Process safety generally refers to the prevention of events leading to catastrophic consequences. In the petroleum industry, unintentional releases of chemicals, energy, or other potentially dangerous materials during the course of chemical processes that can have a serious effect to the plant, community, personnel and the environment. Prevention approaches involve the deterrence of leaks, spills, equipment malfunction, over-pressures, over-temperatures, corrosion, metal fatigue and other similar conditions.

Process safety is part of safety management and focuses on the concerns of major hazards impacting safety, environmental damage and business losses. Key factors such as ageing plants, lack of skilled workers in emerging markets and an increasing reliance on ‘outsourcing’ have contributed to a significant increase in operational risks. However, good process safety principles and systems do not only help in managing risks, but also effectively increase operational safety while improving productivity, cost efficiency and quality. ‘A safe operation is an efficient operation’. Hence, process safety needs to be considered throughout the asset lifecycle, design, construction, operation, maintenance, modification and closure.

This workshop will focus on:

- Keeping up with the latest updates and practical information on best practices, lessons learnt and technological advances shared by industry practitioners
- Gaining strategic insights through recent case studies of regional and international projects that have implemented innovative process safety approaches and technical risks assessments
- Dissecting the constraints in process safety which are usually influenced by human factors
- Successful implementation of Process Safety Management System (PSM) into the operational phase through various effective strategies

Who Should Attend
Professionals involved in:
- Asset Integrity
- Health, Safety and Environment (HSE)
- Human Factors
- Loss Prevention
- Management of Change (MOC)
- Operation
- Process Safety Management (PSM)
- Production
- Project Management
- Reservoir Engineering
- Risk

Technical Programme Committee
CHAIRPERSONS
Rosnan Hamzah
Head of HSE Governance
PETRONAS

COMMITTEE MEMBERS
Ahmad Hafeez Rumi
HSE Manager – MEAP & Sakhalin Island
Baker Hughes, a GE company

Khairil Azhar Kassim
HSE Manager
Carigali Hess Operating
Company Sdn Bhd

Li Rong
Senior Researcher
China National Petroleum Corporation

Pete Nicoll
Senior Risk Advisor - South East Asia
Control Risks Group

Mohd Azmi Mohd Noor
Head of HSSE
Kebabangan Petroleum Operating
Company Sdn Bhd

Daniah Khan
Operations Manager
Lloyd’s Register

Nedia Permata Hasan
Senior Manager - HSE & Security
PC Mariah Ltd

Mohd Ashraf Mohd Ibrahim
Staff - Process Safety
PETRONAS

Sazali Abu Kassim
Head Process Safety
PETRONAS

Sufyan Mohd Nor
Head of Process Safety
PETRONAS

Nur Atikah Abu Bakar
Manager - HSE Risk Management
PETRONAS

Rizal Harris Wong
Principal Engineer - Process Safety Risk Assessment
PETRONAS

Pimol Suriyaprasit
Senior Engineer
Technical Safety
PTT Exploration and Production Public Company Limited

Ian Parker
Process Safety Team Lead
Repsol Oil & Gas Malaysia Ltd

Hasfandia Rusti
Manager – Planning & Control
PETRONAS

Khairun Najimah M Salimun
Manager – HSE Assurance & Regulatory Compliance
PETRONAS Carigali Sdn Bhd

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

www.spe.org/go/18WM15
Workshop Objectives

The workshop provides a platform for all participants to examine and discuss process safety in the petroleum industry and how to achieve process safety excellence in a globally competitive environment. This remains a major test for the industry that is currently suffering from reduced income and ageing facilities.

