

March 20-21, 2017, Trondheim, Norway

# Experimental P&A research for the North Sea

## **An update on the latest P&A research from qualified sources, tailored for industry!**

We have gathered more than 20 well-informed speakers that will update us on the latest Plug and Abandonment (P&A) research. Among the speakers, six of them represent O&G operators. The talks and speakers are carefully selected to cover new knowledge addressing the most relevant technical challenges: Ensuring plug integrity, formation as a barrier, pipe removal and barrier verification.

This Conference will emphasize the importance of relevant experimental R&D for ensured well integrity and P&A related cost reductions. It will provide:

- an update on state-of-the-art research results
- an overview of the research organizations offering P&A research
- a review of research infrastructure available internationally for technology validation

Are you quite new in the P&A world? Then join the SINTEF P&A School! Just before the conference starts, there will be an educational session to provide a wide introduction to the topic of P&A, tailored to the petroleum sector. Personnel at all levels can get here a useful overview.

# PROGRAM - 20 MARCH (DAY 1)

08:00 Registration

## P&A SCHOOL

09:00 What is a barrier? (*Tore Fjågesund, WellBarrier*)

09:30 What is P&A with operator's eye? (*Lars Hovda, Conoco Phillips*)

10:15 *Coffee break*

10:30 The harsh challenges a well plug must withstand (*Malin Torsæter, SINTEF*)

11:00 Regulations and standards  
(*Johnny Gundersen, Petroleum Safety Authority Norway*)

## SINTEF PETROLEUM CONFERENCE

11:30 *Lunch*

12:30 Welcome to SINTEF Petroleum Conference (*Alexandra Bech Gjørsv, SINTEF*)

12:40 Keynote: The importance of experimental P&A research  
(*Pål V. Hemmingsen, Statoil*)

### Session 1: Ensuring plug integrity

13:10 What is the sealing ability of plugs? (*Torbjørn Vrålstad, SINTEF/DrillWell*)

13:35 Experiences from full scale plug testing in Mont Terri  
(*Harvey Goodman, Chevron*)

14:00 Barrier lifetimes estimated of field samples  
(*C. Schmidt-Hattenberger, German Research Centre for Geoscience*)

14:25 *Coffee break*

### Session 2: Formation as a barrier

15:00 Statoil experience with shale as a barrier (*Truls Carslen, Statoil*)

15:25 Creating barriers with natural materials (*Tron G. Kristiansen, Aker BP*)

15:45 Laboratory qualification of shale barriers (*Erling Fjær, SINTEF*)

16:05 *Coffee break*

16:20 Salt as a barrier (*Bogdan Orlic, TNO, Netherland*)

16:45 Synthetic rock barriers, Geopolymers (*Helge Hodne, UiS*)

17:10 End of Conference day 1

17:30 Lab tour (Plug integrity, shale barrier, casing wash and retrieval)

19:30 *Conference Dinner*

# PROGRAM - 21 MARCH (DAY 2)

08:00 Registration

08:30 Keynote: Independent Technology qualification (*David Lysne, ProVenture*)

## Session 3: Pipes and Pipe removal

09:00 Steel pipe removal by controlled corrosion reaction (*Astrid Bjørgum, SINTEF*)

09:25 Can tubing be left in hole? (*Sigmund Stokka, IRIS/DrillWell*)

09:50 Plugging wells in a "coal country" (*Barbara Kutchko, NETL-DOE, US*)

10:15 *Coffee break*

10:45 Keynote: The value of medium scale experimental testing (*Arild Saasen, UiS*)

## Session 4: Barrier verification

11:15 What can we learn from nuclear waste storage? (*Paul Marschall, NAGRA - National Cooperative for the Disposal of Radioactive Waste, Switzerland*)

11:45 Log interpretation in shale formations (*Idar Larsen, SINTEF*)

12:10 Cement barrier evaluation lab (*Dave Gardner, IRIS/DrillWell*)

12:35 P&A Challenges and opportunities (wrap-up) (*Andreas Reinicke, Shell*)

13:00 *Lunch*

## Panel debate

14:00 Sealants: Placement and scaling-up from lab to field

16:00 End of conference



Photo: SINTEF/Berit Fossum

## Investments on emerging P&A technology can be optimized by:

- Stopping development of unfeasible concepts earlier or changing direction
- Increasing the leverage rate of concept validation (on costs and time)
- Concept validation previous to costly full-scale testing

## Independent knowledge partners can provide:

- Transparent information
- Objective overview of potential, benefits and limitations of concepts
- Multidisciplinary approach as a source for improved ideas/concepts

Secure your place by registering today:

**[www.sintef.no/spc2017](http://www.sintef.no/spc2017)**

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