Energy Resilience through Efficiency, Collaboration and Technology
MESSAGE FROM THE ADVISORY COMMITTEE CHAIRMAN

On behalf of SPE and IATMI, we are pleased to invite you and your organisation to participate in the 2017 Asia Pacific Oil & Gas Conference and Exhibition (APOGCE) to be held from 17-19 October at the Bali Nusa Dua Convention Center, Bali, Indonesia.

As SPE’s regional flagship event, APOGCE is the premier upstream technical conference in the Asia Pacific region, covering a broad range of technical disciplines involved in exploration and production activities.

In Indonesia, SPE and IATMI have collaboratively produced this successful biennial event since 1999. Its presence and history in Indonesia and the region has cemented APOGCE’s status as the foremost oil and gas industry event in Asia Pacific that brings together energy companies and industry professionals for technology transfer and information exchange.

Themed Energy Resilience through Efficiency, Collaboration and Technology, APOGCE 2017 will provide an invaluable platform for participants to gain pertinent insights into the industry through a compelling technical programme that features prominent industry leaders and renowned industry experts in stimulating executive plenary, panel, special and project case study sessions. The conference also boasts the strongest technical programme to date, with 35 technical sessions and eight ePoster sessions for critical exchange of multi-disciplinary technical learnings.

We are proud to have put together a comprehensive programme that will promote knowledge and capability development, and look forward to welcoming you to Bali to join us for this exciting event. On behalf of the 2017 APOGCE team, thank you in advance for your support. Together we can make this a successful event. See you in October!

Sincerely,
Syamsu Alam
Upstream Director
PT Pertamina (Persero)
MESSAGE FROM THE CONFERENCE CHAIRMAN

The 2017 Asia Pacific Oil & Gas Conference and Exhibition (APOGCE) returns for the second time to Bali, Indonesia, this October. As the 2017 conference chair, it gives me great pleasure to welcome your support and invite you to join us for this important regional technical event.

APOGCE 2017 is the 10th collaborative effort between SPE and IATMI. This inspiring edition will draw over 1,000 participants together for technology dissemination, knowledge sharing and collaboration of regional and global scales. Distinguished leaders, prominent experts and technical professionals will share insights and address pertinent regional and global challenges in the changing world of energy.

As depressed oil prices continue to drive the industry to leverage on cutting-edge innovations, improve proficiencies and focus on synergistic partnerships to ensure continuous sustainability, the theme of this conference is Energy Resilience through Efficiency, Collaboration and Technology. In line with this theme, this regional flagship conference will facilitate constructive dialogues, encourage creative thinking and innovation, and create opportunities for industry professionals to exchange ideas as more than 400 technical papers from over 100 organisations representing more than 30 countries will be presented and discussed.

In addition to the high-quality technical programme, APOGCE will also feature important programmes aimed at shaping the growth of our industry’s young professionals and student members. Young professionals will learn from and engage with industry leaders through the Young Professionals Workshop, while university students from across the region have the opportunity to compete in the Regional Student Paper Contest. High school students and teachers will also participate in the Education and Teachers’ Day programmes as part of SPE’s continuous effort to inspire the younger generation as well as broaden their horizons on knowledge of the industry.

We hope that you will seize this unique opportunity to join us at APOGCE 2017 and thank you in advance for your participation. With your support, we are confident of yet another successful edition of the Asia Pacific Oil & Gas Conference and Exhibition.

Sincerely,
Hendra Jaya
Technical Expert/Strategic Advisor to CEO
PT Pertamina (Persero)
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Liu He
RIPEED, PetroChina

Wu Shuhong
RIPEED, PetroChina

Ahmad M. Garwan
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Liu Hai
Schlumberger

Saison Daungkaew
Schlumberger

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Schlumberger

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# SCHEDULE OF EVENTS

## MONDAY, 16 OCTOBER

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<tr>
<th>Time</th>
<th>Activity</th>
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<td>Registration</td>
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<td>0900-1700 hours</td>
<td>Exhibitor Move-In</td>
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<td>0800-1200 hours</td>
<td>IATMI Business Forum</td>
<td>The Westin Resort Nusa Dua, Bali</td>
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<td>1300-2000 hours</td>
<td>Young Professionals Workshop</td>
<td>Legian 1 &amp; 2</td>
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<td>1800-2200 hours</td>
<td>Networking Dinner</td>
<td>The Westin Resort Nusa Dua, Bali</td>
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## TUESDAY, 17 OCTOBER

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<td>0900-1000 hours</td>
<td>Opening Session</td>
<td>Pecatu Halls 3 &amp; 5</td>
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<tr>
<td>0945-1830 hours</td>
<td>Exhibition</td>
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<td>1000-1030 hours</td>
<td>Coffee Break</td>
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<td>1030-1230 hours</td>
<td>Executive Plenary Session: Energy Resilience through Efficiency, Collaboration and Technology</td>
<td>Pecatu Halls 3 &amp; 5</td>
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<td>1230-1400 hours</td>
<td>Networking Luncheon</td>
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<td>1300-1400 hours</td>
<td>Knowledge Sharing ePoster Session 1</td>
<td>Pecatu Halls 1 &amp; 2</td>
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<tr>
<td>1400-1530 hours</td>
<td>Panel Session 1: Thriving in Low Oil Price Scenarios</td>
<td>Mengwi 7 &amp; 8</td>
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| 1400-1530 hours | Technical Sessions:                                | |<| Session 1: Facilities and Asset Integrity  Mengwi 1  
| 1400-1530 hours | Technical Sessions:                                | |<| Session 2: Simulation, Artificial Intelligence and Modelling: Enhanced Simulation Workflows and Optimisation  Mengwi 2  
| 1400-1530 hours | Technical Sessions:                                | |<| Session 3: Production Optimisation in Brownfields: Finding Values in Your Own Backyard  Mengwi 3  
| 1400-1530 hours | Technical Sessions:                                | |<| Session 4: Well Intervention and Data Acquisition  Mengwi 5  
| 1530-1600 hours | Technical Sessions:                                | |<| Session 5: Deepwater and Subsea  Mengwi 1  
| 1530-1600 hours | Technical Sessions:                                | |<| Session 6: Near-Wellbore Reservoir Assessment  Mengwi 2  
| 1600-1730 hours | Technical Sessions:                                | |<| Session 7: Upper Completion  Mengwi 5  
| 1600-1730 hours | Technical Sessions:                                | |<| Session 8: Process Optimisation and Operations Excellence  Mengwi 1  
| 1600-1730 hours | Technical Sessions:                                | |<| Session 9: EOR – Surfactant  Mengwi 2  
| 1730-1830 hours | Knowledge Sharing ePoster Session 3                | Pecatu Halls 1 & 2               |
| 1730-1830 hours | Welcome Reception                                  | Pecatu Halls 1 & 2               |

## WEDNESDAY, 18 OCTOBER

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<td>0900-1230 hours</td>
<td>SPE Asia Pacific Regional Student Paper Contest: Undergraduate</td>
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<tr>
<td>0900-1230 hours</td>
<td>SPE Asia Pacific Regional Student Paper Contest: Postgraduate</td>
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<td>0900-1030 hours</td>
<td>Oil and Gas Project Case Study Session 1 – Banyu Urip</td>
<td>Mengwi 7 &amp; 8</td>
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<tr>
<td>0900-1030 hours</td>
<td>Special Session 2: Rate Transient Analysis: A Rainbow of Real-Life Cases</td>
<td>Mengwi 6</td>
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| 0900-1030 hours | Technical Sessions:                                | |<| Session 8: Process Optimisation and Operations Excellence  Mengwi 1  
| 0900-1030 hours | Technical Sessions:                                | |<| Session 9: EOR – Surfactant  Mengwi 2  
| 1000-1730 hours | Exhibition                                         | Pecatu Halls 1 & 2               |
| 1030-1100 hours | Coffee Break                                       | Pecatu Halls 1 & 2               |
| 1030-1100 hours | Knowledge Sharing ePoster Session 4                | Pecatu Halls 1 & 2               |
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<td>Panel Session 3: Indonesia Session – Rejuvenating Exploration and Development</td>
<td>Mengwi 7 &amp; 8</td>
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<td>1100-1230 hours</td>
<td>Special Session 3: Asset Abandonment and Well Integrity</td>
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<td>1100-1230 hours</td>
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<td>Session 12: Economic Evaluation and Decision-Making</td>
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<td>Session 13: Rate Transient Analysis: An Integrated Production Analysis and Reservoir Characterisation</td>
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<td>Session 14: Unconventional – Drilling and Completions</td>
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<td>Session 15: Geomechanics and Sand Face Completion</td>
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<td>1230-1400 hours</td>
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<td>Knowledge Sharing ePoster Session 5</td>
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<td>1400-1530 hours</td>
<td>Panel Session 4: Sustaining Production from Mature Fields and Brownfields</td>
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<td>1400-1530 hours</td>
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<td>Session 16: Portfolio Management</td>
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<td>Session 17: Reservoir Characterisation – Sandstone</td>
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<td>Session 18: Well Integrity and Cementing</td>
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<td>Session 19: Pore Pressure, Wellbore Stability and Drilling Fluids</td>
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<td>1530-1600 hours</td>
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<td>Knowledge Sharing ePoster Session 6</td>
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<td>1600-1730 hours</td>
<td>Oil and Gas Project Case Study Session 2 – PFLNG</td>
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<td>Session 20: Managing Risk and Environment Performance</td>
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<td>Session 21: EOR – Heavy Oil</td>
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<td>Session 22: Field Development Planning – Case Studies</td>
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<td>Session 23: Well Archicture, Production and Flow Assurance</td>
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### THURSDAY, 19 OCTOBER

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<td>0900-1500 hours</td>
<td>Education and Teachers’ Day</td>
<td>Legian 1 &amp; 2</td>
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<td>0900-1030 hours</td>
<td>Panel Session 5: Managing Smooth Operatorship Transfer</td>
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<td>Session 24: Corrosion and Flow Assurance</td>
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<td>Session 25: Unconventional – Reservoir Characterisation</td>
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<td>Session 26: Mature Fields Optimisations through Surface and Subsurface Integration</td>
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<td>Session 27: Well Control and Managed Pressure Drilling</td>
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<td>1030-1100 hours</td>
<td>Knowledge Sharing ePoster Session 7</td>
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<td>1100-1230 hours</td>
<td>Oil and Gas Project Case Study Session 3</td>
<td>Mengwi 7 &amp; 8</td>
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<td>Session 28: Building Leadership and Technical Competency</td>
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<td>Session 29: EOR – Waterflood Optimisation</td>
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<td>Session 30: Unlock the Potential of Mature Fields through Proactive Surveillance and Monitoring</td>
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<td>Session 31: Deepwater Drilling</td>
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<td>1300-1400 hours</td>
<td>Knowledge Sharing ePoster Session 8</td>
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<td>1400-1530 hours</td>
<td>Panel Session 6: Powering Asia through LNG</td>
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<td>Session 32: Driving Business Efficiency</td>
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<td>Session 34: Field Development Planning in Indonesia</td>
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<td>Session 35: Drilling Performance and Tools</td>
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OPENING SESSION

Tuesday, 17 October • 0900-1000 hours • Pecatu Halls 3 & 5

The opening session provides an excellent opportunity for participants to gain industry insights and meet key decision makers and leaders. Attendance at this event will include senior management from major petroleum-related companies, representatives from government ministries and department, and technical industry professionals.

Speakers:
• Hendra Jaya, 2017 APOGCE Conference Chairman, and Technical Expert/Strategic Advisor to CEO, PT Pertamina (Persero)
• Janeen Judah, Chevron, 2017 SPE President
• H.E. Ignasius Jonan, Minister of Energy and Mineral Resources, Republic of Indonesia (To Be Invited)

Sponsored by:

EXECUTIVE PLENARY SESSION

Energy Resilience through Efficiency, Collaboration and Technology
Tuesday, 17 October • 1030-1230 hours • Pecatu Halls 3 & 5

Our industry has had to persevere a significant downturn over the last several years due to the drastic drop in oil and gas prices. To survive and thrive in this dynamic environment, and to continue to provide energy to our many stakeholders, the industry has had to transform itself and will need to continue to do so. This has and will need to be achieved through improved efficiency to create a sustainable operational blueprint, employing new strategies for collaboration between operators and the service sector, and leveraging innovative technologies.

This session brings together an esteemed group of industry players to discuss the achievements and outlook on this journey to energy resilience.

Keynote Speaker:
Elia Massa Manik, President Director, PT Pertamina (Persero)

Speakers:
Datuk Mohd Anuar Taib, Executive Vice President and Chief Executive Officer, Upstream, PETRONAS
Christina Verchere, Regional President – Asia Pacific, BP
Visal Leng, President, Asia Pacific, Baker Hughes, a GE company
Tapas K. Sengupta, Director (Offshore), ONGC

Moderator:
Craig Stewart, Senior Vice President International E&P, Medco Energi
Panel Session 1: Thriving in Low Oil Price Scenarios
Tuesday, 17 October • 1400-1530 hours • Mengwi 7 & 8

Oil price has declined sharply since 2014. There is prediction that the low oil price will stay for years. Lower oil price will significantly impact an organisation’s corporate strategy. There will be challenges and also opportunities for companies to survive, succeed and grow in the current scenario.

This session will discuss how organisations and government bodies’ strategies, e.g. portfolio, operations, assets, technology and capital spending, are responding to reflect the impact of lower oil price in order to thrive and take advantage for future success.

Speakers:
Rustom Mody, Vice President – Technical Excellence/Enterprise Technology, Baker Hughes, a GE company
Gigih Prakoso, Senior Vice President, Corporate Strategic Growth, PT Pertamina (Persero)
Zikrullah, Vice Chairman, SKK Migas
John Anis, Vice President Field Operation, Total E&P Indonesie

Session Chairpersons:
Rachmat Hidayat, Vice President – Technical Support, PT Pertamina EP Cepu
Elsie Chia Shen Sow, Reservoir Engineer, PETRONAS
Jianke Wang, Director of Engineering and Product Development, TSC Group Holdings Ltd.

Panel Session 2: Marginal Field Development and Redevelopment Opportunities
Tuesday, 17 October • 1600-1730 hours • Mengwi 7 & 8

With the current ‘lower-for-longer’ oil and gas price trends, many oil or gas assets waiting for development are falling into the marginal category. Most companies have multiple marginal discoveries. With the reduction of exploration budgets worldwide and decrease in new big discoveries, marginal field developments can play an important role in the supply of oil and gas in the near future. Marginal and stranded resources need a relook and ‘out-of-the-box’ thinking to make them economically viable. Such resources no longer deserve to be ignored and can become good development opportunities for the future.

This session will focus on the challenges of developing marginal and stranded resources, both onshore and offshore, and ways to overcome such challenges. The session will also include case reviews of any recent marginal fields developed or being developed and the challenges that had to be tackled to succeed.

