MESSAGE FROM ADVISOR AND CO-CHAIRPERSONS

Datuk Mohd Anuar Taib
PETRONAS

Nasir Haji Darman
PETRONAS

Choong Yen Li
ExxonMobil E&P Malaysia Inc.

Knut Mauseth
Sarawak Shell Bhd.

On behalf of the Programme Committee, it is our pleasure to invite you to attend the SPE Asia Pacific Enhanced Oil Recovery Conference to be held at the Shangri-La Hotel, Kuala Lumpur, Malaysia from 11-13 August 2015.

The theme “Enabling EOR: Ensuring the Future”, has been selected to highlight the importance of continuing advancements in EOR technology in ensuring optimum oil and gas production, and ultimately attaining energy security.

Oil and gas are expected to remain an important source for future world energy demand. However, conventional oil and gas production from known deposits is in decline. Primary recovery is only expected to recover up to 30%, while secondary recovery can rarely exceed 50% of the Original Oil in Place. EOR, which has been developed to exploit residual oil, is anticipated to provide an incremental 5 to 15% recovery of the Original Oil in Place.

As oil price stabilises and the industry acclimatises to the new normal of lower oil price, operators’ primary focus would maximise productivity of existing wells. This conference, is therefore, an aptly timed platform for us to delve into critical factors such as technological, financial, market and environmental challenges, to push forward and further future EOR implementation.

The conference programme features four panel sessions that will holistically address practicalities of EOR implementation:

• Panel Session 1: Is EOR Still Relevant: We’re Increasing Recoveries Anyway?
• Panel Session 2: Challenging Academia
• Panel Session 3: From Lab to Field
• Panel Session 4: What Comes Next Offshore: More Footage or EOR?

In addition, the highly anticipated Project Review Sessions will showcase the Rimau EOR Project by Medco Energi, the Amal Steam Project by Petroleum Development Oman, and an update on the Tapis WAG Project by ExxonMobil. These project teams will engage, discuss and tease out the key lessons learnt and best practices of their integrated EOR projects.

Besides the impactful two-and-a-half day conference, attendees will have the opportunity to discover innovative EOR techniques and technologies on display at the full-fledged exhibition, which is a new feature this year.

In conjunction with the event, several training courses and workshops will also be held to provide further opportunities for knowledge and skills enhancement. These include four training courses specialising on various EOR technologies, a “Young Professionals Workshop” and “A Call to Action: Bringing Gender Diversity to the Next Level Workshop”.

With an array of activities lined up, the conference is set to offer an exciting and enriching experience with plentiful knowledge sharing and networking opportunities. Please do save the date in your calendar and join us for the event this August.

We look forward to welcoming you to the SPE Asia Pacific Enhanced Oil Recovery Conference in Kuala Lumpur.
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Scan to visit the event website
www.spe.org/events/eorc/2015
Petroliam Nasional Berhad (PETRONAS) is Malaysia’s fully integrated oil and gas multinational ranked among the largest corporations on FORTUNE Global 500. Operating our core business in the Upstream and Downstream sectors, we have a presence in more than 60 countries since we were first incorporated in 1974. We are among the top five oil and gas companies (in terms of production) and the most profitable company in Asia. We are steadily driving for new solutions and pushing boundaries to develop and add value to oil and gas resources in a manner that carefully balances commercial, environmental and social considerations. www.petronas.com

ExxonMobil is the world’s largest publicly traded international Oil and Gas Company, providing energy that helps underpin growing economies and improve living standards around the world. In the Asia Pacific region, we have been a vital part of ExxonMobil's global business for over 100 years.

In Malaysia, ExxonMobil has been a leading member of the energy industry for over 120 years, playing a central role in the development of the country’s petroleum resources and contributing significantly to her economic growth.

In the upstream sector, ExxonMobil is a major crude oil producer and supplier of natural gas to Malaysia, operating over 30 platforms in 12 offshore fields, and holding a working interest in another 10 platforms in five fields. The year 2015 marks the 50th anniversary of ExxonMobil’s upstream presence in Malaysia.

In the chemicals business, ExxonMobil has a strong market position, supplying specialty products to the growing Malaysian marketplace.

We also host a significant part of ExxonMobil’s global IT organisation, providing 24/7 IT support worldwide. Additionally, the Global Support Office provides technical, engineering and application support for ExxonMobil’s upstream and downstream facilities around the world.

ExxonMobil is committed to maintaining the highest ethical standards, protecting the environment, and safeguarding the safety and health of our employees and the communities where we operate. We support the community through corporate and employee volunteer programmes aimed at promoting human capital development, energy literacy, safety and health and corporate governance.

Shell is a global group of energy and petrochemical companies. Our headquarters are in The Hague, the Netherlands, and our Chief Executive Officer is Ben van Beurden. The parent company of the Shell group is Royal Dutch Shell plc, which is incorporated in England and Wales. Our strategy to generate profitable growth remains to drive forward with our investment programme, to deliver sustainable growth and provide competitive returns to shareholders, while helping to meet global energy demand in a responsible way. In Upstream we focus on exploring for new oil and gas reserves and developing major projects where our technology and know-how adds value to the resource holders. In Downstream our emphasis remains on sustained cash generation from our existing assets and selective investments in growth markets.
The Society of Petroleum Engineers wishes to gratefully acknowledge the contributions and support of the following companies towards this event.

**Official Supporter & Principal Sponsor**

**PETRONAS**

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**Principal Sponsors**

**ExxonMobil**

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**Conference Sponsors**

(Additions after 31 March 2015 will be reflected in the on-site Conference Programme)

- **BUMI ARMADA**
  - Silver Sponsor

- **ChemEOR**
  - Silver Sponsor

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### SCHEDULE OF EVENTS

*All activities, unless specified, are scheduled to be held at Basement II, Shangri-La Hotel Kuala Lumpur*

#### MONDAY, 10 AUGUST

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<td>0900-1030 hours</td>
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<td>Session 10: EOR Strategy II</td>
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<td>Project Review Session 2: Amal Steam Project</td>
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<td>Session 12: Pilot II: Lessons Learnt</td>
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**THURSDAY, 13 AUGUST**

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<td>Session 14: Pilot III: Proving the Concepts</td>
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<td>Project Review Session III: Tapis WAG</td>
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**Events to be held in conjunction with the SPE Asia Pacific Enhanced Oil Recovery Conference. For more information, please refer to page 23-26.**

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<tr>
<td>Training Course A: Fractional Flow Methods for Modelling Enhanced Oil Recovery</td>
<td>13-14 August</td>
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<td>Training Course B: An Overview of Heavy Oil Recovery</td>
<td>13-14 August</td>
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<td>Training Course C: Integrated EOR Modelling</td>
<td>13-14 August</td>
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<td>A Call to Action: Bringing Gender Diversity to the Next Level Workshop</td>
<td>13-14 August</td>
<td>Hilton Kuala Lumpur</td>
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**Celebrating 20 Years of Excellence**

1730 – 2000 hours | 11 August 2015 | Grand Hyatt Kuala Lumpur

[Image of fireworks and SPE logo]
With the heyday of high oil price behind us, and current price at an average of $60/bbl, this panel will focus on the premise that EOR is now passé. As such, techniques such as improved reservoir management with wider use of gas and water injection, together with drilling infill wells to get oil, at an accelerated rate will set the order of the day. These accelerated higher recoveries are due to reduced spacing and better sweep, as well as accessing appropriate drainage locations or customising wells to tap into attic oil. Generally this results in an increase in most economic indicators over the production life of the reservoir.
Although industry experience with EOR processes has been positive in a technical sense, as additional reserves have been booked, the economic indicators have not been favourable. Generally these projects have resulted in a decrease in most economic indicators, like ROI, as the enhanced recoveries take longer to produce, are more capital intensive and gains are difficult to be quantified directly.

The panel session will deliberate the value drivers of the abovementioned options; and what needs to be done to facilitate increasing recovery through EOR processes. The panel will share their experiences and views on EOR; is it still relevant or are conventional (and cheaper) means of increasing recoveries the way to do business?

Session Chairs:
• Siti Sabrina Suut, Subsurface Team Lead, Hess E&P Malaysia B.V.
• Steve Flew, Subsurface Director, Petrofac

Moderator:
• Eithne Treanor, OPEC’s Conference and Webcast Moderator

Speakers:
• Datuk Mohd Anuar Taib, Senior Vice President Upstream Malaysia, PETRONAS and President, PETRONAS Carigali Sdn. Bhd.
• Omer Gurpinar, Technical Director, Enhanced Oil Recovery, Schlumberger
• Øivind Fevang, Chief Researcher, Petroleum Technology, Statoil ASA
• Danielle Morel, EOR Senior Technical Advisor, Total

PANEL 2 Challenging Academia

Wednesday, 12 August ● 0900-1030 hours ● Sarawak Room

Despite growing academia-industry collaborations through R&D activities, more is expected from the academia in supporting the industry needs for EOR solutions in an operating environment where costs, profits and economic survival are the main concerns. In this case, academia is challenged to deliver quick, proven and low risk solutions. On the other hand, the system and objective of the academia is not well recognised by the industry and the industry’s expectations are further beyond the academia capability and aspiration as an organisation.

An effective academia-industry cooperation model with interactions beyond R&D activities and integration is possible with both parties’ clear understanding of the objectives. Generally, a cooperation model aims to create mutual mindset and benefits to both parties by building the academia’s capability and sustaining the industry’s economic survival. This session will discuss the path towards a reliable cooperation model, outlining clear expectations of both parties and the desired achievements.

