



Register by 27 August 2009

# WORKSHOP

Society of Petroleum Engineers

21-22 September 2009 | Moody Gardens Hotel and Convention Center | Galveston, TX

## Offshore Intelligent Completions

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FMC Technologies

**Ralph Jones**

Kosmos Energy

**Heath Nevels**

Shell International E&P

**Shawn Pace**

Chevron ETC

**Mike Tackett**

ExxonMobil

As we celebrate the tenth anniversary of the first installation of an Intelligent Completion and have advanced to where operators are now requiring justification for not using this technology, there are still challenges that face us:

- Issues of Stacked Sand Control Completions (control of flow from more than two zones or intervals)
- Lower Tertiary Completions
- Subsea/Deepwater Well Applications

This two-day workshop will review where we are with this technology today and define the issues we will encounter in the future, especially relating to the offshore environment.

Topics will include:

- Lessons Learned from Installations
- Justification of the Technology
- Completion Design
- Subsea Installation Challenges, including the Contract Landscape
- Production Optimization

This workshop is designed for operators and service company personnel who are interested in learning from the experiences of others and participating in open discussion sessions that will provide the essence of a roadmap to carry this technology through the next decade.

### Sponsors

**Schlumberger**



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# Offshore Intelligent Completions

**Preliminary Program:** For agenda updates, visit [www.spe.org/meetings](http://www.spe.org/meetings).

## Sponsorships

Workshops offer sponsors unique access to a focused group of key decision makers in the oil and gas industry.

While SPE prohibits any type of commercialism within the workshop itself, it recognizes that sponsoring companies offer valuable information to attendees.

Sponsorships help offset the cost of producing workshops and allow SPE to keep the workshop fee as low as possible for the target audience.

## Benefits

- Company logo visibility
- Website recognition with link to company's URL
- Recognition in all workshop printed materials
- Onsite signage

Based on the sponsorship selected, sponsoring companies could also receive:

- Attendee giveaways with company logo
- Half-page, full-color ad in workshop technical program
- 1–2 complimentary workshop registrations

## Categories

Sponsorships are offered on a first come basis. Please contact SPE to verify the availability of a particular sponsorship.

- Breakfast
- Coffee Break
- Lunch
- Reception
- Audio/Visual
- Materials

## For More Information

For a detailed list of available sponsorships, including benefits and pricing, contact Susan Wooten at [swooten@spe.org](mailto:swooten@spe.org).

# Schedule

## Sunday, 20 September

5:30–7:00 p.m. Welcome Reception

## Monday, 21 September

7:00–8:15 a.m. Registration & Continental Breakfast

8:15–8:30 a.m. Introductions and Orientation to the Workshop

Chairman's Welcome:  
*Lars Vinje, StatoilHydro*

Workshop Overview:  
*Brian Drakeley, Weatherford*

8:30–9:00 a.m.

### SESSION I: OPENING SESSION, KEYNOTE ADDRESS

*Chairmen: Lars Vinje, StatoilHydro*

*Brian Drakeley, Weatherford*

An operating or service company executive with direct experience with intelligent completions will discuss the challenges that will need to be faced over the next decade to facilitate increased utilization of intelligent completions.

9:00–10:00 a.m.

### SESSION II: CURRENT APPLICATIONS OF INTELLIGENT COMPLETIONS/CASE HISTORIES – DRY TREE WELLS

*Session Chairs: Jack Burman, Exploitation Technologies  
Dan Daulton, BJ Services*

Case histories of dry tree intelligent well completions. Take-aways will include: best practices, lessons learned, as well as technical and development issues associated with dry tree intelligent completions.

10:00–10:30 a.m. Coffee Break

10:30 a.m.–12:00 p.m.

### SESSION III: CURRENT APPLICATIONS OF INTELLIGENT COMPLETIONS/CASE HISTORIES – WET TREE/SUBSEA WELLS

*Session Chairs: George Arnold, Halliburton  
Heath Nevels, Shell International E&P*

Case histories where intelligent completions have been installed in subsea wells will be presented. They will highlight lessons learned, best practices developed and issues unique to intelligent completions.

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

12:00-1:00 p.m. Lunch

1:00-2:00 p.m.

**SESSION IV: VALUE ESTIMATION IN THE PLANNING STAGE**

*Session Chairs: Mark Barrilleaux, BP*

*Kevin Beveridge, Schlumberger*

*Mike Tackett, ExxonMobil*

Intelligent well installations are now considered a standard completion technology for many operators. Due to the initial increased capital expenditure in completing these wells, thorough estimation of the return on investment that this type of completion technology can deliver through the life of the field development is usually required. Presentations will detail various examples and methodologies for justifying intelligent completions in the planning phase through the experience of others who have gone through this exercise.

