



Society of Petroleum Engineers

## TECHNICAL PROGRAM COMMITTEE

**Rashidah Karim**  
(Co-Chairperson)  
PETRONAS Carigali Sdn. Bhd.

**Sharifudin Salahudin**  
(Co-Chairperson)  
Halliburton Energy Services

**Pauziah Abdul Hamid**  
PETRONAS Research Sdn. Bhd.

**Ernie Brown**  
Schlumberger Middle East

**Stuart Carnell**  
Santos Ltd.

**Rudy de Grood**  
Baker Hughes Inc.

**Ray Harrington**  
Well-Flow Intl. Ltd.

**Campbell Kinnear**  
Chevron Corp.

**Fabian Loh**  
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**Mohamad Zaini Mohamad Nor-Yusoff**  
PETRONAS

**Patrick Moran**  
Murphy Oil Co. Ltd.

**Azmukiff Muhammed Kifli**  
PETRONAS

**Phil Navage**  
Well-Flow Intl. Ltd.

**Brent Sinanan**  
Hess Corp.

**Walrick Van Zandvoord**  
Sarawak Shell Bhd.

**Suzalina Zainal**  
PETRONAS Research Sdn. Bhd.

## SPE Applied Technology Workshop

11-14 October 2009  
Eastern & Oriental Hotel  
Penang, Malaysia

# PRODUCTION ENHANCEMENT - MAXIMISING PRODUCTION AND RECOVERY IN A CHALLENGING ECONOMIC CLIMATE

Registration deadline:  
**11 September 2009**  
For Early Discount  
Apply inside or online  
at [www.spe.org/atws](http://www.spe.org/atws)

## WORKSHOP DESCRIPTION

E&P economics changed dramatically in the last quarter of 2008 impacting investment decisions on major E&P activities. In this challenging economic climate, operators realise the value of maximising production and recovery by employing production enhancement technologies developed and matured through the years. Production enhancement technologies had been developed and applied since the late nineties with significant growth in stimulation, reservoir management and well intervention. In fact, well stimulation, including hydraulic fracturing was voted the most important technology in a recent semi-annual survey of 357 E&P Operators (Oil & Gas Journal Dec.20th 2008), surpassing horizontal drilling and 3D and 4D Seismic. The impetus for this stems from development opportunities in poor quality reservoirs. This workshop will provide the platform for industry experts and practitioners to discuss, challenge and exploit production enhancement technologies and strategies to their benefit in the current reality.

## WORKSHOP FOCUS AND OBJECTIVES

This Applied Technology Workshop will provide excellent networking opportunities for sharing of latest technologies, applications, best practices and related technologies in production enhancement. Topics that are expected to facilitate discussion would include, amongst others:

- Quantifying the Value of Production Enhancement / Well Stimulation
- Advances in Proppant and Acid Fracturing Technology
- Advances in Matrix Stimulation
- Minimising Unwanted Fluid Production and Improving Hydrocarbon Production
- Advances in Stimulation and Well Intervention Equipment
- Application and Placement Tools, Coiled Tubing, etc.
- Evaluation Technologies and Optimization

## WHO SHOULD ATTEND

The Workshop will be of interest to reservoir engineers, production technologists, production engineers, completion engineers and application engineers involved in the extraction and management of oil and gas assets.

Registrants are encouraged to present case studies and other experiences as discussion leaders.

#### Documentation:

1. Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers.
2. Work in progress, new ideas, and interesting projects are sought.
3. Professionally-prepared visual aids are not required; handwritten viewgraphs are entirely acceptable.
4. Note-taking by participants is encouraged. However, to ensure free and open discussions, no formal records will be kept.

#### Workshop Deliverables:

- The committee will prepare a full report containing the highlights of the Workshop discussions. This report will be circulated to all attendees. A one-page summary will be prepared by the Workshop Co-Chairperson, which will be posted on the SPE Web Site, and published in the Journal of Petroleum Technology (JPT), if space permits. The copyright of the summary report will belong to SPE.
- PowerPoint presentation materials will be posted on a specific SPE URL address after the Workshop. Provision of the materials by the discussion leaders will signify their permission for SPE to do so.