Speakers:
Andi W Bachtiar, Vice President Enhanced Oil Recovery, PT Pertamina EP
Chawiwan Jirarat charger, Acting Vice President, Reservoir Engineering, PTTEP
Ronny Hendrawan, President Director, Schlumberger Indonesia
(Additional speaker to be confirmed)

Session Chairpersons:
Prady Chaliha, General Manager – Subsurface, Osaka Gas Australia
Andry Halim, Advisor, PT Pertamina Upstream Technology Center
Sanjeev Rajput, Principal Advisor – Geophysics, Gaffney Cline & Associates
Panel Session 3: Indonesia Session - Rejuvenating Exploration and Development

Wednesday, 18 October • 1100-1230 hours • Mengwi 7 & 8

Indonesia’s growing economy is driving higher domestic demand for energy, but it is not compensated by the inevitable decrease in hydrocarbon reserves. In the last five years, the figure of Reserve Replacement Ration (RRR) is under 50%, which means that for every barrel of oil equivalent produced, it is only replaced by less than half a barrel of oil equivalent discovered. Exploration in Indonesia has underperformed over the last decade, and therefore contributing to a lack of significant foresen development projects apart from those already in the course of construction. Tiaka-Senoro (PEP-MEPI), Tangguh (BP), Abadi (INPEX), and Asap (Genting) were among the large discoveries where some still have not been monetised after years of development. The country must increasingly rely on the development of smaller and more challenging fields to meet its energy requirements.

Exploration and development activities have been negatively impacted by regulatory, fiscal uncertainty and the handful of permits and approvals required to carry out exploratory and development work. The 2012 dissolution of BPMIGAS and the recent series of negative regulations are also affecting investor confidence. In September 2016, the Indonesian government announced a revision of GR79. The revision will provide greater clarity for treatment of indirect taxes on exploration, the application of investment credit, accelerated depreciation and DMO holiday. The Indonesian government will also change the current oil and gas contract scheme to Gross Split in a move to boost investment in the sector, and to simplify working permits, making it more efficient and effective. This involves the sharing of progressive gross production based on annual production without a cost recovery mechanism, which encourages PSC contractors to have more flexibility in carrying out exploration and exploitation activities. This contract scheme will be applied to new contracts starting from 2017.

Can changes in the fiscal regime and clarity in regulations bring back the much needed exploration activities? Is Indonesia’s resource potential still considered attractive with high degrees of geological chances of success in the already mature basins? Access and availability of data may help lower the exploration risks. Do we have enough speculative surveys and wildcat exploration drilling data? What other ingredients do investors need to improve the current dwindling condition? This session will focus on the important factors in improving future exploration and development in Indonesia.

**Exploration**
- Attractive schemes of contract between the government and investors
- Transparency of acquired regional data
- Incentives to restore exploration interest and drilling activity

**Development**
- Negotiation to guarantee a good investment climate, such as the case of INPEX’s Abadi to prolong the license, increase the production capacity, and reimburse the cost of previous studies
- Attract investors with advanced technologies to stimulate the development of the country’s technologies
- Strong relationship with the local government to create more lenient licensing and permission
- Strong and capable gas industry to boost economical development

**Speakers:**
Moektianto Soeryowibowo, Vice President Exploration Indonesia, BP Indonesia
M. Zaini Md. Nor-Yusoff, General Manager, PETRONAS Indonesia
Nanang A. Manaf, Acting President Director, PT Pertamina EP
Benny Lubiantara, Executive Advisor, SKK Migas
Andrew Harwood, Research Director, Asia Pacific, Upstream Oil and Gas, Wood Mackenzie

**Session Chairpersons:**
Henricus Herwin, Head of Geosciences & Reservoir Development Division, Total E&P Indonesia
Bonar Marbun, Chairman of Petroleum Engineering Department, Bandung Inst. of Technology
Panel Session 4: Sustaining Production from Mature Fields and Brownfields

Wednesday, 18 October • 1400-1530 hours • Mengwi 7 & 8

In today’s challenging age of low oil and gas prices and capital constraints, managing mature fields has become increasingly important to the industry to sustain existing production levels. About 70% of the current world oil production is from mature fields that have been in operation on average for more than twenty years on average and these comprise the majority of petroleum assets.

It is estimated that some 950 billion barrels of oil equivalent were extracted during the 20th century – about half of the planet’s estimated total reserves of conventional hydrocarbons. The importance of extracting the maximum value from mature fields in meeting global energy challenges is directly linked to innovation, collaboration and technology. Maximising production from these fields requires fit-for-purpose reservoir management strategies, constant endeavour to reduce OPEX, infill wells, well reassignments, and optimising surface facilities by utilising integrated technologies in reservoir characterisation, well engineering, reservoir engineering and facilities engineering.

Innovation will be one of the main drivers for maximising the world’s production from mature fields and brownfields by reducing the rate of production decline. Collaboration can help in improving best practices and sharing risks. Striving to use improved technology to improve portfolio values will help in extracting more value from our assets.

In reconciling these challenges with the opportunities for field redevelopment and revitalisation, the implementation of best practices will be essential to maximise value from existing assets. This panel will share views on:

- What are the industrial, environmental, technological, and regulatory challenges for the development of conventional and unconventional oil and gas resources?
- What are the key challenges to optimise production from or redevelop brownfields?
- How will brownfield revitalisation help in enhancing production?
- Where are we to likely extract the most value from brownfield revitalisation?
- What are the key economic factors that need to be considered for brownfield redevelopment?
- What are new cost-effective technologies available to access incremental brownfield production and reserves?
- What business improvements will be important to effectively manage mature field and brownfield production?
- Should oil and gas managers invest in technology in the current environment of low prices and capital constraints for brownfield redevelopment?
- How and when will collaboration help in mature assets to improve productivity?

Speakers:
Yanto Sianipar, Senior Vice President Policy, Government & Public Affairs, Chevron Indonesia
Md. Mazlan Tamyis, Head Peninsular Malaysia Assets, PETRONAS
Richard Thompson, Technical Director, Qyrin Petroleum
Bill Lane, Former Vice President of Emerging Technologies, Weatherford Artificial Lift Systems

Session Chairpersons:
Dipak Mandal, Custodian Reservoir Engineering, PETRONAS Carigali Sdn. Bhd.
Kevin Lay, Vice President Subsurface and Wells Engineering, NauticAWT Energy Solutions
Sanjeev Rajput, Principal Advisor – Geophysics, Gaffney, Cline & Associates
Panel Session 5: Managing Smooth Operatorship Transfer  
Thursday, 19 October • 0900-1030 hours • Mengwi 7 & 8

Expiring license is one of the most substantial issues encountered in Asia Pacific, especially in Indonesia. The 35 licenses in Indonesia, which account for over 1 MMboed of production in 2016, will come across expiration in the next decade. They provide opportunities to a variety of players, from experienced domestic and international players to new startups with new strategies, and fall under four main categories: mature projects with upside, enhanced oil recovery (EOR), late-life fields, and discovered resource opportunities (DRO).

In addition, the current low oil price environment is driving the industry to become more dynamic, which accounts for the active portfolio exchange. Recently, Chevron sold 40% of their shares in two blocks of Nigeria. ConocoPhillips also sold their minor assets for US$2.5 Billion.

All of these events will eventually lead to the transfer of operatorship. Managing operatorship transfer is the key factor to have production continuity which will be beneficial to both, precedent and succeeding parties. This panel session will review the key factors in ensuring a smooth operatorship transfer:

- Transparency of sharing and transferring data
- Comprehensive transfer of knowledge
- Administration and legal aspects
- Continuity of operations, including investment for new projects
- Good offerings for precedent human resources to ensure working system stability

Speakers:
Amri Siahaan, Director and Chief Human Capital & Business Support Officer (CHCO/CBSO), PT Medco Energi Internasional Tbk, Indonesia
Bacho Pilong, Vice President, International Assets, Development & Production, Upstream Business, PETRONAS
Denie S. Tampubolon, Senior Vice President, Upstream Business Development, PT Pertamina
Noor Syarifuddin, Vice President, Geosciences and Reservoir, Total E&P Indonesie

Session Chairpersons:
Henricus Herwin, Head of Geosciences & Reservoir Development Division, Total E&P Indonesie
Bambang Istadi, Chief Business Development, Energi Mega Persada

Panel Session 6: Powering Asia through LNG  
Thursday, 19 October • 1400-1530 hours • Mengwi 7 & 8

Asia has traditionally been the largest consumer of LNG. It has helped fuel North Asian countries, which lacked indigenous hydrocarbon resources, to become economic powerhouses. The role of LNG in Asia, and globally, is now evolving to become much more than a fuel for electricity generation for countries lacking in hydrocarbons. Utilisation of LNG is now becoming one of the key strategies to reduce greenhouse gas emissions and combat climate change. It is also effective in reducing air pollution which plagues many of Asia’s large metropolitan areas due to coal power plants and vehicle emissions. LNG is increasingly becoming a transportation fuel for vehicles and marine vessels.

The number of countries importing LNG is growing, as LNG is now replacing declining domestic production in countries that previously did not need to import. The supply of LNG is becoming more flexible with more spot and shorter term contracts to match buyer’s needs.

This panel session will discuss the impact of the evolving market in Asia and how that is impacting supply, demand, policy, infrastructure, projection execution, pricing and contractual relationships.

Speakers:
Salis Aprilian, Technical Expert & Strategic Advisor, Pertamina
Josh Etkind, General Manager LNG Technology, Shell
(Additional speakers to be confirmed)

Session Chairpersons:
Craig Stewart, Senior Vice President International E&P, Medco Energi
Rodolphe Laurent Lugol, Head of Division Development & Planning, Total E&P Indonesie
### Special Session 1: Geology Aspects for Reservoir and Production Engineering Application

**Tuesday, 17 October • 1600-1730 hours • Mengwi 3**

**Session Chairpersons:**
Abdolrahim Ataei, Principal Reservoir Engineer, Upstream, Centre of Excellence (COE), Petroleum Engineering, PETRONAS

#### Keynote Speakers:

- **The Confluence of Strategy and Tactics - Giving Geology back to Geologists**
  
  Kjetil Fagervik, Vice President Product Development & Marketing, Roxar Software Solutions/Emerson

#### Papers

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<tr>
<td>186299</td>
<td>Integrated Reservoir Analysis and Geomodelling on Shallow Zone of Handil Field, a Key to Identify Un-swept Areas for Future Development of Mature Oil Field</td>
<td>B.G. Massuka, A. Trianto, S. Yudho, B. Handoko, and I.F. Hayati, Total E&amp;P Indonesie</td>
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### Special Session 2: Rate Transient Analysis: A Rainbow of Real-Life Cases

**Wednesday, 18 October • 0900-1030 hours • Mengwi 6**

**Session Chairpersons:**
Abdolrahim Ataei, Principal Reservoir Engineer, Upstream, Centre of Excellence (COE), Petroleum Engineering, PETRONAS
Peter Adam, Head of Engineering, PT Energi Mega Persada Tbk

#### Keynote Speakers:

- **What, Where, When, Why of Rate Transient Analysis**
  
  Louis Mattar, Principal Reservoir Advisor, IHS Markit

- **Water Drive or Not? Investigating Field Drive Mechanism Using Rate Transient Analysis**
  
  Tri Firmanto, Reservoir Engineering Manager, Kangean Energy Indonesia

#### Papers

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OIL AND GAS PROJECT CASE STUDY SESSIONS

The Oil and Gas Project Case Study Session is a new element at this year’s APOGCE, to highlight the distinguished achievements of major industry projects from discovery to delivery. Each project will be presented in a 90-minute session, which includes a Q&A segment.

The presentations will feature an overview of the recent or on-going oil and gas projects, with an emphasis on the full value chain. Highlights include:

- Considerations for final investment decision
- Technical achievements (i.e. use of new technologies and applications)
- Project execution (i.e. challenges that were overcome)
- Project impact (i.e. impact to industry and/or local, regional, international community)
- HSE (i.e. safety challenges, quality assurance efforts, etc.)

Oil and Gas Project Case Study Session 1: Banyu Urip by ExxonMobil Cepu Ltd.
Wednesday, 18 October • 0900-1030 hours • Mengwi 7 & 8

Oil and Gas Project Case Study Session 2: PFLNG by PETRONAS Floating LNG 1 (L) Ltd.
Wednesday, 18 October • 1600-1730 hours • Mengwi 7 & 8

Oil and Gas Project Case Study Session 3:
Thursday 19 October • 1100-1230 hours • Mengwi 7 & 8

Keynote Speakers:

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<tr>
<th>Challenges of Platform Decommissioning</th>
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<tr>
<td>A. Farid Baidjuri, Senior Manager Production Facilities Maintenance, SKK Migas</td>
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<th>Creating Value from Well Integrity and Abandonment Activities</th>
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<tr>
<td>Bonifasius Muryanto, Head of Well Integrity and Completion Department, Total E&amp;P Indonesie</td>
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(Additional speakers to be confirmed)
**YOUNG PROFESSIONALS WORKSHOP**

**What if Technology Fails? An Innovation and Leadership Workshop for Young Professionals**

Monday, 16 October • 1300-2000 hours • Legian 1 & 2

This stimulating workshop will engage and challenge young professionals as they examine a case study on how technology is not the single solution to everything in the industry. Participants will have the opportunity to understand that when technology and all else fails, young professionals can continue to play an important role by exercising their creativity in problem-solving and exhibiting their leadership and decision-making skills.

This workshop will provide customised training for skills that are essential in exercising innovation and leadership. There will be facilitated intimate discussions with experienced leaders and professionals who will share real-life case stories that exemplify key leadership qualities. Young professionals can gather together at this exclusive workshop to kick-start their week at the conference, and build new professional relationships with their peers, while strengthening their skills through the learning sessions.

The workshop closes with an oceanside networking dinner organised by IATMI where participants are able to revel in Balinese culture and special ceremonial performances while engaging with senior industry leaders and fellow professional members.

For more information, please contact Alliza Aulia – alliza.aulia@gmail.com or Lucky Bagus Waskito – Lucky–Bagus@cnooc.co.id.

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**EDUCATIONAL PROGRAMMES**

**SPE Asia Pacific Regional Student Paper Contest**

Wednesday, 18 October • 0900-1230 hours • Legian 1 & 2

SPE undergraduate and postgraduate student members in Asia Pacific submit paper abstracts for the opportunity to be shortlisted to participate and present their technical presentations at the SPE Asia Pacific Regional Student Paper Contest at APOGCE.

Winners of this contest will be invited to attend and compete at the SPE International Student Paper Contest, held during the SPE Annual Technical Conference and Exhibition (ATCE) from 24-26 September 2018 in Dallas, Texas, USA. In addition to showcasing their technical knowledge at the contest, the winning regional representatives will have the opportunity to meet practicing professionals and industry members from across the globe for their professional career development. Conference delegates are encouraged to attend and support the student presentations. For further information, please contact apspc@spe.org.

**Education and Teachers’ Day**

Thursday, 19 October • 0900-1500 hours • Legian 1 & 2

Education Day is an initiative to introduce local high school students to Petroleum Engineering and the broader oil and gas industry. Students with a keen interest in mathematics and science, and considering further education in engineering are invited to participate in this exciting, hands-on learning experience. Teachers’ Day is an initiative to introduce local high school teachers to the energy industry by showing them how they can incorporate science, engineering, technology and energy topics into classrooms through creative teaching and fun interactive activities.