Session Chairs:
• Ken Sorbie, Professor of Engineering, Heriot-Watt University
• Nasir Haji Darman, Head, Technology, Technical Global, PETRONAS

Speakers:
• Dorrik Stow, Director, Institute of Petroleum Engineering, Heriot-Watt University
• Anil Chopra, Chairman, PetroJava
• Helge Hove Haldorsen, 2015 SPE President, Vice President, Strategy, Statoil North America and Country Manager, Statoil Mexico
• Datuk Ir. Dr. Abdul Rahim Hashim, Vice Chancellor and CEO, Universiti Teknologi PETRONAS
Over recent years, our understanding of the physical and chemical processes at the pore-scale have greatly improved, resulting in a realisation that our assumptions at the core scale may be too simplistic. When stepping further back and endeavouring to make field scale predictions based upon laboratory measurements this realisation must surely result in seeking a humble path towards ranges of uncertainty. Now, in relation to EOR we have confidence that what does not work at the pore scale will likely not work at the field scale. However, the range between what does and does not work is broad and the margins are often very narrow. Within such an environment, we take the lab to the field and press towards pilot scale trials, utilising both the pore and core scales to identify uncertainties that matter and estimate the impact they will have on future full field application of the potential EOR technology. Thus the challenge is to design our “pilots” or “development phasing” in such a way as to answer the necessary questions (reduce uncertainties) at optimal time and cost.

This panel session is intended to provide a platform for experts and audience to further discuss and resolve issues, pertaining to successful field implementation of chemical, gas, thermal and MEOR techniques. The panel will also touch briefly on the future direction of these EOR technologies in meeting the global long term demand for energy.

Session Chairs:
• Andrew Parker, Team Lead EOR, Shell Global Solutions International B.V.
• Tore Blaker, Asset Manager, Statoil

Speakers:
• Gary Teletzke, Enhanced Oil Recovery Advisor, ExxonMobil Upstream Research
• Neil McIntosh, Project Manager, Knutsen OAS Shipping
• Yakov Volokitin, Head of Geology, Field Development and New Technologies Department, Salym Petroleum Development
• David Levitt, EOR Specialist, Total

This panel will focus on the question “What comes next, EOR or infill drilling?” Drilling infill wells, horizontal, multi-laterals, wells with special geometry, or using smarter completions have been proven to add oil and increase recovery from even very mature fields. EOR methods have likewise been proven to increase oil and prolong field life through extensive laboratory testing and field implementation.

Both infill drilling campaigns and EOR strategies have been used widely onshore, but have been slower to be implemented offshore because of slot and platform space and cost limitations. Hence, there is more room for improvement in an offshore field. Will these challenges lead us to infill drilling or EOR?
What comes next for our existing assets offshore? Should we relentlessly pursue the next round of infill drilling to improve areal and vertical sweep by addressing areal heterogeneity and lateral pay connectivity and targeting bypassed oil or should we change our reservoir management strategies and implement EOR targeting and improving the microscopic displacement efficiency also? How do we maximise recovery and value? Can we do both?

Session Chairs:
- Joy W Gray, Reservoir Engineer, ExxonMobil Exploration and Production Malaysia Inc.
- Raj Deo Tewari, Custodian Reservoir Engineering, PETRONAS Carigali Sdn. Bhd.

Speakers:
- Usman Ahmed, Vice President and Chief Reservoir Engineer, Baker Hughes
- Yap Kong Fah, Technical Director, Brunei Shell Petroleum Co.
- Tom Snow, Senior Reservoir Management Consultant, ExxonMobil
- Sidhartha Sur, Executive Director and Chief of Corporate Planning, Oil & Natural Gas Corp. Ltd.

PROJECT REVIEW SESSIONS

Maturing and executing an EOR project is significantly more complex than a conventional oil development. These are high investments which demand high levels of competencies, and a good understanding of the reservoir characteristics and performance to ensure the EOR objectives are achieved. In addition to this complex technology, implementing EOR projects in offshore environment with aging facilities compound the execution challenges. It takes commitment and perseverance from project teams and their management to get EOR projects from concept to operations, as they overcome one challenge after another. Inevitably, there are learning and best practices gained by these project teams, either documented or fresh in the minds of key project team members.

The intent of this session is to engage, to discuss and to tease out the key lessons learnt and best practices of selected integrated EOR project teams, as they matured and executed the EOR project for their field. The selected integrated team should comprise members spanning subsurface to facilities and operations. The EOR project to be reviewed and discussed must have been sanctioned, at the minimum, and preferably, already in the operations phase. The end-in-mind is to be able to share key lessons learnt, the do’s and don’ts, and to hear firsthand from these project teams the key enablers and critical factors to ensure a very successful and cost effective EOR project. With proper moderation and sufficient time for engagement with conference participants, it is envisaged to be a lively and rich knowledge sharing session.

Projects to be showcased:
- Rimau EOR Project, Medco Energi
- Amal Steam Project, Petroleum Development Oman
- Tapis WAG Project, ExxonMobil
EXHIBITORS

(As at 31 March 2015)

BASF
Calsep
Computer Modelling Group Ltd.
Sasol Performance Chemicals GmbH
Schlumberger WTA (M) Sdn. Bhd.
Sichuan Guangya Polymer Chemical Co., Ltd.
SNF
The EOR Alliance c/o IFP Canada
Weatherford
ZL EOR Chemicals Ltd.

SHANGRI-LA HOTEL, KUALA LUMPUR
EXHIBITION FLOOR PLAN - BASEMENT II

11 AUGUST
OPENING AND KEYNOTE SESSIONS

11-13 AUGUST
LUNCHEONS

13 AUGUST
PANEL SESSIONS
PROJECT REVIEW SESSIONS

11-12 AUGUST
PANEL SESSIONS
PROJECT REVIEW SESSIONS
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<th>Time</th>
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<td>Session 2 Foam in EOR</td>
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<td>1730 - 2000 hours</td>
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<td>0900 - 1030 hours</td>
<td><strong>Panel Session 2 Challenging Academia</strong></td>
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<td>Session 6 Optimisation, Surveillance &amp; Monitoring</td>
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<td>1030 - 1100 hours</td>
<td><strong>Coffee Break/ knowledge Sharing ePoster Session 2</strong></td>
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<td>1100 - 1230 hours</td>
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<td>Session 7 Characterisation &amp; Modelling II</td>
<td>Session 8 Pilots Around the World</td>
<td>Session 9 Full Field Implementation</td>
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<td>1230 - 1400 hours</td>
<td><strong>Luncheon</strong></td>
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<td>1400 - 1530 hours</td>
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<td>Panel Session 3 From Lab to Field</td>
<td>Session 10 EOR Strategy II</td>
<td>Session 11 Sustaining Operations</td>
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<td>1530 - 1600 hours</td>
<td><strong>Coffee Break/ knowledge Sharing ePoster Session 3</strong></td>
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<td>1600 - 1730 hours</td>
<td><strong>Project Review Session II: Amal Steam Project</strong></td>
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<td>Session 12 Pilot II: Lessons Learnt</td>
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<td><strong>Thursday, 13 August</strong></td>
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<td>0900 - 1030 hours</td>
<td><strong>Panel Session 4 What Comes Next Offshore: More Footage or EOR?</strong></td>
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<td>Session 13 Surfactant &amp; Gel</td>
<td>Session 14 Pilot III: Proving the Concepts</td>
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<td>1030 - 1100 hours</td>
<td><strong>Coffee Break/ knowledge Sharing ePoster Session 4</strong></td>
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<td>1100 - 1230 hours</td>
<td><strong>Project Review Session 3 Tapis WAG Project</strong></td>
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<td>Session 15 Lab II</td>
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### TECHNICAL SESSIONS

**(Additional/changes made after 31 March 2015 will be reflected in the On-site Conference Programme)**

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<td><strong>OPENING SESSION</strong></td>
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<td>• Dato' Wee Yiaw Hin, Executive Vice President and CEO, Upstream, PETRONAS</td>
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<td>• Helge Hove Haldorsen, 2015 SPE President, Vice President, Strategy, Statoil North America and Country Manager, Statoil Mexico</td>
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<tr>
<td><strong>Tuesday, 11 August</strong></td>
<td><strong>0900-1030 hours</strong></td>
<td><strong>KEYNOTE SESSION</strong></td>
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<td>• See Kok Yew, Chairman &amp; President ExxonMobil Exploration and Production Malaysia Inc., Chairman, ExxonMobil Subsidiaries in Malaysia</td>
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<td>• Iain Lo, Chairman, Shell Malaysia</td>
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<td><strong>Tuesday, 11 August</strong></td>
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<td>Session Chairpersons:</td>
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<td>Siyu Yang, State Key Laboratory of EOR, CNPC</td>
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<td>Eivind Smorgrav, Statoil ASA</td>
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<td>Paper</td>
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<td>174660</td>
<td></td>
<td>Visualisation of Light Oil Mobilisation in ASP Core Floods Using X-Ray CT Imaging</td>
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<td>174636</td>
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<td>Adsorption of EOR Chemicals Under Laboratory and Reservoir Conditions, Part II: Bacterial Reduction Methods</td>
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<td>D. Levitt, Total E&amp;P; H.W. Harris, U. of Southern California; R. Grimaud, U. de Pau et des Pays de l’Adour</td>
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<tr>
<td>174588</td>
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<td>Laboratory Investigation of the Permeability Heterogeneity and Gravity Effects on Supercritical CO₂ Displacing Gas Under Reservoir Conditions: Insight for Using CO₂ for Gas Recovery in Heterogeneous Reservoirs</td>
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<td>K. Liu and Z. Yu, RIPED, PetroChina; A. Saeddi, Curtin U.; L. Esteban, CSIRO Earth Sciences &amp; Resource Engineering</td>
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<td>174648</td>
<td></td>
<td>Novel Visualisation of Chemical EOR Flooding Using a Lab-on-a-Chip Setup Supported By an Extensive Rheological Characterisation</td>
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<td>J. Wegner, R.E. Hincapie, H. Foedisch, L. Ganzer and Clausthal U. of Technology</td>
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<td><strong>Tuesday, 11 August</strong></td>
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<td>Anwar Raja Ibrahim, PetroMalaysia</td>
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<td>Putu Suarsana, PT Pertamina EP</td>
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<td>174658</td>
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<td>Foams With Ultra-Low Interfacial Tensions for an Efficient EOR Process in Fractured Reservoirs</td>
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<td>E. Chevallier and M. Chabert, SOLVAY; S. Gautier, F. Martin and S. Bekri, IFP Energies Nouvelles</td>
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<td>174597</td>
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<td>Enhanced Foam Stability By Adding Dispersed Particle Gel: A New 3-Phase Foam Study</td>
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<td>G. Zhao, U. of Alberta; C. Dai, China U. of Petroleum, Beijing</td>
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<td>174607</td>
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<td>An Investigation Into the Effects of Crude Oil Acid and Base Number on Interfacial Tension and Foam Stability By Using Different Low Salinity Water</td>
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<td>A. Shabib-Asl, M.A. Ayoub, K.A. Elraies and I.B. Saaid, U. Teknologi PETRONAS</td>
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<td>174571</td>
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<td>Foam Mobility Control During WAG Injection in a Difficult Reservoir With High Temperature and High Acid Gas</td>
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<td>Andrew Parker, Shell Global Solutions International B.V.</td>
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<td>Lim Min-Teong, PETRONAS</td>
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<td>174693</td>
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<td>Redeveloping a Matured Oilfield with EOR - A Planning of Yesterday for Tomorrow</td>
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<td>174666</td>
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<td>Alkaline-Surfactant-Polymer (ASP) Flooding of Crude Oil at Under-Optimum Salinity Condition</td>
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<td>E. Battistutta, Delft U. of Technology; S. R. van Kuijk and K. Van Groen, Shell Global Solutions; P.L. Zitha, Delft U. of Technology</td>
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<td>174619</td>
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<td>Enhanced Oil Recovery (EOR) on the Basis of Invert-Emulsion Solution (IES) With Simultaneous Use of Acid Formation in the Oil Bed</td>
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<td>V. Sergeev, Skolkovo Inst. of Science and Technology</td>
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<td>174577</td>
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<td>A Holistic Approach to EOR Screening in Dual-Porosity Naturally Fracture Reservoirs</td>
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<td>J.E. Moreno, O.M. Gurpinar and Y. Liu, Schlumberger</td>
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Tuesday, 11 August ● 1400-1530 hours
TECHNICAL SESSION 4: CHARACTERISATION & MODELLING I
Selangor Room