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Technical Programme Preview

MONDAY, 4 DECEMBER 2017

0800 - 0850 Arrival of Delegates and Registration
0850 - 0900 Safety Announcement by Hotel
0900 - 0930 Session 1: Welcome and Introduction
  Co-Chairpersons: Rosnan Hamzah, PETRONAS; Kevin Young, DNV GL Oil & Gas
0930 - 1000 Keynote Address:
  Co-Chairpersons: Rosnan Hamzah, PETRONAS; Kevin Young, DNV GL Oil & Gas
1000 - 1030 Group Photo / Coffee and Tea Break
1030 - 1230 Session 2: Process Safety Management System (PSM)
  Session Managers: Nedia Permata Hasan, PC Muriah Ltd.; Pete Nicoll, Control Risks Group
  While the importance of PSM is widely recognised in the oil and gas industry with key elements relatively well-defined during design and engineering stages, the implementation of an effective PSM system during the operational phase remains a challenge for many operators. A majority of past process safety related incidents, are caused by deficiencies identified in the usual suspects, e.g. commitment, control of work, culture, competency management, change management and mechanical integrity management. This session will discuss the challenges and strategies to successfully implement PSM programmes, including looking into ways of cascading the same into an organisation, and monitoring and aligning with other business processes. The session will also discuss current initiatives and challenges faced by industry to enable us to draw lessons to address any perceived shortfalls.
1230 - 1330 Networking Luncheon
1330 - 1530 Session 3: Asset Integrity
  Session Managers: Mohd Azmi Mohd Noor, Kebabangan Petroleum Operating Company Sdn Bhd; Pimol Suriyaprasit, PTT Exploration and Production Public Company Limited; Sazali Abu Kassim, PETRONAS
  Asset Integrity is the ability of the asset to perform its required function effectively and efficiently whilst safeguarding life and the environment. Asset Integrity Management is the means of ensuring that the people, systems, processes and resource, which deliver integrity, are in place and in use over the whole lifecycle of the asset. This session will discuss key issues when managing asset integrity as a fit-for-purpose, robust management system and how to implement good operational practices and control.
1530 - 1545 Coffee Break
1545 - 1745 Session 4: Operations Integrity Management
  Session Managers: Mohd Ashraf Mohd Ibrahim, PETRONAS; Rizal Harris Wong, PETRONAS
  Operations integrity consists of interrelationships of people, assets and processes in managing the operations of a facility in a safe, efficient and reliable manner. This is achieved through consistent execution of reliable, repeatable and effective PSM processes, changes in organisation and technological innovations. Given the dynamic nature of facility operation and how to implement good operational practices and control.
1745 - 1845 Welcome Dinner
1845 onwards

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
• Identity 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 Renee Wong at rwong@spe.org by 17 November 2017.

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through consistent execution of reliable, repeatable and replicable practices by all personnel in the organisation. In facing the current norm of energy price, companies are taking steps to ensure residual benefits of improved work processes, changes in organisation and technological innovations. Given the dynamic nature of facility operation and hazards, risk exposure will constantly change. These changes help ensure operational integrity is maintained and the facility is operated within a safe operating envelope. This session will discuss challenges, strategies and lessons learnt to ensure operational integrity is maintained while achieving business objectives.

1745 - 1845  
**Session 5: Digital Technologies & Solutions – the Next Frontier for the Oil & Gas Industry**

**Session Managers:** Leong Weng Fei, Baker Hughes, a GE Company; Suyyan Mohd Nor, PETRONAS; Kharun Najmiah M Salim, PETRONAS

Long before phrases such as big data, advanced analytics, and the Internet of Things became popular, oil executives were making use of 3-D seismic, linear program modelling of refineries, and advanced process control for operations. The use of such technologies unleashed new hydrocarbon resources and delivered operational efficiencies across the value chain. In view of the current technological advances, we are now poised for a second digital age that could further reduce costs, improve productivity, and boost performance significantly — provided the right technologies can be harnessed to support the respective business strategies. This session will share applications of the latest digital solutions driving process safety excellence in our operations.

1845 onwards  
**Welcome Dinner**

**TUESDAY, 5 DECEMBER 2017**

0900 - 1100  
**Session 6: Human Factors**

**Session Managers:** Ahmad Hafeez Raml, Baker Hughes, a GE Company; Taram Satiraksa Wan Abdullah, Vestigio Petroleum Sdn Bhd

Many organisations spend a lot of time, resources and effort to improve their HSE performance. This includes strengthening policies and procedures, enforcing them and ensuring workforce competency. However, incidents still occur and statistics show that human factors are one of the primary causes of such incidents. Humans need to manage responsibilities, attitudes, behaviour, the environment, nature, weather, equipment, technology, etc. Organisations take steps to improve these human factors, to ensure their human resources are capable, knowledgeable, suitable, responsible and ready for potential challenges. However, are these steps sufficient and efficient? Is the “cost” to get the right human resources higher than it should be? Or is the “way” to get effective control outdated? Are “cultures” too difficult to be adopted? This session will examine and discuss the efficiency of competency management programmes; human development processes vs. technology and industrial acceptance in ensuring the workforce has sufficient knowledge, skills and experience prior to performing the real task, and adapting organizational best practices in improving the HSE culture within the industry and beyond.