#### Commercialism:

In keeping with ATW objectives and the SPE mission, excessive commercialism in posters or presentations will not be permitted. Company logos must be limited to the title slide and used only to indicate the affiliation of the presenter and others involved in the work.

#### Registration Fees:

##### Early Bird Registration Deadline: 11 August 2009

- **SPE MEMBER : RM 8,100.00 (US\$2,250.00)/person on/before 11 August 2009**
- **NONMEMBER : RM 8,460.00 (US\$2,350.00)/person on/before 11 August 2009**

##### Registration Deadline: 11 September 2009

- **SPE MEMBER : RM 8,460.00 (US\$2,350.00)/person on/before 11 September 2009**
- **NONMEMBER : RM 8,820.00 (US\$2,450.00)/person on/before 11 September 2009**

#### Fee includes the following:

- Three-day registration fee for all Workshop sessions;
- Three nights accommodation based on single occupancy with arrival Sunday, 11 October 2009 and departure Wednesday, 14 October 2009;
- Welcome reception followed by dinner (Sunday evening);
- Three meals per day except on Wednesday;
- Daily coffee/tea breaks;
- Workshop Workbook and Certificate of Continuing Education Units (CEU).

**Note:** Registration fee does not include hotel accommodation and meal costs for additional family member(s).

#### Registration Policy:

- Registration fee **MUST** be paid in advance for attending the Applied Technology Workshop.
- Full fixed fee is charged regardless of the length of time that the registrant attends the Workshop.

- Fixed fee cannot be prorated or reduced for anyone (Workshop chairpersons, committee members, speakers, discussion leaders, students and registrants).
- Workshop is designed to be fully residential. Attendees are expected to attend all Workshop sessions and are not permitted to attend on a partial basis.

#### Cancellation & Refund Policy:

- A full refund less **RM540.00 (US\$150.00)** processing fee will be charged for cancellation received before the registration deadline **11 September 2009**.
- For cancellation received after the registration deadline **11 September 2009**, 25% refund will be made to the registrant.
- No refund on cancellation received seven (7) days prior to the starting of the Workshop date, on or after **4 October 2009**.
- Substitutions will not be accepted without prior Programme Committee approval.
- **No refund** will be issued if a registrant fails to show up at the Workshop on-site.

#### Attendance Certificate:

All attendees will receive an attendance certificate attesting to their participation at the Workshop. This certificate will be provided in exchange for a completed Workshop Questionnaire.

#### Continuing Education Units:

This workshop qualifies for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the ATW.

#### Workshop Venue:

##### Eastern & Oriental Hotel

10 Lebuhr Farquhar  
10200 Penang, Malaysia  
Tel: 60.4.2222.000 • Fax: 60.4.2616.333  
Website : [www.e-o-hotel.com](http://www.e-o-hotel.com)

#### Attendees' Information:

General and detailed accommodation information will be forwarded to registrants with the attendee package prior to the scheduled Workshop in August 2009.

#### Dress Code:

Casual clothing is recommended. The Workshop atmosphere is informal.

#### Transportation/Visa:

Delegates are advised to book their international/domestic airline tickets early from their country/city to Penang, Malaysia. Further detailed transportation information will be available and included in the attendee package, which will be sent to registrants in August 2009.

All travellers to Malaysia must be in possession of passports valid for at least six (6) months with proof of onward passage, either return, or through tickets. Contact your local travel agent for information on visa requirements to Malaysia.

