



Society of Petroleum Engineers

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SPE Applied Technology Workshop

16–19 June 2008
Regina Palace Hotel
Stresa, Italy

Subsea Processing Today and Tomorrow: Deployment Time!

>> Application deadline:
14 March 2008

Apply inside or online
at www.spe.org/atws

Workshop Description

The deployment of subsea processing systems has seen a marked acceleration in the past couple of years, with various separation and boosting systems being ordered for deployment in the North Sea, the Gulf of Mexico, West Africa, South America and Australia.

The technologies include separation (with produced water reinjection and sand management), raw seawater injection and multiphase pumping systems. In addition, the full-scale qualification of subsea gas compression systems is continuing, with plans for deployment in the next decade.

At the same time that the technology is becoming better known and accepted, the areas of application are becoming ever more challenging. Deeper waters, longer distance tiebacks, more complex fluids (including heavy oils and sand production) and the prospect of under-ice Arctic developments means that technology gaps that are closed for today's applications will "reopen" and require closure prior to technology deployment in these new frontier areas.

Building on the highly successful Stresa workshop held in March 2006, the 2008 event will provide attendees with an overview of the main markets and market drivers for subsea processing, and enable discussion of what this means in terms of the further technology development that is needed in order to continue deploying qualified, reliable and profitable systems.

Workshop Objectives and Deliverables

- Provide an overview of the global business opportunities and key drivers for deploying subsea processing
- Review the state of the art, including case studies for recent groundbreaking installations
- Define the technology gaps created by the need to deploy in deeper, remoter and harsher environments
- Identify and discuss the key technology developments required to close these gaps
- Allow for networking and increased coordination and cooperation between industry-leading professionals

Who Should Attend

The workshop is a limited attendance meeting for up to 80 people, aimed at professionals and decision makers in the oil and gas industry who are involved in the design, development, deployment, and operation of subsea processing facilities.

Subsea Processing Today and Tomorrow: Deployment Time!

Workshop Timetable

Monday

1500 hours	Hotel Check-In
1700–1800 hours	SPE Registration
1800–1900 hours	Welcome Reception
1900 hours	Welcome Dinner

Tuesday

0830–1000 hours	Session One: Markets and Drivers
1000–1030 hours	Coffee Break
1030–1200 hours	Session One: Continued
1200–1300 hours	Lunch
1300–1500 hours	Session Two: Case Studies
1500–1530 hours	Coffee Break
1530–1700 hours	Session Two: Continued

Wednesday

0830–1000 hours	Session Three: Deep, Distant, Difficult
1000–1030 hours	Coffee Break
1030–1200 hours	Session Three: Continued
1200–1300 hours	Lunch
1300–1500 hours	Session Four: Solving Future Challenges
1500–1530 hours	Coffee Break
1530–1700 hours	Session Four: Continued
1700–1900 hours	Tour of local wine cellars (optional)

Thursday

0830–1000 hours	Session Five: The Way Forward
1000–1030 hours	Coffee Break
1030–1200 hours	Session Five: Continued
1200–1300 hours	Lunch
1300 hours	Workshop Closes

Tuesday, 17 June 2008

Session One

Markets and Drivers: Where and How Fast Will Future Subsea Processing Be Deployed?

Session Managers: Simon Davies and Tracy Fowler

This keynote session will provide an overview of the global business opportunities for deploying subsea processing. The session will focus on the key business drivers that attract, or in some cases, dissuade companies from selecting subsea processing. Following a keynote address from Douglas-Westwood, industry experts will present their views of the business drivers and potential market for subsea processing from the perspectives of both operators and suppliers.

Session Two

Case Studies: Subsea Processing Is Happening Now!

Session Managers: Rune Ramberg and Tracy Fowler

Subsea processing projects are progressing in operating areas around the world. In this session we will look at case studies of key projects and hear about the operators' experiences firsthand.

Why did the operators select subsea processing? How did they manage technology qualification and risk management? Did selection of subsea processing influence the flow assurance strategy or vice versa?

Once in operation, what are the operators' plans and experience with installation and intervention of subsea processing equipment?

Wednesday, 18 June 2008

Session Three

Deep, Distant, Difficult: Shaping the Future—R&D Focus

Session Managers: Morten Wiencke and Christopher Haver

This session will examine the technology programs that must be initiated in order to utilise subsea processing to the limit. Presentations will focus both on operator needs and supplier R&D responses.

What will subsea developments need to look like in 10 years? How will industry get there? Going deeper means new challenges in weight, pressure, temperature and flow. Are new materials a part of the answer? Tomorrow's seabed processing implies longer step-outs. Can we extend the range to 100+ km for oil and 500+ km for gas? Do we understand the basics of handling difficult fluids or installing and operating such subsea systems in extreme operating conditions?

Subsea Processing Today and Tomorrow: Deployment Time!