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**IATMI BUSINESS FORUM**

**Government and Industry Collaboration on Upstream and Downstream Gas Sector**

Monday, 16 October • 0800-1200 hours • The Westin Resort Nusa Dua, Bali

Indonesia has established itself as an important supplier of natural gas for both the global and Asia Pacific region throughout the years. In 2015, Indonesia was included in the Top 10 Natural Gas Producers in the world with 75 billion cubic meter of total estimated annual production. The country was also listed that year as the second largest natural gas producer in Asia Pacific.

On the other hand, natural gas average price in downstream selling point is about US$9.50 per MMBTU which is approximately double the upstream selling point price (US$4-5 per MMBTU). This price gap suggests potential efficiency improvements that may be applicable for natural gas businesses, particularly in the distribution and logistics system that is currently the main driver of the high price for natural gas. Main centers of Indonesian gas production such as Arun, Bontang, Tangguh and Natuna Island are located offshore, often leading to higher expenses related to logistical issues.
To reach an efficient and productive gas sector business, large-scale investments in both exploration and distribution infrastructure will be needed. This forum aims to encourage coherency between these groups and ultimately carve the way to lead Indonesia’s future gas outlook. The 2017 IATMI Business Forum will present an opportunity for the Indonesian government, corporations and professionals as well as enthusiasts of the upstream and downstream gas industry to share ideas, knowledge, business strategies and build network.

Invited speakers include:
- H.E Ignasius Jonan, Minister of Energy and Mineral Resources, Republic of Indonesia
- Amien Sunaryadi, Chairman, SKK Migas
- Andy Noorsaman Sommeng, Chairman, BPH Migas
- Satya Yudha, Commission VII Legislative Assembly, Republic of Indonesia
- Yenni Andayani, Direktur Gas, Pertamina Persero
- Arividiya Noviyanarto, President & General Manager, Total E&P Indonesia
- Bij Agarwal, President of ConocoPhillips Indonesia
- Daniel Wieczynski, Lead Country Manager, ExxonMobil Indonesia

Invited moderators include:
- Dharmawan Syamsu, Country Manager, British Petroleum
- Yanto Sianipar, Senior Vice President Strategic Business Support, Chevron Indonesia
- Ahmad Yunarto, Founder & Chairman, Biru Peduli Foundation

Fee: US$300
Contact Persons: Herdi Putra – herdi-ap@yahoo.co.id; Jesta Ghandama – jesta.ghandama@gmail.com

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**SOCIAL ACTIVITIES**

**Golf by the Bay**
**Sunday, 15 October • 1400-1930 hours • Bali National Golf Club, The Maj Nusa Dua**

In conjunction with APOGCE, an opening game of friendly golf with fellow industry members can be enjoyed at Bali National Golf Club, The Maj Nusa Dua. Located within the coast of Nusa Dua’s beach grounds, the course is acclaimed as one of Asia’s best golf courses for its outstanding quality. With spectacular views, lush greens and the ocean breeze, Bali National Golf Club boasts an unforgettable atmosphere of the Nusa Dua area. Dinner and entertainment will be held after the game along with winners’ announcement and selected door prizes.

Fee: US$170
Registration Deadline: 15 September 2017
Contact Persons: Ardian Putra – ardian.pradhana@yahoo.co.id; Ngurah Pranata – naryadhita@gmail.com

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**Networking Dinner**
**Monday, 16 October • 1800-2200 hours • Temple Garden, The Westin Resort Nusa Dua, Bali**

An evening of networking opportunities in a relaxing, enjoyable oceanside dinner set in the Temple Garden, a delightful venue which captures the charm of a tropical garden complete with a traditional Balinese temple as its backdrop.

Participants will have the opportunity to make new contacts, friends, as well as interact with key industry players including business leaders, top organisations, industry stakeholders and government.

Fee: US$80
Contact Persons: Mugie Ginanjar – mugie.ginanjar@gmail.com; Enos Napitupulu – enos.napitupulu@rocketmail.com

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**Welcome Reception**
**Tuesday, 17 October • 1730-1830 hours • Pecatu Halls 1 & 2**

Get reacquainted with industry colleagues and friends while making new ones at the conference welcome reception on the exhibition floor. The reception is an excellent opportunity for participants to network with fellow conference delegates in a relaxed evening amongst good company and drinks.

Welcome reception tickets are included in the full conference fees. Additional tickets may be purchased online at www.spe.org/go/17apog or at the APOGCE Registration Counter during the event.

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**Package Fees**

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<tr>
<th>Package</th>
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<tr>
<td>Business Forum + Networking Dinner</td>
<td>US$350</td>
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<tr>
<td>Golf by the Bay + Networking Dinner</td>
<td>US$220</td>
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<tr>
<td>Full Package (Business Forum + Golf by The Bay + Networking Dinner)</td>
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## CONFERENCE PROGRAMME SCHEDULE

**Date**: TUESDAY, 17 OCTOBER

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<thead>
<tr>
<th>Time</th>
<th>Mengwi 7 &amp; 8</th>
<th>Mengwi 1</th>
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<tr>
<td>0900-1000 hours</td>
<td>Opening Session – Pecatu Halls 3 &amp; 5</td>
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<td>1000-1030 hours</td>
<td>Coffee Break – Pecatu Halls 1 &amp; 2</td>
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<td>1030-1230 hours</td>
<td>Executive Plenary Session: Energy Resilience through Efficiency, Collaboration and Technology – Pecatu Halls 3 &amp; 5</td>
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<td>1230-1400 hours</td>
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<td>1400-1530 hours</td>
<td>Panel Session 1: Thriving in Low Oil Price Scenarios</td>
<td>Technical Session 1: Facilities and Asset Integrity</td>
<td>Technical Session 2: Simulation, Artificial Intelligence and Modelling: Enhanced Simulation Workflows and Optimisation</td>
<td>Technical Session 3: Production Optimisation in Brownfields: Finding Values in Your Own Backyard</td>
<td>Technical Session 4: Well Intervention and Data Acquisition</td>
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<td>1530-1600 hours</td>
<td>Knowledge Sharing ePoster Session 1 – Pecatu Halls 1 &amp; 2</td>
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<td>1600-1730 hours</td>
<td>Panel Session 2: Marginal Field Development and Redevelopment Opportunities</td>
<td>Technical Session 5: Deepwater and Subsea</td>
<td>Technical Session 6: Near-Wellbore Reservoir Assessment</td>
<td>Special Session 1: Geology Aspects for Reservoir and Production Engineering Application</td>
<td>Technical Session 7: Upper Completion</td>
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<td>1730-1830 hours</td>
<td>Welcome Reception / Knowledge Sharing ePoster Session 3 – Pecatu Halls 1 &amp; 2</td>
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<td>0900-1030 hours</td>
<td>Oil and Gas Project Case Study Session 1 – Banyu Urip</td>
<td>Technical Session 8: Production Optimisation and Operations Excellence</td>
<td>Technical Session 9: EOR – Surfactant</td>
<td>Technical Session 10: Drilling Design and Case Studies</td>
<td>Technical Session 11: Stimulation and Hydraulic Fracturing</td>
<td>Special Session 2: Rate Transient Analysis: A Rainbow of Real-Life Cases</td>
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<td>0900-1230 hours</td>
<td>SPE Asia Pacific Regional Student Paper Contest: Undergraduate – Legian 1</td>
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<td>0900-1230 hours</td>
<td>SPE Asia Pacific Regional Student Paper Contest: Postgraduate – Legian 2</td>
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<tr>
<td>0900-1500 hours</td>
<td>Education and Teachers’ Day – Legian 1 &amp; 2</td>
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<td>1030-1100 hours</td>
<td>Knowledge Sharing ePoster Session 7 / Coffee Break – Pecatu Halls 1 &amp; 2</td>
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<td>1300-1400 hours</td>
<td>Knowledge Sharing ePoster Session 8 – Pecatu Halls 1 &amp; 2</td>
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**TECHNICAL SESSIONS:**
- Opening/Executive Plenary/Panel Sessions
- Student Programmes
- Special Sessions
- Oil and Gas Project Case Study Sessions
- Business and Economics, Capability and Competency & HSSE
- Field Development & Production and Operations
- Reservoir and Integrated Geology and Reservoir Engineering
- Unconventional Resources
- Completions
- Drilling
- Facilities, Construction and Operations
TECHNICAL SESSIONS

Additional changes made after 23 May 2017 will be reflected in the on-site programme.

Tuesday, 17 October • 1400-1530 hours • Mengwi 1
TECHNICAL SESSION 1: FACILITIES AND ASSET INTEGRITY

Session Chairpersons:
Titi Thongjen, PTTEP
Jin Xu, RIPED, PetroChina

Papers
186301 Structural Integrity Assessment of MOPU Structure
S. Kar, K. Mukherjee, and Z. Razak, PETRONAS

186905 Cost Effective Method to Maintain Integrity of Non Productive Asset: Case of Tunu GTS-H Preservation
I. Marzuki and H. Junaedy, Total E&P Indonesia

186882 Investigation into the Failure of the Bearing Mechanisms on the FPSO Operating in Vietnam Waters
V.V. Raghavan, Engineers Australia

186191 Application of Quantitative RBI on the Heavy Oil Catalytic Cracking Unit
L. Shuang, CNPC Research Inst. of Safety & Environment Technology

Tuesday, 17 October • 1400-1530 hours • Mengwi 2
TECHNICAL SESSION 2: SIMULATION, ARTIFICIAL INTELLIGENCE AND MODELLING: ENHANCED SIMULATION WORKFLOWS AND OPTIMISATION

Session Chairpersons:
Wu Shuhong, RIPED, PetroChina
Emeline Chong, Petrofac Malaysia Ltd.
Mark Baker, Woodside Energy

Papers
186895 Fast Optimisation and Integration of Qualitative Uncertainties with the Discrete-Type Genetic Algorithm Using a Parallel Simulator: Stanford VI-E Model Revisited
D.C. Raharja, D.D. Awofodu, C.L. Gaol, and L. Ganzer, Clausthal U. of Technology

186384 Enhanced Assisted-History Matching and Prediction Using Integrated Analytical and Numerical Modelling Approach
N. Ghadami, M. Raub, and N. Benayad, PETRONAS

186319 A Dynamic Hybrid Dual Porosity Model to Simulate the Waterflood-Induced Fractures in Low-Permeability Reservoir
T. Fan, S. Wu, H. Li, and B. Wang, RIPED, PetroChina

186891 Breaking the Barrier of Flow Simulation: Well Placement Design Optimisation with Fast Marching Method and Geometric Pressure Approximation

Tuesday, 17 October • 1400-1530 hours • Mengwi 3
TECHNICAL SESSION 3: PRODUCTION OPTIMISATION IN BROWNFIELDS: FINDING VALUES IN YOUR OWN BACKYARD

Session Chairpersons:
Lucky Bagus Waskito, CNOOC SES Ltd.
Ng Kiang Fei, PETRONAS

Papers
186420 Production Optimisation Challenges and Solutions in Heavy Oil Field – North Kuwait


Tuesday, 17 October • 1400-1530 hours • Mengwi 4
TECHNICAL SESSION 4: WELL INTERVENTION AND DATA ACQUISITION

Session Chairpersons:
Miles Ponsoby, AGR Software AS
Dian Nur Cahnay, Occidental Petroleum

Papers
186283 First Fiber Enabled CT with Reservoir Saturation Tool in Asia to Unlock Behind Casing Opportunity in Offshore Myanmar

186883 Sustaining the Barrels - Making Well Intervention More Affordable
S.R. Mohd Mokhtar, R. Wibisono, A.B. Ardi, M. Zakaria, and A. Shabudin, PETRONAS

186362 Extending Life of Liquid Loaded Gas Wells Using Velocity String Application: Case Study and Candidate Selection
S. Andrianata, A. Lukman, and K.R. Allo, VIC Indonesia

186921 Production Optimisation of Raageshwari Field Using Network Modelling
C. Bhardwaj, P. Godiyal, and M. Mathur, Cairn India Ltd.; A. Ranjan, Cairn Energy India Pty. Ltd.; S.K. Verma, Indian Inst. of Technology (ISM) Dhanbad

Tuesday, 17 October • 1600-1730 hours • Mengwi 1
TECHNICAL SESSION 5: DEEPWATER AND SUBSEA

Session Chairpersons:
Koji Sakura, Tenaris
Sarah Sausan, Halliburton

Papers
186913 Enhanced Efficiency in Deep Water Testing Operations Delivered by Smart DST String

186318 Design to Execution of Clean Up Operations and Well Testing on Deepwater Gas Wells to Reduce Reservoir Uncertainty

186363 Integrated Stress Calibration by Utilising Advanced Acoustic Information - A Case Study from Deepwater Malaysia
B. Heidari, Schlumberger WTA Malaysia Sdn. Bhd.; K. Chujo, IX Nippon

186358 Cementing Production Liners Terminating in Depleted Reservoirs: A Case Study on Deepwater Wells Off the East Coast of India
T. Ganjoo, V. Iyer, and A. Yadav, Halliburton

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19
Tuesday, 17 October • 1600-1730 hours • Mengwi 2
TECHNICAL SESSION 6: NEAR-WELLBORE RESERVOIR ASSESSMENT

Session Chairpersons:
Stephen Tyson, U. Teknologi Brunei

Papers
186239 Assessment of Multi-Stage Fractured Wells Using Pressure Transient Analysis – Theory and Practice
A.H. Kabir, P.H. Guizada, and B.H. Al-Malki, Saudi Aramco

186924 Reservoir Mapping while Drilling Tool Overcomes Geological Uncertainties - Case Studies from Offshore Malaysia
K. Kji, K. Kok, N.A. Hassan, and P. Tan, PETRONAS

186949 Capillary Drainage Curves: Modelling and Prediction of Capillary Entry Pressure
P. Behrenbruch, T. Kennaik, K.D. Bui, and T. Do Huu Minh, Bear and Brook Consulting Pty Ltd

186957 Field Test Results in Malaysia Wells of a New-Generation Slim Pulsed Neutron Logging Tool

Tuesday, 17 October • 1600-1730 hours • Mengwi 5
TECHNICAL SESSION 7: UPPER COMPLETION

Session Chairpersons:
Kevin Lay, NauticAWT Energy Solutions
Ferry Anantokusumo, BP Berau

Papers
186291 Study on Non-Contact Connection Separated Layer Production Technology and Its Application Test
T. Guo, RIPED, PetroChina

186338 New Generation Inflow Control Device to Maximise Well Productivity during Every Phase of a Well’s Life
H.K. Sharma and A.K. Al-Mulhim, Saudi Aramco

186183 Gas Lift Techniques Modification to Overcome Evolution in Productivity during Every Phase of a Well’s Life
I. Edy, S. Izwardy, F.F. Fedriando, A. Wijanarko, A.I. Pratomo, and F. Corprina, VICO Indonesia

186323 Low Cost Intervention Approach with Huge Production Enhancement Potential; Peninsular Malaysia Field Case Study
S. Ismail, PETRONAS Carigali Sdn. Bhd.