**ATTENTION NON-MEMBERS:  
JOIN SPE DURING THIS WORKSHOP AND RECEIVE  
YOUR FIRST YEAR'S MEMBERSHIP FREE!  
SUBMIT YOUR MEMBERSHIP APPLICATION ONSITE!**

**PRODUCTION ENHANCEMENT - MAXIMISING PRODUCTION AND RECOVERY IN A CHALLENGING ECONOMIC CLIMATE****Preliminary Daily Activities Agenda**

*Note: While every attempt will be made to adhere to the schedule, the status/availabilities of session topics, discussion leaders and moderators are subject to change. For updated technical agenda information, please visit the SPE website at [www.spe.org/atws](http://www.spe.org/atws).*

**Sunday, 11 October 2009**

- 9:00 a.m. – 12:00 p.m. Programme Committee Meeting  
 3:00 p.m. Hotel Check-in  
 4:00 p.m. – 7:00 p.m. SPE Registration/Poster Set-Up  
 6:00 p.m. – 7:00 p.m. Discussion Leaders and Session Managers/Moderators Briefing  
 7:30 p.m. – 9:30 p.m. Welcome Reception/Dinner

**Monday, 12 October 2009**

- 7:30 a.m. – 8:30 a.m. Breakfast  
 8:30 a.m. – 9:30 a.m. **Session 1: Introduction/Welcome/Keynote Address**  
 9:30 a.m. – 10:00 a.m. Group Photo/Coffee Break  
 10:00 a.m. – 12:00 p.m. **Session 2: Business Value**  
 • Economics in \$30 Environment  
 • Drive Activity Cost Down  
 • Improve Uptime  
 • Maximising Recoverable Reserves  
 • Maximising Production  
 12:00 p.m. – 1:00 p.m. Lunch  
 1:00 p.m. – 3:00 p.m. **Session 3: Production Enhancement I**  
 • Re-Completing Bypassed Pay  
 • Re-Completions to Increase Production  
 • Maximising Reservoir Contact  
 • Re-Perforating/Perforating  
 3:00 p.m. – 3:15 p.m. Coffee Break  
 3:15 p.m. – 5:15 p.m. **Session 4: Production Enhancement II**  
 • Fracturing (Tight Reservoir, Bypass Skin & Carbonate Fracturing)  
 • Matrix Stimulation  
 5:15 p.m. – 6:15 p.m. **Session 5: Poster Session**  
 7:00 p.m. – 9:00 p.m. Group Dinner

**Tuesday, 13 October 2009**

- 7:30 a.m. – 8:30 a.m. Breakfast  
 8:30 a.m. – 10:30 a.m. **Session 6: Production Related Remediation**  
 • Diagnosis and Solution (Sand/Fines Mitigation; Scale/Asphaltene/Wax; Minimization of Unwanted Gas/Water Production; In-Flow Control Devices; Water and Gas Shut-Off)  
 10:30 a.m. – 10:45 a.m. Coffee Break  
 10:45 a.m. – 12:45 p.m. **Session 7: Artificial Lift**  
 • Reservoir Pressure Maintenance  
 • Optimisation  
 • Condensate Foaming  
 • Dewatering Gas Wells  
 • Real Time Production Optimisation  
 12:45 p.m. – 1:45 p.m. Lunch  
 1:45 p.m. – 3:45 p.m. **Session 8: Surface Facilities**  
 • Compressors  
 • Pipeline/Process  
 • Optimisation/Debottlenecking  
 • Surface Sand Management (Cyclone Desanders)  
 3:45 p.m. – 4:00 p.m. Coffee Break  
 4:00 p.m. – 6:00 p.m. **Session 9: Production Management/Optimisation**  
 • Smart Well  
 • Monitoring  
 • Work Flows/Problem Well Identification  
 • Wireless Technology  
 • Integrated Production System Models  
 7:00 p.m. – 9:00 p.m. Group Dinner

**PRODUCTION ENHANCEMENT - MAXIMISING PRODUCTION AND RECOVERY IN A CHALLENGING ECONOMIC CLIMATE****Wednesday, 14 October 2009**

7:30 a.m.	–	8:30 a.m.	Breakfast
8:30 a.m.	–	10:30 a.m.	<b>Session 10: Breakout Session</b>
10:30 a.m.	–	10:45 a.m.	Coffee Break
10:45 a.m.	–	12:00 p.m.	<b>Session 11: Breakout Session Presentations</b>
12:00 p.m.	–	12:30 p.m.	<b>Session 12: Summary and Wrap-up</b>
12:30 p.m.	–	1:30 p.m.	Lunch
Afternoon			Rest & Recreation/Networking Opportunities/Hotel Check-Out

**Poster Solicitation and Information**

As an adjunct to the scheduled presentations, the Programme Committee will incorporate a poster presentation session in this Workshop. The poster session will allow participants an opportunity to present additional new ideas to those interested. The poster session is scheduled from **5.15 p.m.-6.15 p.m. on Monday, 12 October 2009**.

