

## Who We Are

SPE is the largest individual member organisation serving managers, engineers, scientists, and other professionals worldwide in the upstream segment of the oil and gas industry.

## Who Should Attend?

- › Reservoir Engineers
- › Petroleum Engineers
- › Production Engineers
- › Geoscientists
- › Completion Engineers
- › Research Scientists, University Staff, and Academia

## Not an SPE member?

Join SPE today and receive discounted registration rates for most SPE events.

[www.spe.org/joinspe](http://www.spe.org/joinspe)

## Early Bird Registration Deadline is 28 January 2018



Source: Restrack

In view of successful former tracer workshops held in Dubai, Tunisia, and Kuwait, we invite you to attend this edition for Improved Decision-Making through Tracer Technology.

This edition will focus on the outcome of tracer technology applied in the petroleum

industry and on tracer benefits in improving reservoir management decisions. The workshop will also focus on tracer applications for enhanced oil recovery, heavy oil, unconventional resources, reservoir characterisation, inflow profiling, in addition to new and emerging tracer technologies.

Tracer technology, which presents an inexpensive source of reservoir information rather than other dynamics tools, has shown unexpected revolutionary growth since its application in the oil and gas industry. It has participated positively in describing complexity of reservoirs, understanding reservoir flow movement, and optimising production. This workshop will review and share experiences, value information brought from analysis, and lessons learnt from the tracer technology history, and related applications all over the world.

### Bronze Sponsor



Providing Insight Onsite

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The Ultimate Source for Enhanced Oil Recovery

\*Updated as of 8 November 2017

## Committee Members

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**Mourad Bengherbia**  
ADNOC Offshore

**CO-CHAIRPERSON**  
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Restrack

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Chemical Tracers

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Tracerco

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Halliburton

**Mojdeh Delshad**  
Ultimate EOR Services

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Institute for Energy  
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**Jetzabeth Ramirez-Sabag**  
Mexican Oil Institute

**Khaled Sassi**  
Schlumberger

**Martin Sauter**  
Universitat Gottingen

**Kerry Spilker**  
Chevron

**Ricardo Villasenor**  
Core Laboratories

## Schedule: Wednesday, March 14 2018

0800-0830

**Registration, Welcome Coffee, Collection of Badges and Delegate Packs**

0830-0835

**Safety Announcement**

0835-0855

**Opening Remarks by Co-Chairs**

0855-0915

**Keynote Speech**

0915-1055

**Session 1: Tracers for Reservoir Characterisation**

**Session Chairs: Nicolas Agenet, Total; Olaf Huseby, Restrack**

Tracer technology can be used to probe reservoirs by conveying chemicals of various types with the injected fluids. Detection of tracers at the producers can prove well-to-well fluid communication in the case of interwell tracers, and tracer production curves helps to derive reservoir characteristics along the flow path. This session will focus on how tracers can be used in order to enhance the knowledge of the reservoir characteristics. It will include case studies demonstrating that this improved understanding can be transformed into value and impact the reservoir development.

1055-1140

**Group Photograph, Coffee Break and Poster Presentation**

1140-1320

**Session 2: Inflow Profiling Using Tracer Based Techniques**

**Session Chairs: Herbet Lescanne, Total; Ricardo Villasenor, Core Laboratories**

For producing wells with long and/or multiple reservoir/wellbore interfaces, monitoring of their inflow profile is an important input for being able to optimise the performance of the wells and reservoirs. This is particularly true in the case of unwanted fluid breakthroughs. Inflow profile monitoring can be obtained by running time lapse production logs or by installing permanent in-well sensors. These two techniques may however prove to be unfeasible, expensive and/or risky in some situations (wells equipped with down-hole pumps and/or two stage completions, subsea and/or highly deviated wells). Inflow profile monitoring can also be obtained through tracer based techniques. Compared to the other two techniques, these qualitative alternative techniques offer benefits in terms of installation flexibility, cost, and safety. During this session, service providers and operating companies will share their experience on the design, installation, data acquisition, and interpretation aspects of implementing these tracer based techniques. They will also describe how the obtained information is later applied as input for optimising the performance of the wells and reservoirs.

1320-1420

**Luncheon**

1420-1430

**Ice-Breaker Activity**

1430-1610

**Session 3: Tracers for EOR**

**Session Chairs: Chris Bouma, Chemical Tracers; Kerry Spilker, Chevron**

Tracers are an essential component for successful EOR implementation. Tracers can be used in all stages of the EOR process from conception, pilots, and field implementation to improve decision making and ultimately reduce the risk associated with EOR. Tracers can identify EOR target oil, quantify EOR effectiveness, and identify flow paths. Tracer data should be used to balance flow fields and update simulation models, ultimately improving upon the ability of the producer to successfully advance their EOR projects. This session will touch upon tracer technologies applied to EOR and the insight that may be gained from tracer technology implementation in EOR projects.