Session Chairpersons:
Giovanna Ragazzini, Eni
Mikael Frorup, Schlumberger

Paper
174641 Mechanistic Modelling of Alkaline / Surfactant / Polymer Flooding Process at Under-Optimum Salinity Condition for Enhanced Oil Recovery
S.M. Hosseini Nasab, C. Padalkar and E. Battistutta, Delft U. of Technology; S. van Kuijk, Shell Global Solutions; P.L. Zitha, Delft U. of Technology

174628 Foam Simulation From Coreflood to Field Scale

174667 Laboratory to Field Scale Simulation of Complex Nano-Fluids Performance for Enhanced Oil Recovery

174625 Predicting Interfacial Tension Using Advanced Meso-Scale Modelling Technique

Tuesday, 11 August ● 1400-1530 hours
TECHNICAL SESSION 5: POLYMER
Perak Room

Session Chairpersons:
Jacques Kieffer, SNF SAS
Tore Blaker, Statoil

Paper
174618 Rheological Properties of Stimuli-Responsive Polymers in Solution to Improve the Salinity and Temperature Performances of Polymer-Based Chemical Enhanced Oil Recovery Technologies
T. Leblanc, O. Braun, A. Thomas, T. Divers, N. Gaillard and C. Favero, SNF

174611 Contribution of Pore-Shape to the Polymer Apparent Viscosity

174689 An Approach to Determine Polymer Viscoelasticity Under Flow Through Porous Media By Combining Complementary Rheological Techniques
R.E. Hincapie, Clausthal U. of Technology; J. Duffy and C. O’Grady, Malvern Instruments Ltd.; L. Ganzer, Clausthal U. of Technology

174654 How Viscoelastic Polymer Flooding Enhances Displacement Efficiency

Tuesday, 11 August ● 1600-1730 hours
PANEL SESSION 1: IS EOR STILL RELEVANT: WE’RE INCREASING RECOVERIES ANYWAY?
Sarawak Room

Session Chairpersons:
Siti Sabrina Suut, Subsurface Team Lead, Hess E&P Malaysia B.V.
Steve Fiew, Subsurface Director, Petrofac

Moderator:
• Eithne Treanor, OPEC’s Conference and Webcast Moderator

Speakers:
• Datuk Mohd Anuar Taib, Senior Vice President Upstream Malaysia, PETRONAS and President, PETRONAS Carigali Sdn. Bhd.
• Omer Gurpinar, Technical Director, Enhanced Oil Recovery, Schlumberger
• Øivind Fenvang, Chief Researcher, Petroleum Technology, Statoil ASA
• Danielle Morel, EOR Senior Technical Advisor, Total

Wednesday, 12 August ● 0900-1030 hours
PANEL SESSION 2: CHALLENGING ACADEMIA
Sarawak Room

Session Chairpersons:
Ken Sorbie, Professor of Engineering, Heriot-Watt University
Nasir Haji Darman, Head, Technology, Technical Global, PETRONAS

Speakers:
• Dorrik Stow, Director, Institute of Petroleum Engineering, Heriot-Watt University
• Anil Chopra, Chairman, PetroJava
• Helge Hove Haldorsen, 2015 SPE President, Vice President, Strategy, Statoil North America and Country Manager, Statoil Mexico
• Datuk Ir. Dr. Abdul Rahim Hashim Rahim, Vice Chancellor and CEO, Universiti Teknologi PETRONAS

Wednesday, 12 August ● 0900-1030 hours
TECHNICAL SESSION 6: OPTIMISATION, SURVEILLANCE & MONITORING
Kedah Room

Session Chairpersons:
Norhayati Hashim, PETRONAS
Joy W Gray, ExxonMobil Exploration and Production Malaysia Inc.

Paper
174610 Laboratory Evaluation of Inter-Well Partitioning Tracers for the Determination of Remaining Oil Saturation After ASP Flooding
174609 Residual Gas Evaluation: A Key Parameter in Enhanced Oil Recovery - Case Study from Offshore Sabah, Malaysia

174580 An Evaluation on Strong Base ASP Flooding Efficiency of Multiple Layers
R. Song, Daqing Oilfield Co., PetroChina; J. Li, C. Xue and H. Chen, No.4 Oil Production Company of Daqing Oilfield; F. Ran, Daqing Oilfield Exploration and Development Research Inst.; F. Huang, B. Li and C. Yu, No.4 Oil Production Company of Daqing Oilfield

174638 WRFM Planning and Execution in a Mature Oil Rim Reservoir in Baram Delta
M.D. Cakici, G. Diomampo, M. Diri and S. Pg Hj Hashim, Sarawak Shell Bhd.; S. Wibowo, PETRONAS

Wednesday, 12 August ● 1100-1230 hours
TECHNICAL SESSION 8: PILOTS AROUND THE WORLD
Selangor Room
Session Chairpersons:
Murray D. H. Sykes, ExxonMobil Exploration and Production Malaysia Inc.

Paper
174627 Estimation of Polymer Retention From Extended Injectivity Test
J.E. Juri and A.M. Ruiz, YPF; M.I. Hernandez, Y-TEC

174656 Nano-Sphere Technology Pilot in a Mature 180 Sandstone Reservoir Water Flood in Alberta, Canada
R.R. Irvine, Harvest Operations Corp.; J.C. Davidson, Harvest Operations Corp; J. Zhang, ZL EOR Chemicals Ltd.

174700 On the Road to 60% Oil Recovery By Implementing Miscible Hydrocarbon WAG Injection in a North-African Field
I. Maffeis, M. Rinaudo, K. Mogensen, M. De Simoni and F. Scarfato, Eni S.p.A.

174673 A New Concept in In Situ Combustion Control

Paper
174591 Full Field Offshore Surfactant-Polymer Flooding in Bohai Bay China
L. Giong, HOPEC Oil Production Technology and Service, Beijing; Y. Ning, CNOOC, Tianjin; W. Jiang Hong and Y. Xue, HOPEC Oil Production Technology and Service, Beijing

174602 CO2 Injection Miscible Conditions in Naturally Fractured Reservoir Artesa

174663 EOR Enhancement Design for Girasol Oilfield in Colombia
P. Wei, Sinopec Research Inst. of Petroleum Engineering

174698 Logistic Considerations for Safe Execution of EOR Projects Offshore
V. Baginski, D.C. Larsen and T.E. Waldman, TIORCO
Wednesday, 12 August ● 1400-1530 hours
PANEL SESSION 3: FROM LAB TO FIELD
Sarawak Room
Session Chairpersons:
Andrew Parker, Team Lead EOR, Shell Global Solutions International B.V.
Tore Blaker, Asset Manager, Statoil
Speakers:
• Gary Teletzke, Enhance Oil Recovery Advisor, ExxonMobil Upstream Research
• Neil McIntosh, Project Manager, Knutsen OAS Shipping
• Yakov Volokitin, Head of Geology, Field Development and New Technologies Department, Salym Petroleum Development
• David Levitt, EOR Specialist, Total

Wednesday, 12 August ● 1400-1530 hours
TECHNICAL SESSION 10: EOR STRATEGY II
Kedah Room
Session Chairpersons:
Raj Deo Tewari, PETRONAS Carigali Sdn. Bhd.
Mikael Frorup, Schlumberger

Paper
174694  Building an Enhanced Oil Recovery Culture to Maximise Asset Values
M. Rotondi, A. Lamberti, F. Masserano and K. Mogensen, Eni S.p.A.