Wednesday, 18 October • 0900-1030 hours • Mengwi 1
TECHNICAL SESSION 8: PROCESS OPTIMISATION AND OPERATIONS EXCELLENCE

Session Chairpersons:
Hanifatu Avida Romas, ExxonMobil Cepu Ltd.
Meita Silaban, Chevron Indonesia

Papers
186295 Application of Enhanced Gel Strength Concept for PPD Chemical Optimisation in Banyu Urip Export Pipeline
A. Dwiatiwidi, ExxonMobil Cepu Ltd.

186400 Maintain Operation Excellent in Simultaneous Operation at Offshore and Delta Area
I. Marzuki and H. Junaedy, Total E&P Indonesia

186932 From Sandface to Processing Plant, an Integrated View of an Operating Envelope in a Gas Condensate System

187011 Integration of Casing Wear in Casing Design and Stress Analysis Workflow
A. Soong, H.A. Rosland, and M.F. Arrifin, Halliburton

186274 BD Field Development: First Kujung Horizontal Offshore Near HPHT - Critical Sour Wells in Indonesia

Wednesday, 18 October • 0900-1030 hours • Mengwi 2
TECHNICAL SESSION 9: EOR – SURFACTANT

Session Chairpersons:
Takaaki Uetani, INPEX Corp.
Dipak Mandal, PETRONAS Carigali Sdn. Bhd.
Wang Yanling, China U. of Petroleum (East China)

Papers
186967 Studies of Foam for Mobility Control at High Temperature with Varied Reservoir Rock Permeabilities

186351 Fit-for-Purpose Chemical EOR (ASP) Modelling Strategy to Guide Pilot Development Decisions for a Giant Reservoir in North Kuwait
M.B. Abdullah, S. Tiwari, and M.T. Al-Murayj, Kuwait Oil Co.; G.T. Shahnin and S. Shukla, Shell

186325 History Match to Support Interpretation of Surfactant Flooding Pilot Test in Tanjung Field
B.M. Aslam and T. Marhaendrajana, Bandung Inst. of Technology

Wednesday, 18 October • 0900-1030 hours • Mengwi 3
TECHNICAL SESSION 10: DRILLING DESIGN AND CASE STUDIES

Session Chairpersons:
Shankar Bhukya, NOV Grant Prideco
Jianke Wang, TSC Group Holdings Ltd.
Fikri Irawan, Weatherford

Papers
186918 Drilling of HTHP High Angle Well in a Fractured Reservoir – A Case Study

186982 Drilling Optimisation of Extended Reach Multilateral Wells to Maximise Reservoir Contact in Carbonate
C. Verma, F. Rodriguez Campos, and Q. Qasim, Saudi Aramco; M.E. Chaanouri, S.S. Akel, A. Abdel Aziz, and J. Afolabi, Baker Hughes

187011 Integration of Casing Wear in Casing Design and Stress Analysis Workflow
A. Soong, H.A. Rosland, and M.F. Arrifin, Halliburton

186274 BD Field Development: First Kujung Horizontal Offshore Near HPHT - Critical Sour Wells in Indonesia

Wednesday, 18 October • 0900-1030 hours • Mengwi 5
TECHNICAL SESSION 11: STIMULATION AND HYDRAULIC FRACTURING

Session Chairpersons:
Ferry Anantokusumo, BP Berau

Papers
186242 Successful Refracturing Application Using Temporary Gelled Isolation System in Vertical and Horizontal Wells in China
R.S. Wheeler, V. Williams, J. Mayor, S.V. Ktovov, and T. MacDonald, Baker Hughes

186290 Application of Enhanced Gel Strength Concept for PPD Chemical Optimisation in Banyu Urip Export Pipeline
A. Dwiatiwidi, ExxonMobil Cepu Ltd.

186400 Maintain Operation Excellent in Simultaneous Operation at Offshore and Delta Area
I. Marzuki and H. Junaedy, Total E&P Indonesia

186932 From Sandface to Processing Plant, an Integrated View of an Operating Envelope in a Gas Condensate System

Wednesday, 18 October • 0900-1030 hours • Mengwi 1
TECHNICAL SESSION 8: PROCESS OPTIMISATION AND OPERATIONS EXCELLENCE

Session Chairpersons:
Hanifatu Avida Romas, ExxonMobil Cepu Ltd.
Meita Silaban, Chevron Indonesia

Papers
186295 Application of Enhanced Gel Strength Concept for PPD Chemical Optimisation in Banyu Urip Export Pipeline
A. Dwiatiwidi, ExxonMobil Cepu Ltd.

186400 Maintain Operation Excellent in Simultaneous Operation at Offshore and Delta Area
I. Marzuki and H. Junaedy, Total E&P Indonesia

186932 From Sandface to Processing Plant, an Integrated View of an Operating Envelope in a Gas Condensate System
M.R. Sueiro, A.F. Lanchimba, and C.E. Bilbao Arauco, Repsol
Wednesday, 18 October • 1100-1230 hours • Mengwi 1
TECHNICAL SESSION 12: ECONOMIC EVALUATION AND DECISION-MAKING
Session Chairpersons: Prady Chaliha, Orica Gas Australia
Liu He, RIPED, PetroChina

Papers
186405 The Integrated Environment for Real-Time Decisions, Delivering Excellence in Brunei Drilling Operations

186907 The Sisi Nubi Dashboard: Implementation of Business Intelligence in Reservoir Modelling and Synthesis: Managing Big Data and Streamline the Decision Making Process
A. Sukapradja, J. Clark, H. Hermawan, and S. Tjiptowiyono, Total E&P Indonesia

187004 Techno-Economic Evaluation of Carbon Capture Storage Ready for Coal-Based Power Generation in Indonesia

187000 Large Project Integration: Gauging Readiness in Deepwater Exploration
R.O. Rios, D. Irvine, and K. Johnstone, Lloyd’s Register

Wednesday, 18 October • 1100-1230 hours • Mengwi 2
TECHNICAL SESSION 13: RATE TRANSIENT ANALYSIS: AN INTEGRATED PRODUCTION ANALYSIS AND RESERVOIR CHARACTERISATION
Session Chairpersons: Peter Adam, PT Energi Mega Persada Tbk
Kamal Morad, Petroleum Development Oman

Papers
186203 Reservoir Characterisation Using Permanent Distributed Temperature Sensing in Coal Seam Gas Development: Success and Challenges in the Surat Basin
W.E. Bottomley and J.P. Furniss, GGC – A Company of the Shell Group of Companies; I. Oguche and M.R. Konopczynski, Tendeka

186252 Verifying Reserves Opportunities with Multi-Well Pressure Pulse Code Testing
R. Rafikov, R. Zabbarov, and V. Taipova, PISC Tatneft; A. Aslanyan, I. Aslanyan, and A.V. Trusov, TGT Oilfield Services; V.M. Krichevsky and R. Farakhova, Sofoil

186356 Characterisation of Induced Fracture Closure by Rate Transient Analysis Using Microseismic Fracture Mapping
D. Zheng, U. of Oklahoma

186277 Novel Application of Capacitance-Resistance Model for Reservoir Characterisation and Zonal, Intelligent Well Control
B. Prakasa, X. Shi, K.M. Muradov, and D.R. Davies, Heriot-Watt U.

Wednesday, 18 October • 1100-1230 hours • Mengwi 3
TECHNICAL SESSION 14: UNCONVENTIONAL – DRILLING AND COMPLETIONS
Session Chairpersons: Keith Rae, TAM International Asia Pacific Pty. Ltd.
Ferry Anantokusumo, BP Beru

Papers
186976 200 and Counting: Unlocking CBM Potential with High-Strength, Low-Density Cement Slurry
V. Tyagi and A. Kumar, Halliburton

186294 Stimulated Reservoir Volume of Multi-Stage Fracturing in Horizontal Shale Gas Well: Modelling and Application
L. Ren, R. Lin, and J. Zhao, Southwest Petroleum U.

186340 CBM Fluvial Depositional Facies Modelling and Static Upscaling Workflow: A Case Study Based on Integration of Cores, Logs and Deposition Environment in Surat Basin
M. Zhang and Y. Yang, PetroChina; T. Gao, Arrow Energy Pty Ltd

187024 Spatial Ensemble Kalman Filter Inversion for Modelling Aperture and Rugged Geometry of Hydraulic Fractures
B. Vargas, Vargmur Energy; J.A. Vargas-Guzman, Saudi Aramco

Wednesday, 18 October • 1100-1230 hours • Mengwi 5
TECHNICAL SESSION 15: GEOMECHANICS AND SAND FACE COMPLETION
Session Chairpersons: See Hong Ong, Baker Hughes, a GE Company
Liu Hai, Schlumberger

Papers
187021 Real-Time Underbalance Perforating in Subhydrostatic Reservoir Improves Long-Term Well Performance: A Case Study of Well Injector in Malaysia
N. Juvarajah and J. Mayall, Repsol; P. Djanaka, A.H. Keong, and N. Yong, Schlumberger

186245 Geomechanics Study at an Onshore Central Sumatra Field: The Investigation of Casing Restriction and Deformation in Shallow Sand Formation
M.A. Tjengdrawira, S. Ong, and A. Khaksar, Baker Hughes; R. Intan Sjarifat and A. Suhadi, Badan Operasi Bersama PT BSP Pertamina Hulu

186999 Successful Extreme Underbalance Perforation by Coiled Tubing in Pampaguan, East Kalimantan Indonesia
V. Saputra, U. Amidurin, M. Yahya, F. Corprina Atmanidar, and A. Wijanarko, VICO Indonesia

186309 Multiple Sand Control Solution to Adapt Well Productivity and Reserves by Using M-STOB (Mahakam Sand Control Tool Box)
B.H. Muryanto, B. Styward, and F. Wahyudhi, Total E&P Indonesia

Wednesday, 18 October • 1400-1530 hours • Mengwi 1
TECHNICAL SESSION 16: PORTFOLIO MANAGEMENT
Session Chairpersons: Bambang Istadi, Energi Mega Persada
Aliza Aulia, Continental Energy Corp.

Papers
187027 Digital Revolution: How Digital Technologies will Transform E&P Business Models
A. Volkenborn and A. Lea-Cox, Accenture Strategy

186288 Breaking Boundaries in Portfolio Management
B. Gama and F.E. Macmillan, Palantir Solutions; R. Bulgariu and W. Liebel, OMV Exploration and Production GmbH

186189 Project Specific Risk Consideration from a Portfolio Perspective
P.D. Allan and M. D’Arcy, 3esi-Enersight

187008 Indonesian Milestone in Production Sharing Contract in Perspective of Government Take, Contractor Take, Cost Recovery and Production Target
D. Harimurti, CNOOC SES Ltd.
### Wednesday, 18 October • 1400-1530 hours • Mengwi 2

#### TECHNICAL SESSION 17: RESERVOIR CHARACTERISATION – SANDSTONE

**Session Chairpersons:**
- David G. Kersey, Independent
- Saifon Daungkaew, Schlumberger

**Papers**

186334 Data-Driven Reservoir Modelling and History Matching: A Case Study of an Offshore Mature Field  
L. Hendraningrat, A. Ertanto, and H. Navilova, Medco E&P Natuna

186306 Pressure Transient Analysis for Cold Water Injection into a Reservoir with a Fully Coupled Wellbore Model  

186898 Classification and Combination Characteristics of Fractures in Super Deep Sandstone Reservoir and Its Dominance of Reservoirs in Kuqa Foreland Basin  
L. Zhou, PetroChina Tarim Oilfield Co.

186425 Application of Thin-Bed Analysis in Reservoir Modelling to Unlock Further Development Potential of Thinly-Bedded Marginal Reservoirs  
P. James, S. Rae, M.H. Mohd Azam, E.E. Chong, and S. Flew, Petrofac Malaysia Ltd.

### Wednesday, 18 October • 1400-1530 hours • Mengwi 3

#### TECHNICAL SESSION 18: WELL INTEGRITY AND CEMENTING

**Session Chairpersons:**
- Fikri Irawan, Weatherford
- Desmawati Rahmadona, PT Pertamina Hulu Energi

**Papers**

186981 Hydrostatically Underbalanced Pressure-Controlled Cementing Enables Zonal Isolation in Narrow-Margin HPHT Exploration Well  

186927 Production Liner Cementing Practices in Challenging Horizontal Wellbores  
I.A. Al-Bayat, M.E. Khalil, T. Heinold, and D.S. Porter, Saudi Aramco

186281 Well Integrity Management in Block Mahakam  
R. Saputra, M.I. Maharaneo, D.N. Manalu, B.H. Muryanto, Z. Hatmanda, and V. Limawan, Total E&P Indonesia

186392 Enhancing Well Construction for More Efficient Well Abandonment  
L. Dahmani and L. Hynes, Baker Hughes

### Wednesday, 18 October • 1400-1530 hours • Mengwi 5

#### TECHNICAL SESSION 19: POROSITY, WELLBORE STABILITY AND DRILLING FLUIDS

**Session Chairpersons:**
- See Hong Ong, Baker Hughes, a GE Company
- Mojtaba Kalhor, Pars Drilling Fluids Co.
- Wang Yanling, China U. of Petroleum (East China)

**Papers**

186335 From 3D Seismic Inversion to Drilling Engineering: A Multidisciplinary Approach to Resolve Wellbore Stability Issues Offshore West Madura  
F.M. Mulders, K. Johnstone, S. Spencer, R. Lemanczyk, E. Castillo, and Y. Sorrentino, Lloyd’s Register; A. Olaf and D. Rubyanto, Pertamina Hulu Energi WMO

186320 Customisation of Fit for Purpose WBM Opens New Opportunities for Significant Cost Savings, Well Construction Optimisation, Environmental Footprint Reduction  
M.S. Ghamsi, R. Saleh, and F.M. Al-Yami, Saudi Aramco

186409 Ultra-Low Invasion Fluid Technology Increases Operational Window to Enhance Drilling, Reduce Damage in Unstable Venezuela Formations  
M. Herdes, J.A. Garcia, D. Fernandez, and K.M. Aguilar, PDVSA; J. Moreno, A.A. Avila, and R. Maldonado, Impact Fluid Solutions

186310 Integrated 3D Pore Pressure Characterisation and Modelling; Methodology & Application: Sisi-Nubi Field, Mahakam – Indonesia  
A. Sukapradja, R. Herdianto, C. Jesse, R. Sitorus, C. Adam, U. Ashari, B. Saraghi, and B. Giriansyah, Total E&P Indonesia

### Wednesday, 18 October • 1600-1730 hours • Mengwi 2

#### TECHNICAL SESSION 21: EOR – HEAVY OIL

**Session Chairpersons:**
- Asep K. Permadi, Bandung Inst. of Technology
- Luky Hendraningrat, Aouris

**Papers**

186361 Microbial Huff and Puff Project at Mangunjaya Field Wells: The First in Indonesia Towards Successful MEOR Implementation  

186196 Cost Effective EOR in Heavy Oil Containing Sands by Gas Injection: Improvement the Efficiency of Foamy Flow and Pressurisation  
Y. Soh and T. Babadagli, U. of Alberta

186182 Evaluation of the First Cycle of Steam Stimulation in North Kuwait Heavy Oil Thermal Pilots  

186908 Water Control of Horizontal Wells Using Foam-Gel: Lessons Learnt in a Heavy Oil Reservoir with Strong Waterdrive  
B. Wei, W. Pu, and F. Jin, Southwest Petroleum U.; B. Deng, CITIC Tincy Group Energy Resources Ltd.
Wednesday, 18 October • 1600-1730 hours • Mengwi 5
TECHNICAL SESSION 23: WELL ARCHITECTURE, PRODUCTION AND FLOW ASSURANCE

Session Chairpersons:
Prady Chaliha, Osaka Gas Australia
Dian Nur Cahyono, Occidental Petroleum

Papers
186928 Alternative Stimulation Tool; Successful First Application of GasGun Stimulation Case Study in Peninsular Malaysia. Technology and Candidate Screening, 1st Pilot Findings
S. Ismail, PETRONAS Carigali Sdn. Bhd.

