STEPPING UP IN THE NEW NORM

SPE Asia Pacific Health, Safety, Security, Environment and Social Responsibility Conference

4-6 April 2017
Kuala Lumpur Convention Centre
Kuala Lumpur, Malaysia

www.spe.org/go/17aphs
People are our greatest asset

At PETRONAS, we focus on equipping ourselves with the right knowledge, skills and work culture while working to deliver energy effectively, efficiently and safely.

www.petronas.com
Dear Colleagues,

On behalf of the Society of Petroleum Engineers (SPE), it is my pleasure to welcome you to the Asia Pacific Health, Safety, Security, Environment and Social Responsibility (HSSE-SR) Conference, from 4 – 6 April 2017 at the Kuala Lumpur Convention Centre in Kuala Lumpur, Malaysia.

Health, safety, security, environment and social responsibility are of utmost importance when operating in the oil and gas industry. Amidst an evolving and shifting industry landscape, these aspects play an even more important role in increasing efficiency, productivity and cost-effectiveness.

The industry needs to re-examine and challenge current practices while managing stakeholders’ expectations, especially in the current shifting landscape. As a growing region, we need to continuously optimise development and production solutions and resources while maintaining high safety and environmental standards. We need to learn from the past and innovate for the future.

Themed "Stepping Up in the New Norm", this conference is a strategic platform where energy professionals meet to discuss, debate and share the latest technological advancements, technical knowledge and lessons learnt to improve efficiency and remain sustainable collectively across the entire value chain in the new norm.

The Asia Pacific HSSE-SR Conference features a comprehensive programme of more than 10 plenary and panel sessions and over 70 technical and ePoster presentations, as well as an exhibit showcase promoting HSSE excellence and solutions. The programme covers various aspects of HSSE and social responsibility including smart partnerships, sustainable development, remote healthcare, generative culture, process safety, cyber security and emission reduction.

We welcome the many attendees from around the world with global, eminent speakers and industry players discussing and presenting the latest HSSE-SR related topics and innovations.

Sincerely,

Datuk Mohd Anuar Taib
2017 Asia Pacific HSSE-SR Conference Advisor
Executive Vice President & Chief Executive Officer, Upstream, PETRONAS
Level 3, Kuala Lumpur Convention Centre

Conference Headquarters & Speaker/Author Check-In (3 April)

Opening & Executive Plenary Sessions

Technical Sessions

Panel / Technical Sessions

Exhibition, Knowledge Sharing, Panel Sessions, Conference Luncheons, Coffee/Tea Breaks and Welcome Reception

Conference Hall 1

Conference Hall 2

Conference Hall 3

MEDICAL ROOM

PRESS CENTRE

Level 3, Kuala Lumpur Convention Centre

Venue Map Guide
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NOTE: This Conference Programme is updated as at 20 March 2017

Conference Programme Committee

Conference Advisor
Datuk Mohd Anuar Taib, PETRONAS

Conference Programme Chairman
Yong Sai Chung, PETRONAS

Conference Programme Vice Chairman

HEALTH SUBCOMMITTEE
Co-Chairs
Kumarajothy Supramaniam, PETRONAS
Halim Mohamed, Shell

Members
Pathmakanthan Ganesamoorthy, BP
Glenn Fernandez, ExxonMobil E&P Malaysia
Marci Balge, NewFields Inc.
Gary Krieger, NewFields Inc.
Salmaan Hussain Inayat-Hussain, PETRONAS
Norsayani Mohamad Yaakob, PETRONAS
Surya Kumar, Shell Eastern Petroleum
Sabariah Said, Repsol

SAFETY AND SECURITY SUBCOMMITTEE
Co-Chairs
Nor Hashim Yusoff, PETRONAS
Idora Abdul Malek, ExxonMobil E&P Malaysia

Members
Mark Cowan, Advisian
Tom Arne Bakken, DNV GL
Derek Tate, DTC Services Ltd.
Steve Piscina, Independent
Enelii Kilat, JX Nippon Oil and Gas Exploration (Malaysia) Ltd.
Anne Østdahl, Lloyd’s Register Consulting
Danial Khan Abdul Rashid Khan, Lloyd’s Register Consulting
Abdul Razak Mohammad, Petrofac
Rashidah Lailiah Abd Rashid, PETRONAS
Udom Arayatanon, PTTEP
Elie Daher, United Safety
Tom Gouldie, Wellsite Safety Management Pty. Ltd.
ENVIRONMENT SUBCOMMITTEE
Co-Chairs
Lee Tzee Wan, PETRONAS
Steve Laking, Ramboll Environ

Members
Tim Flowers, Beach Energy Ltd.
Ng Hon Seng, Environmental Resources Management
Jeffrey Jeter, European Bank for Reconstruction and Development
Rob Cox, IPIECA
Joseito Guevarra, IPIECA
Darren Waterman, Oil Spill Response Ltd.
Cecilia Lakai, PETRONAS Chemical Group Bhd.
Mariana Michael, Sarawak Shell Bhd.
John Hall, Saudi Aramco
Shihan Mohamad, Schlumberger
Jacques Mine, TOTAL

HSE MANAGEMENT SUBCOMMITTEE
Co-Chairs
Dato’ Ahmad Hamizan Hasan, PETRONAS
Patrice Pischedda, ACOEM

Members
Yehia Ibrahim, Baker Hughes
Hanifatu Avida Romas, ExxonMobil Cepu Ltd.
Robello Samuel, Halliburton
Dominique Grepinet, Independent
Ibrahim Mohamed El-Mahdy, Kuwait Oil Co.
Nicolas Mouthier, OGAS Solutions
Alfie Iskandar Bahrun, PETRONAS
Deneshwaran Muniandy, PETRONAS
Sufyan Mohd Nor, PETRONAS
Looi Art Yew, PETRONAS
Thayananthan Balakrishnan, PETRONAS
Alicia Choy May Yi, Repsol
Piotr Sapa, South Australian Government

SOCIAL RESPONSIBILITY SUBCOMMITTEE
Co-Chairs
Azrina Abdullah, PETRONAS
Niesharsa Triaswari, Independent

Members
Andrew Buchman, Acorn Intl.
Fakhrian Abqari, ConocoPhillips Indonesia Inc. Ltd.
Cynthia Ann Peterson, PETRONAS
Miriam Winsten, Schlumberger
SPE wishes to gratefully acknowledge the contribution and support of the following companies towards the 2017 Asia Pacific HSSE-SR Conference.

