



SPE EOR Conference at

Oil&GasWestAsia

6th Oil, Gas, Refining and Petrochemicals Exhibition and Conference

21-23 APRIL, 2008

GOLDEN TULIP, MUSCAT, SULTANATE OF OMAN



Conference Programme

Under the patronage of the Ministry of Oil and Gas in Sultanate of Oman and the support of Petroleum Development Oman

Society of Petroleum Engineers

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Sustaining success

At PDO, we are intensively applying enhanced oil recovery (EOR) techniques involving heat, chemicals or gas solvents to alter the way fluids flow through underground reservoirs. In fact, we are one of the few companies in the world that can claim to have a major field-development project in each of the three EOR types. We have a thermal project at Qarn Alam, a chemical project at Marmul and a gas-solvent project at Harweel. In the coming years, we plan to continue executing more EOR projects to maximize the value of our oil fields. **We are committed to using advanced technologies to sustainably produce oil and gas.**



WELCOME LETTER



Over half of initial oil in place will remain unrecovered after the completion of the primary and the secondary recovery mechanisms. At a time when there is increasing oil demand globally and the oil price is so high, there is an even bigger push to exploit the remaining oil using enhanced oil recovery (EOR) techniques. The EOR methods of thermal, miscible gas, and chemical (e.g., polymer) have been proven to increase significant oil recovery beyond the primary and the secondary means.

This conference will bring together global experts in all forms of EOR techniques to present, share, and discuss their experiences in the area. It will cover the latest advances in thermal gas and chemical EOR methods, EOR selection criteria, surveillance techniques for locating remaining oil, and drivers and challenges in implementing EOR. It will also bring several field pilots and case studies to the discussion.

The venue will be the Sultanate of Oman, where several EOR projects are underway. Hence, this event presents a great opportunity for practicing engineers and geoscientists involved in E&P work. Sultanate of Oman is proud to host the SPE EOR Conference. On behalf of the programme committee, I welcome you to Muscat and wish you all a successful and enjoyable week.

Saif Al Hinai

2008 SPE EOR Technical Programme Chairperson

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This event is supported by

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Oman Expo



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The SPE EOR Conference is held in conjunction with the 6th Oil and Gas West Asia Exhibition and Conference.



6th Oil, Gas, Refining and Petrochemicals Exhibition and Conference



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SCHEDULE OF EVENTS

Subject to change

Sunday, 20 April

1600–1800 Conference Registration	Golden Tulip Ballroom Foyer
1600–1800 Author Room Open.....	Masirah Room, Golden Tulip Hotel
0800–1800 SPE Student Paper Contest.....	Al Hossen Ballroom B
0900–1600 Short Course.....	Al Hossen Ballroom A

Monday, 21 April

0730–1700 Conference Registration	Golden Tulip Ballroom Foyer
0730–1700 Author Room Open.....	Masirah Room, Golden Tulip Hotel
0730–0900 Welcome Coffee	Golden Tulip Ballroom Foyer
0900–1030 Conference Inauguration	Al Hossen Ballroom
0930–1030 Executive Plenary Session:	
EOR Drivers and Challenges	Al Hossen Ballroom
1000–1800 Technical Exhibition.....	Muscat Exhibition Centre
1030–1200 VIP Exhibit Tour	Muscat Exhibition Centre
1200–1330 Luncheon	Muscat Exhibition Centre
1330–1630 Technical Session 1	Al Hossen Ballroom
1900 Welcome Reception.....	Grand Hyatt Hotel, Muscat

Tuesday, 22 April

0730–1700 Conference Registration	Golden Tulip Ballroom Foyer
0730–1700 Author Room Open.....	Masirah Room, Golden Tulip Hotel
0730–0800 Welcome Coffee	Golden Tulip Ballroom Foyer
0800–1000 Technical Session 2	Al Hossen Ballroom
1000–1800 Technical Exhibition.....	Muscat Exhibition Centre
1000–1030 Coffee Break.....	Golden Tulip Ballroom Foyer
1030–1230 Technical Session 3	Al Hossen Ballroom
1230–1400 Luncheon	Muscat Exhibition Centre
1400–1600 Technical Session 4	Al Hossen Ballroom

Wednesday, 23 April

0730–1100 Conference Registration	Golden Tulip Ballroom Foyer
0730–1100 Author Room Open.....	Masirah Room, Golden Tulip Hotel
0730–0800 Welcome Coffee	Golden Tulip Ballroom Foyer
1000–1800 Technical Exhibition.....	Muscat Exhibition Centre
0800–1000 Technical Session 5	Al Hossen Ballroom
1000–1030 Coffee Break.....	Golden Tulip Ballroom Foyer
1030–1230 Technical Session 6	Al Hossen Ballroom

ABOUT SPE



The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves 79,000-plus members from more than 115 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, conferences, workshops, forums, and member-service programmes.

