

20–21 February 2018 | Jumeirah at Etihad Towers, Abu Dhabi, UAE | www.spe.org/go/16jabd

SPE/EAGE Workshop: Reservoir Life Cycle Management—How to Maximise Value

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5 JANUARY 2018
TO AVOID LATE FEES

The value in the energy industry is in the hydrocarbons present in the reservoir. As with any asset it requires managing throughout the life cycle to maximise the value. The reservoirs were formed millions of years ago and we cannot change the way the reservoirs were created, but we can change the way we interact with them. Today we have at our disposal advanced technologies, greater knowledge, and the most computing power we have ever had before. What do operators and service companies believe will bring maximum value from the reservoirs in today's landscape? How national and international oil companies have changed their strategy? These questions and many others will be thoroughly articulated in this workshop.

Workshop Objectives

The objective of the workshop is to bring together cross-disciplined teams from both operators and service companies to engage in stimulating discussion with a view to understand the challenges and share the resources we have available and potential future resources to maximise value from the reservoirs in the years to come. Operators have ownership of the reservoirs, but service companies often provide the keys to unlock value from them, with people, processes, data, new techniques, and knowledge. It will require a team effort to maximise value from the reservoirs. SPE workshops provide a safe collaborative environment to share expertise enabling all parties to survive and thrive in the energy industry.

WHO SHOULD ATTEND

Petroleum Engineers
Reservoir Engineers
Production Engineers
Drilling Engineers
Field Development Engineers
Geoscientists Engineers

Bronze Sponsor



Updated as of 18 October 2017

COMMITTEE MEMBERS

Chairperson
Mohamed Al-Marzouqi
ADNOC

Co-Chairperson
Bandar Al-Malki
Saudi Aramco

Faaeza Alkatheeri
Al Dhafra Petroleum

Fatmah Alyammahi
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Baker Hughes, a GE
company

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Schlumberger

Riyad Quttainah
Kuwait Oil Company

Jon Rawding
Halliburton

Derren Simpson
Independent Oilfield
Consultant

Christophe Soyeur
Total

Hiroki Tanaka
JODCO

SCHEDULE

TUESDAY, 20 FEBRUARY 2018

0800–0850 | Welcome Coffee, Registration, Badge and Delegate Pack Collection

0850–0900 | Hotel Safety Announcement, Introduction by Co-Chairperson

0900–0915 | **Keynote Speech by Jamal Nasir Bahamaish, Development Unit Manager, ADNOC**

0915–0930 | Group Photo

0930–1030 | **Session 1: Field Development Strategies: How Have You Changed Your Mind?**

Session Chair: Mohamed Al-Marzouqi, ADNOC

An effective subsurface resource maturation process requires a flexible long-term strategy to ensure that both efficient and sustainable field development are achieved. Historically, many fields have established clear paths towards long-term field development by pursuing high recovery factors and delivering sustainable rates.

However, challenges arise during periods of economic downturn when projects compete for constrained resources (CAPEX, OPEX, and Human Capital) and organisations are charged with the task of reducing investment while maintaining long-term growth objectives and strategies. Adopting a portfolio management approach that includes disciplined investment in existing assets/infrastructure (maintaining the base), smart pre-investment in long-lead items and prioritisation of development opportunities based on near-term cash flow contributions is critical to ensure long-term flexibility and the ability to quickly respond to changing market conditions and achieve business objectives.

In this session, a panel discussion will be initiated to discuss the flexible field development strategies required to survive in a dynamic oil price environment while still delivering the long-term vision.

1030–1120 | Coffee Break

1120–1250 | **Session 2: Reservoir Management Excellence**

Session Co-Chairs: Fatmah Alyammahi, ADNOC Offshore; Amir Nasiri, Schlumberger

Reservoir management is one of those most important practices in oil industry. To formulate these practices up to the excellence level, it requires a robust integrated management plan to be deployed. The complexity of subsurface would always use the aid of the new technologies and smart techniques to overcome and improve the understanding of the reservoir.