174677  Experiment Aided Optimisation of IWAG Recovery Process in a Complex Field With Complex Fluid: A Case Study
A. Khanifar, M. Razib A Raub, R. Deo Tewari, M. Faizal B Sedaralit and Z. Bt M Zain, PETRONAS

174645  Minimising Formation Damage for Preformed Particle Gels in Mature Reservoirs
M.O. Elsharafi, Missouri U. of Science and Technology

174567  A Novel Technique for Enhanced Oil Recovery: In-Situ CO2-Emulsion Generation

Wednesday, 12 August ● 1400-1530 hours
TECHNICAL SESSION 11: SUSTAINING OPERATIONS
Selangor Room
Session Chairpersons:
Carl Tooth, TIORCO
Jason Goh, ExxonMobil Exploration and Production Malaysia Inc.

Paper
174701  Problem and Solution: Artificial Lift Technology in Polymer Flooding
H. Liu, RIPED, PetroChina

174659  The Influence of Chemical EOR on Produced Water Separation and Quality
A. Kaiser, A. White, J.J. Wylde and L. Alvarez, Clariant Oil Services

174683  Impact of Back Produced Polymer on Tertiary Water Treatment Performances
M. Jacob and A. Demangel, Total Perl; A. Goldszal, Total S.A.; O. Rambeau, P.R. Cordelier, Total CSTJF

174575  Technical Challenges in the Conversion of CO2-EOR Projects to CO2 Storage Projects
A.A. Al Eidan, Saudi Aramco PE&D; S. Bachu, Alberta Innovates Technology Futures; L.S. Melzer, Melzer Exploration Co.; E.I. Lars, CLIMIT Programme, Research Council; M. Ackiewicz, US Department of Energy

Wednesday, 12 August ● 1600-1730 hours
PROJECT REVIEW SESSION 2: AMAL STEAM PROJECT
Sarawak Room

Wednesday, 12 August ● 1600-1730 hours
TECHNICAL SESSION 12: PILOT II: LESSONS LEARNT
Kedah Room
Session Chairpersons:
Siti Sabrina Suut, Hess E&P Malaysia B.V.
Aaron Tang, Weatherford

Paper
174687  Successful Design and Preparation of an Offshore Chemical EOR Pilot in the Captain Field
A. Jackson, Chevron Corp.; N.H. Ruby, Chevron Upstream Europe; G.M. Shook, Chevron ETC; A. Poulsen, Chevron Upstream Europe

174695  Performance and Interpretation of a Large Scale Polymer Flood Pilot in the Captain Field
G.M. Shook, Chevron ETC; N.H. Ruby, Chevron Upstream Europe; A. Jackson, Chevron Corp.; A. Poulsen, Chevron Upstream Europe

174601  Gas Injection Pilot Test in Abkatun Field: Reactivation of a Mature Naturally Fractured Reservoir By a Double Displacement Process
S.R. Garcia and P.A. Maldonado, Pemex Exploracion y Produccion; A. Leon Garcia, Schlumberger Mexico

174626  Thermal Piloting Results and Way Forward for Steamflood Project in Heavy Oil Carbonate Reservoir of Wafra Field
### TECHNICAL SESSIONS

**Thursday, 13 August ● 0900-1030 hours**

**PANEL SESSION 4: WHAT COMES NEXT OFFSHORE: MORE FOOTAGE OR EOR?**

**Sabah Room**

**Session Chairpersons:**
Joy W Gray, Reservoir Engineer, ExxonMobil Exploration and Production Malaysia Inc.
Raj Deo Tewari, Custodian Reservoir Engineering, PETRONAS Carigali Sdn. Bhd.

**Speakers:**
- **Usman Ahmed**, Vice President and Chief Reservoir Engineer, Baker Hughes
- **Yap Kong Fah**, Technical Director, Brunei Shell Petroleum Co.
- **Tom Snow**, Senior Reservoir Management Consultant, ExxonMobil
- **Sidhartha Sur**, Executive Director and Chief of Corporate Planning, Oil & Natural Gas Corp. Ltd.

**Thursday, 13 August ● 0900-1030 hours**

**TECHNICAL SESSION 13: SURFACTANT & GEL**

**Kedah Room**

**Session Chairpersons:**
Carl Tooth, TIORCO
Youyi Zhu, RIPED, CNPC

**Paper**

174621  **Toward an Alternative Bio-Based SP Flooding Technology: II. Biosurfactant Evaluation**
P.A. Luque Alanis, Saudi Aramco PE&D; A.M. Alkhatib, Saudi Aramco; M. Han, A.M. Alsofi, Saudi Aramco PE&D

174572  **Comprehensive Effects on the Propagation of Surfactant and Polymer Flow in Carbonate Porous Media**
D. Cao, Saudi Aramco; J. Wang, M. Han and A.J. Alshehri, Saudi Aramco PE&D

174568  **Wettability and Oil Recovery By Polymer and Polymer Particles**
B. Shaker Shiran and A. Skauge, Centre for Integrated Petroleum Research

174640  **Development of Thermo-Gels for in Depth Conformance Control**
G. Dupuis, J. Bouillot, A. Templier and A. Zaitoun, Poweltec; R.S. Al-Maamari and A. Al-Hashmi, Sultan Qaboos U.; H.H. Al-Sharji, Petroleum Development Oman

**Thursday, 13 August ● 0900-1030 hours**

**TECHNICAL SESSION 14: PILOT III: PROVING THE CONCEPTS**

**Selangor Room**

**Session Chairpersons:**
Qun Li, CNPC
Tan Hoy Kim, PETRONAS

**Paper**

174699  **Dalia / Camelia Polymer Injection in Deep Offshore Field Angola: Learnings and In Situ Polymer Sampling Results**
D.C. Morel, Total S.A.; E. Zaugg, Total UK; S. Jouenne and J.A. Danquigny, Total S.A.; P.R. Cordelier, Total CSTJF

**Thursday, 13 August ● 1100-1230 hours**

**PROJECT REVIEW SESSION 3: TAPIS WAG PROJECT**

**Sabah Room**

**Thursday, 13 August ● 1100-1230 hours**

**TECHNICAL SESSION 15: LAB II**

**Kedah Room**

**Session Chairpersons:**
Keyu Liu, RIPED, PetroChina
Hemanta K. Sarma, U. of Calgary

**Paper**

174643  **Visualising Surfactant EOR in Core Plugs and Micromodels**

174676  **Visualisation and Distribution of Ions at Fluids / Rock Interfaces: Angstrom Scale Study**
M.B. Alotaibi, D. Cha and A.A. Yousef, Saudi Aramco

174603  **Adsorption Inhibitors: A New Route to Mitigate Adsorption in Chemical Enhanced Oil Recovery**

174685  **Effect of Sodium Ion in Smart Water - Enhanced Oil Recovery (SmW-EOR) for Reservoir Chalks**
K.H. Chakravarty, I. Xiarchos, P.L. Fosbøl and K. Thomsen, CERE, Technical U. of Denmark
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<th>(Alternate paper in technical session)</th>
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<td>174564</td>
<td>Feasibility Study on Flue Gas Assisted SAGD in Offshore Heavy Oil Reservoirs</td>
<td>Y. Wu, PetroChina; Y. Zhu and H. Wang, RIPED, PetroChina</td>
<td>(Alternate paper in technical session 10)</td>
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<tr>
<td>174565</td>
<td>EOR: Challenges of Translating Fine Scale Displacement Into Full Field Models Part 3</td>
<td>J.E. Moreno, Schlumberger; S. Flew, Petrofac; O.M. Gurpinar, Schlumberger</td>
<td>(Alternate paper in technical session 7)</td>
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<td>174566</td>
<td>Current Developments and Remaining Challenges of Chemical Flooding EOR Techniques in China</td>
<td>Y. Zhu, RIPED, PetroChina</td>
<td>(Alternate paper in technical session 8)</td>
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<td>174569</td>
<td>Effects of Emulsification on Oil Recovery and Produced Liquid Handling in Chemical Combination Flooding</td>
<td>Y. Zhu, M. Lei, Y. Zhang and Y. Zhu, RIPED, PetroChina</td>
<td>(Alternate paper in technical session 11)</td>
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<td>174578</td>
<td>Practice of the Early Stage Polymer Flooding on LD Offshore Oilfield in Bohai Bay of China</td>
<td>K. Ma and Y. Li, CNOOC, Tianjin</td>
<td>(Alternate paper in technical session 9)</td>
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<tr>
<td>174581</td>
<td>Development of Novel Surfactant for Alkali-Free Surfactant/Polymer Combination Flooding Green Technology</td>
<td>F. Zhang, PetroChina; Q. Zhang, Z. Zhou and H. Cai, State Key Laboratory of EOR, RIPED, CNPC</td>
<td>(Alternate paper in technical session 11)</td>
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<tr>
<td>174584</td>
<td>Potential Evaluation of Low Salinity Waterflooding for a Tight Oil Reservoir in Jiyuan Oilfield: Experiments and Reservoir Simulation Results</td>
<td>Q. Xie, D. Ma, J. Wu and Q. Liu, RIPED, PetroChina</td>
<td>(Alternate paper in technical session 10)</td>
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<tr>
<td>174585</td>
<td>Optimisation Design Method of Strata Combination and Injection Parameters for Strong Base ASP Flooding</td>
<td>S.R. Garcia and P.A. Maldonado, PEMEX; A. Leon Garcia, Schlumberger Mexico</td>
<td>(Alternate paper in technical session 8)</td>
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<tr>
<td>174586</td>
<td>Alternative Injection and Its Seepage Mechanism of Polymer Flooding in Heterogeneous Reservoirs</td>
<td>P. Han, PetroChina; H. Liu, R. Cao and Y. Zhang, Daqing Oilfield Exploration and Development Research Inst.; X. Liu, Daqing Oilfield Co., PetroChina</td>
<td>(Alternate paper in technical session 3)</td>
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<tr>
<td>174587</td>
<td>Laboratory Evaluation of Scaling Potential During Water Alternating Gas (WAG) Injection on Limestone Reservoirs</td>
<td>P. Guraieb, Brine Chemistry Solutions; M.M. Bezerra, Petrobras S.A.; F.F. Rosario, Petrobras; M.B. Tomson, Rice U.; R. Tomson, Brine Chemistry Solutions</td>
<td>(Alternate paper in technical session 1)</td>
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An ePoster is an electronic version of the traditional poster, presented on a large digital flat screen. The electronic format offers the added benefit of animation and video to enhance the visual experience and provide greater interactivity between attendees and authors.