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<td>Silver Sponsor and Ice Cream Social - Day 1</td>
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<td><strong>ExxonMobil</strong></td>
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<td>Welcome Reception [4 April]</td>
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<td>Coffee/Tea Breaks - Day 1</td>
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<td>Bottled Drinking Water</td>
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<td><strong>Society of Petroleum Engineers</strong></td>
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Schedule of Events

All functions, unless otherwise specified, are scheduled at Level 3, Kuala Lumpur Convention Centre

**MONDAY, 3 APRIL**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1200-1700 hours</td>
<td>Speaker/Author Check-In - Press Centre, Level 3 Centre Core</td>
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<tr>
<td>1200-1800 hours</td>
<td>Exhibition Move-In</td>
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<tr>
<td>1200-1800 hours</td>
<td>Registration - Pre-Function Foyer (West)</td>
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**TUESDAY, 4 APRIL**

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<tr>
<th>Time</th>
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<tr>
<td>0730-1830 hours</td>
<td>Registration – Pre-Function Foyer (West)</td>
</tr>
<tr>
<td>0830-1730 hours</td>
<td>Speaker/Author Check-In – Room 306</td>
</tr>
<tr>
<td>0900-1045 hours</td>
<td>Opening &amp; Executive Plenary Session 1: Stepping Up in the New Norm – Conference Hall 1</td>
</tr>
<tr>
<td>1045-1115 hours</td>
<td>Coffee Break – Conference Hall 2</td>
</tr>
<tr>
<td>1045-1830 hours</td>
<td>Exhibition – Conference Hall 2</td>
</tr>
<tr>
<td>1115-1245 hours</td>
<td>Panel Session 1: Embracing Environmental Challenges in the New Norm – Room 302-303</td>
</tr>
<tr>
<td>1115-1245 hours</td>
<td>Technical Session 1: Standardisation – More with Less – Room 304</td>
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<tr>
<td>1115-1245 hours</td>
<td>Technical Session 2: Good Practices in Mitigating Social Risks through Management Systems – Room 305</td>
</tr>
<tr>
<td>1245-1400 hours</td>
<td>Networking Luncheon – Conference Hall 2</td>
</tr>
<tr>
<td>1330-1400 hours</td>
<td>Knowledge Sharing ePoster Session 1 – Conference Hall 2</td>
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<tr>
<td>1400-1530 hours</td>
<td>Panel Session 2: Emerging Security Threats and Responses from the Industry – Room 302-303</td>
</tr>
<tr>
<td>1400-1530 hours</td>
<td>Technical Session 3: Mitigating Environment Risk – Room 304</td>
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<tr>
<td>1400-1530 hours</td>
<td>Panel Session 3: Remote Health Care – Effective Strategies for Managing Risk in Remote Environments – Room 305</td>
</tr>
<tr>
<td>1530-1600 hours</td>
<td>Coffee Break/Knowledge Sharing ePoster Session 2 – Conference Hall 2</td>
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<tr>
<td>1600-1730 hours</td>
<td>Panel Session 4: HSE Management – Managing Economic Challenges and Regulatory Pressures for Long-Term Sustainability – Room 302-303</td>
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<tr>
<td>1600-1730 hours</td>
<td>Technical Session 4: Experience Sharing in Managing HSSE Risks – Room 304</td>
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<tr>
<td>1600-1730 hours</td>
<td>Technical Session 5: Healthcare as a License to Operate – Room 305</td>
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<tr>
<td>1730-1830 hours</td>
<td>Welcome Reception – Conference Hall 2</td>
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**WEDNESDAY, 5 APRIL**