Each reservoir has different challenges which depends on many factors such as the reservoir structure, reservoir pressure maintenance, water-cut encroachment, high GOR, and maximising sweep efficiency. These challenges can be tackled through managing the analytical approach and using the smart technology to build a certain platform of behaviour understanding. Reservoir management guidelines should assure sustainable production through optimisation of production-injection balance to achieve the maximum recovery. This session will focus on following aspects:

- Optimisation of sweep efficiency and recovery
- Balance between analytical techniques and technology to understand reservoir behaviour
- Subsurface uncertainty management
- Smart reservoir management: The backbone of mature reservoirs
- Fit-for-purpose reservoir surveillance

1250–1400 | Luncheon and Prayers

1400–1420 | Energiser

1420–1530 | **Session 3: Journey to Successful IOR and EOR Technologies**

Session Co-Chairs: Bandar Al-Malki, Saudi Aramco; Elyes Draoui, ADMA-OPCO

This session will address the roadmap to mature IOR/EOR strategies to maximise oil recovery and to move from a secondary to a tertiary recovery process. It will discuss the judicious integration of laboratory studies (SCAL) prior to field pilot implementation, followed by field scale deployment with a fit-for-purpose monitoring strategy. The presentations/discussions will highlight the following:

- Artificial lift retrofits and full field deployment
- EOR developments, making the right step (optimising selection, timing, etc.)
- Effective reservoir management strategy and practices to enable transition from secondary recovery to tertiary recovery
- Pilot design, implementation, monitoring, and result evaluation to full field deployment

1500–1530 | Coffee Break

1610–1630 | Recap and Close of Day 1

WEDNESDAY, 21 FEBRUARY 2018

0815–0850 | Welcome Coffee

0850–0910 | **Keynote Speech**

0910–1030 | **Session 4: Key Challenges Behind Complex Reservoirs Development**

Session Co-Chairs: Faeza Alkatheeri, Al Dhafra Petroleum; Hiroki Tanaka, JODCO

The objective of this session is to share and exchange on the challenges and industry best approaches to develop complex reservoir, at a time where the industry needs to identify solutions and focus efforts to develop more difficult barrels to ensure production sustainability.

This session will focus on the best techno-economic plan for complex reservoir development at all stages during the life of a field, extending from exploration, through to the later stages of appraisal, development, and production operations.

This session will also discuss and elaborate on the best practices in integrated field development including those for integrated workflows, the recent innovations and technological advances in complex reservoir development, and methods of maximising the economic benefits from particularly upstream assets by optimising recovery while minimising Capex and Opex.

1030–1110 | Coffee Break

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1110–1230 | Session 5: Maximising the Value of a Brown Field Asset

Session Co-Chairs: Christophe Soyeur, Total;
Derren Simpson, Independent Oilfield Consultant

Many countries across the globe are striving to maximise their energy resources and brown fields are considered the backbone of the entire hydrocarbon value chain representing 70% of the world daily production. As brown field reserves get depleted, managing these remaining resources which cannot be exploited is a tough challenge in face of increasing complexity, rising development costs and uneconomic conditions.

This session aims to consolidate ideas, concepts and approaches, such as technical challenges, best practices, lessons learnt, managing new technologies with its associated risks—in order to maximise recovery while managing brown field technical cost.

1230–1330 | Luncheon and Prayers

1330–1350 | Energiser

1350–1540 | Session 6: Enablers for Reservoir Management Excellence

Session Chairs: Warren G. Fernandes, Baker Hughes, a GE company; Jon Rawding, Halliburton

Reservoir management has been transformed in recent years as technology enablers have entered the oil field. From downhole sensors and inflow control to advanced dynamic modelling and artificial intelligence, the components of total reservoir management are there, but is the technology out-pacing the organisations who are attempting to optimise the reservoir performance? Items to be discussed in this session:

- Data, are we missing the big picture because of big data?
- The demographics are changing, how are we harnessing the technically savvy next generation?
- Workflows, designing processes to capture value from i-fields.
- Are we acting as one collaborative team or in silos?

1430–1500 | Coffee Break

1500–1540 | Session 6 Continued

1540–1600 | Recap and Close of Day 2

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 best practices in **Reservoir Management**.

Attendance – Registrations will be accepted on a first-come, first-served 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 20 January 2018.
- For cancellations received after the registration deadline, 20 January 2018, 25% refund will be made to the registrant.
- No refund on cancellations received within seven (7) days prior to the workshop date, i.e. on or after 12 February 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 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 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 guaranteeing payment of the workshop fees.

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 **Yousuff Dadapeer** at ydadapeer@spe.org.

