.

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 programmes, and SPE's energy education programmes Energy4me are just a few examples of programmes that are supported by SPE.

## Workshop Objectives

The objective of the workshop is to highlight asset integrity challenges in the operations and maintenance of aging assets and share best practices to manage integrity effectively. The workshop will investigate the consequences of the recent industry downturn in relation to asset integrity and the utilisation of digital platforms as an enabler to better understand asset performance and act accordingly. Topics covered will include assets such as conventional and subsea assets, floating structures, pipelines, wells, and more.



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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Late life asset operators face challenges particularly in managing depleting reservoirs and ageing facilities. These challenges can become even more complicated when operators intend to boost production at lower costs with the aim to generate profit and at the same time, aim to recover the abandonment cost. A systematic approach is required to ensure a successful business model is implemented for late life assets; hence, maximising production, flow assurance and reducing integrity risk will be key factors that should be considered.

Innovation in artificial lift, production enhancement, production improvement should be considered to maximise the production. Operators must also leverage on new technology and digitalisation to reduce integrity risk to the wells and the surface facilities. The original production facilities and utilities are design to cater for high flow, to operate with existing systems, below the low turnaround, will not be economically viable. Low cost methods are required to rationalise operations, especially involving rotating equipment such as pumps, compressors or power generators. Similarly, fluid separation and conditioning unit operations, methods that require minimum modification to improve the performance will provide a great advantage in late life facilities.

Throughout the producing lifecycle, late life asset will experience drastic increase in water production, sand production and existence of contaminant (such as scale, mercury, emulsion, corrosion and more). Integrated fit for propose treatment packages, couple with effective production chemistry, will be required to manage this issue.

This session will a sharing session on the following topics:

- Methodology of establishing asset life extension and production assurance
- Production optimisation through innovation
- Production turnaround management for late life asset
- Managing water, sand and contaminants
- Flow assurance improvement

1715 - 1845

### Session 5: Process Safety Management in Asset Integrity

Session Managers: Trevor Scott, **Mubadala Petroleum**; W Muhamad Aminin b W M Izzuddin, **PETRONAS Carigali Sdn Bhd – Sarawak Oil**; Suryani, **PT Pertamina**

Major accidents still happen hence the oil and gas industry must be alert to the importance of having a robust and resilient safety management system as an integral part of asset integrity management. In addition, included in this requirement are suitable provisions for process and technical safety. Depressed oil prices are likely to continue to divert industry focus to reducing costs in every aspect, including asset integrity and process safety.

This session will discuss how asset integrity and process safety has become one of the main “players” in ensuring operational expenditure is correctly budgeted and spent, extending field life and preventing major accidents driven by innovative approaches in managing mature assets with dynamic risks typical of aging fields and responses to those changing risks.

1845 onwards

Welcome Dinner

## TUESDAY, 11 FEBRUARY 2020

0830 – 1030

### Session 6: How Will the Future of Deepwater Development Affect Integrity?

Session Managers: Peter McKibbin, **PTTEP**

New technologies are already transforming deepwater operations across the lifecycle of a field with operators utilising digital applications to improve operating efficiencies. While still developing, remote operations enabled by technology and analytics will be part of future operating models.

This session will focus on innovative developments in technology and how they can be applied to maintain the integrity of assets while reducing intervention costs. Topics to be discussed include:

- Opportunity and strategies in integrity for deepwater assets
- Digital – Subsea
- Improving data acquisition
- Subsea intervention facility

1030 – 1045

Coffee and Tea Break

## 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.

### SPONSORSHIP CATEGORIES

Sponsorship categories are offered on a first-come basis. Please contact SPE to enquire and verify the availability of categories. Existing supporters have the opportunity to renew the same level of support for annual workshops.

### SPONSORSHIP BENEFITS

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.

### FOR MORE INFORMATION

For a detailed list of available sponsorship opportunities, including benefits and pricing, contact **Joachim Soon** at [jsoon@spe.org](mailto:jsoon@spe.org).