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<td>0830-1730 hours</td>
<td>Speaker/Author Check-In – Room 306</td>
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<tr>
<td>0900-1800 hours</td>
<td>Exhibition – Conference Hall 2</td>
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<tr>
<td>0900-1030 hours</td>
<td>Executive Plenary Session 2: Value of Doing It Right in the New Norm – Conference Hall 1</td>
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<tr>
<td>1030-1100 hours</td>
<td>Coffee Break / Knowledge Sharing ePoster Session 3 – Conference Hall 2</td>
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<tr>
<td>1100-1230 hrs</td>
<td>Panel Session 5: Where Do We Stand and What Do We Do as an Industry to Accelerate Emission Reduction and Mitigate Climate Change? – Room 302-303</td>
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<tr>
<td>1100-1230 hrs</td>
<td>Technical Session 6: Elevating HSSE Performance Using Technologies and Systems – Room 304</td>
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<tr>
<td>1100-1230 hrs</td>
<td>Technical Session 7: Health Risk Management and Wellness – Room 305</td>
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<tr>
<td>1230-1400 hrs</td>
<td>Networking Luncheon – Conference Hall 2</td>
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<tr>
<td>1330-1400 hrs</td>
<td>Knowledge Sharing ePoster Session 4 – Conference Hall 2</td>
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<tr>
<td>1400-1530 hrs</td>
<td>Panel Session 6: Asset Integrity and Process Safety – Room 302-303</td>
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<td>1400-1530 hrs</td>
<td>Technical Session 8: Managing Land for Sustainability – Room 304</td>
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<td>1400-1530 hrs</td>
<td>Panel Session 7: Next Generation HSE – Building Human Capability and Sustaining Them During Challenging Times – Room 305</td>
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<td>1530-1600 hrs</td>
<td>Coffee Break / Knowledge Sharing ePoster Session 5 – Conference Hall 2</td>
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<td>1600-1730 hrs</td>
<td>Panel Session 8: Social Responsibility – Is it Adding Value or Cost to the Business? – Room 302-303</td>
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<td><strong>THURSDAY, 6 APRIL</strong></td>
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<tr>
<td>0730-1230 hrs</td>
<td>Registration – Pre-Function Foyer (West)</td>
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<td>0830-1400 hrs</td>
<td>Speaker/Author Check-In – Room 306</td>
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<tr>
<td>0900-1030 hrs</td>
<td>Panel Session 9: Smart Partnerships – Collaboration between EPC, Partners, and Other Stakeholders for Improved Performance – Room 302-303</td>
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<td>0900-1030 hrs</td>
<td>Technical Session 10: Oil Spill Preparedness and Response – Room 304</td>
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<tr>
<td>0900-1400 hrs</td>
<td>Exhibition – Conference Hall 2</td>
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<tr>
<td>1030-1100 hrs</td>
<td>Coffee Break/Knowledge Sharing ePoster Session 6 – Conference Hall 2</td>
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<tr>
<td>1100-1230 hrs</td>
<td>Panel Session 10: Importance of Health to HSSE Management – The Significance of Managing Health to Achieve Generative Work Culture – Room 302-303</td>
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<tr>
<td>1100-1230 hrs</td>
<td>Technical Session 11: Managing Conflict to Maintain Privilege to Operate – Have We Learned Anything? – Room 304</td>
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<tr>
<td>1230-1400 hrs</td>
<td>Networking Luncheon – Conference Hall 2</td>
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<tr>
<td>1500-2000 hrs</td>
<td>Exhibition Move-Out – Conference Hall 2</td>
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Note: Information in this booklet is updated as of 20 March 2017.
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<tr>
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<th>Room 302-303</th>
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<tr>
<td>Tuesday, 4 April 2017</td>
<td>0900-1045</td>
<td>Opening and Executive Plenary Session 1: Stepping Up in the New Norm - Conference Hall 1</td>
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<td>1045-1115</td>
<td>Coffee Break – Exhibit Showcase Area @ Conference Hall 2</td>
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<td>1245-1400</td>
<td>Networking Luncheon – Exhibit Showcase Area @ Conference Hall 2</td>
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<td>Knowledge Sharing ePoster Session 1 – Exhibit Showcase Area @ Conference Hall 2</td>
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<td>1530-1600</td>
<td>Coffee Break/Knowledge Sharing ePoster Session 2 – Exhibit Showcase Area @ Conference Hall 2</td>
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<td>Welcome Reception – Exhibit Showcase Area @ Conference Hall 2</td>
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<tr>
<td>Wednesday, 5 April 2017</td>
<td>0900-1030</td>
<td>Executive Plenary Session 2: Value of Doing It Right in the New Norm - Conference Hall 1</td>
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<td>Coffee Break/Knowledge Sharing ePoster Session 3 – Exhibit Showcase Area @ Conference Hall 2</td>
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<td>1100-1230</td>
<td>Panel Session 5: Where Do We Stand and What Do We Do as an Industry to Accelerate Emission Reduction and Mitigate Climate Change?</td>
<td>Technical Session 6: E elevating HSSE Performance Using Technologies and Systems</td>
<td>Technical Session 7: Health Risk Management and Wellness</td>
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<td>1330-1400</td>
<td>Knowledge Sharing ePoster Session 4 – Exhibit Showcase Area @ Conference Hall 2</td>
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<td>1530-1600</td>
<td>Coffee Break/Knowledge Sharing ePoster Session 5 – Exhibit Showcase Area @ Conference Hall 2</td>
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<tr>
<td>Thursday, 6 April 2017</td>
<td>0900-1030</td>
<td>Panel Session 9: Smart Partnerships – Collaboration between EPC, Partners, and Other Stakeholders for Improved Performance</td>
<td>Technical Session 10: Oil Spill Preparedness and Response</td>
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<td>Coffee Break/Knowledge Sharing ePoster Session 6 – Exhibit Showcase Area @ Conference Hall 2</td>
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Open  Opening and Executive Plenary Session 1
Stepping Up in the New Norm
Tuesday, 4 April • 0900 – 1045 hours • Conference Hall 1, Level 3

OPENING SESSION:

Welcome Remarks: Yong Sai Chung
Conference Programme Chairman and Head, Health, Safety and Environment, Upstream, PETRONAS

Welcome Remarks: Nathan Meehan
2016 President, SPE and Managing Director, Gaffney, Cline & Associates

2016 SPE Distinguished Membership Award Recipient: Dato’ Wee Yiaw Hin
Former Executive Vice President and CEO, Upstream, PETRONAS (2010-2016)

Keynote Speaker: Dzafri Sham Ahmad
Vice President, Group Health, Safety, Security and Environment, PETRONAS

EXECUTIVE PLENARY SESSION 1:

Speakers:
• Datuk Mohd. Anuar Taib, Executive Vice President and CEO, Upstream, PETRONAS
• Datuk Iain Lo, Chairman, Shell Malaysia
• Tammi Morytko, Vice President Operations, Asia Pacific, Baker Hughes
• Chris Hawkes, Safety Director, International Association of Oil & Gas Producers
• Jeffrey Jeter, Associate Director, European Bank for Reconstruction and Development

Moderator:
• David Snashall, Asia Pacific Managing Partner, Capital Project Support, Environmental Resources Management
Executive Plenary Session 2
Value of Doing It Right in the New Norm
Wednesday, 5 April • 0900 – 1030 hours • Conference Hall 1, Level 3