SPE is the industry-acknowledged information source for books and technical journals composed of member-generated content and peer-reviewed papers. SPE's website provides an immediate, global connection through its vast online library, distance learning courses, membership information, and online communities. SPE has six offices worldwide located in Dallas, Dubai, Houston, Kuala Lumpur, London, and Moscow. For more information, visit our website at www.spe.org.

2008 SPE President



William (Bill) Cobb
President, William M. Cobb & Associates

Bill Cobb heads William M. Cobb & Associates, a petroleum consulting firm based in Dallas, Texas, specializing in waterflooding, fluid injection, field studies, reserves evaluation and certification, and reservoir management. Cobb's 35 years of experience in the petroleum industry includes research, staff, and district positions for Arco Oil and Gas. He also headed oil and gas operations for Cornell Oil Company, an independent oil and gas company. Cobb taught reservoir engineering at Mississippi State University, where he now serves on the Dean's Development Council. He is currently an adjunct professor of petroleum engineering at Texas A&M University.

Before his nomination as 2008 SPE president, Cobb served as vice president of finance and on many SPE committees, including the Reservoir Engineering Program Committee, Publications Review Committee, and Distinguished Author Series Committee, and as chairman of the Formation Evaluation Committee. He chaired the committee that recommended opening an SPE office in the Middle East and served on the SPE Fund Raising Committee in support of the SPE.org initiative. He was an SPE Distinguished Lecturer in 1995. In 1999, he received the SPE Reservoir Engineering Award.

Cobb has served in numerous leadership positions at the section level, including program chairman and general chairman for the Hydrocarbon Economics and Evaluation Symposium sponsored by the Dallas Section. In addition to publishing technical papers, he has made more than 50 technical presentations to SPE sections throughout the world.

He received BS and MS degrees from Mississippi State University and a PhD degree from Stanford University, all in petroleum engineering.

EOR CONFERENCE COMMITTEE

Khalifa Bin Mubarak Al Hinai (Conference Chairperson)
Ministry of Oil and Gas Oman

Saif Al Hinai (Technical Programme Chairperson)
Petroleum Development Oman

Abdulaziz Al Kaabi, Saudi Aramco

Ali Al Gheithy, Petroleum Development Oman

Arafat Al Yafei, ADNOC

Bader Al Badi, ADMA-OPCO

John Edwards, Schlumberger

Mahmoud Al Hashmi, Halliburton

Mark Mahoney, Lufkin Corporation

Suleiman Al Zakwani, Oman Oil

Xu Dong Jing, Shell Technology Oman

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EOR Short Course



Student Paper Contest



Coffee 22 April and Writing Pads





Strong partnership, continued commitment



Shell continues to demonstrate its continued long-term commitment to the Sultanate of Oman through the establishment of Shell Technology Oman (STO), a dedicated Enhanced Oil Recovery Research and Development Hub.

Launched in November 2006, STO works in close partnership with Petroleum Development Oman's Study Centre and the Oil and Gas Research Centre at Sultan Qaboos University and looks at ways to help Petroleum Development Oman improve its recovery factors from heterogeneous reservoirs. The successful implementation of these EOR projects will help consolidate Petroleum Development Oman's position as the leader in EOR in the region.

www.shell.com/oman



GENERAL INFORMATION

Welcome Reception

Oman Expo will host a welcome reception at the Grand Hyatt Hotel, Muscat, starting at 1900 on Monday, 21 April. Welcome reception tickets are included for members and nonmembers paying the full conference registration fees. Additional tickets can be purchased from the registration counter for USD 50 each. Please note that the 1-day registration fee for Monday, 21 April, includes the welcome reception ticket.