1610-1640

**Coffee Break and Poster Presentation**

1640-1700

**Day 1 Wrap-Up and Closing Remarks by Co-Chairs**

## Schedule: Thursday, March 15 2018

0800-0830

**Welcome Coffee, Collection of Badges and Delegate Packs**

0830-0850

**Welcome Remarks and Day 1 Recap by Co-Chairs**

0850-0910

**Keynote Speech**

0910-1050

**Session 4: Tracers for Heavy Oil and Unconventionals**

**Session Chairs: Aimen Amer, Schlumberger;**

**Jetzabeth Ramirez-Sabag, Mexican Oil Institute**

The goal of this session is to discuss the challenges and opportunities of the tracer technology in thermal recovery and unconventional resources. Commercial thermal recovery projects are relatively new within the oil and gas industry, so there is limited data, by another hand, unconventional development has shifted from dry gas to multi-phase liquid flow, 10,000 ft. is the new standard for lateral length, completions designs, are five times more intense than five years ago, and oil is half the price. Because of this, is considerable value in sharing knowledge and ideas to help overcome these challenges with tracers.

Topics Include:

- Efficient recovery
- Applied in steam flood
- Characterising the properties
- Tracer selection criteria
- New tracers
- Hydraulic fractures diagnosis
- Method to understanding zonal contribution
- Case studies

1050-1130

**Coffee Break and Poster Presentation**

1130-1230

**Breakout Session**

1230-1330

**Luncheon**

1330-1510

**Session 5: New and Emerging Tracer Technologies**

**Session Chairs: Mojdeh Delshad, Ultimate EOR Services; Christian Dye, Institute for Energy Technology**

Smart tracers are developed and used to provide information about reservoirs and wells including the DNA and smart tracers where operators gain insight into the effectiveness of fracture design and production profile. This session will cover the new and ongoing innovation in tracers and their applications in conventional and unconventional reservoirs to provide information to further optimise the production. This session is also open to presentations on new modelling and interpretation techniques to analyse tracer data. The main objective of the session is to highlight the latest development of tracer technologies for conventional and unconventional resources and highlight the challenges encountered.

1510-1530

**Day 2 Wrap-Up and Closing Remarks by Co-Chairs**

## General Information

### Format

Two days of informal discussions prompted by selected keynote presentations and discussions. Focused topics and issues critical to advancing both technology and best practices. Majority of the presentations are in the form of case studies, highlighting engineering achievements, and lessons learnt. In order to stimulate frank discussion, no proceedings are published and the press is not invited to attend.

### Documentation

- Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers.
- Work in progress, new ideas, and interesting projects are sought.

### Poster Session

The Steering Committee encourages registrations from professionals who are able to prepare and present a poster on a relevant project.

### Attendance

Registrations will be accepted on a first-come, first-serve basis. The Steering Committee encourages attendance from those who can contribute effectively either in discussions or with posters.

### Workshop Deliverables

The Steering Committee will appoint a "scribe" to record the discussions and to produce the full workshop report for SPE.

### Commercialism

Commercialism in posters or presentations will not be permitted.

### Attendance Certificate

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

### Continuing Education Units

Attendees at this workshop qualify for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the workshop.

### Registration Information

This is a nonresidential workshop and therefore hotel accommodation is not included in the registration fees. The registration fees include all workshop sessions, coffee breaks, and luncheons.

### Cancellation and Refund Policy

- A processing fee of USD 100 will be charged for cancellations received before the registration deadline, 12 February 2018.
- For cancellations received after the registration deadline, 12 February 2018, 25% refund will be made to the registrant.
- No refund on cancellations received within seven (7) days prior to the workshop dates, i.e. on or 7 March 2018.
- No refund will be issued if a registrant fails to attend the workshop.

### Registration Policy

- Registration fee MUST be paid in advance for attending the SPE Workshop: Improved Decision Making Through Tracer Technology
- 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 co-chairpersons, committee members, speakers, discussion leaders, students, and registrants)
- Delegates with no proof of advance payment are required to pay onsite by cash or cheque, present a copy of the wire transfer, or submit a letter from their company

## Sponsorship Information

Sponsorship support helps offset the cost of producing workshops and allows SPE to keep the attendance price within reach of operations-level individuals, those who benefit most from these technical workshops.

Sponsors benefit both directly and indirectly by having their names associated with a specific workshop. While SPE prohibits any type of commercialism within the workshop hall itself, the society recognises that sponsoring companies offer valuable information to attendees outside the technical sessions.

### Sponsorship Categories

Sponsorships are offered on a first come basis. Please contact SPE to verify the availability of a particular sponsorship. Existing sponsors have the opportunity to renew the same level of sponsorship for annual workshops

### Sponsorship Benefits

In addition to onsite recognition, SPE will recognise sponsors on the SPE website and in all printed material for the workshop. Based on the sponsorship selected, sponsoring companies also receive logo visibility on promotional workshop items.

### For More Information

For a detailed list of available sponsorships, including benefits and pricing, contact **Ruth Infesto** at [rinfesto@spe.org](mailto:rinfesto@spe.org).

**Professional.**  
**Global connections.**  
**Shared knowledge.**  
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**Future trends.**  
**Referrals.**  
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**Partnerships.**  
**Networking.**

Our conferences, forums, workshops, training courses, SPE section events, and online member communities provide unmatched networking opportunities for you to stay well connected.