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

KNOWLEDGE SHARING ePOSTER SESSIONS

(Additional/changes made after 31 March 2015 will be reflected in the On-site Conference Programme)
174589 Alkyl Ether Carboxylate Surfactants for Chemically Enhanced Oil Recovery in Harsh Field Conditions
(Alternate paper in technical session 13)

174590 Experiments on Three-Phase Relative Permeability in CO₂ Flooding for Low Permeability Reservoirs
R. Wang, C. Lv, S. Zhao, Z. Lun and H. Wang, Key Laboratory of Marine Oil & Gas Reservoir Production, Sinopec E&P Research Inst.
(Alternate paper in technical session 1)

174592 Low Salinity Waterflooding in Low Permeability Sandstone: Coreflood Experiments and Interpretation By Thermodynamics and Simulation
Q. Xie, D. Ma, J. Wu and Q. Liu, RIPED, CNPC
(Alternate paper in technical session 3)

174593 Effects of Crude Oil Components on the Interfacial Tension Between Oil and Surfactant Solutions
Y. Zhu and M. Lei, RIPED, PetroChina
(Alternate paper in technical session 13)

174594 Oil Recovery By Steam-CO₂-Foam Flooding: Combination of CO₂-Foam Flooding and Steam Injection as a Novel Enhanced Oil Recovery (EOR) Method in Heavy Oil Reservoirs
H. Nejatian Daraei, E. Sahraei and E. Khodapanah, Sahand U. of Technology
(Alternate paper in technical session 2)

174595 Hysteresis Modelling in WAG CO₂ Pilot Case
T.A. Obeida, Arabian Gulf Oil Co.
(Alternate paper in technical session 12)

174596 Case Study on In-Depth Blocking for Thermal Recovery By Steam Stimulation in Heavy Oil Reservoirs
Q. You, China U. of Geosciences, Beijing
(Alternate paper in technical session 6)

174599 Understanding the Displacement Mechanism of Nanoparticles to Improve Oil Recovery: An Experimental Study
A.I. Eldiasty, American U. in Cairo
(Alternate paper in technical session 1)

174604 Solvent-Assisted Start-Up in Fengcheng SAGD Project: A Case Study
Y. Wu, PetroChina Co. Ltd.; H. Wang, X.X. Li, RIPED, PetroChina; D. Ma, Liaohoe Oilfield Co., PetroChina
(Alternate paper in technical session 14)

174605 Composition Characteristic and Miscibility Behaviour of Continental Deposit Reservoir Oil
D. Ma, Liaohoe Oilfield Co., PetroChina; K. Zhang, S. Li, RIPED, PetroChina; X. Chen, Sate Key Laboratory of EOR, RIPED, CNPC; J. Qin, CNOOC Research Center
(Alternate paper in technical session 10)

174606 Case Study of Hot Water Foam Flooding in Deep Heavy Oil Reservoirs
X. Liu, China U. of Petroleum, Beijing; Q. Hou, RIPED, PetroChina; Y. Wu, PetroChina
(Alternate paper in technical session 12)

174612 Simulation for High Viscoelasticity Polymer Flooding Pilot in LMDN4-4 Block of Daqing Oilfield
G. Chen, Daqing Oilfield Co., PetroChina
(Alternate paper in technical session 7)

174613 Discerning In-Situ Performance of an EOR Agent in the Midst of Geological Uncertainty: II. Fluvial-Deposit Reservoir
S. Fatemi, J. Jansen and W.R. Rossen, Delft U. of Technology
(Alternate paper in technical session 4)

174614 Uncertainty Assessment of Chemical EOR in One of the Offshore Fields in Malaysia
(Alternate paper in technical session 3)

174620 Tradeoffs Between Emulsion and Powder Polymers for EOR
S. Jouenne, A. Klimenko and D. Levitt, Total S.A.
(Alternate paper in technical session 5)

174622 Nanowetting Microscopy Probes Liquid-Solid Interaction on the Nanoscale
M.B. Steiner, IBM Research-Brazil; M. Engel, IBM TJ Watson Research Center; R. Giro, R.F. Neumann, IBM Research-Brazil; P. Bryant, IBM Brazil; P. Avouris, IBM TJ Watson Research Center; C. Feger, IBM Brazil
(Alternate paper in technical session 15)

174624 Characterisation of Ultra-High Molecular Weight Oilfield Polyacrylamides Under Different pH Environments Using Asymmetrical Flow FFF and Multi-Angle Light Scattering Detector
Y. Dalsania, A. Doda and J.J. Trivedi, U. of Alberta
(Alternate paper in technical session 5)

174629 New Insight on Carbonate Heavy Oil Recovery: Pore Scale Mechanisms of Solvent Alternative CO₂ Foam/Polymer Enhanced Foam Flooding
A. Telmadarreie and J.J. Trivedi, U. of Alberta
(Alternate paper in technical session 2)
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<tr>
<td>174633</td>
<td>Insight for Air Injection EOR From Static Oxidisation Behaviours of Crude Oil</td>
<td>X. Wei and S. Yang, RIPED, PetroChina; B. Wang, PetroChina; Y. Yang, W. Song, Y. Xu and K. Liu, RIPED, PetroChina</td>
<td>(Alternate paper in technical session 15)</td>
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<td>174634</td>
<td>Determining Two Mobile Phase Saturations With Single Well Chemical Tracer Test Using Method of Moments</td>
<td>W. Tian and X. Wu, The U. of Oklahoma</td>
<td>(Alternate paper in technical session 8)</td>
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<td>174635</td>
<td>Estimation of Near-Miscibility Conditions Based on Gas-Oil Interfacial Tension Calculations</td>
<td>M. Alriyami, Louisiana State U.</td>
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<td>174636</td>
<td>Reitbrook Case Study: Enhancing Oil Recovery Through the Underground Gas Storage Activity</td>
<td>M. Perreaux, C. Bontemps and P. Egermann, GDF SUEZ</td>
<td>(Alternate paper in technical session 9)</td>
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<td>174637</td>
<td>Improving AP or ASP Flood Injectivity and Heavy Oil Recovery Performance Using Crosslinked Polymer of Acrylic Acid (AA) and N-vinyl-2-pyrrolidinone (NVP) Compared to High Molecular Weight Hydrolyzed Polyacrylamide</td>
<td>A. Doda, U. of Alberta Library; Y. Kotsuchibashi, Center for Materials Nanoarchitectonics (MANA), National Inst. for Materials Science (NIMS); Y. Dalsania, J.J. Trivedi and R. Narain, U. of Alberta</td>
<td>(Alternate paper in technical session 3)</td>
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<td>174640</td>
<td>Evaluation of the First Cyclic Steam Pilot in Offshore Oilfield of China</td>
<td>S. Wang, CNOOC, Tianjin</td>
<td>(Alternate paper in technical session 12)</td>
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<td>174642</td>
<td>Methodologies Used to Estimate Channel Volumes and Design Chemical Treatments for Water Shut-Off at Producing Wells in Natural Water-Drive Reservoirs and for Conformance Control at Injection Wells in Water, CO₂, and Chemical Flood Reservoirs</td>
<td>J.T. Portwood, EOGA - A Flotek Co.; A. Batonyi, Enerplus Corp.; A.E. Morrow, EOGA - A Flotek Co.; D. Biswas, SiteLark - A Flotek Co.; G.S. Penny, Flotek FZE</td>
<td>(Alternate paper in technical session 4)</td>
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174670 Application of Well Test Information to Judge Blocking and Channeling in Polymer Flooding Unit  
J. Lin, Xi’an Shiyou U.; K. Qiu and X. Guo, Henan Oilfield, Sinopec  
(Alternate paper in technical session 11)

174671 Stabilisation of Produced Crude Oil Emulsion in the Presence of ASP  
(Alternate paper in technical session 11)

174672 Laboratory and Simulation Investigation of the Effect of Thermally Activated Polymer on Permeability Reduction and on Viscosity Increase in High Permeable Unconsolidated Sand  
C. Fabbri, Total S.A.; A. Klimenko and S. Jouenne, Total CSTJF; D.C. Morel, Total S.A.  
(Alternate paper in technical session 5)

174674 Subsurface Optimisation and De-Risking of Baronia EOR Re-Development Project in Offshore Malaysia  
M. E Yazdi and H.R. Ahmad, PETRONAS Carigali Sdn. Bhd.; M. Diri, Shell; M.D. Cakici, Sarawak Shell Bhd.  
(Alternate paper in technical session 10)

174678 Low-Tension Gas Modelling in Surfactant Alternating Gas and Surfactant/Gas Co-Injection Processes  
M. Beygi, A. Varavei, M. Lotfollahi and M. Deishad, The U. of Texas At Austin  
(Alternate paper in technical session 7)

174681 Prediction of Shear-Thinning Flow Through Porous Media Using Pore-Scale Simulation for Polymer EOR Study  
(Alternate paper in technical session 1)

174684 Seismic Reservoir Monitoring as an Integrated Tool to Inform EOR Strategies  
K. Eggenberger, D. Hill, O.M. Gurpinar, K. Westeng, M. Paydayesh, S. Sonika, V. Dimova and D.J. Lowden, Schlumberger  
(Alternate paper in technical session 6)

174690 Low-Tension Gas (LTG) Injection Strategy in High Salinity and High Temperature Sandstone Reservoirs  
N. Nguyen, The U. of Texas At Austin; G. Ren and K. Mateen, Total E&P USA; P.R. Cordelier, Total CSTJF; D.C. Morel, Total S.A.; Q.P. Nguyen, The U. of Texas At Austin  
(Alternate paper in technical session 10)