All participants are encouraged to prepare and bring a poster presentation to the Workshop. Posters will be on display for the entire Workshop period and provide participants an excellent opportunity for networking.

As with the session discussions, the poster session will be conducted off the record to encourage frank discussion and presentation of unconfirmed or partial results. Presentations on both research and field experience are solicited.

**SPE WORKSHOPS AND COMMERCIALISM**

The Workshop Programme Committee has a stated policy against the use of commercial trade names, company logos, or language that is commercial in tone. **Note that the Workshop Programme Committee will review all posters prior to display, and reserves the right to refuse permission to display any poster considered by the committee to be commercial in nature.**

The poster display should be designed for eye-level viewing and made from simple graphic materials. Size of the poster board will be advised at a later time.

The poster display may include printed materials, tables, graphs, photographs, or illustrations. All the materials should be of sufficient size so as to be easily read and should be prepared in a manner that will accomplish the following:

- Identify topic by title, presenter, affiliation, address, and phone number.
- Include a brief abstract that summarises the technology to be addressed.
- Make the display as self-explanatory as possible.
- Place the information sequentially; beginning with the main idea or problem, method used, result, etc. (Draw a plan keeping the size and number of illustrations in mind).
- Keep illustrations simple by using charts, graphs, drawings, and pictures to create interest and visually explain a point.
- Use contrasting colours.
- Use large print for narrative materials. (We suggest a minimum of 24 points or 3" high letters for the title).

Whether or not you elect to participate in the poster session or have been invited by the Programme Committee to present during one of the regular sessions, please come prepared to participate actively in the discussions. Open interaction will be encouraged. With the full cooperation and participation of all attendees, we anticipate an outstanding Workshop.

**PRODUCTION ENHANCEMENT - MAXIMISING PRODUCTION AND RECOVERY IN A CHALLENGING ECONOMIC CLIMATE**

**Poster Participation Form**

You are invited to prepare a poster display for presentation. If you are interested in participating, please complete the form and return it to the SPE Asia Pacific Office (Kuala Lumpur, Malaysia), address as indicated below by **11 September 2009**.

(Please print in black ink)

**DATE:** \_\_\_\_\_

**SPE Member:**  Yes Membership No. \_\_\_\_\_  No

**NAME:** \_\_\_\_\_

**POSITION:** \_\_\_\_\_

**COMPANY:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_ **FAX:** \_\_\_\_\_

**E-MAIL ADDRESS:** \_\_\_\_\_

**Please provide the topic with a short abstract of the proposed poster:**

**Topic:** \_\_\_\_\_

**Abstract:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PLEASE RETURN THE POSTER PARTICIPATION FORM BY 11 September 2009 TO:**  
Jenny Chong, Senior Manager - Operations  
Society of Petroleum Engineers  
Suite 23-02, Level 23, Centrepoin South, Mid Valley City  
Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia  
Tel: 60.3.2288.1233 • Fax: 60.3.2284.9220  
E-mail: [jchong@spe.org](mailto:jchong@spe.org) • Web Site: [www.spe.org](http://www.spe.org)

**PRODUCTION ENHANCEMENT - MAXIMISING PRODUCTION AND RECOVERY IN A CHALLENGING ECONOMIC CLIMATE****Registration Form**

Please Print or Type in Black Ink

SPE Member:  Yes Membership No. \_\_\_\_\_  NoName: \_\_\_\_\_  
(First/Forename) (Middle) (Last/Family Name)

Position: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Town/City: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Would you be willing to give a brief (10 minute) presentation \_\_\_\_ (Yes/No)**

If yes, please provide a title and a detailed description of the presentation in the space below. (Use additional paper if required). One of the Programme Committee members will contact you to discuss your presentation.