Opening Remarks:
• Mohd Tarmizi Munir, Conference Programme Vice Chairman and CEO, Kebabangan Petroleum Operating Co. Sdn. Bhd. (KPOC)

Speakers:
• Md. Arif Mahmood, Executive Vice President and CEO, Downstream, PETRONAS
• See Kok Yew, Chairman and President, ExxonMobil Exploration and Production Malaysia Inc. and Chairman, ExxonMobil Subsidiaries in Malaysia
• Ir. Haji Saiful Azhar Mohd. Said, Director, Petroleum Safety Division, Department of Occupational Safety and Health Malaysia (DOSH)
• Nathan Meehan, 2016 President, SPE and Managing Director, Gaffney, Cline & Associates
• Rao Abdullah, Region Vice President – Asia Pacific, Halliburton

Moderator:
• Hanif Hashim, General Manager, Petrofac Malaysia
Panel Sessions

PANEL SESSION 1:  
Embracing Environmental Challenges in the New Norm

Tuesday, 4 April • 1115 – 1245 hours • Room 302-303, Level 3

Speakers:
- Dato' Dr. Ahmad Kamarulnajuib Che Ibrahim, Director General, Department of Environment, Malaysia
- Bacho Pilong, Vice President, International Assets, Development & Production, Upstream, PETRONAS
- Lawan Pornsakulsakdi, Vice President, Environment, PTTEP
- Roger Charles, Senior Manager, Environmental and Social Risk Management, Group Corporate Affairs, Standard Chartered Bank

Moderator:
- Jeffrey Jeter, Associate Director, European Bank for Reconstruction and Development

Session Chairpersons:
- Lee Tzee Wan, Custodian, Environmental Management, Group HSE, PETRONAS
- Steve Laking, President, Europe and Africa Division, Ramboll Environ

PANEL SESSION 2:  
Emerging Security Threats and Responses from the Industry

Tuesday, 4 April • 1400 – 1530 hours • Room 302-303, Level 3

Speakers:
- Matthias Wieser, Director, Control Risks Group
- Hamidah Hassan, General Manager, Information Technology ExxonMobil Exploration & Production Malaysia
- Shakib Ahmad Shakir, Director, Maritime Security and Sovereignty Division, National Security Council, Malaysia
- Mohd Abdul Kader Mohd Kassim, Head, Group Security, PETRONAS

Moderator:
- Nor Hashim Yusoff, Head of HSE, Malaysia Petroleum Management, PETRONAS

Session Chairperson:
- Idora Abdul Malek, General Manager – SSHE, ExxonMobil E&P Malaysia
PANEL SESSION 3:
Remote Health Care – Effective Strategies for Managing Risk in Remote Environments

Tuesday, 4 April • 1400 – 1530 hours • Room 305, Level 3

Speakers:
• Dato’ Razin Kamarulzaman, Head, Department of Military Medicine, Armed Forces Hospital Tuanku Mizan
• David Teo, Regional Medical Director, Assistance Services South and South East Asia, International SOS
• Shairizal Badzri, Head, Health, Safety & Environment, PETRONAS Carigali (Iraq)
• Mahzan Haron, Head Occupational Health, HSSE, PETRONAS Refinery & Petrochemical Corporation

Moderator:
• Surya Kumar, Regional Manager, Asia Pacific, Shell Eastern Petroleum

Session Chairperson:
• Norsayani Yaakob, Principal Health Advisor, Group HSE, PETRONAS

PANEL SESSION 4:
HSE Management – Managing Economic Challenges and Regulatory Pressures for Long-Term Sustainability

Tuesday, 4 April • 1600 – 1730 hours • Room 302-303, Level 3

Speakers:
• Craig Marriott, Global Lead, Safety Consulting, Advisian
• Jack Hinton, Executive Vice President - Health, Safety, and Environment, Baker Hughes
• Dato’ Ahmad Hamizan Hasan, Head, HSE Excellence, Downstream Business Excellence, PETRONAS
• Grant Robinson, Regional HSES Programs Manager, Asia Pacific, TechnipFMC

Moderator:
• Looi Art Yew, Head, HSE Risk Management, HSE Excellence, Downstream Business Excellence, PETRONAS

Session Chairperson:
• Alicia Choy May Yi, Management System and Compliance Lead, Repsol
PANEL SESSION 5:
Where Do We Stand and What Do We Do as an Industry to Accelerate Emission Reduction and Mitigate Climate Change?

Wednesday, 5 April • 1100 – 1230 hours • Room 302-303, Level 3

Speakers:
• Mohamed Amin Abdullah, Head, Group HSE, PETRONAS
• Hatarmizi Hassan, Head of Fluids Technology, Group Research & Technology, Project Delivery & Technology, PETRONAS
• Knut Mauseth, General Manager, Development, Upstream International Operated Malaysia, Shell
• Fredolin Tangang, Professor of Climatology and Oceanography, The National University of Malaysia and Former IPCC Working Group 1 Vice Chairman, Intergovernmental Panel on Climate Change

Moderator:
• David Snashall, Asia Pacific Managing Partner, Capital Project Support, Environmental Resources Management

Session Chairperson:
• Lee Tzee Wan, Custodian, Environmental Management, Group HSE, PETRONAS
• Steve Laking, President, Europe and Africa Division, Ramboll Environ

PANEL SESSION 6:
Asset Integrity and Process Safety

Wednesday, 5 April • 1400 – 1530 hours • Room 302-303, Level 3

Speakers:
• Kevin Gan, Principal, Asset Integrity and Digital Advisory, Advisian Worley Parsons
• Voon Jye Yng, Senior Partner, Environmental Resources Management
• Sulo Belawan, Technical Head of Process Safety, Group HSE, PETRONAS
• Ahmad Sazali Mudzakir, General Manager, Technical Services Division, PETRONAS Penapisan (Melaka) Sdn Bhd.