186217 First Open Hole Horizontal Near HPHT Critical Sour Gas Wells Completion in Indonesia: Lesson Learned from BD Field Development Project in Kujung Formation
S. Nurdin, M.O. Etuhoko, D.R. McKen, and J. Lian, Husky-CNOOC Madura Ltd.; A. Syapari and H. Nuryadi, Baker Hughes; M. Fadil and P.P. Utomo, PT Medco E&P Indonesia

186886 Reservoir Damage Removal by Zero-Cost Hydraulic Fracturing in a Water Injector, Offshore Vietnam
H.H. Vu, J.M. Sutherland, and T.T. Pham, Hoang Long & Hoan Fartiyal, S. Lele, and F. Qiu, BG Group

186275 An Analytical Model for Multilayer Well Production Evaluation to Overcome Cross-Flow Problem

Thursday, 19 October • 0900-1030 hours • Mengwi 1
TECHNICAL SESSION 24: CORROSION AND FLOW ASSURANCE

Session Chairpersons:
Prijo Hutomo, U. of Trisakti
Andry Halim, PT. Pertamina Upstream Technology Center

Papers
186185 Understanding Crude Properties to Optimise Corrosion Inhibitor Selection and Usage
R. Novitasari and M. Wincana, ExxonMobil Cepu Ltd.

186311 Quantitative Assessment of Preferential Weld Corrosion in Operator Supplied Weight Loss Coupons Using White Light Interferometry
M.J. Leahy, S.E. Cook, and W. Mok, Baker Hughes Inc.

186200 Managing Platform Start-up Flow Assurance with Different Scenario Comparison via Integrated Transient Modelling Advisor (ITMA)
R. Rz Raffik, Schlumberger Software Integrated Solutions

186208 Corrosion Control in Oil and Gas Installations
Q. Okasha and A.S. Ameen, Kuwait Oil Co.; A. Aladasani, Consultant

186413 In-Situ Stress and Fracture Controls on Permeability Distribution within Walloon Subgroup, Surat Basin
S. Mukherjee, J. Copley, and J. Esterle, The U of Queensland

186403 What to do when Simulation Gone Wrong: Brownfield Production Optimisation Using Analytical Approach

186989 An Integrated Approach to Understand the Variable Fluid Contacts in a Giant Carbonate Field of Middle East - A Case Study
S. Nandwani, P. Kumar, and M. Singhal, Shell India Markets Pvt. Ltd.

Thursday, 19 October • 0900-1030 hours • Mengwi 3
TECHNICAL SESSION 25: UNCONVENTIONAL – RESERVOIR CHARACTERISATION

Session Chairpersons:
David G. Kersey, Independent
Kamal Morad, Petroleum Development Oman

Papers
186240 Imaging of Oil/Water Migration in Tightsand with Nuclear Magnetic Resonance and Microscope during Two End Open Surfactant Imbibition
Y. Sun, C. Dai, R. Cheng, Y. Wu, Y. Fang, X. Sun, and Y. Liu, China U. of Petroleum (East China)

186311 Quantitative Assessment of Preferential Weld Corrosion in Operator Supplied Weight Loss Coupons Using White Light Interferometry
M.J. Leahy, S.E. Cook, and W. Mok, Baker Hughes Inc.

186413 In-Situ Stress and Fracture Controls on Permeability Distribution within Walloon Subgroup, Surat Basin
S. Mukherjee, J. Copley, and J. Esterle, The U of Queensland

186208 Corrosion Control in Oil and Gas Installations
Q. Okasha and A.S. Ameen, Kuwait Oil Co.; A. Aladasani, Consultant

186185 Understanding Crude Properties to Optimise Corrosion Inhibitor Selection and Usage
R. Novitasari and M. Wincana, ExxonMobil Cepu Ltd.

1866403 Advanced Methods for Determining the Value of Information in Operator Supplied Weight Loss Coupons Using White Light Interferometry
M.J. Leahy, S.E. Cook, and W. Mok, Baker Hughes Inc.

186200 Managing Platform Start-up Flow Assurance with Different Scenario Comparison via Integrated Transient Modelling Advisor (ITMA)
R. Rz Raffik, Schlumberger Software Integrated Solutions

186208 Corrosion Control in Oil and Gas Installations
Q. Okasha and A.S. Ameen, Kuwait Oil Co.; A. Aladasani, Consultant

186311 Quantitative Assessment of Preferential Weld Corrosion in Operator Supplied Weight Loss Coupons Using White Light Interferometry
M.J. Leahy, S.E. Cook, and W. Mok, Baker Hughes Inc.

186413 In-Situ Stress and Fracture Controls on Permeability Distribution within Walloon Subgroup, Surat Basin
S. Mukherjee, J. Copley, and J. Esterle, The U of Queensland

186208 Corrosion Control in Oil and Gas Installations
Q. Okasha and A.S. Ameen, Kuwait Oil Co.; A. Aladasani, Consultant

186185 Understanding Crude Properties to Optimise Corrosion Inhibitor Selection and Usage
R. Novitasari and M. Wincana, ExxonMobil Cepu Ltd.
Thursday, 19 October • 0900-1030 hours • Mengwi 5
TECHNICAL SESSION 27: WELL CONTROL AND MANAGED PRESSURE DRILLING

Session Chairpersons:
John (Jonggeun) Choe, Seoul National U.
Stephen Tyson, U. Teknologi Brunei

Papers
186305 Application of Controlled-Influx Mud Cap Drilling Techniques in Exploiting the Marine Pre-Salt Carbonates in Santos Basin: Case Studies
T. Yaqoob and O. Bello, Clausthal U. of Technology

187018 Drilling through Narrow Pressure Window with Constant Bottom Hole Pressure (CBHP) MPD in Offshore Kalimantan, Indonesia
F. Irawan, F. Fadlin, U. Teknologi Brunei

186877 An Effective Method in Determining Formation Pressure by Controlling Bottom Hole Pressure while Drilling Narrow Window HT Development Wells in Gulf of Thailand
I. Rubianto, Schlumberger WTA Malaysia Sdn. Bhd.; M. Follet, PTTEP

186317 PMCD with Top Kill Facilitate the Development of a HT Fractured Carbonate Gas Reservoir from a TAD Rig – Offshore Malaysia

Thursday, 19 October • 1100-1230 hours • Mengwi 1
TECHNICAL SESSION 28: BUILDING LEADERSHIP AND TECHNICAL COMPETENCY

Session Chairpersons:
Titi Thongjen, PTTEP
Naynesh C. Patel, ExxonMobil Cepu Ltd.

Papers
186988 Service Level Agreement: An Effective Communication Flow in the Implementation of Manpower Contract Management
A. Hidayatullah, M.H. Ismail, and M.U. Jaya, Total E&P Indonesia

186878 Supervisor Performance Assessment Method Based on AHP
S. Zhang and X. Teng, RIPED, PetroChina

186347 A New Approach for Downhole Tools Deployment Training
R.E. Gonzalez, Baker Hughes Inc.

186282 Essential Leadership Attributes for Engineering Managers in the Petroleum Industry
H. Lau, National U. of Singapore

Thursday, 19 October • 1100-1230 hours • Mengwi 2
TECHNICAL SESSION 29: EOR – WATERFLOOD OPTIMISATION

Session Chairpersons:
Takaaki Uetani, INPEX Corp.
Luky Hendraningrat, Auroris

Papers
186939 Online Monitoring and Automatic Control for Zonal Polymer Injection Wells
X. Pei and F. Sun, RIPED, PetroChina

186880 Modelling the Impact of Reservoir CO₂ on Polymer Flood Performance in Aishwariya Field
S. Mishra and A. Pandey, Cairn India Ltd.

186381 A New Approach of Pressure Profile and Oil Recovery during Dual and Single Carbonate Core Flooding by Seawater and CO₂ Injection Process at Reservoir Conditions
X. Zhou, King Fahd U. of Petroleum and Minerals; F. Al-Otaibi, S.L. Kokal, A.A. Alhashboul, and J. Al-Qahtani, Saudi Aramco

186411 Low pH and Salinity Induced Wettability Modification of Hybrid EOR as Polymer-Assisted Carbonated Low Salinity Waterflood in Calcite Cemented Sandstone Reservoir
J. Lee, G. Kim and K.S Lee, Hanyang U.

Thursday, 19 October • 1100-1230 hours • Mengwi 3
TECHNICAL SESSION 30: UNLOCK THE POTENTIAL OF MATURE FIELDS THROUGH PROACTIVE SURVEILLANCE AND MONITORING

Session Chairpersons:
Stephen Tyson, U. Teknologi Brunei
Dipak Mandal, PETRONAS Carigali Sdn. Bhd.

Papers
186942 Integrated Portfolio Analysis of Gas Field Clusters: How to Make Fast, Yet Informed Decisions

187009 How to Solve High Water Cut Well Problem in Mature Oil Filed, Case Study: Application of Modified Completion Treatment in WW D-29, WW H-12, II A-22 Wells
F.N. Afir, H. Gunawan, R. Widiatmo, L. Wasikito, P. Nugroho, R. Prayogo, and A. Suryana, CNOCO SES Ltd.

186876 Real Time Optimisation in Gas Constrained System Results in Production Gain

186385 Proactive Reservoir Surveillance that Leads to Prudent Reservoir and Asset Management: A Pleasant Surprise in Understanding AB Field

Thursday, 19 October • 1100-1230 hours • Mengwi 5
TECHNICAL SESSION 31: DEEPWATER DRILLING

Session Chairpersons:
Shankar Bhukya, NOV Grant Prideco
John (Jonggeun) Choe, Seoul National U.
Fikri Irawan, Weatherford

Papers
186980 Drilling through Narrow Mud Weight Window with Managed Pressure Drilling (MPD) Technique in Deep Water Drilling Operation, Offshore Bali
K. Takase and I.A. Kresnawan, Kangean Energy Indonesia Ltd.

186331 Augmenting Deepwater Well Control with Riser Gas Handling and Managed Pressure Drilling Systems
B. Piccolo, AFGlobal Corp.

186237 Deepwater Cementing Plug and Abandonment: New Findings for One of the Oldest Drilling Concerns
R. Giron Rojas, M. Bogaerts, and D.E. Pereira, Schlumberger; M. Munozrivera, Dowell Schlumberger West

186322 Reaching Well Integrity at the Latest Exploratory Frontier: Cementing at the Caribbean Deepwater Campaign
R. Giron Rojas and A. Millan, Schlumberger; L. Krietemeyer, Schlumberger Technology Corp.; F. Figaro, Dowell Schlumberger

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TECHNICAL SESSION 32: DRIVING BUSINESS EFFICIENCY

Session Chairpersons:
Seitle S. Dhillion, C&C Reservoirs
Hendra Pasaribu, VICO Indonesia

Papers
186938 Driving Efficiency in Idle Wells Restoration through Risk Sharing Integrated Operations
S.R. Mohd Mokhtar, R. Wibisono, M. Zakaria, and A. Shabudin, PETRONAS

186442 Managing Mature and Unconventional Fields
A. Aladasani, Consultant; Q. Okasha and A.S. Ameen, Kuwait Oil Co.
Thursday, 19 October • 1400-1530 hours • Mengwi 5
TECHNICAL SESSION 35: DRILLING PERFORMANCE AND TOOLS

Session Chairpersons:
Salim Taoutaou, Schlumberger
Habil Akram Rosland, Halliburton

Papers
186994 Development of a Remotely Activated Liner Hanger System while Minimising Operational Risks
E. Halfmann, A.A. Munshi, K. O’Connor, S. McMahon, and M. Carmody, Baker Hughes

186330 Implementation of Drilling Microchip for Downhole Data Acquisition

187025 Drilling and Completion Fluids Customisation to Achieve Maximum Well Productivity in Lower Burgan Reservoir, Case Study from Kuwait Field

186954 Drilling Optimisation to Overcome High Torque Problem: Lesson Learned on Kujung First Offshore-HTHP-Horizontal-Critical Sour-Slim Hole Development

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TECHNICAL SESSION 33: CARBONATE RESERVOIR CHARACTERISATION

Session Chairpersons:
Takaaki Uetani, INPEX Corp.
Elsie Sow Chia Shen, PETRONAS

Papers
186265 Reservoir Mapping while Drilling in Vuggy and Heterogeneous Carbonate Reservoir – A Success Story from East Java Basin
F. Muhammad, T. Tengku Othman, A. Pujiriyanto, and A. Setyadi, PETRONAS; N. Ardikani, O. Azwar, I.T. Pasaribu, and D. Permanasari, Schlumberger

186324 Carbonate Petrophysics: Innovative Approach in Rock Typing and Saturation Height Modelling
R. Eyvazzadeh, D.G. Kersey, G. Saghiyyah, and T.M. Al-Ghamdi, Saudi Aramco

186919 Technology Advances to Address Carbonate Reservoirs Heterogeneity: Innovative Workflow from Southern Iraq Carbonates

186391 Poro-Fluid Facies Identification with Nuclear Magnetic Resonance (NMR) Factor Analysis in Karstified Carbonate Reservoir - Case Study from East Java Basin
I.T. Pasaribu, Schlumberger Logelco Inc.; B. Abrar and Z. Ernando, PETRONAS

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Session Chairpersons:
Rachmat Hidayat, PT Pertamina EP Cepu

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186970 Brownfield Redevelopment Strategies in Offshore North West Java
F. Arachman and D. Tobing, PT Pertamina Hulu Energi ONWJ

186263 Shallow Reservoir Development in Mature Field – From Hazard to Resources
T. Setiawan, A. Putra, A. Az-Zariat, K. Rinjani, R.A. Brahmantio, and S. Herawati, Total E&P Indonesia

186946 Managing Offshore Oil Field to Enhance Ultimate Recovery in Asri Basin, Southeast Sumatera, Indonesia
L.B. Waskito, R. Widiatmo, and F.N. Afi, CNOOC SES Ltd.

