



Society of Petroleum Engineers

## TECHNICAL PROGRAM COMMITTEE

**Raymond Tibbles**  
(Co-Chairperson)  
Schlumberger

**Michael Bailey**  
(Co-Chairperson)  
ConocoPhillips Co.

**Michael Boyer**  
Swellfix Asia Pacific

**Graeme Dowsett**  
Completion Products Pte. Ltd.

**Von Henderson**  
Baker Oil Tools

**Hon Vai Yee**  
PETRONAS Research Sdn. Bhd.

**Ronald Horner**  
Chevron Corp.

**Iain Jennings**  
Enventure Global Technology

**Ian Mickelburgh**  
Schlumberger

**Sharifudin Salahudin**  
Halliburton Energy Services

**Mohamad Syukairy Supian**  
PETRONAS Carigali Sdn. Bhd.

2-5 November 2008  
Eastern & Oriental Hotel  
Penang, Malaysia

## SPE Applied Technology Workshop

# CHASING LOST RESERVES WITH REMEDIAL AND SLIM HOLE SAND CONTROL

Registration deadline:  
**2 October 2008**  
For Early Discount  
Apply inside or online  
at [www.spe.org/atws](http://www.spe.org/atws)

## Workshop Description

**Remedial and Slim Hole Sand Control Completions** have become a focus of interest for many operators due to the recent significant **improvement in economics** of intervention operations to extract remaining reserves within existing reservoirs. These completion types are used when sand control needs to be installed in existing wells as a remedial solution or when slim hole completions are required to access isolated reserves within unconsolidated reservoirs. In addition to the application of established techniques, the current oil and gas prices opens the window for application of recent and developing technologies in remedial and slim hole sand control completions.

The workshop will discuss a range of techniques that may be considered for interventions:

- Through tubing techniques that can get wells back online either permanently or until a rig is available.
- Heavy work-over interventions to drill and complete slim hole sidetracks from existing well bores.
- Both cased and open hole completion scenarios will be considered.

What are the alternative completion techniques for remedial and slim hole sand control? When and how should they be applied? What are the challenges and impact this type of completion creates to future well intervention jobs? What are the risks involved in these completions and what are the potential rewards? Several mechanical options exist, from conventional gravel/frac pack with scaled down tools, to stand alone and expandable screens. Chemical techniques can be used, either on their own or in conjunction with hydraulic fracturing to install screen-less completions. This Workshop will explore all these techniques and evaluate their past effectiveness and future applicability. Case histories of both success and failure will be presented.

This Applied Technology Workshop (ATW) is designed for everyone involved in the planning and decision making process related to sand control in slim holes or for well repair and remediation.

Each session will be conducted in an interactive format where everyone in attendance is expected to participate, both during and outside of each session.

## Workshop Objectives

Sand Control is a balance between reliability of the system, cost, and potential impact on productivity. The remedial and slim hole applications magnify some of the risks but remain profitable options. This Workshop will allow participants involved in remedial and slim hole sand control decisions to:

- Review the appropriate state-of-the-art sand control technology and recent technical advancements.
- Benefit from the experience of other operators and provide access to case histories.
- Establish a network and exchange ideas with fellow participants.
- Discuss real applications that demand a solution.

## Who Should Attend

Production and Completion Engineers, Well Service and Work-Over Engineers and Supervisors, Operators and Technical Managers who are responsible for providing production technology support, completions recommendations for oil and gas assets, and interested in gaining an up-to-date understanding of this continually evolving technology. Participants are strongly encouraged to discuss their own case histories and experiences.

**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: 2 September 2008**

- **SPE MEMBER : RM 7,525.00 (US\$2,150.00)/person on/before 2 September 2008**
- **NONMEMBER : RM 7,875.00 (US\$2,250.00)/person on/before 2 September 2008**

**Registration Deadline: 2 October 2008**

- **SPE MEMBER : RM 7,875.00 (US\$2,250.00)/person on/before 2 October 2008**
- **NONMEMBER : RM 8,225.00 (US\$2,350.00)/person on/before 2 October 2008**

**Fee includes the following:**

- Three-day registration fee for all Workshop sessions;
- Four nights accommodation based on single occupancy with arrival Sunday, 2 November 2008 and departure Thursday, 6 November 2008;
- Welcome reception followed by dinner (Sunday evening);
- Three meals per day except on Tuesday;
- 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 **US\$100.00** processing fee will be charged for cancellation received before the registration deadline **2 October 2008**.
- For cancellation received after the registration deadline **2 October 2008**, 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 **26 October 2008**.
- 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: 6.04.2222.000 • Fax: 6.04.2616.333  
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 September 2008.

**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 September 2008.

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.