Moderator:
• Mark Cowan, Director, Advisian

Session Chairperson:
• Christie Leong, Partner, Environmental Resources Management
PANEL SESSION 7:  
Next Generation HSE – Building Human Capability and Sustaining Them During Challenging Times  
Wednesday, 5 April • 1400 – 1530 hours • Room 305, Level 3  

Speakers:  
• David Nelissen, Managing Director - Resources, HSSE Global, Accenture  
• Thiran Nathan, Regional Approvals Manager, Asia Pacific, OPITO  
• Dato’ Rozano Saad, Head, Downstream Business Excellence, PETRONAS  
• Azizin Zainuddin, Head of Capability, Group HSE, PETRONAS  

Moderator:  
• Yusop Sahari, Head, HSE Global Services, HSE Division, Development & Production, PETRONAS Carigali  

Session Chairperson:  
• Sufyan Mohd Nor, Head, Process Safety Management, HSE Excellence, Downstream Business Excellence, PETRONAS  

PANEL SESSION 8:  
Social Responsibility – Is it Adding Value or Cost to the Business?  
Wednesday, 5 April • 1600 – 1730 hours • Room 302-303, Level 3  

Speakers:  
• Roman Novozhilov, Senior Environmental and Social Specialist, Transaction Risk and Sustainability, International Finance Corporation, World Bank Group  
• Nicholas Abrahams, Social Risk Advisor, Schlumberger  
• Karen Westley, Global CO: Implementation Manager, Shell  
• Puguh Sarwanto, Head of Support Operation Department, Sustainable Development & Societal Relation, Total E&P Indonesia  
• Luc Zandvliet, Director, Triple R Alliance  

Moderator:  
• Azrina Abdullah, Head, Sustainable Development, PETRONAS  

Session Chairperson:  
• Cynthia Ann Peterson, Head, Upstream Social Performance, PETRONAS
PANEL SESSION 9:  
Smart Partnerships - Collaboration between EPC, Partners, and Other Stakeholders for Improved Performance  
Thursday, 6 April • 0900 – 1030 hours • Room 302-303, Level 3

Speakers:  
• Fabien Condemine, Chief Executive Officer, ACOEM  
• Jalal Abu Bakar, Vice President, Commercial, Mubadala Petroleum  
• Hazlan Bahar, Head, Project Delivery (Upstream), Group Project Delivery, Project Delivery & Technology, PETRONAS  
• Neil Horbachewski, Vice President, Health, Safety, Security, Environment, and Operational Excellence, Progress Energy

Moderator/ Session Chairperson:  
• Patrice Pischedda, Asia Pacific Director, ACOEM

PANEL SESSION 10:  
Importance of Health to HSSE Management – The Significance of Managing Health to Achieve Generative Work Culture  
Thursday, 6 April • 1100 – 1230 hours • Room 302-303, Level 3

Speakers:  
• Scott Levy, Regional Medical Director, Asia Pacific Region, Chevron  
• Rozhan Shariff Mohd Radzi, Country Occupational Health Manager and Medical Advisor, ExxonMobil Malaysia  
• Mohamed Amin Abdullah, Head, Group HSE, PETRONAS  
• Ungku Haslina Ungku Tahir, Senior General Manager, Human Capital Management, Group Human Resource Management, PETRONAS

Moderators/Session Chairperson:  
• Kumarajothy Supramaniam, Head, Occupational Health, Group HSE, PETRONAS
Tuesday, 4 April • 1115 – 1245 hours
TECHNICAL SESSION 1: STANDARDISATION - MORE WITH LESS
Room 304, Level 3

Session Chairpersons:
Patrice Pischedda, ACOEM
Alicia Choy, Repsol

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<td>Less with Less - Transforming the HSE Function for a Cost-Constrained World</td>
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<td>T.H. Woollard and D. Lloyd, ERM</td>
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<td>How Market Conditions can Drive Innovation in HSE - A Case Study Looking at Setting up a New Facility in PNG</td>
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<td>T. Simpson-Langley and S. Duncan, Baker Hughes Inc.</td>
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<td>Achieving Common Requirements for Improved Safety and Efficiency</td>
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<td>N. Popat, Shell Intl. Exploration and Production; C. Hawkes, Intl. Association of Oil and Gas Producers; S. Bergeron, Kosmos Energy; M. Carvalho, Intl. Association of Oil and Gas Producers; K. Cruickshank, Oil &amp; Gas UK; S. Devincq, Total; G. Gratz, ExxonMobil Development Co.; A. Mugno, Chevron; B. Perkins, Shell; D. Stroud, Kosmos Energy; S. Sotoudehmanesh, Statoil; J. Trapp, BP; A. Burton, Shell Intl. Trading and Shipping Co.; N. Vassiliev, O. Reyes Valdes, Shell Intl. Exploration and Production</td>
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<td>A Business-Outcome Focussed, Risk-Based Approach to Management of Critical HSSE Aspects on Capital Projects</td>
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<td>B. Green and D. Wills, ERM</td>
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Tuesday, 4 April • 1115 – 1245 hours
TECHNICAL SESSION 2: GOOD PRACTICES IN MITIGATING SOCIAL RISKS THROUGH MANAGEMENT SYSTEMS
Room 305, Level 3

Session Chairperson:
Roman Novozhilov, International Finance Corporation, World Bank Group

Speaker:
Societal Risk Assessment, a Key to Prevent Societal Disturbance Against Company’s Operations
Puguh Sarwanto, Head of Support Operation Department, Sustainable Development & Societal Relation, Total E&P Indonesia

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<td>Integrating Social Performance into Management System Towards Achieving Sustainability</td>
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<td>S. Foo and R.T. Raja Musa, PETRONAS</td>
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Tuesday, 4 April • 1400 – 1530 hours
TECHNICAL SESSION 3: MITIGATING ENVIRONMENT RISK
Room 304, Level 3