Wednesday, 18 June 2008 continued

Session Four

Solving Future Challenges: The Roadmap to Success

Session Managers: Jean-François Saint-Marcoux and Rune Strömquist

Even as subsea processing becomes a reality, it faces the challenges of deployment in frontier areas:

- Arctic and long-distance tiebacks
- Ultra deep water
- HP/HT
- High availability

In this group work session, industry specialists will introduce these subjects. Groups will identify specific gaps and hurdles that need to be overcome to achieve practical solutions. Gaps in technology; availability of R&D facilities; cross-fertilisation from other industries; and also nontechnical, contractual environment, technology transfer, and collaborative technology will all be discussed.

The participants will be challenged to develop a roadmap that can take our industry to the next level if we have the courage and foresight.

Thursday, 19 June 2008

Session Five

The Way Forward: From Deep, Distant and Difficult to Qualified, Reliable and Profitable

Session Managers: David Liddle and Simon Davies

This session will open with presentations from the aircraft industry to initiate a discussion on what we can learn about technology qualification, risk management and remote condition management in other industries.

To conclude the workshop, attendees will discuss how a common vision, technology collaboration and development of common qualification standards will accelerate deployment of technology.

General Information

Format

The workshop will consist of 2½ days of informal sessions, with a number of short presentations and breakout discussions per session. There will also be an evening welcome reception and dinner on Monday, 16 June.

Poster Sessions

The steering committee plans to hold poster sessions during the workshop. Please indicate on your application form if you would like to present a poster.

Attendance

Attendance will be limited to a maximum of 80 delegates with proven experience and/or knowledge of the subject areas being covered. The steering committee will evaluate the applications for a balance of companies, geographic origin and individual experience. Those selected to attend will receive full joining instructions at the end of March 2008.

Scribe's Report

The steering committee will appoint a scribe to make a full report of the workshop, summarising all presentations and discussion. This report will be circulated to all attendees. The copyright of the scribe's report will belong to SPE.

Attendance Certificate

All attendees will receive a certificate from SPE attesting to their participation.

Continuing Education Units

The workshop qualifies for SPE Continuing Education Units (CEUs), at the rate of 0.1 CEU per hour.

Cost and Residency Information

The residential fee is GBP 1000 and includes the welcome reception and dinner on Monday, 16 June, three lunches, coffee breaks, all workshop sessions, the scribe's report, and 3 nights bed and breakfast at the Regina Palace Hotel.

Cancellation Policy

Written notice received 30 days before the starting date of the workshop entitles registrants to a 50% refund. There will be no refund for cancellations received after this time.

SPE Applied Technology Workshop

Application Form

Attendance is limited and is not guaranteed. Early application is recommended. Please print or type in black ink.

First Name/Forename _____ Middle Name _____

Last/Family Name _____ SPE Member? Yes No Member No. _____

Job Title _____ Company/Organisation _____

Address _____

City _____ State/Province _____

Post Code _____ Country _____

Telephone _____ Facsimile _____

Email (required) _____

Details of relevant experience: _____

Do you want to present a poster? Yes No If "Yes," please provide topic and attach abstract topic: _____

Please indicate which category below most accurately describes your job title:

- | | | |
|--|---|-------------------------------------|
| <input type="checkbox"/> Subsea engineer | <input type="checkbox"/> Research and development engineer | <input type="checkbox"/> Manager |
| <input type="checkbox"/> Process engineer | <input type="checkbox"/> Project engineer | <input type="checkbox"/> Consultant |
| <input type="checkbox"/> Facilities engineer | <input type="checkbox"/> Concept development engineer | <input type="checkbox"/> Other |
| <input type="checkbox"/> Control/instrument engineer | <input type="checkbox"/> Operations engineer | |
| <input type="checkbox"/> Flow assurance engineer | <input type="checkbox"/> Installation/intervention engineer | |

APPLIED TECHNOLOGY WORKSHOP FEES

Residential Fee: GBP 1000

Cost includes: All workshop sessions, scribe's report, 3 lunches, all coffee breaks, welcome dinner and reception, and 3 nights accommodation and breakfasts at the Regina Palace Hotel

If you wish to take part in a tour of local wine cellars on Wednesday evening, there will be an additional cost of GBP 35. Please tick this box if you would like to book a place on this tour.

Please inform us of mobility or special dietary needs: _____

Mail, fax, or email completed Application Form to: Registrar, SPE Applied Technology Workshop
Society of Petroleum Engineers
3rd Floor, Portland House, 4 Great Portland Street, London W1W 8QJ UK
Telephone: +44 (0)207 299 3300 Facsimile: +44 (0)207 299 3309

For questions or additional information, contact Theresa Callanan, Event Organiser, at tcallanan@spe.org, or Selina Naulls, Event Administrator, at snaulls@spe.org.

Deadline for application is 14 March 2008.