2:00-3:30 p.m.

**SESSION V: BREAKOUT SESSION – LESSONS LEARNED, VALUE GAINED**

*Session Chairs: Kevin Beveridge, Schlumberger*

*Shawn Pace, Chevron ETC*

Open discussion in smaller groups will address a number of questions on the lessons learned from the use of intelligent completions: It will answer what works and does not work, including any real or pre-conceived barriers to further general acceptance of this completion technology. The value they deliver to the industry and how additional value can be realized through further integration into existing and new workflows will be examined.

3:30-4:00 p.m. Coffee Break

4:00-5:00 p.m.

**SESSION VI: PRODUCTION OPTIMIZATION**

*Session Chairs: Jesse Constantine, Baker Hughes*

*Heath Nevels, Shell*

A review of the acquisition of information from the reservoir (or wellbore) and how “intelligence” is being implemented to optimize field development. Focus will be on the type of technology being installed, how the data is analyzed, decisions made, and which phases of well or field life provide the most value. At the conclusion of this session, participants will gain insight into key measures such as the time between obtaining knowledge to actual “intelligent” actions being taken.

5:00-5:15 p.m.

**SESSION VII: FIRST DAY WRAP UP/INTRODUCTION TO DAY TWO**

*Session Chairs: Lars Vinje, StatoilHydro*

*Brian Drakeley, Weatherford*

5:15-6:30 p.m. Reception Showcasing Posters

6:30 p.m. Dinner (Contingent on sponsorship.)

## ***Tuesday, 22 September 2009***

7:30-8:30 a.m. Registration & Continental Breakfast

8:30-10:00 a.m.

**SESSION VIII: INTELLIGENT COMPLETIONS SYSTEM DESIGN/INSTALLATION CHALLENGES**

*Session Chairs: Jesse Constantine, Baker Hughes*

*Trey Gilbert, ConocoPhillips*

Is intelligent well completion technology keeping the pace as reservoir and operating environments get more complex? This session is focused on delivery of functionality and reliability by examining constraints of hardware, deployment

and well operations. Topics will give consideration to completion designs for various reservoir types and discuss the challenges of system design, interface identification, compatibility assurance, on-shore preparations, rig floor operations, deployment and life of well operation (from initial installation to abandonment procedures).

**10:00-10:30 a.m. Coffee Break**

**10:30 a.m.-12:00 p.m.**

## **SESSION IX: SUBSEA WELL CHALLENGES**

*Session Chairs: Lewis Holmes, FMC Technologies*

*Ralph Jones, Kosmos Energy*

As more intelligent well completions are used in the subsea arena, new concerns arise. The application, installation challenges and subsea integration issues of this developing technology will be discussed, as well as intervention options should this equipment fail.

**12:00-1:00 p.m. Lunch**

**1:00-2:30 p.m.**

## **SESSION X: BREAKOUT SESSION – TECHNOLOGY GAPS AND OTHER BARRIERS**

*Session Chairs: George Arnold, Halliburton*

*Jack Burman, Exploitation Technologies*

Intelligent completion technology has advanced significantly since the first installation ten years ago. In that time, several obstacles related to the financial justification, equipment functionality, project management, installation techniques, and operational optimization have been overcome. Challenges and technology gaps that must be overcome to advance intelligent completion technology over the next ten years will be discussed.

**2:30-3:00 p.m. Coffee Break**

**3:00-4:30 p.m.**

## **SESSION XI: NEXT GENERATION TECHNOLOGIES**

*Session Chairs: Lars Vinje, StatoilHydro*

*Brian Drakeley, Weatherford*

A number of technologies that have the potential to both address some of today's "technology gaps" and issues with offshore intelligent completions, as well as increase their overall functionality and performance, are currently under development. Presentations will be made covering at least three such initiatives.

**4:30-5:00 p.m.**

## **SESSION XII: THE WAY AHEAD**

*Session Chairs: Lars Vinje, StatoilHydro*

*Brian Drakeley, Weatherford*

General discussion, wrap-up and summary.

### **Workshop Format**

Workshops maximize the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices.

Many of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and members of the press are not invited to attend.

### **Documentation**

Proceedings from the workshop will not be published; therefore, formal papers and handouts are not requested of speakers or panel members. A URL containing released copies of the workshop presentations will be available to attendees following the workshop.

### **Commercialism**

In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the affiliation of the presenter(s).

### **Continuing Education Units (CEUs)**

Attendees will receive 1.6 CEUs.

One CEU equals 10 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of SPE workshop. A permanent record of a participant's involvement and awarding of CEUs will be maintained by SPE.

### **Not an SPE Member?**

Join SPE today and receive member registration rates for this workshop and future SPE events.

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





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