Session Chairpersons:
Mariana Michael, Sarawak Shell Berhad
M. Nizam Basiron, PETRONAS

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<tr>
<td>1400</td>
<td>185188</td>
<td>Developing Regulations Concerning Dispersant Use - A Recommended Good Practice Approach</td>
<td>T.S. Coolbaugh, ExxonMobil Research and Engineering; G. Varghese, Oil Spill Response Ltd.; P. Taylor, Petronia Consulting; R.T. Cox, IPIECA; A. Lewis, Independent Oil Spill Consultant</td>
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<td>1420</td>
<td>185208</td>
<td>Biodiversity and Ecosystem Services Risk Assessment (BESRA) for 2D Land Seismic Survey: Case Study of Open Block SK6-00 Limbang, Sarawak</td>
<td>W. Wan Abdul Fatah, PETRONAS</td>
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<td>1440</td>
<td>185229</td>
<td>Regeneration Monitoring on Pipeline Projects: The PNG LNG Experience</td>
<td>A. Mosby, M.N. Sugihara and J. Mogina, ExxonMobil PNG Ltd.; V. Novotny, New Guinea Binatang Research Center</td>
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Tuesday, 4 April • 1600 – 1730 hours
TECHNICAL SESSION 4: EXPERIENCE SHARING IN MANAGING HSSE RISKS
Room 304, Level 3

Session Chairpersons:
Anne Østdahl, Lloyd’s Register Consulting
Enteli Kilat, JX Nippon Oil and Gas Exploration (Malaysia) Ltd.

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<td>How to Manage HSSE Risks in the Giant Oilfield Between Iraq and Iran Border?</td>
<td>R. Li, CNPC Drilling Research Inst.; Z. Xu, X. Sun, CNPC Middle East; X. Wang, L. Ping, CNPC DR; J. Wang, CNODC</td>
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<td>1620</td>
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<td>Application of Data Drilling in Dropped Objects Prevention in the Well Site</td>
<td>W. Leong, Baker Hughes Inc.</td>
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<td>1700</td>
<td>185236</td>
<td>Overcoming Challenges in Respirator Fit Testing in Upstream Malaysia</td>
<td>R. Hamzah, N.H. Yusoff and N. Zali, PETRONAS</td>
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Tuesday, 4 April • 1600 – 1730 hours
TECHNICAL SESSION 5: HEALTHCARE AS A LICENSE TO OPERATE
Room 305, Level 3

Session Chairpersons:
Surya Kumar, Shell Eastern Petroleum (Pte) Ltd.
Salmaan Inayat-Hussain, PETRONAS
Marci Balge, NewFields Inc.

Time   Papers
1600   185215 What Happened? Retrospective Health Review of the PNG LNG Project
N. Kumar, ExxonMobil PNG Ltd; M.Z. Balge and G.R. Krieger, Newfields Inc.

1620   185265 Delivering an Integrated Approach of Medical Emergency Response Plan
N. Mohamad Yaakob, PETRONAS

1640   152377 (Previously Published Paper) The Importance of Noise Management Early in the Design Process
J.D. Alvarez, Lloyd’s Register Asia

1700   185205 Factors Contributing to Premature Disembarkation in Malaysian Offshore Due to Illness and Work Related Injuries
A.Y. Tan, PETRONAS, A.Nawi and N.Ismail, UKM

Wednesday, 5 April • 1100 – 1230 hours
TECHNICAL SESSION 6: ELEVATING HSSE PERFORMANCE USING TECHNOLOGIES AND SYSTEMS
Room 304, Level 3

Session Chairpersons: Dominique Grepinet, Independent
Piotr Sapa, South Australian Government

Time   Papers
1100   185209 Building Process Safety Culture – A Practical Implementation
P.C. Nesa and I.S. Hadikusumo, ConocoPhillips

1120   185244 Achieving HSE Performance on a Previously Inactive Rig Through Crew Resource Management Approach
R. Hamzah, S. Abdul Ghani and M. Mohd Nurdin, PETRONAS

1140   185222 Change Management and its Impact on Organisational Performance: Empirical Evidence from an Oil and Gas Firm
A. Choy, Repsol Oil & Gas Malaysia Ltd.

1200   185245 Management At Corporate Level Of Noise Exposure Assessment And Control For Petrobras Refining
I. Mohamed and K. Cormier, ACOEM
Wednesday, 5 April • 1100 – 1230 hours
TECHNICAL SESSION 7: HEALTH RISK MANAGEMENT AND WELLNESS
Room 305, Level 3

Session Chairpersons:
Norsayani Yaakob, PETRONAS
Gary Krieger, NewFields Inc.

Time   Papers
1100    185248 “Smart” Strategy to Face New Norms: Efficient Management of Medical Data, Health Performance Analysis and Monitoring
Z. Mohamad Yunus, PETRONAS

1120    185186 Leveraging on Diverse Workforce - Accommodations and Accessibility for All
A. Seet, Shell

1140    185266 Integrated Approach in Fatigue Management
M.N. Jemoin and A.K. Abdullah, PETRONAS

1200    185200 Implementing an Integrated Wellness Programme
E. Ho, Shell Malaysia; H. Bujang, Independent

Wednesday, 5 April • 1400 – 1530 hours
TECHNICAL SESSION 8: MANAGING LAND FOR SUSTAINABILITY
Room 304, Level 3

Session Chairperson:
Ng Hon Seng, Environmental Resources Management

Speaker:
Managing and Sustaining Land with Innovative Research and Technology
Fazli Rahim, Technical Professional, PETRONAS Project Delivery & Technology Division, PETRONAS

Time   Papers
1420    185195 Rapid Field Analytical Methods for Total Petroleum Hydrocarbons
D. Kong and T. Hoelen, Chevron Energy Technology Co.; T. Vidra, S. Chitra, D. Saputra, T. Kuswardani, Y. Pandjaitan, A. Widiyanto and C. Armprimeter, Chevron Pacific Indonesia; M. Mardalina, Ministry of the Environment