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**Important:** Registrants for SPE Applied Technology Workshops are accepted on the basis of information submitted by each registrant.**Technical Disciplines (Check One)**

- |  |  |
|--|--|
| <input type="checkbox"/> Drilling and Completions              | <input type="checkbox"/> Health, Safety, Security, Environment and Social Responsibility |
| <input type="checkbox"/> Management and Information            | <input type="checkbox"/> Production and Operations                                       |
| <input type="checkbox"/> Projects, Facilities and Construction | <input type="checkbox"/> Reservoir Description and Dynamics                              |

**Primary Responsibility (Check One)**

- |   |                                    |                                    |                                     |                                       |
|---|------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> Asset Management | <input type="checkbox"/> Economics | <input type="checkbox"/> Drilling  | <input type="checkbox"/> Geology    | <input type="checkbox"/> Geophysics   |
| <input type="checkbox"/> Production       | <input type="checkbox"/> Operation | <input type="checkbox"/> Reservoir | <input type="checkbox"/> Management | <input type="checkbox"/> Others _____ |

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

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

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**REGISTRATION FEES: (Please select appropriate box)****Early Bird Registration Deadline: 11 August 2009**

- SPE MEMBER : RM 8,100.00 (US\$2,250.00)/person on/before 11 August 2009**
- NONMEMBER : RM 8,460.00 (US\$2,350.00)/person on/before 11 August 2009**

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- NONMEMBER : RM 8,820.00 (US\$2,450.00)/person on/before 11 September 2009**

*Fee includes workshop registration, workbooks, certificate, 3 nights **SINGLE** accommodation with daily breakfast, 1-welcome reception/dinner, 3 luncheons, 2 dinners and daily coffee breaks.*

**PAYMENT BY CHEQUE**

- Malaysian Ringgit Cheque to **SPE-Asia Pacific (M) Sdn. Bhd.**
- U.S. Dollars Cheque to **Society of Petroleum Engineers.**
- Payment Enclosed (Check No. \_\_\_\_\_)

**PAYMENT BY CREDIT CARD**

Credit Card Payment will be in U.S. Dollars only

- |   |                                      |
|---|--------------------------------------|
| <input type="checkbox"/> American Express | <input type="checkbox"/> Master Card |
| <input type="checkbox"/> Visa             | <input type="checkbox"/> Diners Club |

(Discover Cards are not accepted)

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Card Number

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Exp. Date

Signature (as it appears on your credit card)

Name as it appears on Card \_\_\_\_\_

Billing address of Card \_\_\_\_\_

Zipcode/Postal Code of Card \_\_\_\_\_

**Note: Forms will not be processed and space cannot be guaranteed unless accompanied by payment for total amount due.****CANCELLATION POLICY:**

- a) A full refund less **RM540.00 (US\$150.00)** processing fee will be charged for cancellation received before the registration deadline, **11 September 2009.**
- b) For cancellation received after the registration deadline, **11 September 2009**, 25% refund will be made to the registrant.
- c) **No refund** on cancellation received seven (7) days, **4 October 2009**, prior to the starting of the Workshop date.
- d) Substitutions will not be accepted without prior Programme Committee approval.
- e) **No refund** will be issued if a registrant fails to show up at the Workshop on-site.

**THIS FORM MAY BE USED AS A COMPANY INVOICE**

Mail completed registration form with remittance and any supporting material to:  
**Society of Petroleum Engineers**  
 Suite 23-02, Level 23, Centrepont South, Mid Valley City  
 Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia  
 Tel: +60.3.2288.1233 • Fax: +60.3.2284.9220 • E-mail: spekl@spe.org

**To submit your registration online, please visit the SPE website at [www.spe.org](http://www.spe.org)**  
**The online payments are secured by VeriSign. (Credit Card Registration Only)**