174697 Progress of Microbial Enhanced Oil Recovery in China  
H. Guo and Y. Li, China U. of Petroleum, Beijing  
(Alternate paper in technical session 14)

174702 Workflow Application for Advanced Well Completions to meet IOR / EOR Challenges in Malaysia  
K. Chan, H. Karkooti, S. Soni and S. Jalan, PETRONAS; N. Shahreyar and T. Kalyani, Halliburton Malaysia; D.B. Finley, Halliburton; R. Masoudi, PETRONAS  
(Alternate paper in technical session 3)

174703 Treatment Technology of Steam Breakthrough for Offshore Heavy Oil Reservoirs Developed By Huff and Puff With Multi-Component Thermal Fluid  
X. Han, CNOOC, Tianjin  
(Alternate paper in technical session 8)

174704 CDG in a Heterogeneous Fluvial Reservoir in Argentina: Pilot and Field Expansion Evaluation  
D. Diaz and N. Saez, YPF; M. Cabrera, INLAB; E.J. Manrique, J.L. Romero, M. Kazempour and N.M. Aye, TIORCO  
(Alternate paper in technical session 9)
TRAINING COURSE A: Fractional Flow Methods for Modelling Enhanced Oil Recovery

Thursday-Friday, 13-14 August • 0900-1800 hours • Sheraton Imperial Kuala Lumpur

Fractional-flow theory is a powerful tool for understanding and analysing Enhanced Oil Recovery (EOR) processes. It is not a substitute for reservoir simulation, but an essential tool for benchmarking, analysing and critiquing simulations. A major advantage of the approach is its simplicity; it can be implemented on a spreadsheet and an EOR process analysed in a few hours. Essential mechanisms are made clear through the simplicity of the approach. This simple, extremely powerful technique can lead to insights into better process designs that can then be tested with reservoir simulation.

This course presents the basis for fractional-flow theory and practice in its implementation, starting with the Buckley-Leverett analysis of a waterflood. Their approach can be extended to many EOR processes using a material or heat balance at the chemical, solvent, or heat front (depending on the EOR process). This balance then often translates into a simple geometric condition for the velocity of the front on the fractional-flow diagram. Examples are worked for polymer floods, miscible-gas floods, and foam. Throughout the course, limitations of the theory are discussed, along with insights gained and practical applications of the technique. With the tools provided in this course, one can apply this method to any EOR process that can be described as a two-phase displacement.

The course ends with a brief discussion of possible extensions of the approach to multi-component, multi-phase displacements, geochemical processes, effects of gravity, fingering, etc.

COURSE LEVEL Intermediate

COURSE INSTRUCTOR

William Rossen is Professor of Reservoir Engineering in the Department of Geoscience and Engineering at Delft University of Technology, The Netherlands. He has over 30 years research experience in enhanced oil recovery (EOR), much of it on applications of fractional-flow theory to modelling EOR processes. In 2011 he was named Best Instructor at Delft University of Technology and in 2012 he was named an “Improved Oil Recovery (IOR) Pioneer” at the Society of Petroleum Engineers Symposium on IOR in Tulsa.

TRAINING COURSE B: An Overview of Heavy Oil Recovery

Thursday-Friday, 13-14 August • 0900-1800 hours • Sheraton Imperial Kuala Lumpur

The 2-day course is intended to provide an overview of heat and fluid flow in heavy oil reservoirs. The course is designed to serve as a first course in heavy oil recovery and to provide a background on a variety of heavy oil recovery techniques with emphasis on steam injection recovery for reservoir, production, and facilities engineers, as well as geologists, technicians and managers working in the area of thermal production.

Discussion topics will include global demand and supply of energy; basic concepts of thermal enhanced recovery; fundamentals of steam injection process; flood management, and mechanics of recovery; considerations in steam injection projects development and operation; analytical heating models; well completions and surface facilities; post-steam injection recovery; other heavy oil recovery methods; screening, selection, design, and implementation; field experiences; and commonly applied technologies in the recovery of heavy oil.

COURSE LEVEL Introductory - Intermediate

COURSE INSTRUCTOR

Dr. Behrooz Fattahi holds Ph.D. degrees in Aerospace Engineering and in Mechanical Engineering from Iowa State University. After 37 years of working in the industry, he retired from Aera Energy LLC, an affiliate of Royal Dutch Shell and ExxonMobil companies in 2014. He was the Heavy Oil Development Coordinator at Aera, and in his last position as the Learning Advisor, he taught several internal company technical courses including topics on reservoir engineering and enhanced oil recovery.

Dr. Fattahi is a past member of the American Institute of Aeronautics and Astronautics, and American Association of University Professors. He served as the Executive Editor of the SPE Reservoir Evaluation and Engineering Journal, and on the board of the Society of Petroleum Engineers International (SPE) as the Director of the Western North America Region, President of SPE Americas Inc., and Vice President-Finance. He served as a member of the United States National Petroleum Council. He is currently a member of the Board of the SPE Foundation.

Dr. Fattahi served as the Chairman of the Board, and the 2010 President of SPE International. He is now the 2014 President of the American Institute of Mining, Metallurgical and Petroleum Engineers, AIME.
TRAINING COURSE C: Integrated EOR Modelling

Thursday-Friday, 13-14 August • 0900-1800 hours • Sheraton Imperial Kuala Lumpur

EOR has become a crucial oil field approach in the last decade for mature and difficult oil fields. At the moment only a select number of operators and service companies are working in EOR. This interactive EOR course will take the participants through the screening, justification, development and design of an EOR project.

COURSE LEVEL  Intermediate - Advanced

COURSE INSTRUCTOR

Jan Nieuwerf holds an MSc in Geology from Utrecht University. He joined Shell in 1991 and worked as geologist and development team leader on a large range of oil and gas development projects including Shell UK (Central Business Unit), Shell Norway, Shell Malaysia, Shell E&P Asia, Venezuela, Brunei (Seria chemical EOR), Russia (Salym chemical EOR) and NAM in the Netherlands (Schoonebeek East Polymer injection). Jan has a deep knowledge of Chemical EOR including, Low Salinity- Polymer- and Surfactant flooding. He is also an accredited facilitator and senior project leader having lead multi-disciplinary teams of 35 people. From 2010 to 2011 Jan worked in SGS Horizon on various EOR projects in the North Sea and Eastern Europe. In 2012 Jan became Director EOR of Azuren BV and has since worked on EOR projects in Russia, the North Sea, Mainland Europe, Turkey and the US. In 2013 he founded EOR Laboratory Services (ELS) and also works as its CEO.
The oil and gas industry faced an explosion of digital waves in the early 90s as personal computers became more accessible to the world. Since then, data acquisition in our industry became digital ready and the telecommunications industry made it available in real time. Now, the oil and gas industry is capitalising on these digital technologies to have access to remote sites or platforms and regional operation centres and also to communicate with gadgets in the subsurface.

Size does matter. Subsurface data is growing tremendously in size and available in real-time. Demand to optimise the operations lead to the digital oilfield initiatives. More efforts are being built into corporate strategic planning to implement information technology, data management, automation and digital control systems toward smart field and integrated operations. Digital oilfields reduced the conventional paper-based technique beyond imagination of past generations while at the same time enhancing operational efficiency.

Our young professionals grew up with the Internet where they tweet, are social media dependent and even play and buy online. They can’t imagine a world without digital. How we harness digital technology for business growth and stay competitive will determine the success of industry. Multiple locations, offices and remote facilities can be seamlessly integrated to enhance data, workflow and process accuracy and productivity.

Competency development, access to corporate knowledge, operational decisions, communications and daily problem solving can be achieved within the realm of digital solutions. With both data and knowledge becoming more mobile, how do we control data integrity? Are we at risk of losing interpersonal skills when our work is being digitally managed?

Knowing that digital technologies often come with a hefty price tag and with current oil price may lead operators to reduce their OPEX/CAPEX and appetite towards technology proportionately. Or will they increase the automation at the expense of workforce? How can we bring down the cost of technology to the industry? The current generation shall lead the industry and prove the benefit of technology and be the master of the digital world. The wiser one shall shed their wisdom for optimum adoption.

Are you ready for the digital world? Let’s rise and shape the industry.

**Discussion Topics Include:**

- Subsurface Evaluation in a Digital World
- Real Time Operation and Integrated Operations
- Seismic to Simulation: Closing the Loop
- Data Capture, Integrity and Information Management
- Talent Development and Competency Management
- Knowledge Management and Corporate Deployment
- Managing Operators, Partners and Hosts

**Who Should Attend**

The workshop is primarily aimed at young professionals. A young professional is any professional aged 36 or less and/or currently works in the energy sector with no more than 10 years experience.

**Preferential Registration Rates and Group Registration Package**

If you and/or your colleagues are interested in attending more than one of the training courses/workshops being organised by SPE in Kuala Lumpur, Malaysia the week of 9-14 August 2015, please contact Stephanie Gillett at email: sgillett@spe.org or telephone: +60.3.2182.3141, for further information about preferential registration rates and group registration packages.
The oil and gas industry in Asia Pacific has come a long way in supporting gender diversity and increasing female participation. There are several examples of how gender diversity is having positive impacts on business outcomes – in the nature of revenue, profit, employee satisfaction, stakeholder engagement and innovation.

This inaugural workshop aims to celebrate these successes and share the learnings, while encouraging participants to further explore improvement ideas to bring gender diversity in Asia Pacific’s oil and gas industry to the next level.

The workshop intends to share the current state of workforce participation in the region, as well as lessons learnt that have worked in other regions/countries or companies. The interactions during the workshop are anticipated to identify several key items that are viewed as important to elevate gender diversity to the next level. By having representatives from across the industry with diverse profiles and a good mixture of both female and male participants, it is anticipated the wide spectrum of experience in the room will generate innovative ideas on this topic.