1440    185261 The Application of Ultrasonic Technology for Cleaning Oil Contaminated Sand
Y. Xu, C. Langbauer and H. Hofstaetter, Montanuniversität Leoben

1500    185196 Strategies for Enhancing Bioremediation for Hydrocarbon-Impacted Soils
Wednesday, 5 April • 1600 – 1730 hours
TECHNICAL SESSION 9: HSE BARRIER MANAGEMENT - WHAT'S NEW?
Room 304, Level 3

Session Chairpersons:
Danial Khan Abdul Rashid Khan, Lloyd's Register Consulting
Tom Arne Bakken, DNV GL

Time | Papers
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1600 | 185234
SIL Product Certificates for More Efficient Documentation of Functional Safety - Challenges and Pitfalls
A. Østdahl, C.S. Grøteland, A. Casal and C. Berridge, Lloyd’s Register

1620 | 185214
Is the Current Practice of Conducting Well Control Drills Obsolete?

1640 | 185257
Minimum Requirement for Basic Onshore Safety Training Module for Upstream Malaysia Remote Location
R. Hamzah, R. Ibrahim, N. M Sapli and N.H. Yusoff, PETRONAS

1700 | 185266
Challenges and Improvement of Instrumented Protective Function (IPF) Maintenance
J. Lim, M. Mahmood, M. Sidek and A. Hashim, PETRONAS

Thursday, 6 April • 0900 – 1030 hours
TECHNICAL SESSION 10: OIL SPILL PREPAREDNESS AND RESPONSE
Room 304, Level 3

Session Chairpersons:
Darren Waterman, Oil Spill Response Ltd.
Jeffrey Jeter, European Bank for Reconstruction and Development

Time | Papers
--- | ---
0900 | 185203
The Value of Focused Consensus Ecological Risk Assessments with Trans-Boundary Considerations for Oil Spill Response
G. Varghese, Oil Spill Response Ltd.; T.S. Coolbaugh, ExxonMobil Research and Engineering; A. Walker, SEA Consulting Group

0920 | 185187
Sensing-Based Technology Advances for Enhanced Deployment of Oil Spill Response Resources
T.S. Coolbaugh, ExxonMobil Research and Engineering; A. Chopra and G. Varghese, Oil Spill Response Ltd.

0940 | 185227
Regulator Industry Partnerships for Effective Offshore Oil Spill Preparedness and Response
R.D. Jones, NOPSEMA; R.T. Cox, IPIECA; M.L. O’Brien, NOPSEMA
Thursday, 6 April • 1100 – 1230 hours
TECHNICAL SESSION 11: MANAGING CONFLICT TO MAINTAIN PRIVILEGE TO OPERATE – HAVE WE LEARNED ANYTHING?
Room 304, Level 3

Session Chairperson:
Raja Tatina Raja Musa, PETRONAS

Speaker:
Conservation, Business and Communities in Protected Areas: A Case Study of the Royal Belum State Park
Kamal Solhalmi Fadzil, Lecturer (Social Anthropology), Dept of Anthropology, Faculty of Social Sciences, University of Malaya

Time Papers
1120 185263 How to Lose Social License to Operate: A Case Study of the NSW Coal Seam Gas Industry. What Happened and What can be Learned
D. Snashall and S. Genter, ERM
1140 185211 Asset Level Social Performance in Conflict Areas and Frontier Markets; Doable or Doomsday Scenario?
L. Zandvliet, Triple R Alliance
1200 185206 Lesson Learnt and Emerging Good Practices in Grievance Management
J. Heng and C. Peterson, PETRONAS

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(Updated as at 20 March 2017)

An ePoster is an electronic version of the traditional poster, presented on a large digital flat screen. The electronic format offers the added benefit of animation and video to enhance the visual experience and provide greater interactivity between attendees and authors.

During the ePoster session, authors will present their technical papers at designated ePoster stations. Attendees are encouraged to attend the sessions for more knowledge sharing and networking opportunities. ePosters are also available for attendees viewing at ePoster stations throughout the conference.

| ePOSTER PRESENTATION SCHEDULE |
| Date | Time | Venue |
| Tuesday, 4 April 2017 | 1330 – 1400 hours | ePoster stations are located at Conference Hall 2 |
| | 1530 – 1600 hours | |
| Wednesday, 5 April 2017 | 1030 – 1100 hours | |
| | 1330 – 1400 hours | |
| | 1530 – 1600 hours | |
| Thursday, 6 April 2017 | 1030 – 1100 hours | |

STATION 1
Tuesday, 4 April

| Time | Papers |
| 1330 | Optimisation of Mercury Health Surveillance Program for Offshore Workers H. Lee and A. Kasim, Repsol Oil and Gas Malaysia Ltd. (Alternate Paper in Technical Session 5) |

STATION 1
Wednesday, 5 April

| Time | Papers |
| 1030 | Offshore Self-Regulation (OSR) Implementation in Malaysia Upstream Activities A. Abdul Ghani, PETRONAS (Alternate Paper in Technical Session 6) |
| 1330 | The Importance of Comprehensive Health Risk Assessment in Preventing Occupational Illness - Lesson Learnt From Leptospirosis Illness Incident in a Land Seismic Exploration Project A. Abdullah, R. Ronaldin and Z. M Yúnus, PETRONAS (Alternate Paper in Technical Session 7) |
| 1530 | Health Management Solution Thanks to Wireless Vibration Sensors V. Le Breton, G. Lavaure and P. Vouagner, ACOEM (Alternate Paper in Technical Session 9) |