Luncheons

Luncheons will be served from 1200 to 1330 on Monday, 21 April, and from 1230 to 1400 on Tuesday, 22 April, at the Muscat Exhibition Centre. Please present your delegate badge to enter the luncheon area.

Luncheon tickets are included for members and nonmembers paying the full conference registration fee. The Monday luncheon is sponsored by ADMA-OPCO and the Tuesday luncheon by ZADCO.

Exhibition

The 6th Oil and Gas West Asia Exhibition and Conference, which takes place at the Oman International Exhibition Centre, will open at the following times:

- Monday, 21 April..... 1000–1800
- Tuesday, 22 April 1000–1800
- Wednesday, 23 April..... 1000–1800

Registration

On-site registration is available at the registration area at the Golden Tulip Hotel, Muscat, Sultanate of Oman, at the times listed below. For delegates already registered, badges can be collected at the same times.

- Sunday, 20 April..... 1600–1800
- Monday, 21 April..... 0730–1700
- Tuesday, 22 April 0730–1700
- Wednesday, 23 April..... 0730–1100

SPE Student Paper Contest

The 2008 SPE Regional Student Paper Contest is held alongside the conference from 0800 to 1800 on Sunday, 20 April, at the Golden Tulip Hotel, Muscat, Sultanate of Oman, adjacent to the exhibition centre. Delegates are welcomed and encouraged to attend.

Short Course

A short course will be held on Sunday, 20 April, at the Golden Tulip Hotel, Muscat, Sultanate of Oman, on the "Characterisation and Modelling of Waterflood Performance and Remaining Oil Distributions in Carbonate Reservoirs: A Prerequisite for EOR". This course is sponsored by Shell; however, all income is collected by SPE.

Course fees

- SPE Members: USD 450 or USD 350 if the member is attending the conference
- Nonmembers: USD 550 or USD 450 if the nonmember is attending the conference

GENERAL INFORMATION

About the Sultanate of Oman

- Official language is Arabic, but English is widely spoken
- Currency is Omani Riyal (OMR), which is divided into 1000 baisas
- One US dollar is approximately equal to 0.385 OMR

Copyright Information

All SPE sessions are protected by US copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area.

SPE Membership

To find out more about what SPE membership can offer you, visit our booth (number 1329) at the 6th Oil and Gas West Asia Exhibition and Conference. You can also find more information on our website, www.spe.org.

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SHORT COURSE



Sponsored by Shell

Characterisation and Modelling of Waterflood Performance and Remaining Oil Distributions in Carbonate Reservoirs: A Prerequisite for EOR

The programme committee is offering a short course to be held on 20 April 2008 prior to the SPE EOR Conference at Oil and Gas West Asia. The course will be held at the Golden Tulip Hotel, Muscat, Sultanate of Oman.

Instructors

Shehadeh Masalmeh, Shell Technology Oman

Xu Dong Jing, Shell Technology Oman

Intended Audience

This course is designed for petroleum reservoir engineers with a minimum of 2 years of industry or related R&D experience. All other engineers, petrophysicists, and geologists with some experience in reservoir engineering and/or integrated field studies can benefit from this course.

Description

Participants will learn the fundamental principles of flow in porous media, special core analysis with a focus on oil recovery from carbonates. This course will focus on improving the characterisation and modeling of heterogeneous, mixed to oil-wet carbonate reservoirs to enable more accurate prediction of waterflooding performance and remaining oil saturation distribution. The course also discusses implications of accurate assessment of waterflood remaining oil distribution in the design and optimisation of subsequent EOR processes.

Topics Covered

- Reviewing Basic Concepts
- Understanding Wettability, Capillarity, and Relative Permeability
- Defining Residual Oil Saturation vs. Remaining Oil Saturation
- Focusing on Carbonates
- Predicting Waterflood Performance and Implications for EOR
- Analyzing Oil Recovery From Capillary Transition Zones
- Exploring Upscaling in Heterogeneous Carbonates
- Discussing Field Examples From the Middle East Region

Course income is collected by SPE.