186355 Transformation of Reservoir Understanding and Implication for Further Development Strategy of Mature Fields - Case Study from Semberah and Mutiara Fields, East Kalimantan, Indonesia
R.S. Riadi and R.C. Permana, VICO Indonesia; S. Andaryani, SKK Migas; A.F. Hadad, Bandung Inst. of Technology
Knowledge Sharing ePoster Sessions will feature a variety of technical posters covering a range of related technical disciplines. An ePoster is an electronic version of the traditional poster, presented on a large digital screen. The electronic format offers the added benefit of animation and video to enhance visual experiences and provide greater interactivity between attendees and authors.

During the ePoster session, presenters will deliver their presentations in an informal setting and facilitate direct discussions with attendees 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.

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**BUSINESS AND ECONOMICS, CAPABILITY AND COMPETENCY & HSSE**

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W. Jaluakbar and I.S. Putra, SKK Migas
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186290  Delivering an Effective and Efficient Contract Transfer in Manpower Contract Management to Maintain the Stability of Daily Operation
A. Hidayatullah, A. Meiraharyanti, and N. Kusumasari, Total E&P Indonesia
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186303  Optimal Selection of Oil and Gas Projects under Uncertainty - A Behavioural Decision Support System Study
K. Katterbauer, Heriot Watt U.
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186378  Proposed Modification of Abandonment and Site Restoration Mechanism in Gross Split PSC for Marginal Field in Indonesia
J. Jaenudin and T.S. Kurniawan, PT Pertamina (Persero)
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186383  An Analytical Approach for Evaluating the Capillary Trapping during CO₂ Storage in Aquifers
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186947 Statistical Analysis and Mapping of Oil and Gas Operating Cost Based on Field Development Plan in Indonesia
A. Abdul Azizuroff, A.A. Asnidar, D.R. Galih, R.R. Firdaus, and M.A. Adisatia, SKK Migas
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186966 A Clean and Efficient Development Mode Boosts Community Development and Environment Protection: Development of Keshen Gas Field, Western China
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187010 Managing Change through “Center of Excellence” Implementation for the Upstream Oil Sector in Kuwait
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186181 Technological Process Reengineering and Optimisation of Liquid CO2 Fracturing Based on Fluid Phase Control
S. Meng, RIPED, PetroChina
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186184 Dissolvable Tools in Multistage Stimulation
N. Jin and Q. Zeng, Vertechs Oil & Gas Technology Co., Ltd.

186192 Coiled Tubing Gas Lift with Unloader: A Case History in Cemented Monobore Completion
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186194 A Downhole Automatic Inflow Control Device in Waterflooding Wells
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186197 Tight Annulus Barrier Solution with Swellable Elastomer Packer in Gulf of Mexico

186199 Unlocking Depleted and Low Modulus Telisa Sandstone Reservoir with Pillar Fracturing Technique: Well Performance Improvement Comparison with Conventional Fracturing
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186207 Real Time Sanding Assessment for Sand-Free Fluid Sampling in Weakly Consolidated Reservoirs: A Case Study from Bohai Bay China
G. Zhang, CNOOC, Tianjin Branch; A. Khaksar, S. Wang, F. Gui, A. White, and G. Lei, Baker Hughes

186211 Change Casing Removal to a Simple and Dependable Method
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186216 Comprehensive Analysis of Time Lapsed Well Productivity Index for Characterising Well Behavior in Tight Volcanic Gas Reservoir
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186220 Occurrence of Particulate Mercury in Flowback Fluids after Well Workover

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186227 Improving Sweep Efficiency by Zonal Isolation Using High Expansion Ratio Inflatable Plugs: A Case Study
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186234 Management of Downhole Organic and Inorganic Scale Agglomeration for the Survival of a Marginally Economic Field
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186236 Cutting Edge Completion Design for KUUD: Pioneering First HPHT Development in Malaysia
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186250 Overcoming ESP Production Challenges in Highly Deviated Wells
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186254 Improve Production in Unconventional Oil Wells Using Artificial Sump
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186261 Closed Loop Speed Control System of ESPCP with Capillary Tube
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186271 The Study and Application of a Electric Intelligent Well Completion System with Electrically Driven Inflow Control Device and Long Term Monitoring
C. Liao, W. Zhang, P. Huang, and J. Qian, RIPED, PetroChina; Z. Shen, China National Petroleum Corp.

186273 Solids Production Prediction in Carbonate Reservoirs - A Case Study from Offshore Vietnam
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Innovative Completion Strategy Overcomes Operational Challenges in Total Losses Condition – A Case Study
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Maximising the Economic Value of Intelligent Completions through Effective Use of Surveillance for Early Decision Making
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18693 Modelling Optimisation of Egypt’s Brownfields Hydraulic Fracturing Case Histories
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18699 Application of Temperature Surveys to Enhance and Optimise the Limited Entry Hydraulic Fracturing Treatment Design and Placement
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187013 A Performance Comparison between Two Novel Multistage Completion Methods in Tight Gas Sandstone Formation from Ondos Basin
Y. Liu, Schlumberger

187019 Large-Scale Visual Experiment and Numerical Simulation of Acid Fingering during Carbonate Acid Fracturing
X. Li, Y. Chen, and Z. Yang, Southwest Petroleum U.; Z. Deng, PetroChina Southwest Oil & Gas Field Co.

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186224 An Innovative Methodology to Assess Cement Blends Flowability and Proneness to Segregation – A Step Forward to Higher Quality
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186223 Design and Application of Aerated and Foam Drilling Fluid, Case Study in Drilling Operation in Indonesia
W.A. Nugroho, M. Sumantiri, and D. Wibisono, PT. Pertamina

186224 An Integrated Approach for Managing Wellbore Instability and Hole Cleaning with Steep Learning Curve in a Tight Deep Gas Accumulation Field, Oman
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186264 Rock Strength Analysis and Integrated FEA Modelling Optimisation Bit Selection for Deepwater Exploration Drilling
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186300 Optimisation Inspection Time Inverval of Well Barrier Element by Weibull Analysis
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186315 Innovative Methodology for Effective Remedial Cementing in Challenging Total Loss Zones: Review of 3 Case Histories in Indonesia
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186380 Triggering Cavitation in Multilateral Coiled Tubing Drilling by High Pressure Water Jet

186386 Dynamic Analysis of Surface Casing During Assembling and Installation
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186399 Extended Reach Drilling to Maximise Recovery from a Mature Asset, a Case Study
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186416 Mitigating Wellbore Stability Challenges in the Presence of Overpressure and Anisotropic Failure in Shales
M. Asadi, K. Rahman, and Q. Ta, Baker Hughes; V. Ha and H. Phuong, Japan Vietnam Petroleum Co.
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186418 The Reversible Emulsion Controlled by Inorganic Salt at High Temperature or Low Permeability Reservoir
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186424 Now It is the Time to Forget Potassium Based Shale Inhibitors by Developing Nano Silica-Alumina Based Drilling Fluid; Laboratory Study Proves Improvement in Shale Inhibition and Temperature Stability
S. Taraghiakh, M. Kafhor Mohammadi, and K. Tahmasbipars, Part Drilling Fluids Co.

186428 Effect of Low Pumping Rate on Mud Displacement Efficiency and Pumping Pressure during Cementing of Oil Wells
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An Integrated Geomechanical Approach for Successful Drilling through Coal in Peninsular Malaysia and Offshore Vietnam
A. Chatterjee, A. Ghosh, and S. Bordoloi, Baker Hughes

Understanding Shale Petrophysics Helps in Drilling Stable Boreholes: Case Studies
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186441 Effect of Casing Coating Materials on Shear-Bond Strength R. Jadhav, M.A. Dumbre, V.R. Palla, and A. Datta, Halliburton
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186881 Real-Time Data Improved Operational Reliability and Reduced Operational Uncertainties of a 9 5/8” Whiststock Casing Exit Operation
L. Fang, J.F. Nelson, and E. Van Putten, Baker Hughes
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186900 Optimal and Fast Drilling Technology for Shale Gas Horizontal Well and its Application
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186901 Managing Relief Well Operation: From Planning to Successful Execution
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A A Comprehensive Study of Shale-Drilling Fluid Interactions to Enhance Long-Term Shale Inhibition
M.K. Al-Arfaj and M. Amanullah, Saudi Aramco
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186914 Application of "Well Factory" Drilling Technology in Shale Gas Development in the Sichuan Basin
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186917 Breaking Records Using an Innovative Organophilic Clay-Free Invert Emulsion Fluid (OCF-IEF) to Drill the Longest Well to Date in the United Arab Emirates (35,800 ft)
M. Nasrallah and M. Vinci, Halliburton
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186930 Flexible Cement Extends Wellbore Life with an Integrated Approach to Zonal Isolation
A. Kumar, G. Gupta, R. Mehra, G.N. Ahuja, and R. Tambe, Halliburton
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186936 Shallow Light Architecture: A Viable and Cost-Effective Solution for Marginal Reserves in Tunu Shallow Development
P. Bimastianto, A.I. Handoko, M. Maulana, and C. Agriawan, Total E&P Indonesia

186937 Transient Thermal Model of Drilling Fluid in Wellbore under the Effect of Permafrost Thaw during Drilling in Arctic Region
X. Wang, B. Sun, Z. Wang, and Y. Zhao, China U. of Petroleum (East China)

186952 Drilling through Narrow Mud Weight Window with Managed Pressure Drilling (MPD) Technique in Deep Water Drilling Operation, Offshore Bali, Indonesia
I.A. Kresna, Kangean Energy Indonesia Ltd.

186960 Understanding Multi Zone Single Trip Gravel Pack (MZSTGP) Performance Improvement Process Using Technical Limit Methodology in Mahakam Delta
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186962 Eliminating Non Productive Time while Drilling in Southern Sumatra Field with Pressurise Mud Cap Drilling
F. Irawan and J.M. Zein, Weatherford
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186963 The Optimisation Method for the Casing Design Based on Coordination Mechanism of Drilling Risk and Cost
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186996 Reaching for Technical Limit: Driving Excellence in Well Operation
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187014 Trials of New Designs Lead to Optimised Bit Selection for Drilling through Hard Carbonates in South Mahakam
A. Fidiansyah, Total E&P Indonesia; B. Noviasta, Schlumberger

187026 Evaluation of LCMs in Cement to Seal Wide Natural Fractures
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186213 Development and Application of Pulley-Free Directly-Connected Hydraulic Pumping Unit
Y. Gao, RIPED, PetroChina

186232 Subsea Technology - Multiphase Pumps
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186244 Reinstatement Method for Underwater Exposed Pipeline at River Crossing and River Bank (RCB) in Delta Mahakam
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186287 Stress Corrosion Cracking on an Insulated Austenitic Stainless Steel Pressure Vessel
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186341 Optimising Operation Oversight of Oil and Gas through Aerial Surveillance
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186345 Investigation and Application of Reciprocating Direct-Drive Electric Submersible Plunger Pump Lifting Technology
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S. Muthanandan, PETRONAS Carigali Sdn. Bhd.
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186430 Experimental Study on the Horizontal Resistance of Group Suction Piles with Different Pile Spacing
J. Lee, Korea Inst. of Civil Engineering and Building Technology

186485 De-Bottlenecking Tunu Flowline Limitation with Jumper Line Installation
W. Yudha, C.E. Jatmiko, T. Widarena, and M. Siboro, Total E&P Indonesia

186500 Oilfield Microbiology: Effective Evaluation of Biocide Chemicals
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186578 Design of Jumper Lines to Unlock Potential of Wells – A Success Story
M. Siboro, A. Widitya, and A. Prabowo, Total E&P Indonesia
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186187 **Inflow Performance Relationship for Heavy Oil Reservoirs under Heating Treatment**
M. Shidqi, Shell Upstream Indonesia Services B.V.
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186190 **New Development Method to Enhance Production Recovery on Mature Field – Success Story from Sembahar Field, East Kalimantan, Indonesia**
A.T. Kramadibrata and R.C. Permana, VICO Indonesia
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187429 **Data Analytics Application for Efficient Technical Potential and Availability Forecasting: A Case Study in Malaysia**
V.P Gupta, R. Masoudi, and A. Razali, PETRONAS, S. Dwivedi, SAS
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186255 **Fueuling Our Future with Gas through End-to-End Integrated Optimisation of LNG Supplying Gas Fields**
(Alternate paper in Technical Session 3)

186280 **Review of 20 Years Hydrocarbon Gas Cycling in the Arun Gas Field**
S. Suhendro, PT Pertamina Hulu Energi
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186284 **Maximising Production of Low Injctivity Steam Flood Reservoir under Pressure Balance Approach**
R. Pasaribu, PT. Chevron Pacific Indonesia
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186337 **Rejuvenating the Field Production of Highly Water Cut Gas Field “G” by Deploying Smart Choke – A Fit for Purpose Technology**
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186373 **Integrated Waterflood Connectivity Analysis in Compartamentalised Reservoir of Windri Area, Asri Basin, Indonesia**
R. Widiatmo, L.B. Waskito, F.N. Afi, P. Nugroho, H. Gunawan, and J. Sunarta, CNOOC SES Ltd.
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186404 **Reactivation and Production Optimisation of Teluk Berau A (TBA) Field, Salawati Basin, West Papua**
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186415 **Using Business Intelligent Tool to Gain Insight into Well Integrity, Surveillance and Production Data**
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A. Malik, M.N. Barot, R. Prakash, and M. Kumar, BG Exploration & Production India Ltd.
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186359 **Study on Remaining Oil Distribution Characteristics and Water Flooding Efficiency Improvement Technology after Polymer Flooding**
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A.L. Baker, Schlumberger

186195 Resistivity Wave for Monitoring Foam Flood Propagation

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186204 Wettability Alteration Measurements of Indiana Lime Stone Due to Effect of Crude Oil Composition during Immiscible CO2 Flooding
M. Ali and S. Iglauer, Curtin U.; N. Dahraj, Pakistan Petroleum Ltd.