STATION 1
Thursday, 6 April

| Time | Papers |
## STATION 2

### Tuesday, 4 April

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- **Product Regulatory Compliance in an Agile Supply Chain**<br>  M. Chai, PETRONAS  
  *(Alternate Paper in Technical Session 5)*
- **Social Performance Indicators in the Update of the Oil and Gas Industry Guidance on Sustainability Reporting**<br>  H. Murphy and R. Collacott, IPIECA; J. Campbell, IOGP; A. Padilla, American Petroleum Inst.  
  *(Alternate Paper in Technical Session 2)*

## STATION 2

### Wednesday, 5 April

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- **Advancements in Technology - 3D Dropped Object Risk Assessment**
  Y. Lai and A. Bahuguni, Lloyd’s Register  
  *(Alternate Paper in Technical Session 6)*
- **Managing Health Challenges during Plant Turnaround**
  H. Hassan, Downstream Business Excellence, PETRONAS  
  *(Alternate Paper in Technical Session 7)*
- **Hands Free Implementation in the Global Supply Chain Operations of an Oilfield Services Provider**
  *(Alternate Paper in Technical Session 9)*

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### Thursday, 6 April

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- **Lessons Learned from Oil and Gas Industry Project on Community Grievance Mechanisms**
  B. Collacott, IPIECA; A. Abdullah, PETRONAS; H. Murphy, IPIECA  
  *(Alternate Paper in Technical Session 11)*

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- **Operational Excellence Efficiencies: Effective Transition from Capital Project to Operating Facility**
  E.L. Green and P. Tonge, ERM  
  *(Alternate Paper in Technical Session 1)*
- **Comparing Fitness to Work Assessments on Onshore Employees Using Telehealth Versus Conventional Method**
  M. Mohd Shaffi, Sarawak Shell Bhd; A. Mohamed, Shell; P. Appareo, Perkhidmatan Antarabangsa SOS  
  *(Alternate Paper in Technical Session 5)*
## STATION 3
### Wednesday, 5 April

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| 1030   | [Implementing Office Ergonomics in Challenging Times](#) M. Arasaratnam, PETRONAS  
[Alternate Paper in Technical Session 7] |
| 1330   | [Stepping up Safety Leadership in Managing Geophysics and Geomatics Operations](#) K. Bong and H. van Voorst Vader, Sarawak Shell Bhd. |
| 1530   | [Tools for Pipeline Risk Assessment using PD8010:Part 3](#) L. Jiao, S. Cheng and J.D. Alvarez, Lloyd’s Register  
[Alternate Paper in Technical Session 9] |

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### Thursday, 6 April

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| 1030   | [Stochastic Spill Transport and Fate Forecasting for a Coastal Oil Field in Indonesia](#) B.O. Bassey, and T.O. Ajare, Coventry U.  
[Alternate Paper in Technical Session 10] |

## STATION 4
### Tuesday, 4 April

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| 1530   | [Single Color Coding Standard Across Same Geographic Location for Lifting and Hoisting Equipment and Gears](#) M.M. Ahmed, Weatherford  
[Alternate Paper in Technical Session 1] |

## STATION 4
### Wednesday, 5 April

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[Alternate Paper in Technical Session 8] |
ADVISIAN MALAYSIA SDN BHD – BOOTH B02
Level 18, AIA CapSquare Tower, No. 10, Jalan Munshi Abdullah, Kuala Lumpur 50100, Malaysia
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Website: www.bivglobal.com
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Email: zamir@innoveam.com; fyzreendamira@innoveam.com; fareen@innoveam.com
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Email: ras.rasul@iesb.my
Website: www.iesb.my
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Website: www.internationalsos.com
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Tel: +65.6266.1566 Fax: +65.6266.2312
Email: singapore@oilspillresponse.com
Website: www.oilspillresponse.com
Oil Spill Response Limited (OSRL) is the largest international industry-funded cooperative which exists to respond to oil spills wherever in the world they may occur, by providing preparedness, response and intervention services.

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PETRONAS is committed to Health, Safety and Environment Excellence in all its activities wherever it operates. This year, we showcase the processes, tools and technologies in managing asset integrity and process safety.

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Tel: +603.2182.3000    Fax: +603.2182.3030
Email: spekl@spe.org
Website: www.spe.org

The Society of Petroleum Engineers (SPE) is a key resource for technical knowledge related to the oil and gas exploration and production industry. SPE provides services through publications, events and training courses and online resources at www.spe.org.
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Panel speakers, presenting authors and session chairpersons are requested to check-in at the Author Check-In Room, and to load and review their PowerPoint slides prior to their scheduled presentations. The Author Check-In Room is located at Room 306, Level 3, Kuala Lumpur Convention Centre. Speakers, presenting authors and session chairpersons should report to their assigned room 30 minutes before the session begins.

Registration
On-site registration and advance registration badge collection are located at the Registration Counter, Pre-Function Foyer (West), Level 3, Kuala Lumpur Convention Centre. Registration hours are as follows:

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, 3 April</td>
<td>1200-1800 hours</td>
</tr>
<tr>
<td>Tuesday, 4 April</td>
<td>0730-1830 hours</td>
</tr>
<tr>
<td>Wednesday, 5 April</td>
<td>0730-1730 hours</td>
</tr>
<tr>
<td>Thursday, 6 April</td>
<td>0730-1230 hours</td>
</tr>
</tbody>
</table>

Registration badges are required for admission to all conference activities and to the exhibition area.

Digital Proceedings
Digital proceedings are available for collection at the SPE Membership Booth, Conference Hall 2, Kuala Lumpur Convention Centre.

Lost & Found
Lost and found items will be placed at the Speaker/Author/Session Chairperson check-in located at Room 306, Level 3, Kuala Lumpur Convention Centre.

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Medical assistance is available at the Medical Room located at the Centre Core, Level 3 from Monday, 3 April through Thursday, 6 April. Alternatively, please refer to SPE and/or venue staff.

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