CONFERENCE INAUGURATION

Monday, 21 April, 0900–0910
(Al Hossen Ballroom at the Golden Tulip Hotel)

EXECUTIVE PLENARY SESSION

EOR Drivers and Challenges

Monday, 21 April, 0910–1025
(Al Hossen Ballroom at the Golden Tulip Hotel)

Finding new sources of hydrocarbons has become more difficult due to the increase in associated expenditures and the need for innovative technologies. This has a great impact on enhanced oil recovery (EOR). In this plenary session, national oil companies from the Middle East region will be sharing their thoughts about the key drivers and challenges of EOR and addressing the potential solutions to the challenges.

Moderators:



Saif Al Hinai,
Petroleum Development
Oman



Mike Townsend, BP

Speakers:



John Malcolm, Petroleum
Development Oman



Abdulla A. Al Naim,
Saudi Aramco



Ibrahim Al Ansari, Dolphin



Stuart Fysh, BG

SESSION GRID

Changes/additions after 30 March 2008 may not be reflected

Sunday, 20 April	0800	1800	SPE Student Paper Contest	Al Hossen Ballroom B
Sunday, 20 April	0900	1600	Short Course	Al Hossen Ballroom A
Monday, 21 April	0730	0900	Welcome Coffee	Golden Tulip Ballroom Foyer
Monday, 21 April	0900	1030	Conference Inauguration	Al Hossen Ballroom
Monday, 21 April	0930	1030	Executive Plenary Session: EOR Drivers and Challenges	Al Hossen Ballroom
Monday, 21 April	1030	1200	VIP Exhibit Tour	Muscat Exhibition Centre
Monday, 21 April	1200	1330	Luncheon	Muscat Exhibition Centre
Monday, 21 April	1330	1630	Session 1: EOR: Past, Present, and Future	Al Hossen Ballroom
Monday, 21 April	1900		Welcome Reception	Grand Hyatt Hotel, Muscat
Tuesday, 22 April	0730	0800	Welcome Coffee	Golden Tulip Ballroom Foyer
Tuesday, 22 April	0800	1000	Session 2: Chemical EOR	Al Hossen Ballroom
Tuesday, 22 April	1000	1030	Coffee Break	Golden Tulip Ballroom Foyer
Tuesday, 22 April	1030	1230	Session 3: Thermal EOR	Al Hossen Ballroom
Tuesday, 22 April	1230	1400	Luncheon	Muscat Exhibition Centre
Tuesday, 22 April	1400	1600	Session 4: Gas and CO ₂ Challenges	Al Hossen Ballroom
Wednesday, 23 April	0730	0800	Welcome Coffee	Golden Tulip Ballroom Foyer
Wednesday, 23 April	0800	1000	Session 5: Reservoir Surveillance and Monitoring for EOR	Al Hossen Ballroom
Wednesday, 23 April	1000	1030	Coffee Break	Golden Tulip Ballroom Foyer
Wednesday, 23 April	1030	1230	Session 6: Capability of Simulators and the Geomechanics of EOR	Al Hossen Ballroom

Plenary Session	
Technical Session	



Oil & Gas West Asia

7th Oil, Gas, Refining and Petrochemicals Exhibition and Conference

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TECHNICAL PROGRAMME

Changes/additions after 30 March 2008 may not be reflected

Monday, 21 April, 1330–1630

Session 1: EOR: Past, Present, and Future

Session Chairpersons: Ali Al Gheithy, Petroleum Development Oman
Suleiman Al Zakwani, Oman Oil

Speakers: Ali Al Muallem, Saudi Aramco
Marc Durandea, Total
M. Rafiqul Islam, Dalhousie University (Halifax, Canada)
Willem Schulte, Shell

Tuesday, 22 April, 0800–1000

Session 2: Chemical EOR

Session Chairpersons: Xu Dong Jing, Shell Technology Oman
Arafat Al Yafei, ADNOC

Speakers: Martin Stoll, Shell
Mohamed Aoudia, Sultan Qaboos University
Said Al Harthy, Petroleum Development Oman
Tor Austad, Stravanger University

This session will cover recent technical advances and field applications in chemical enhanced oil recovery (EOR). The topics to be addressed include polymer, alkaline-surfactant-polymer, and other emerging chemical EOR processes (e.g., for carbonates). The session speakers will include leading academics and industry representatives from the region and globally who are currently pursuing chemical EOR.