186206 Formation Evaluation by Sourceless Logging while Drilling: Gas-Assisted Gravity Drainage (GAGD) Huff ‘n’ Puff Application for Fractured Basement Reservoir - Case Study
J. Xu, L. Tan, Y. Cui, Z. Cui, and H. Liu, CNOCO, Tianjin Branch; R. Coman, H. Tietjen, and G. Wei, Baker Hughes

186210 Gas-Assisted Gravity Drainage (GAGD) Huff ‘n’ Puff Application for Fractured Basement Reservoir - Case Study

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W.J. Al-Mudhafer, Louisiana State U. and A&M College

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186243 Rock Typing by Decoding Pore System and Modelling of Capacillary Transition Zone in a Tight Carbonate Reservoir
F. Dai and H.A. Belhaj, The Petroleum Inst.; A. Bera, U. of Alberta
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C. Temixel, Aera Energy LLC- EBS; Z.Peksaglam, U. of Southern California

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Z. Chen and K. Sepehrnoori, U. of Texas at Austin; X. Liao, U. of Petroleum China, Beijing; W. Yu, Texas A&M U.
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186423 An Integrated Approach for Reservoir Characterisation in Fresh Water Shaly Sand Reservoirs with Dielectric Dispersion, Nuclear Magnetic Resonance and Geochemical Logs: A Case Study from Wells in Charali and Lakhmani Fields, Nazira, Assam, India
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X. Lu, C&G Reservoirs Ltd.
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M. Rushmatmanto, Total E&P Indonesia
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A.A. Mansour, R. Khalil, and T.D. Gamadi, Texas Tech U.
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Integrated Approach in Determining Residual Oil Saturations (SOR) from Various Sources

W.E. Bottomley, D. van As, I. Troth, and K. Quammie, GQC – A Company of the Shell Group of Companies; E. McDonald, ProTest Well Services; G. Babyak, DST Australia
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M. Kim and H. Shin, Inha U.
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Lessons Learned from ASP Flooding Tests in China
H. Guo and Y. Li, China U. of Petroleum, Beijing
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Optimal Zonation of Geological Formations and Identification of Pore Structures for Sandstone Reservoirs, Including Variation in Cementation and Fining Sequences
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D. Jia, RIPED, PetroChina
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X. Han, CNOCO, Tianjin Branch
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T.N. Huu, Sejong U.
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Foam-Assisted WAG: Injection Strategies to Optimise Performance
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S. Wu, F. Zhang, B. Wang, and H. Li, RIPED, PetroChina
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W.J. Al-Mudhafer, Louisiana State U. and A&M College
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A Novel Polymer Rheological Evaluation Method to Determine the Relationship between Viscoelasticity and Oil Distribution
X. Geng, B. Ding, J. Luo, L. He, P. Wang, and B. Peng, RIPED, PetroChina
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T. Babadagli, Xi’an Shiyou U. and U. of Alberta; N. Cao, U. of Alberta
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P. Macini and E.N. Mesini, U. of Bologna; F. Terlizzese, Italian Ministry of Economic Development; I. Antoncicchi, U. of Milano-Bicocca and Italian Ministry of Economic Development
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Reservoir Rock Typing for Sweet Spot Identification within Complex Clastic Reservoir: A Success-Story from Northwest China
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Refactoring Carbonate Reservoir Architecture through Real-Time LWD Measurement
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A. Ghosh and S. Bordoloi, Baker Hughes Inc.
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        W. Wang and Y. Su, China U. of Petroleum (East China)  
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186219  Mapping Stress Profile and Rock Quality Variation in Tight Gas Sandstone Across a Geological Setting  
        R.R. Kumar, Schlumberger Asia Services Ltd.; M.M. Molenaar, Shell Canada Ltd.; S. Lai, Petroleum Development Oman; S.A. Al Bimani, Schlumberger  
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186262  Methodology of Extra Heavy Viscous Oil Sampling Using Single Probe Wireline Formation Tester - Bohai Bay Examples  
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186289  Coalbed Methane Development in China: Challenges and Opportunities  
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186307  Simulation of CO₂ Storage Capacity of Liquid CO₂ Fracturing in Low Permeability Reservoir: A Case Study  
        S. Yang, S. Zhang, and Y. Yang, RIPED, PetroChina

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186349  Numerical Simulation Method and Laboratory Experiments of Starting Pressure Gradient in Tight Sandstone Oil Reservoirs  
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186352  Hydraulic Fracture Geometry in Highly Laminated Tight Oil Formation: Implication from Large-Scale Rock Experiments and Field Multi-Well Pilot Projects  
        Y. Peng, D. Weng, and Y. Xu, RIPED-Langfang, PetroChina  
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186368  Experience Curve for Natural Gas Production by Hydraulic Fracturing  
        R. Fukui, Johns Hopkins School of Advanced Intl. Studies

186407  Active Label Control Slide Sleeve Fracture Technology  
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186897  Natural Fracture Effectiveness Evaluation to Optimise Well Stimulation Method for HTHP Tight Gas Reservoir  
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186899  Uncertainty Analysis and Design Optimisation of Gas Condensate Fields  
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186974  Case Study: Successful Application of a Novel CSG Completion Strategy in the Galilee Basin, Australia  
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TRAINING COURSES

Introduction to HPHT Completions
Monday, 16 October • 0900-1700 hours

Course Description
HPHT fields are increasing in relevance every year in different areas of the world. Conventional fields have represented the vast majority of application during the past years. Unconventional fields, which require, in some cases, very high pressures to achieve the required fracture gradients and extend the flow area, are becoming a very common area of application for HPHT well completion designs.

Who Should Attend?
• Drilling and Completion Engineers
• Petrophysicists
• Production Engineers
• Well Integrity Engineers
• Completions Engineers

Daily Agenda
• HPHT Reservoirs and Properties
• HPHT Well Completion Design
• HPHT Well Construction
• HPHT Field Production and Flow Assurance

Instructor Biography
Miguel Rosato is a HPHT Senior Completions Engineer with 15 years oil and gas experience in onshore and offshore (subsea and platform) well completions, workover, DST and well testing design. His area of expertise are on completion design, including HPHT Completions and DST, Subsea ESP completions, different types of sand control lower completions (open hole and cased hole gravel pack, stand alone and expandable sand screens) and dual completions. He has a multitude of experiences in design for completions systems (flow analysis, production system tubing sizing, tubular stress analysis, and material selection), HSE (risk assessment, multi-disciplinary well on paper (WOP) exercises, peer review of operations plan and pre work safety meetings at the rig site), completions supervision experience in offshore platforms and semisubs, and contracting experience includes tender evaluations for completions, well heads, DST-TCP, coiled tubing, stimulation, well testing and slickline services. He is also involved in project management encompassing schedule organisation for design, appraise, contract strategy, procurement of equipment and execution of HPHT well appraisal campaigns.

Rate Transient Analysis
Monday, 16 October • 0900-1700 hours

Course Description
This course will cover
• Production Analysis Theory and Practice
• An Introduction to Well Performance Analysis
• Traditional (Empirical) Decline Curves
• Production Analysis using Type Curves (Fetkovich)
• Modern Production Analysis Concepts
• Modern Production Analysis Methods
• A Systematic and Comprehensive Approach
• Practical Diagnostics

Who Should Attend?
Engineers and technologists involved in field development, completion comparisons, and their impacts on well spacing, rate forecasts, NPV, and cash flow forecasts.

Daily Agenda
• Production Decline: Traditional and Modern Methods
• Traditional (Empirical) Decline Curves
• Introduction to Typecurves
• Production Analysis using Fetkovich Typecurves
• Modern Production Analysis Concepts
• Modern Production Analysis Methods
• Blasingame Typecurves
• Agarwal-Gardner Typecurves
• Normalised Pressure Integral Typecurves
• Flowing Material Balance
• Analytical History Matching
• Numerical (Hybrid) History Matching
• Automatic Parameter Estimation
• Case Studies

Instructor Biography
Louis Mattar, BSc, MSc, P. Eng., is Principal Reservoir Advisor at IHS Markit. As an energy consultant he has been serving reservoir engineering clients since 1981. He specialises in the interpretation of well tests and pressure/production data. Mattar previously worked for Alberta’s Energy Resources Conservation Board (ERCB), where he wrote Gas Well Testing – Theory and Practice (1975). He also taught reservoir engineering at the University of Calgary. Mattar has authored some 80 technical publications and videos. He is an SPE Distinguished Lecturer and an SPE Distinguished Member.

Abdolrahim Ataei is Principal Reservoir Engineer at PETRONAS. He has more than 26 years of industrial and academic experiences in Upstream E&P. He was working in several positions in the E&P business including offshore operation and production as well as well completion design and drilling. He is also collaborating with UTP (Universiti Teknologi PETRONAS) in supervising the MSc and PhD projects as well as supporting the academic programme. He has published more than 25 technical papers in various international journals and conferences on different areas in reservoir dynamics and characterisation. His areas of interest include reservoir dynamics, EOR, reservoir connectivity and well dynamics, EOR, reservoir connectivity and well deliverability estimation.
Formation Damage during Waterflood, PWRI and EOR
Monday-Tuesday, 16-17 October • 0900-1700 hours

Course Description
Currently, about 65% of worldwide oil is produced by waterflooding, produced water re-injection (PWRI) and production with strong water support. Yet, formation damage is a serious obstacle for oilfield development. Intensive well and water management are necessary to prevent decline in well injectivity and productivity. This course will cover the major cases of formation damage, the corresponding reservoir physics, laboratory studies and mathematical modelling, well behaviour prediction leading the optimal well and water management strategies. The course includes numerous field cases from North Sea, Campos Basin, Gulf of Mexico and Volgo-Ural region. Training exercises will cover well behaviour forecast, skin factor predictions, and laboratory and field data interpretation. The unique feature of the course are formation-damage assisted technologies, where deliberately induced migration of injected or reservoir fines decreases water production, causes flux diversion and enhances the reservoir sweep.

Who Should Attend?
The course is aimed at production, drilling and reservoir engineers, simulation and laboratory specialists involved in waterflooding, PWRI, well stimulation and EOR. The course is designed for medium-experience specialists as well as for young graduate engineers, MSc and PhD students.

Daily Agenda
Day 1
• Formation damage in production and injection wells: Methods for prevention, mitigation, removal and prediction
• Deep bed filtration and external filter-cake formation during waterflooding
• Laboratory studies and laboratory-based predictions of formation damage in injection wells
• Field cases of injectivity decline, its prevention and removal

Day 2
• Fines-migration damage in production and injection wells
• Formation-damage-assisted technologies of oil and gas production
• Oilfield scaling
• Course summary

Instructor Biography
Pavel Bedrikovetsky is currently the Chair in Petroleum Engineering at the Australian School of Petroleum, The University of Adelaide. He is an author of a seminal book in reservoir engineering and 215 technical papers in international journals and SPE. His research covers formation damage, unconventional resources, waterflooding and EOR. He was a Visiting Professor at Delft University of Technology and at Imperial College of Science and Technology and had consulted many energy organisations on EOR and reservoir characterisation. With over 40 years of industry experience, Pavel has served as Section Chairman, short course instructor, key speaker and Steering Committee member at many SPE conferences.

Abbas Zeiniyahromi is Senior Lecturer in Petroleum Engineering at the Australian School of Petroleum in The University of Adelaide, where he specialises in Formation Damage and EOR. His current research interest is on Low Salinity Water Injection including wettability alteration and fines migration. He is the author of over 35 articles in SPE and peer-reviewed scientific and engineering journals and served in various SPE committees. Abbas holds a PhD in Petroleum Engineering from the University of Adelaide, MSc in Reservoir Engineering and BSc in Production Engineering.
## PARTICIPANT PROFILE

Registart’s First Name: (Forename)  
Registart’s Last Name: (Family Name)  

Company:  
Job Title or Position:  

P.O. Box or Street Address:  

City:  
State/Province:  

Country:  
Zip/Postal Code:  

Office Telephone: (Include country/city code)  
Facsimile: (Include country/city code)  

Email Address:  

Emergency Contact Name:  
Emergency Contact Telephone: (Include country/city code)

Membership, please check if applicable:  
   [ ] SPE  [ ] IATMI  Membership # __________________

---

## TRAINING COURSES REGISTRATION FORM

---

### PAYMENT OPTIONS

- Telegraphic Transfer (Bank details will be provided on the invoice)  
  - American Express  
  - Diners Club  
  - MasterCard  
  - Visa  

(Credit card payment will be processed in US Dollars only.)  

<table>
<thead>
<tr>
<th>TRAINING COURSES</th>
<th>SPE/IATMI Member</th>
<th>Nonmember</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Super Early Bird by 30 June</td>
<td>Early Bird by 31 August</td>
</tr>
<tr>
<td>Rate Transient Analysis 16 October 2017</td>
<td>[ ] US$500</td>
<td>[ ] US$600</td>
</tr>
<tr>
<td>Offshore Field Development Planning and Project Management 16-17 October 2017</td>
<td>[ ] US$1,100</td>
<td>[ ] US$1,200</td>
</tr>
<tr>
<td>Formation Damage during Waterflood, PWRI and EOR 16-17 October 2017</td>
<td>[ ] US$1,100</td>
<td>[ ] US$1,200</td>
</tr>
</tbody>
</table>

- Fee includes training course registration, training materials, certificate of attendance, daily luncheon and coffee breaks  
- SPE reserves the right to cancel the course should course registrations not meet minimum numbers  

---

### ONLINE

- www.spe.org (Credit Card Registration Only)  
- [ ] Telegraphic Transfer (Bank details will be provided on the invoice)  
- [ ] American Express  
- [ ] Diners Club  
- [ ] MasterCard  
- [ ] Visa  

---

### FAX

- +603.2182.3030  
  (If faxed, do NOT mail original)  
- [ ] Telegraphic Transfer (Bank details will be provided on the invoice)  
- [ ] American Express  
- [ ] Diners Club  
- [ ] MasterCard  
- [ ] Visa  

---

### MAIL by 10 Oct 2017

- Society of Petroleum Engineers Level 12.01, Level 12  
  Menara IGB, Mild Valley City  
  Lingkaran Syed Putra  
  59200 Kuala Lumpur, Malaysia  
- [ ] Telegraphic Transfer (Bank details will be provided on the invoice)  
- [ ] American Express  
- [ ] Diners Club  
- [ ] MasterCard  
- [ ] Visa  

---

### TEL

- +603.2182.3000  
- [ ] Telegraphic Transfer (Bank details will be provided on the invoice)  
- [ ] American Express  
- [ ] Diners Club  
- [ ] MasterCard  
- [ ] Visa  

---

### EMAIL

- spekl@spe.org  
- [ ] Telegraphic Transfer (Bank details will be provided on the invoice)  
- [ ] American Express  
- [ ] Diners Club  
- [ ] MasterCard  
- [ ] Visa  

---

### Cancellation Policy

- Cancellation in writing must be received by this office no later than 1 October 2017 to receive a refund less US$150 processing fee.  
- Cancellation after 1 October 2017 is not eligible for refund.  
- No refund will be issued if a registrant fails to attend.
GENERAL INFORMATION

REGISTRATION

HOW TO REGISTER
2. Email completed Registration Form to spekl@spe.org.
3. Fax or mail the completed Registration Form to the SPE Asia Pacific office.
4. Register on-site at the APOGCE Registration Counter, Pecatu Lobby, Bali Nusa Dua Convention Center, on the following days:
   • Monday, 16 October : 0900-1700 hours
   • Tuesday, 17 October : 0730-1730 hours
   • Wednesday, 18 October : 0730-1730 hours
   • Thursday, 19 October : 0730-1530 hours

PACKAGES AND FEES
Register by 30 June 2017 to take advantage of the Super Early Bird offer.