1045 – 1245

### Session 7: Optimising Maintenance Programmes

Session Managers: Adeeb Aisamuddin, **Oceaneering International**, Syed Razif bin Syed Ahmad, **PETRONAS**

With the downturn of the industry, it has never been more important to have oil and gas facilities running at optimal efficiency. Maintenance programmes are more and more scrutinised to have the best balance between cost, risk and desired outcome. Strategies for all life stages of assets (Green Field to End of Field Life) differ significantly yet they all remain vital to the safety, reputation and profitability of oil companies. This session will discuss the challenges faced and the optimising of maintenance programmes. Topics covered include:

- Procedures to avoid and resolve Loss of Pressure Containment (LOPC)
- Advanced inspection techniques for complex assets including unpiggable pipelines, umbilicals, subsea hardware, corrosion under insulations and supports
- Evaluation schemes, Risked-Based Inspection (RBI) and Condition Monitoring
- Planning for obsolescence

1345 – 1345

Networking Luncheon

1345 – 1545

### Session 8: Well Integrity – Enhancing Value Through Effective Installation, Maintenance and Monitoring

Session Managers: Siti Aisyah binti Abdul Ghani, **PETRONAS Carigali Sdn Bhd**; Øyvind Skjold, **Aker Solutions**

The recent oil and gas downturn has changed the oil and gas industry strategy to enable the adaption to hydrocarbon price fluctuations. Efforts for any conceivable pace for improvement in cost-saving initiatives and operational efficiency are today's main agenda for both operating and services companies to remain profitable in the current volatile oil and gas market. At the same time, efficient well planning, cost-effectiveness in maintenance and reliability in predicting failures of wells are becoming a major area of focus for all companies to assure the integrity of their assets and to ensure prudent financial spending.

The session on well integrity will discuss challenges the industry is facing with productions fields in harsher environments, naturally declining production rates and ageing facilities. Simultaneously, the industry is also looking to manage operating cost (on low side) by implementing smart well completion solutions, for lesser intervention. The discussion will also focus on well maintenance, planning and strategy, P&A, late life decommissioning, lesson learnt and good practices on existing installations.

The question is, what are operators currently practicing in terms of advanced investment during well planning and at the development stage? How will this benefit well integrity sustainability and maximise oil recovery? This session will focus on:

- Conventional well design – How efficient, good practices and lessons learnt
- Well maintenance planning – Cost-effective and reliable
- Subsea and Smart Well – Maintenance free design, less intervention?
- Well Plug and Abandonment (P&A) – Late life decommissioning
- Advance investment on well construction – Sustainable well integrity and production

1545 – 1600

Coffee Break

1600 – 1730

### Session 9: Case Study - Emerging Technologies in Asset Integrity Management

Session Managers: Partha Pratim Dev, **ROSEN Australia Pty Ltd**; Suresh Sinnappu, **Baker Hughes Company**

The recent oil price slump resulted in our industry recognising the need to embrace the digital revolution and to move away from decades of poor cost management, bespoke but cost-inefficient practices and technophobia. Trying to make up for lost time, rapid strides in advancements are now being made in our industry in the fields of AI, machine learning and cloud computing, to name a few, to unlock new life from existing assets and improve asset integrity management. This session will deliberate on new ideas from emerging technologies to trigger thought leadership and focus on case studies that highlight the latest advancements in extending life of facilities, pipelines and wells using digital twin concepts, transformations in digital data and other disruptive technologies.

### Session 10: Workshop Summary and Closing Remarks

## GENERAL INFORMATION

### 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 Attendee 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 travellers 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.

### REGISTRATION POLICY

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

# REGISTRATION FORM

SPE WORKSHOP:  
**Emerging Solutions for Offshore Asset Integrity Challenges**  
 10 – 11 February 2020 | Kota Kinabalu, Malaysia



## ATTENDEE INFORMATION

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**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     
  Drilling     
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**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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Description		Fee Per Person			Tick (✓)	Amount (USD)
		Super Early Bird by 29 Nov	Early Bird by 10 Jan	Standard after 10 Jan		
Workshop	Member	USD 1,500	USD 1,600	USD 1,700		
	Non-Member	USD 1,700	USD 1,800	USD 1,900		
<b>TOTAL AMOUNT (USD)</b>						

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- 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.
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- Taxes**
- Fee 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 USD150.00 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.
  - Participant who failed to attend will not be eligible for a refund.
  - Cancellation must be notified in writing to SPE.
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