Tuesday, 22 April, 1030–1230

Session 3: Thermal EOR

Session Chairpersons: Ali Al Gheithy, Petroleum Development Oman
Suleiman Al Zakwani, Oman Oil

Speakers: Dave Brooks, Shell
Michiel Van Rijen, Petroleum Development Oman
Siddartha Sur, ONGC India

This session will cover key aspects of thermal enhanced oil recovery techniques including steam flooding, huff-and-puff, and steam-assisted gas-oil-gravity drainage in heavy and light reservoirs and in-situ combustion. Several pilots and case studies, as well as examples of the latest technical advances from Sultanate of Oman and globally, will be presented and discussed.

Tuesday, 22 April, 1400–1600

Session 4: Gas and CO₂ Challenges

Session Chairpersons: Abdulaziz Al Kaabi, Saudi Aramco
Bader Al Badi, ADMA-OPCO

Speakers: Shahin Negahban, ADCO
Shawket Ghedan, The Petroleum Institute
Sunil Kokal, Saudi Aramco
Tara La Force, Imperial College

TECHNICAL PROGRAMME

The session will cover the challenges and latest technologies related to EOR using gas injection (e.g., hydrocarbon gas and carbon dioxide). Potential and added value of such techniques for enhancing recovery from regional oil fields will be emphasized. The session will attract invited industry experts, academics and researchers to discuss and debate important issues related to the application of gas injection for EOR, such as:

- Overview of gas injection technology
- Challenges and technology gaps
- Field and laboratory requirements
- Screening for gas injection application
- Successful projects/pilots
- Way forward and new trends in gas injection

Wednesday, 23 April, 0800–1000

Session 5: Locating Remaining Oil: Reservoir Surveillance and Monitoring for EOR

Session Chairpersons: John Edwards, Schlumberger
Mahmoud Al Hashimi, Halliburton

Speakers: Alberto Marsala, Saudi Aramco
David Ottesen, Ziebel
Raghu Ramamoorthy, Schlumberger
Shehadeh Masalmeh, Shell Technology Oman

Taking advantage of the physical property changes inherent in the EOR process, a variety of tools now exist, or are under development, to monitor EOR. This session will examine the method and case histories of both deep reading and near-wellbore technologies for EOR candidate selection and EOR reservoir surveillance.

Wednesday, 23 April, 1030–1230

Session 6: Capability of Simulators and the Geomechanics of EOR

Session Chairpersons: Arafat Al Yafei, ADNOC
Mazen Kanj, Saudi Aramco

Speakers: Jorge Pita, Saudi Aramco
Nick Koutsabeloulis, Schlumberger

This session on simulation will discuss the capabilities of industrial software in simulating EOR techniques, with a focus on chemical and thermal processes. It will also highlight the experiences of international oil companies in EOR simulation. We will be looking for answers to questions like:

- What are the main difficulties in simulating, chemical and thermal processes?
- What is the precision of EOR simulations is uncertainty within the range of incremental oil?
- Where and how can we improve the capabilities of EOR simulation software?
- Can we evaluate the base case and EOR case using the same software with the same precision?
- What are the criteria for choosing the proper software?

POSTER PRESENTATIONS

The Conference Programme Committee has selected the following posters for presentation during the conference. Posters are located in the Golden Tulip Ballroom Foyer and poster presenters will be available during coffee break times to present poster materials.

- CO₂. Capture and Storage, Total
- Recovery Processes in Pervasively Fractured Reservoirs, Shell Technology Oman
- Heavy-oil Recovery by Steam-injection in Fractured Reservoirs—Accurate Physical Modelling, Shell Technology Oman
- Evaluation of Early Steam Response for a Steamflood Project in South Oman, Petroleum Development Oman
- Formation Damage: Prevention, Mitigation and Removal, Najim A. Al-Kitany et al., Petroleum Development Oman /Sultan Qaboos University
- Chemical Profile Control, Najim A. Al-Kitany et al. Petroleum Development Oman /Sultan Qaboos University
- pH-Sensitive Polymers for Improving Reservoir Sweep and Conformance Control Applications, Mahmoud Abdel-Goad et al., Sultan Qaboos University
- Sampling and Isolation of MEOR Microorganisms from an Oilfield, Saif Al-Bahry et al., Sultan Qaboos University
- Novel Surfactants for Improved Oil Recovery, Mohammed Aoudia et al., Sultan Qaboos University

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SPE EOR Conference at



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