**CHASING LOST RESERVES WITH REMEDIAL AND SLIM HOLE SAND CONTROL****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, 2 November 2008**

1:00 p.m. – 4:00 p.m.	Programme Committee Meeting
2:00 p.m.	Hotel Check-in
5:00 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, 3 November 2008**

7:00 a.m. – 8:00 a.m.	Breakfast
8:00 a.m. – 9:30 a.m.	<b>Session 1: Introduction/Opening/Keynote Address</b>
9:30 a.m. – 10:00 a.m.	Group Photo/Coffee Break
10:00 a.m. – 12:00 p.m.	<b>Session 2: Opportunities (Reserves/Productivity/Economics)</b>
	<ul style="list-style-type: none"> <li>• General Overview</li> <li>• Scenarios</li> <li>• Case Studies by Fields</li> <li>• Economics</li> </ul>
12:00 p.m. – 1:00 p.m.	Lunch
1:00 p.m. – 3:00 p.m.	<b>Session 3: Current Remedial Techniques/Practices (Through Tubing)</b>
	<ul style="list-style-type: none"> <li>• Standalone Screen</li> <li>• Gravel Packing/Frac Packing</li> <li>• Formation Consolidation</li> <li>• Screenless Completion</li> <li>• Zonal Isolation/Profile Modification</li> </ul>
3:00 p.m. – 3:15 p.m.	Coffee Break
3:15 p.m. – 5:15 p.m.	<b>Session 4: Current Workover Techniques/Practices</b>
	<ul style="list-style-type: none"> <li>• Standalone Screen (Conventional and Expandable)</li> <li>• Gravel Packing/Frac Packing</li> <li>• Screenless Completion</li> <li>• Zonal Isolation/Profile Modification</li> <li>• Oriented Perforation</li> </ul>
5:15 p.m. – 7:00 p.m.	<b>Session 5: Poster Session</b>
7:00 p.m. – 9:00 p.m.	Group Dinner

**Tuesday, 4 November 2008**

7:00 a.m. – 8:00 a.m.	Breakfast
8:00 a.m. – 10:00 a.m.	<b>Session 6: Failures Case Histories</b>
10:00 a.m. – 10:15 a.m.	Coffee Break
10:15 a.m. – 12:15 p.m.	<b>Session 7: Success Case Histories</b>
	<ul style="list-style-type: none"> <li>• Technical Perspective</li> </ul>
12:15 p.m. – 1:15 p.m.	Lunch
Afternoon	Rest & Recreation/Networking Opportunities/Dinner on own

**Wednesday, 5 November 2008**

7:00 a.m. – 8:00 a.m.	Breakfast
8:00 a.m. – 10:00 a.m.	<b>Session 8: Challenges/Risk of Slim Hole and Remedial Sand Control</b>
	<ul style="list-style-type: none"> <li>• Risk of Losing Reserves/Production</li> <li>• Risk of Pulling Completions</li> <li>• Life Expectancies</li> <li>• Installation Risks</li> <li>• Uncertainty of the Gains/Return on Investment</li> </ul>
10:00 a.m. – 10:15 a.m.	Coffee Break
10:15 a.m. – 12:15 p.m.	<b>Session 9: Side Tracking</b>
	<ul style="list-style-type: none"> <li>• Expandable Tubulars</li> <li>• Cased Hole</li> <li>• Open Hole</li> </ul>
12:15 p.m. – 1:15 p.m.	Lunch
1:15 p.m. – 3:15 p.m.	<b>Session 10: Breakout Session</b>
3:15 p.m. – 3:30 p.m.	Coffee Break
3:30 p.m. – 5:30 p.m.	<b>Session 11: New Developments</b>
	<ul style="list-style-type: none"> <li>• Smart Wells</li> <li>• Inflow Control Devices</li> <li>• Swelling Elastomers</li> </ul>

## CHASING LOST RESERVES WITH REMEDIAL AND SLIM HOLE SAND CONTROL

### Wednesday, 5 November 2008 (cont.)

5:30 p.m. – 6:00 p.m.      **Session 12: Summary & Wrap Up**  
6:30 p.m. – 9:30 p.m.      Group Dinner

### Thursday, 6 November 2008

7:00 a.m. – 10:00 a.m.      Breakfast at Leisure  
12:00 p.m.                      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. – 7:00 p.m. on Monday, 3 November 2008.**

All participants are encouraged to prepare and bring a poster 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 is encouraged. With the full cooperation and participation of all attendees, we anticipate an outstanding Workshop.

**CHASING LOST RESERVES WITH REMEDIAL AND SLIM HOLE SAND CONTROL**

**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 indicated below by **2 October 2008**.

(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:** \_\_\_\_\_

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**PLEASE RETURN THE POSTER PARTICIPATION FORM BY 2 OCTOBER 2008 TO:**

Jenny Chong, Event Coordinator  
Society of Petroleum Engineers  
Suite 23-02, Level 23, Centrepont South, Mid Valley City  
Lingkar Syed Putra, 59200 Kuala Lumpur, Malaysia  
Tel: 60.3.2288.1233 • Fax: 60.3.2282.1220  
E-mail: [jchong@spe.org](mailto:jchong@spe.org) • Web Site: [www.spe.org](http://www.spe.org)

**CHASING LOST RESERVES WITH REMEDIAL AND SLIM HOLE SAND CONTROL****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: \_\_\_\_\_

Email: \_\_\_\_\_

**Would you be willing to give a brief (10 minute) presentation \_\_\_\_ (Yes/No) or a poster 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 Operation  |
| <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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Fee includes workshop registration, workbooks, certificate, 4 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.**

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:**

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- For cancellation received after the registration deadline, **2 October 2008**, 25% refund will be made to the registrant.
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- 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.

**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, Centrepoint South, Mid Valley City

Lingkar 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 on-line, please visit the SPE Web Site at [www.spe.org](http://www.spe.org)  
The online payments are secured by VeriSign.  
(For Credit Card Registration Only)