



CHALLENGES IN DEVELOPING AND OPERATING HIGH CO₂ CONTENT FIELD

1- 4 August 2010 • InterContinental Qingdao, China

Technical Programme Committee

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WORKSHOP DESCRIPTION

This Applied Technology Workshop will discuss the opportunities, challenges, options, solutions, and experiences in developing and operating fields with high CO₂ content.

Workshop participants will identify technical challenges of CO₂ fields and debate key advances whose applications improve production results, economic results, and operational reliability and effectiveness.

The workshop agenda will include the following topics:

1. New technology/Selection of CO₂ removal technology
2. Design and management of facilities with high CO₂
3. Practice of CO₂ flooding for EOR
4. Mechanism of CO₂ corrosion
5. Anti-corrosion measures in CO₂ corrosive environment (including monitoring, inspection)
6. Reservoir management of fields producing high CO₂
7. CO₂ extraction and sequestration Challenges
8. CO₂ risk management and legislation
9. Case studies and application

WORKSHOP OBJECTIVES

This comprehensive and focused 3-day Workshop will allow participants to:

- Identify challenges, strategies, and processes to develop fields with high CO₂ content.
- Identify specific value-adding solutions for fields with CO₂-related issues, including corrosion, as well as CO₂ removal, blending, and/or disposal.
- Discuss barriers in developing, utilising, and exploiting technology through technical sessions and case studies.
- Review the latest technical advancements associated with high CO₂ content field operations.
- Exchange ideas with fellow participants from other companies and countries.
- Share case histories highlighting best practices and lessons learned.

WORKSHOP FORMAT

The workshop is intended for operators, services companies, academics, and government representatives. Some disciplines include engineers (reservoirs, production, completions, subsea, and operations), geologists, management, researchers, and government policy makers.

Participants are expected to actively participate in discussions. Also individuals and organisations are encouraged to contribute in presenting their case studies (successes, failures, and lesson learned) and other experiences for discussion.

REGISTRATION DEADLINE: 15 July 2010

EARLY BIRD REGISTRATION DEADLINE: 26 June 2010

REGISTER EARLY TO SAVE US\$100!

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 Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers.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.

Attendance Certificate:

All attendees will receive an attendance certificate attesting to their participation in 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.

Attendees' Information:

General and detailed accommodation information will be forwarded to registrants with the attendee package prior to the scheduled Workshop, in end July 2010.

Transportation/Visa:

Delegates are advised to book their international/domestic airline tickets early from their country/city to Qingdao, China. Further detailed transportation information will be available and included in the attendee package, which will be sent to registrants in end July 2010.

All travellers to China must be in possession of passports valid for at least six (6) months on arrival. Delegates must hold a visa issued by the appropriate Chinese officials prior to departure from their home countries. Official invitations to apply for Chinese visas for this event are available from the Society of Petroleum Engineers (SPE).

Dress Code:

Casual clothing is recommended. The Workshop atmosphere is informal.

Workshop Venue & Hotel Accommodation:**Intercontinental Qingdao**

No. 98, Ao Men Road, Qingdao, Shandong Province, 26607, China
Tel: 86.532.6656.6666; Fax: 86.532.6656.6888

REGISTRATION FEES:**Early-Bird Registration Deadline: 26 June 2010**

- **SPE MEMBER: US\$ 2,450.00/person**
- **NONMEMBER: US\$ 2,550.00/person**

Registration Deadline 15 July 2010

- **SPE MEMBER: US\$ 2,550.00/person**
- **NONMEMBER: US\$ 2,650.00/person**

Fee includes the following:

- Three-day registration fee for all Workshop sessions;
- Four nights accommodation based on single occupancy with arrival Sunday, 1 August 2010 and departure Thursday, 5 August 2010;
- Welcome reception followed by dinner (Sunday Evening);
- Three meals per day except on Monday and Wednesday;
- Daily coffee/tea-breaks;
- Workshop Workbook and Certificate of Continuing Education Unit (CEU);
- A half-day group outing on Tuesday, 3 August 2010;

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).
- Attendees are expected to attend all Workshop sessions and are not permitted to attend on a partial basis.

Cancellation & Refund Policy:

- A processing fee of **US\$150.00** will be charged for cancellation received before the registration deadline **15 July 2010**.
- For cancellation received after the registration deadline **15 July 2010**, a 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 **25 July 2010**.
- 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.

ATTENTION NON-MEMBERS:

**JOIN SPE DURING THIS WORKSHOP AND RECEIVE
YOUR FIRST YEAR'S MEMBERSHIP FREE!
SUBMIT YOUR MEMBERSHIP APPLICATION ONSITE!**

CHALLENGES IN DEVELOPING AND OPERATING HIGH CO₂ CONTENT FIELD**PRELIMINARY WORKSHOP TIMETABLE**

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.

Sunday, 1 August 2010

1400	hours	Hotel Check-in
1400 – 1600	hours	Programme Committee Meeting
1700 – 1900	hours	SPE Registration/Poster Set-up
1800 – 1900	hours	Discussion Leaders and Session Managers/Moderators Briefing
1900 – 2100	hours	Welcome Reception & Dinner

Monday, 2 August 2010

0700 – 0800	hours	Breakfast
0830 – 0930	hours	Session 1: Introduction/Opening/Keynote Addresses
0930 – 1000	hours	Group Photo/Coffee Break
1000 – 1200	hours	Session 2: New Technology/Selection of CO₂ Removal Technology
1200 – 1330	hours	Lunch
1330 – 1530	hours	Session 3: Design and Management of Facilities with High CO₂
1530 – 1545	hours	Coffee Break
1545 – 1745	hours	Session 4: Practice of CO₂ Flooding for EOR/Reservoir Management of Fields Producing High CO₂
Evening		Dinner on own

Tuesday, 3 August 2010

0700 – 0800	hours	Breakfast
0830 – 1030	hours	Session 5: Anti-Corrosion Measures in CO₂ Corrosive Environment/ Mechanism of CO₂ Corrosion
1030 – 1045	hours	Coffee Break
1045 – 1245	hours	Session 6: Breakout Session
1245 – 1330	hours	Session 7: Poster Session
1330 – 1430	hours	Lunch
1430 – 1800	hours	Group Outing/Networking Opportunity
1830 – 2100	hours	Group Dinner

Wednesday, 4 August 2010

0700 – 0800	hours	Breakfast
0830 – 1030	hours	Session 8: CO₂ Extraction and Sequestration Challenges
1030 – 1045	hours	Coffee Break
1045 – 1245	hours	Session 9: CO₂ Risk Management and Legislation
1245 – 1400	hours	Lunch
1400 – 1600	hours	Session 10: Case Studies and Application
1600 – 1615	hours	Coffee Break
1615 – 1715	hours	Session 11: Summary and Wrap Up
Evening		Dinner on own

Thursday, 5 August 2010

0700 – 1000	hours	Breakfast at Leisure
1200	hours	Hotel Check-Out

**CHALLENGES IN DEVELOPING AND OPERATING HIGH CO₂ CONTENT FIELD
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 **1700 – 1800 hours on Monday, 2 August 2010.**

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 is encouraged. With the full cooperation and participation of all attendees, we anticipate an outstanding Workshop.