**Workshop Objectives**

The anticipated attendees will represent the industry across the Asia Pacific region; with attendance from both Operators and Contractors. Through a range of experiences from different organisations, the workshop will enable:

- sharing global views and positive impacts that are already being realised;
- generating new ideas on how we can continue to improve female participation and retention at all levels – early career, mid-career and executive/C-suite;
- improving internal policies – diversity is already in place but how to take it to the next level?
- retaining talent in the industry to overcome the challenge of talent gap in the industry

**Who Should Attend**

- Managers interested in learning and creating positive impact in managing talent and a diverse workforce
- HR Practitioners / Career Managers who can benefit from having a diverse workforce
- Female and males who are supportive of increasing female participation at all levels
- Young Professionals to share their thoughts and ideas with industry leaders

**Benefits of Attending this Workshop**

- Participate in working sessions to share or learn through experience across the Asia Pacific region
- Involve in a working group that generates ideas on how to improve female participation and retention
- Advocate gender diversity in the Asia Pacific Oil and Gas / Energy sectors

**Preferential Registration Rates and Group Registration Package**

*If you and/or your colleagues are interested in attending more than one of the training courses/workshops being organised by SPE in Kuala Lumpur, Malaysia the week of 9-14 August 2015, please contact Stephanie Gillett at email: sgillett@spe.org or telephone: +60.3.2182.3141, for further information about preferential registration rates and group registration packages.*
Advance Registration Options

Online Registration – Please visit the SPE website at www.spe.org/events/eorc/2015.
1. Fax/Mail – Please complete and fax or mail the Advance Registration Form with payment information (telegraphic transfer or credit card) to SPE Asia Pacific Office (Kuala Lumpur).

Conference materials and badges may be collected at the Conference Registration Counter at Basement II foyer of the Shangri-La Hotel during registration hours.

Payment Details

All registration fees are payable in U.S. Dollars. Advance registration payment can be made by:
1. Credit Card (will be charged in U.S. Dollars only) – American Express, Master Card, Visa, and Diners Club.
2. Telegraphic Transfer (bank details will be provided on the tax invoice).

On-Site Registration

Delegates may register on-site at the Conference Registration Counter, Basement II foyer, Shangri-La Hotel Kuala Lumpur during the following registration hours:

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<tr>
<td>Monday, 10 August</td>
<td>1200 - 1800 hours</td>
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<tr>
<td>Tuesday, 11 August</td>
<td>0730 - 1800 hours</td>
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<tr>
<td>Wednesday, 12 August</td>
<td>0730 - 1800 hours</td>
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<tr>
<td>Thursday, 13 August</td>
<td>0730 - 1400 hours</td>
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Registration Package and Fee

Full Conference Registration Fee includes: Admission to all technical sessions, exhibition, coffee breaks, daily luncheons, reception, ePoster sessions and one (1) copy of the CD-ROM Proceedings.

<table>
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<th>Category</th>
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One-Day Registration Fee includes: Admission to all technical sessions, exhibition, coffee breaks, luncheon, reception, and ePoster sessions for the day you have selected.

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Students: Registration is complimentary for students, (with valid student ID) and includes admission to all technical sessions, exhibition, ePoster sessions and coffee breaks. Students are required to fax/email a copy of their current student ID with the registration form, or show their student ID when collecting their badges on-site. Student registration does not include CD-ROM Proceedings or any function tickets.

Visitors: A registration fee of USD65 includes admission to the exhibition for that day only. Visitors are required to submit a copy of their business card when collecting their badge on-site.

CD-ROM Proceedings

Advance registration guarantees one (1) copy of CD-ROM Proceedings which is available for collection at the SPE Customer Service Desk. Additional Proceedings may be pre-ordered on the Advance Registration Form or purchased during registration hours at the conference. Delegates are encouraged to order their Proceedings in advance, as on-site availability is limited.

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Immigration / Visa Requirements

Visitors must be in possession of valid passports or other internationally recognised travel documents, endorsed for travelling to Malaysia, and with a validity period of at least six (6) months beyond the time of stay allowed in Malaysia. Information on visa applications is available at http://www.imi.gov.my/index.php/en/main-services/visa/visa-requirement-by-country. Visa requirements depend on country of origin and last destinations before entering Malaysia. Conference participants should contact their local Malaysian consulate to confirm visa requirements.
## ADVANCE REGISTRATION FORM

**SPE ASIA PACIFIC ENHANCED OIL RECOVERY CONFERENCE**  
**11-13 AUGUST 2015 • SHANGRI-LA HOTEL, KUALA LUMPUR, MALAYSIA**

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

### PARTICIPANT PROFILE

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### FEE PER PERSON | QTY | COST | REGISTRATION

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<thead>
<tr>
<th>By 12 June</th>
<th>After 12 June</th>
<th>Full conference period includes technical sessions, exhibition, coffee breaks, daily luncheons, 20th anniversary celebration reception, ePoster session and one (1) copy of the Digital Proceedings</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD1,060</td>
<td>USD1,165</td>
<td>SPE Member</td>
</tr>
<tr>
<td>USD1,165</td>
<td>USD1,270</td>
<td>Nonmember</td>
</tr>
<tr>
<td>USD980</td>
<td>USD1,085</td>
<td>Presenter/Author/Panelist/Committee/Session Chairperson</td>
</tr>
<tr>
<td>Complimentary</td>
<td>Comp.</td>
<td>Student (With valid college ID only, includes technical sessions and coffee breaks)</td>
</tr>
</tbody>
</table>

### ONE DAY REGISTRATION

<table>
<thead>
<tr>
<th>USD550</th>
<th>USD650</th>
<th>SPE Member</th>
<th>Includes technical sessions, exhibition, ePoster session, coffee breaks and daily luncheon for the day you have selected Indicate Day □ Tuesday □ Wednesday □ Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD635</td>
<td>USD735</td>
<td>Nonmember</td>
<td>Indicate Day □ Tuesday □ Wednesday □ Thursday</td>
</tr>
<tr>
<td>USD65</td>
<td></td>
<td>Visitor</td>
<td>(Exhibition Only) Indicate Day □ Tuesday □ Wednesday □ Thursday</td>
</tr>
</tbody>
</table>

### ADDITIONAL TICKETS AND DIGITAL PROCEEDINGS

<table>
<thead>
<tr>
<th>USD55</th>
<th>Luncheon - Indicate Day □ Tuesday □ Wednesday □ Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD110</td>
<td>Additional Digital Proceedings – SPE Member</td>
</tr>
<tr>
<td>USD160</td>
<td>Additional Digital Proceedings – Nonmember</td>
</tr>
</tbody>
</table>

### TOTAL USD

Registration fees shown inclusive of 6% GST

### ONLINE

[www.spe.org/events/eorc/2015](http://www.spe.org/events/eorc/2015)  
(Credit card registration only)

### PAYMENT OPTIONS

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

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

<table>
<thead>
<tr>
<th>Card Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

Expiry Date (mm/yy)

<table>
<thead>
<tr>
<th>CVV Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

Name as it appears on card

Billing address of card

Zip/Postal code of card

Signature

### CANCELLATION POLICY

- Cancellation in writing must be received by this office no later than 28 July 2015 to receive a refund less USD150 processing fees.
- Cancellation after 28 July 2015 is not eligible for refund.
- No refund if a registrant fails to attend.

**EARLY BIRD REGISTRATION**  
**Deadline: 12 June 2015**

**ADVANCE REGISTRATION**  
**Deadline: 28 July 2015**

**ONLINE**

[www.spe.org/events/eorc/2015](http://www.spe.org/events/eorc/2015)  
(Credit card registration only)

**MAIL**

by 28 July 2015  
SPE-Asia Pacific (M) Sdn. Bhd.  
Level 35, The Gardens South Tower, Mid Valley City  
Lingkaran Syed Putra  
59200 Kuala Lumpur  
Malaysia

**TEL**  
+60.3.2182.3000

**FAX**  
+60.3.2182.3030  
(If Fax, do NOT Mail Original)

**EMAIL**

spekl@spe.org
TRAINING COURSE REGISTRATION FORM

IN CONJUNCTION WITH
SPE ASIA PACIFIC ENHANCED OIL RECOVERY CONFERENCE
13-14 AUGUST 2015 │ SHERATON IMPERIAL, KUALA LUMPUR, MALAYSIA

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

### PARTICIPANT PROFILE

<table>
<thead>
<tr>
<th>Registrant's First Name (Forename):</th>
<th>Registrant's Last Name (Family Name):</th>
<th>Early Bird Registration Deadline: 12 June 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company:</td>
<td>Job Title or Position:</td>
<td>Advanced Registration Deadline: 28 July 2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P.O. Box or Street Address:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>City:</th>
<th>State/ Province:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Country:</th>
<th>Zip/Postal Code:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Office Telephone: (Include country/city code)</th>
<th>Facsimile: (Include country/city code)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Email Address:</th>
</tr>
</thead>
</table>

| SPE Member: □ Yes □ No | SPE Membership Number: _______________________
|------------------------|

### Cancellation Policy:

- Cancellation in writing must be received by this office no later than 28 July 2015 to receive a refund less USD150 processing fees.
- Cancellation after 28 July 2015 is not eligible for refund.
- No refund if a registrant fails to attend.