<table>
<thead>
<tr>
<th>Categories</th>
<th>Super Early Bird by 30 June</th>
<th>Early Bird by 31 August</th>
<th>Registration After 31 August</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE/IATMI Member</td>
<td>US$795</td>
<td>US$895</td>
<td>US$995</td>
</tr>
<tr>
<td>Non-member</td>
<td>US$895</td>
<td>US$995</td>
<td>US$1,095</td>
</tr>
<tr>
<td>Presenter/Author/Panellist/Committee/Session Chairperson</td>
<td>US$710</td>
<td>US$810</td>
<td>US$910</td>
</tr>
<tr>
<td>One Day SPE/IATMI Member</td>
<td>US$400</td>
<td>US$500</td>
<td>US$600</td>
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<tr>
<td>One Day Non-member</td>
<td>US$450</td>
<td>US$550</td>
<td>US$650</td>
</tr>
<tr>
<td>University Student</td>
<td>Complimentary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visitor – Exhibition Only</td>
<td>Complimentary (before 1 October)</td>
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</tr>
</tbody>
</table>

Group Registration: Register for 5 people and pay for the price of 4.

Full Conference Registration: Admission to opening, keynote, executive plenary, panel, special, technical and ePoster sessions, exhibition, welcome reception, daily networking luncheons, daily coffee breaks, and a copy of the Digital Proceedings.

One-Day Registration: Admission to panel, special, technical and ePoster sessions, exhibition, networking luncheon and coffee break(s) for the selected day only. Registration on Day 1 of conference also includes access to opening, keynote, and executive plenary sessions.

Student Registration: Registration is complimentary for students (with valid student ID) and includes admission to opening, keynote, executive plenary, panel, special, technical and ePoster sessions and exhibition. Student registration does not include any function tickets or the Digital Proceedings.

Visitor Registration: Admission to exhibition and ePoster sessions ONLY.

Digital Proceedings: Full conference registrants will be provided with a copy of the Digital Proceedings at the conference. Additional copies may be pre-ordered on the Registration Form or purchased during registration hours at the conference.

Additional/Social Activities: Function tickets can be purchased online, via submission of the Registration Form or onsite.

Note:
1. Conference materials and badges will not be mailed in advance. They can be collected at the APOGCE Registration Counter, Pecatu Lobby, Bali Nusa Dua Convention Center, during registration hours.
2. Delegates who have registered in advance are encouraged to collect their materials and badges at the Registration Counter on Monday, 16 October, between 0900-1700 hours.

TRAVEL AND ACCOMMODATION

IMMIGRATION/VISA INFORMATION
International delegates travelling to Indonesia must be in possession of passports valid for at least six (6) months with proof of onward passage i.e. return or through ticket. Visa requirements depend on country of origin. Please check with your travel agent, the Indonesian Embassy or Consulate on regulations relating to immigration/visa before your departure. An invitation letter to facilitate the application of visa will be issued to registered attendees if required. Please download the letter of invitation request form at www.spe.org/go/17apog.

AIRPORT INFORMATION
Visitors arrive in Bali, Indonesia, at the Denpasar International Airport, also known as the Bali Ngurah Rai International Airport. The airport is located in southern Bali, approximately 20 minutes away by car from the Bali Nusa Dua Convention Center. Conference registrants may arrange for ground transfers with their selected hotels or secure a taxi at the arrival hall.

HOTEL INFORMATION
Hotel accommodation has been reserved at the Bali Nusa Dua Hotel, Courtyard by Marriott Bali Nusa Dua, The Westin Resort Nusa Dua, Bali and Sofitel Bali Nusa Dua Beach Resort for conference registrants. Reservations can be made directly with the respective hotel by returning the completed Hotel Booking Form directly to the hotels. Confirmation of booking will be sent directly to you by the respective hotels. Hotel bookings can also be made online via the respective hotel reservation links at www.spe.org/go/17apog.
Hotel accommodation for conference delegates has been reserved at the hotels listed below. Reservations can be made directly with the respective hotels. Confirmation of booking will be sent to you directly by the hotel.

### HOTEL INFORMATION

**Room rates are nett prices inclusive of government tax, service charge and daily breakfast. Please indicate selection.**

<table>
<thead>
<tr>
<th>Hotel Name</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
<th>Website</th>
<th>Rooms and Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>BALI NUSA DUA HOTEL</td>
<td>Kawasan Pariwisata Lot NW1, Nusa Dua, Bali 80363, Indonesia</td>
<td>+62.361.849.8833</td>
<td>+62.361.849.8822</td>
<td><a href="mailto:reservation@balinusaduahotel.com">reservation@balinusaduahotel.com</a></td>
<td><a href="http://www.balinusaduahotel.com">Website</a></td>
<td>Deluxe Room: US$130, Premier Room: US$140</td>
</tr>
</tbody>
</table>

Note: Hotel bookings can also be made ONLINE via respective hotel reservation links at [http://www.spe.org/go/17apog](http://www.spe.org/go/17apog).

### PARTICIPANT DETAILS

<table>
<thead>
<tr>
<th>Registrant’s Name</th>
<th>Last (Surname)</th>
<th>Mr./Ms./Mrs.</th>
<th>First (Forename)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partner’s Name</td>
<td>Last (Surname)</td>
<td>Mr./Ms./Mrs.</td>
<td>First (Forename)</td>
</tr>
<tr>
<td>Company</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td>Street Address or P.O. Box Number</td>
<td>City</td>
<td></td>
</tr>
<tr>
<td></td>
<td>State/Province</td>
<td>Country</td>
<td>Zip/Postal Code</td>
</tr>
</tbody>
</table>

**Arrival:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Airline/Flight No.</th>
</tr>
</thead>
</table>

**Departure:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Airline/Flight No.</th>
</tr>
</thead>
</table>

**Credit Card:**

<table>
<thead>
<tr>
<th>Number</th>
<th>Expiry Date</th>
<th>Signature</th>
</tr>
</thead>
</table>

□ American Express  □ MasterCard  □ Visa  □ Others:  

**RESERVATION TERMS:**

1. Bookings will only be accepted with credit card details.
2. Non-refundable deposits and cancellation charges apply for bookings. Please refer to respective hotels for details.
3. Full payment for accommodation and incidentals must be made prior to departure.
4. Telephone reservations will not be accepted.
5. Final confirmation of booking at respective hotels will be subject to availability upon reservation.
**REGISTRATION FORM**

ASIA PACIFIC OIL & GAS CONFERENCE AND EXHIBITION (APOGCE)

17-19 OCTOBER 2017 • BALI NUSA DUA CONVENTION CENTER • BALI, INDONESIA

All portions of this form must be completed. Print your name as they should appear on the meeting badge. Registration will not be processed without payment.

### PARTICIPANT PROFILE

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registrant’s First Name:</td>
<td>[Surname]</td>
</tr>
<tr>
<td>Registrant’s Last Name:</td>
<td>[Surname]</td>
</tr>
<tr>
<td>Company:</td>
<td></td>
</tr>
<tr>
<td>P.O. Box or Street Address:</td>
<td></td>
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<tr>
<td>City:</td>
<td></td>
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<tr>
<td>Country:</td>
<td></td>
</tr>
<tr>
<td>Office Telephone:</td>
<td></td>
</tr>
<tr>
<td>Email Address:</td>
<td></td>
</tr>
</tbody>
</table>

### FEE PER PERSON

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Conference Registration – Includes technical/ePoster sessions, exhibition, networking luncheons, coffee breaks, welcome reception and one (1) copy of the Digital Proceedings</td>
<td>US$150</td>
</tr>
<tr>
<td>Youth Registration – Includes technical/ePoster sessions, exhibition, networking luncheons, coffee break(s) and networking luncheon for the selected day</td>
<td>US$250</td>
</tr>
<tr>
<td>Networking Luncheon – Indicate Day(s)</td>
<td>US$250</td>
</tr>
</tbody>
</table>

### SOCIAL ACTIVITIES, ADDITIONAL TICKETS AND DIGITAL PROCEEDINGS

<table>
<thead>
<tr>
<th>Activity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATMI Business Forum (Monday, 16 October, 0800-1200 hours) Organised by IATMI</td>
<td>US$300</td>
</tr>
<tr>
<td>Golf by the Bay (Sunday, 15 October, 1400-1930 hours) Organised by IATMI</td>
<td>US$170</td>
</tr>
<tr>
<td>Networking Dinner (Monday, 16 October, 1800-2200 hours) Organised by IATMI</td>
<td>US$80</td>
</tr>
<tr>
<td>Networking Luncheon – Indicate Day(s)</td>
<td>US$70</td>
</tr>
<tr>
<td>Welcome Reception (Tuesday, 17 October, 1730-1830 hours)</td>
<td>US$100</td>
</tr>
<tr>
<td>Additional Digital Proceedings – SPE/IATMI Member</td>
<td>US$200</td>
</tr>
<tr>
<td>Additional Digital Proceedings – Non-member</td>
<td>US$300</td>
</tr>
<tr>
<td>Young Professionals Workshop (Monday, 16 October, 1300-2000 hours)</td>
<td>US$50</td>
</tr>
</tbody>
</table>

### TOTAL US$:

**ONLINE**

www.spe.org [Credit Card Registration Only]

**PAYMENT OPTIONS**

- [ ] Telegraphic Transfer (Bank details will be provided on the invoice)
- [ ] American Express
- [ ] Diners Club
- [ ] MasterCard
- [ ] Visa

(Credit card payment will be processed in US Dollars only.)

**FAX**

+60.3.2182.3030 (If faxed, do NOT mail original)

**MAIL by 10 Oct 2017**

Society of Petroleum Engineers Level Suite 12.01, Level 12
Menara IGB, Mid Valley City
Lingkaran Syed Putra
59200 Kuala Lumpur, Malaysia

**TEL**

+60.3.2182.3000

**EMAIL**

spekl@spe.org

**BILLING ADDRESS**

Billing address of card

**ZIP/POSTAL CODE**

Zip/Postal code of card

**SIGNATURE**

Signature

---

**REGISTRATION DEADLINE:**

- **Super Early Bird Registration Deadline:** 30 June 2017
- **Early Bird Registration Deadline:** 31 August 2017
- **Registration Deadline:** 10 October 2017

**CANCELLATION POLICY**

- Cancellation in writing must be received by this office no later than 1 October 2017 to receive a refund less US$150 processing fee.
- Cancellation after 1 October 2017 is not eligible for refund.
- No refund will be issued if a registrant fails to attend.

**DEADLINE:**

- **Registration:** 10 October 2017
- **Early Bird:** 31 August 2017
- **Super Early Bird:** 30 June 2017

**REFUND ELIGIBILITY:**

- Registrant may cancel their registration up to 10 October 2017 for a refund. No refund will be issued after 10 October 2017.
# GROUP REGISTRATION FORM

**ASIA PACIFIC OIL & GAS CONFERENCE AND EXHIBITION (APOGCE)**  
17-19 OCTOBER 2017 • BALI NUSA DUA CONVENTION CENTER • BALI, INDONESIA

All portions of this form must be completed. Print your name as they should appear on the meeting badge. Registration will not be processed without payment.

## EXCLUSIVE FULL CONFERENCE REGISTRATION FEE FOR GROUP OF FIVE (5) REGISTRANTS

**GROUP DISCOUNT** – Register 5, Pay for 4! (Lowest Priced Registration Complimentary)

<table>
<thead>
<tr>
<th>Super Early Bird by 30 June</th>
<th>Early Bird by 31 August</th>
<th>After 31 August</th>
<th>Category</th>
<th>Full Conference Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>US$795</td>
<td>US$895</td>
<td>US$995</td>
<td>A</td>
<td>SPE/IATMI Member</td>
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<td>US$895</td>
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<td>Non-member</td>
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<tr>
<td>US$710</td>
<td>US$810</td>
<td>US$910</td>
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<td>Presenter/Author/Panellist/Committee/Session Chairperson</td>
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</table>

## SOCIAL ACTIVITIES

<table>
<thead>
<tr>
<th>FEE PER PERSON</th>
<th>Category</th>
<th>REGISTRATION</th>
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<tr>
<td>US$170</td>
<td>D</td>
<td>Golf by the Bay (Sunday, 15 October, 1400-1930 hours) Organised by IATMI</td>
</tr>
<tr>
<td>US$300</td>
<td>E</td>
<td>IATMI Business Forum (Monday, 16 October, 0800-1200 hours) Organised by IATMI</td>
</tr>
<tr>
<td>US$80</td>
<td>F</td>
<td>Networking Dinner (Monday, 16 October, 1800-2200 hours) Organised by IATMI</td>
</tr>
<tr>
<td>US$50</td>
<td>G</td>
<td>Young Professionals Workshop (Monday, 16 October, 1300-2000 hours)</td>
</tr>
</tbody>
</table>

Company:

P.O. Box or Street Address:

City: ___________________________  State/Province: ___________________________

Country: ______________________  Zip/Postal Code: ___________________________

Office Telephone: ______________________  Facsimile: ______________________

(Include country/city code)

### PARTICIPANTS PROFILE

<table>
<thead>
<tr>
<th>No.</th>
<th>First Name</th>
<th>Last Name</th>
<th>Job Title/Position</th>
<th>Email Address</th>
<th>Membership No</th>
<th>Category</th>
<th>Amount (US$)</th>
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<tbody>
<tr>
<td>1.</td>
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</tbody>
</table>

**Total (US$$)__________________________**

### ONLINE

www.spe.org  
(Credit Card Registration Only)

### PAYMENT OPTIONS

- [ ] Telegraphic Transfer (Bank details will be provided on the invoice)
- [ ] American Express
- [ ] Diners Club
- [ ] MasterCard
- [ ] Visa

(Credit card payment will be processed in US Dollars equivalent to the exchange rate specified on the conference registration webpage at time of transaction.)

<table>
<thead>
<tr>
<th>Card Number</th>
<th>Expiry Date (mm/yy)</th>
<th>CVV Code</th>
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<tbody>
<tr>
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</tr>
</tbody>
</table>

Name as it appears on card  
Zip/Postal code of card

**Billing address of card**

**Signature**

### Cancellation Policy

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- Cancellation after 1 October 2017 is not eligible for refund.
- No refund will be issued if a registrant fails to attend.

---

EXCLUSIVE FULL CONFERENCE REGISTRATION FEE FOR GROUP OF FIVE (5) REGISTRANTS
The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves more than 164,000 members in 143 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, events, training courses, and online resources at www.spe.org.

Ikatan Ahli Teknik Perminyakan Indonesia (IATMI) is a non-profit organisation established in Jakarta by Indonesian petroleum and geothermal industry professionals in 1979. At this time IATMI has more than 10,000 members spread throughout Indonesia and 12 countries worldwide. IATMI’s main activity is to develop professionalism amongst Indonesian oil and gas engineers through symposiums, seminars, courses and more. For more information, visit www.iatmi.or.id.

Please direct enquiries to:

Lesley Chua
Event Manager
Society of Petroleum Engineers (SPE)
SPE Asia Pacific (M) Sdn. Bhd.
Suite 12.01, level 12
Menara IGB, Mid Valley City, Lingkaran Syed Putra
59200 Kuala Lumpur, Malaysia
Tel  : +60.3.2182.3000
Fax  : +60.3.2182.3030
Email : lchua@spe.org