1100 - 1135  
**Coffee and Tea Break**

1135 - 1415  
**Session 7: Risk Reduction Strategies**

**Session Managers:** Nur Aitik Abu Bakar, PETRONAS; Ian Parker, Repsol Oil & Gas Malaysia Ltd

The fundamental principle of risk-based hazard management is that while risks cannot always be eliminated, it is possible to reduce them to a level that is ALARP, where the risks are tolerable because all reasonably practicable risk reduction measures have been implemented. Deciding the most effective risk reduction strategies is important as it involves a few factors that need to be taken into account i.e. the effectiveness in reducing the risk, cost optimisation, production disruptions, time, logistics and manpower. As part of the decision making process, the regulatory requirement and company policies should always be the priority. The identification of Control and Recovery Barriers shall ensure the effectiveness and feasibility of the proposed controls, and shall be based on the Hierarchy of Controls, i.e. Elimination/ Minimisation/ Substitution, Engineering Controls, Administrative/Procedural Controls and Personal Protective Equipment.

1415 - 1515  
**Networking Luncheon**

1515 - 1530  
**Coffee and Tea Break**

1530 - 1730  
**Session 8: Improving Process Safety - Case Studies**

**Session Managers:** Li Rong, China National Petroleum Corporation; Mohd Azmi Mohd Noor, Kebabangan Petroleum Operating Company Sdn Bhd

This session features case studies and lessons learnt on process safety and asset integrity. Discussions on implementation of corrective and preventive actions across operating companies and various organisations will be covered.

1730 - 1800  
**Session 9: Decommissioning**

**Session Managers:** Danial Khan, Lloyd’s Register; Khairil Azhar Kassim, Carigali Hess Operating Company Sdn Bhd; Hasfani Rusli, PETRONAS

After years of production, ageing assets are approaching the end of their life cycle and decommissioning of these assets can be a daunting prospect, with the challenges of technical execution, safety, cost, liability, capability, and regulatory compliance. This session will cover the Process Safety and Technical Risk Assessment aspect during Decommissioning phase from various perspectives e.g. regulation, guidelines, risk strategies including real applications during decommissioning projects.

1800 onwards  
**Session 10: Workshop Summary and Closing Remarks**

Co-Chairpersons: Rosnain Hamzah, PETRONAS; Kevin Young, DNV GL Oil & Gas

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**SPONSORSHIP SUPPORT INFORMATION**

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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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For a detailed list of available sponsorship opportunities, including benefits and pricing, contact Renee Wong at nwong@spe.org or for the SPE Asia Pacific office, contact Claudia Yap at cayap@spe.org.

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**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 paid fee is charged regardless of the length of time the registrant attends the Workshop, and cannot be prorated or reduced for anyone.

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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.
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SPE WORKSHOP:
Process Safety and Technical Risk Assessment
4 – 5 December 2017 | DoubleTree by Hilton Kuala Lumpur, Malaysia

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SPE Member ☐ Yes ☐ No

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Would you be willing to give a brief (10-15 minutes) presentation? ☐ Yes ☐ No
If yes, please attach the topic with a short abstract of your proposed presentation.

*IMPORTANT: REGISTRANTS FOR SPE WORKSHOPS ARE ACCEPTED ON THE BASIS OF INFORMATION SUBMITTED BY EACH REGISTRANT.

Technical Disciplines (Check One)
☐ Drilling ☐ Completions ☐ Health, Safety, Security, Environment, and Social Responsibility
☐ Management and Information ☐ Production and Operations ☐ Reservoir Description and Dynamics
☐ Project, Facilities and Construction

Primary Responsibility (Check One)
☐ Drilling ☐ Operation ☐ Economics ☐ Geology ☐ Reservoir
☐ Management ☐ Production ☐ Geophysics ☐ Surveillance ☐ Other

Listing background and experience. (Use additional paper if required)

List your expectation for the Workshop, so that the committee can tailor a portion of the Workshop to answering attendees’ concerns.
(Use additional paper if required)

Registration Fees (Please tick appropriate box)

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<tr>
<th>SUPER EARLY BIRD REGISTRATION</th>
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Group Registration Available - Please contact us at spekl@spe.org

Note: Fee includes workshop sessions, workbook, certificate, daily luncheons and coffee breaks. Registration fees do not include accommodation.

Payment by Telegraphic Transfer ☐
Telegraphic Transfer (Bank details will be provided on the tax invoice)

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Cancellation Policy
- A processing fee of USD150.00 will be charged for cancellation received thirty (30) days prior to the first day of the workshop.
- 25% refund will be made for cancellation received between twenty nine (29) – fifteen (15) days prior to the first day of the workshop.
- No refund on cancellation received fourteen (14) days prior to the first day of the workshop.
- No refund will be issued if a registrant fails to show up on-site.

This form may be used as a company invoice.
Mail completed registration form with remittance and any supporting material to:

Society of Petroleum Engineers
Suite 12.01, Level 12, Menara IOB, Mid Valley City
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