Join the Society of Petroleum Engineers, a not-for-profit professional association that serves a growing worldwide membership in the E&P industry. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources.

To learn more and become a member, visit [www.spe.org/joinspe](http://www.spe.org/joinspe).

Join the conversation.



Society of Petroleum Engineers



# Improved Decision-Making Through Tracer Technology

14-15 March 2018 | Jumeirah at Etihad Towers | Abu Dhabi, UAE | [www.spe.org/go/18aab3](http://www.spe.org/go/18aab3)

## REGISTRATION FORM Early Bird Registration Deadline is 28 January 2018

### IMPORTANT:

Early registration is recommended. Please print or type in black ink. Registration Fee **MUST** be paid in advance for attending the workshop.

### WORKSHOP FEE:

SPE Members:

- Before 28 January = USD 900
- After 28 January = USD 1100

Nonmembers:

- Before 28 January = USD 1100
- After 28 January = USD 1300

### Workshop fee includes:

Technical sessions, materials, daily coffee breaks and luncheons, and certificate of Continuing Education Units (CEU). Accommodation is NOT included in the workshop registration fee.

**IMPORTANT:** All SPE Middle East rates are net of taxes. The fees in this form do not include any local or withholding taxes. Please note that the invoice is to be paid in full. The UAE government is introducing a 5% VAT on goods and services from 1 January 2018. Once VAT guidelines have been finalised and issued by the government, we will contact you again to issue a VAT inclusive invoice for your signature.

### EASY WAYS TO REGISTER:

**Online:** [www.spe.org/go/18aab3](http://www.spe.org/go/18aab3)

**Email:** [registrationdubai@spe.org](mailto:registrationdubai@spe.org)

**Telephone:** +971.4.457.5800

**Fax:** +971.4.457.3164

**Visa:** SPE Middle East, North Africa, and South Asia will assist in providing a visa invitation letter, upon request in writing, to confirmed registrants after receiving full payment of registration fees. Visa invitation letters take five days to issue from the date of request and it is the delegate's responsibility to obtain their own visa. SPE cannot issue the visa nor can we guarantee it will be obtained.

**Questions:** Contact Ruth Infiesto, Event Manager, at [rinfiesto@spe.org](mailto:rinfiesto@spe.org).

FIRST NAME \_\_\_\_\_ LAST NAME \_\_\_\_\_

SPE MEMBER?  No  Yes \_\_\_\_\_ MEMBER NUMBER \_\_\_\_\_

COMPANY/ORGANISATION \_\_\_\_\_ JOB TITLE \_\_\_\_\_

STREET/P.O. BOX NUMBER \_\_\_\_\_ CITY \_\_\_\_\_ STATE/PROVINCE \_\_\_\_\_

ZIP/POSTAL CODE \_\_\_\_\_ COUNTRY \_\_\_\_\_ FAX \_\_\_\_\_

TELEPHONE \_\_\_\_\_ EMAIL (REQUIRED) \_\_\_\_\_

DO YOU WISH TO PRESENT A POSTER? (SUBJECT TO SELECTION BY STEERING COMMITTEE)

- Yes  No

DO YOU WISH TO BE CONSIDERED A DISCUSSION LEADER? (SUBJECT TO SELECTION)

- Yes  No

If yes, please indicate the subject on which you would like to present:

TECHNICAL DISCIPLINE (CHECK ONE):

- Management and Information
- Drilling
- Completions
- Production and Operations
- Projects, Facilities, and Construction
- Reservoir Description and Dynamics
- Health, Safety, Security, Environment, and Social Responsibility

HOW DID YOU FIRST BECOME AWARE OF THIS EVENT?

- Colleague (word of mouth)
- Section or Student Chapter
- JPT Ad  Industry Publication
- Email from SPE  SPE Website
- Other Industry Website
- Brochure Received by Mail
- I am a Committee Member/Presenter  Employer
- An Exhibitor  Others (please specify)

DO YOU HAVE ANY MOBILITY/DIETARY REQUIREMENTS? (Please specify):

### PAYMENT DETAILS:

- Bank Transfers: (Please include the name of the registrant and **18AAB3** as reference for the transfer)

**Name of Bank:** HSBC Bank Middle East Ltd, Jebel Ali Branch, P.O. Box 66, Dubai, UAE

**Name of Account:** SPE Middle East DMCC

**IBAN Number:** AE180200000036217131100

**Swift Code:** BBMEAEAD

- Credit Card (Check one):  American Express  MasterCard  Visa

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Card Number** (will be billed through Society of Petroleum Engineers)

**Expiry Date** (mm/yy)

**Security Code**

### CANCELLATION AND REFUND POLICY:

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- No refund will be issued if a registrant fails to attend the workshop.

NAME OF CREDIT CARD HOLDER: (PRINTED)

SIGNATURE: (REQUIRED)

DATE:

To submit your registration online, please visit the event website at: [www.spe.org/go/18aab3](http://www.spe.org/go/18aab3)  
Alternatively, you can email this form to: [registrationdubai@spe.org](mailto:registrationdubai@spe.org), or fax it to: +971.4.457.3164.