### TRAINING COURSES

(Please select the appropriate box)

<table>
<thead>
<tr>
<th>Training Course A (13 – 14 August 2015): Fractional Flow Methods for Modelling Enhanced Oil Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>↗ Early Bird Registration On/Before 12 June 2015 ₹ USD 1,800 USD 2,000 ₹ USD 1,900 USD 2,100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Training Course B (13 – 14 August 2015): An Overview of Heavy Oil Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>↗ Registration After 12 June 2015 ₹ USD 1,800 USD 2,000 ₹ USD 1,900 USD 2,100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Training Course C (13 – 14 August 2015): Integrated EOR Modelling</th>
</tr>
</thead>
<tbody>
<tr>
<td>↗ ₹ USD 1,800 USD 2,000 ₹ USD 1,900 USD 2,100</td>
</tr>
</tbody>
</table>

- Registration fees shown are inclusive of 6% GST
- Fee includes course registration, training material, certificate of attendance, daily luncheon and coffee breaks
- Should any of the courses’ registration be insufficient within 30 days of course dates; SPE reserves the right to cancel the course

### ONLINE

[www.spe.org/events/eorc/2015](http://www.spe.org/events/eorc/2015)

(credit card registration only)

### PAYMENT OPTIONS

- □ Telegraphic Transfer (Bank details will be provided on the tax invoice)
- □ American Express □ Diners Club □ Master Card □ Visa

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

<table>
<thead>
<tr>
<th>Card Number</th>
<th>CVV Code</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Expiry Date (mm/yy)</th>
</tr>
</thead>
</table>

Name as it appears on card ________________________________
Total Amount ________________________________

Billing address of card ________________________________
Zip/Postal code of card ________________________________

Signature ________________________________

REGISTRANTS ARE ENCOURAGED TO ADVANCE REGISTER
**HOTEL RESERVATIONS FORM**  
SPE ASIA PACIFIC ENHANCED OIL RECOVERY CONFERENCE  
11-13 AUGUST 2015 │SHANGRI-LA HOTEL, KUALA LUMPUR, MALAYSIA

**To Reserve Your Room, Mail or Fax to:**  
SHANGRI-LA HOTEL KUALA LUMPUR, MALAYSIA  
Attn: Reservation Department, Shangri-La Hotel, Kuala Lumpur  
Tel: 603 20268488  
Fax: 603 20321245  
Email: reservations.skl@shangri-la.com

PLEASE SEND THIS FORM BY FAX OR E-MAIL DIRECTLY TO THE HOTEL ON OR BEFORE **10 July 2015**

<table>
<thead>
<tr>
<th>Guest Name</th>
<th>Surname</th>
<th>First Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>______________________________________________________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Address</th>
<th>Street address or PO Box No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City/ State</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tel No</th>
<th>Fax No</th>
<th>E-Mail:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arrival Date</th>
<th>Flight No</th>
<th>Time:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Departure Date</th>
<th>Flight No</th>
<th>Time:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No of Room (s)</th>
<th>No of Guest (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Room Category</th>
<th>Single Occupancy Room Rates</th>
<th>Double Occupancy Room Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deluxe Room</td>
<td>RM 535.00++ ( )</td>
<td>RM 585.00++ ( )</td>
</tr>
<tr>
<td>Executive Room</td>
<td>RM 570.00++ ( )</td>
<td>RM 620.00++ ( )</td>
</tr>
<tr>
<td>Horizon Executive Room</td>
<td>RM 720.00++ ( )</td>
<td>RM 770.00++ ( )</td>
</tr>
<tr>
<td>Executive Suite</td>
<td>RM1,250.00++ ( )</td>
<td>RM1,250.00++ ( )</td>
</tr>
<tr>
<td>Premier Selection Suite</td>
<td>RM1,400.00++ ( )</td>
<td>RM1,400.00++ ( )</td>
</tr>
</tbody>
</table>

**Special Request**  
(Subject to availability)  
Non-Smoking ( )  
King Bed ( )  
Twin Bed ( )

- Above room rates are subject to 10% service charge and GST at 6%
- Horizon Executive / Executive Suite / Premier Selection Suite are inclusive of Horizon Club Benefits

**Airport Pick-Up Arrangement**  
Please provide flight details for transfer arrangement

<table>
<thead>
<tr>
<th>Mercedes E-Class (RM330.00 + 6% GST per car per way)</th>
<th>KLIA Airport - Hotel</th>
<th>Hotel – KLIA Airport</th>
<th>2-Way Airport Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>( )</td>
<td>( )</td>
<td>( )</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MPV Alphard / Vellfire (RM410.00 + 6% GST per car per way)</th>
<th>KLIA Airport - Hotel</th>
<th>Hotel – KLIA Airport</th>
<th>2-Way Airport Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>( )</td>
<td>( )</td>
<td>( )</td>
<td></td>
</tr>
</tbody>
</table>

Room Cancellation Info  
Cancellation of individual reservations must be received before 72 hours prior to the arrival day to avoid a penalty of the full reserved stay. Shorten stay will subject to the full reserved stay.

No Show Clause  
No shows will result in a late cancellation charge equivalent to full duration of stay.

Credit Card Guarantee  
Please provide the credit card details to secure the room reservation.

Credit card type  
VISA ( )  
MASTER ( )  
DINERS ( )  
JCB ( )  
AMEX ( )  
For AMEX please provide the I/D No: _______________

Terms & Conditions
- Delegates who wish to occupy their Guest Room before 1400 hours must reserve the Guest Room for a night prior to the arrival date.
- Delegates who check out after the official Check-out time of 1200 hours shall be charged for additional night under the Daily Room Rate.
- Any flight changes must be advised at least 24 hours prior to arrival.
PLEASE SEND THIS FORM BY FAX OR E-MAIL DIRECTLY TO THE HOTEL ON OR BEFORE 10 July 2015

Guest Name ______________________________          ____________________________________
Surname    First Name
Company              _______________________________________________________________________
Business Address_______________________________________________________________

Street address or PO Box No ________________________________          ____________________________________
City/ State    Country
Tel No                   _________________ Fax No ___________________ E-Mail: _____________________

Arrival Date __________________ Flight No ____________________ Time: __________

Departure Date  __________________ Flight No ____________________ Time: ____________________

No of Room (s) ______________________________ No of Guest (s) _______________________

Room Category Single Occupancy Room Rates Double Occupancy Room Rates
Deluxe Room RM 535.00++ (     ) RM 585.00++ (     )
Executive Room RM 570.00++ (     ) RM 620.00++ (     )
Horizon Executive Room RM 720.00++ (     ) RM 770.00++ (     )
Executive Suite RM1,250.00++ (     ) RM1,250.00++ (     )
Premier Selection Suite RM1,400.00++ (     ) RM1,400.00++ (     )

Special Request (Subject to availability) Non-Smoking   (     ) King Bed (     ) Twin Bed (     )

• Above room rates are subject to 10% service charge and GST at 6%
• Horizon Executive / Executive Suite / Premier Selection Suite are inclusive of Horizon Club Benefits

Airport Pick-Up Arrangement (please provide flight details for transfer arrangement)

Airport Representative will be waiting at passenger arrival exit with placard of Shangri-La Hotel Logo. In the event that you do not see our Airport Representative, please contact Information Counter Service for assistance. (A surcharge of 50% - exclusive 6% GST will be levied for transfer between 11.00pm and 6.00am) and the rate transfer are subject to change without prior notice. For no show or cancellation made within 2 hours prior to arrival, full penalty charge will be applied.

Mercedes E-Class (RM330.00 + 6% GST per car per way)
(     ) KLIA Airport - Hotel (     ) Hotel – KLIA Airport (     ) 2-Way Airport Transfer
MPV Alphard / Vellfire (RM410.00 + 6% GST per car per way)
(     ) KLIA Airport - Hotel (     ) Hotel – KLIA Airport (     ) 2-Way Airport Transfer

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Credit Card Guarantee  Please provide the credit card details to secure the room reservation.

Credit card type  VISA (        )  MASTER (          )     DINERS (           )
JCB    (          )                     AMEX      (          )
For AMEX please provide the I/D No: _______________

Credit Card No ___________________________________________    Expiry Date _________________

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Attn: Reservation Department, Shangri-La Hotel, Kuala Lumpur
Tel: 603 20268488                  Fax: 603 20321245
Email: reservations.slkl@shangri-la.com

UPCOMING FORUM AND TRAINING COURSES

Forum
Drilling Window Prediction and Real-Time Management: Getting It Right the First Time

Training Courses
Artificial Lift and Production Optimisation Solutions
Comprehensive Zonal Isolation with a Thorough Strategy
Advanced Completion Technology: Intelligent Wells, ICD’s and AICD’s
A Cost Effective Approach to Basic Drilling
A Proactive Approach to Ensure Well Integrity During the Construction and Operations of Wells
Maximising the Remaining Project Value for Producing Offshore Oilfields
Fractional Flow Methods for Modelling Enhanced Oil Recovery

For more information, please visit www.spe.org or email us at ad@spe.org
APPLIED TECHNOLOGY WORKSHOPS

Advanced Completion Technologies for Challenging Fields
7-10 June 2015 • Penang, Malaysia

Young Professionals Workshop
9-11 August 2015 • Kuala Lumpur, Malaysia

A Call to Action: Bringing Gender Diversity to the Next Level Workshop
13-14 August 2015 • Kuala Lumpur, Malaysia

Integrated Production Modelling – Maximising Asset Value
16-19 August 2015 • Perth, Australia

Reservoir Testing to Add Production Value
2-5 September 2015 • Bali, Indonesia

Maximising Value in Marginal and Brown Fields – Cost Management
6-9 September 2015 • Penang, Malaysia

Tight Reservoir
27-30 October 2015 • Jakarta, Indonesia

Optimal Use of Core Analysis for Reservoir Characterisation
22-25 November 2015 • Singapore

Petrophysics Meets Reservoir Engineers: Enriching the Value of Integrated Reservoir
22-25 November 2015 • Singapore

Project Management – Economics, Risk Assessment and Managements Uncertainty
November 2015 • Bangkok, Thailand

Process & Operational Safety
6-9 December 2015 • Kuala Lumpur, Malaysia

CONFERENCES

Asia Pacific Oil & Gas Conference and Exhibition
20-22 October 2015 • Bali, Indonesia

SPE Asia Pacific Unconventional Resources Conference and Exhibition
9-11 November 2015 • Brisbane, Australia

Offshore Technology Conference Asia
22-25 March 2016 • Kuala Lumpur, Malaysia

IADC/SPE Asia Pacific Drilling Technology Conference
22-24 August 2016 • Singapore

Asia Pacific Oil & Gas Conference and Exhibition
25-27 October 2016 • Perth, Australia

10th International Petroleum Technology Conference
14-16 November 2016 • Bangkok, Thailand

Website: www.spe.org