

# Produced Water Management 2010

- Regulatory and Environmental Issues
- Sand management
- Reservoir Pressure Support
- New Field Developments

21. – 22. January 2010 Clarion Stavanger Hotel, Norway



Foto: Bjarne Riis

# Produced Water Management 2010

Produced Water is increasing on the Norwegian Continental shelf as more oil fields evolve.



## INDUSTRY CHALLENGES

Produced Water is increasing on the Norwegian Continental shelf as more oil fields evolve. Produced water management is therefore becoming a very important issue both in terms of cost effective oil production and in meeting regional and international environmental requirements.

## REGULATORY ASPECTS AND ENVIRONMENTAL IMPACT

The conference will start up with some regulatory issues. Leo Henriquez will give us an update on OSPAR's Risk Based Approach, SINTEF will give an update on Modelling using the EIF and ConocoPhillips will share their experience on Monitoring the environmental impact of PW treatment on Ekofisk.

## NEW FIELD DEVELOPMENT AND LESSONS LEARNED

The importance of design for optimal operation of PW treatment will be addressed followed by two very interesting presentations on new field developments, Skarv and Goliat.

ConocoPhillips will share their operational experiences with schmoos and screening of technologies for Eldfisk. Statoil will present some offshore experiences with OIW monitoring.

Further sessions will be dedicated to Water Injection for Reservoir Pressure, Sand Management and What is new?

## THE SPEAKERS

The speakers are senior personnel from major operating companies holding many years of experiences.

## WHO SHOULD ATTEND?

The event is designed for those who are concerned with produced water treatment, management and handling such as regulators, offshore operators, service companies, technology and equipment suppliers as well as consultancy and R&D organizations.

## NETWORKING AND SOCIALIZING

Attendance at this event will provide excellent networking opportunities for all delegates. Companies from oil & gas producing nations are expected to attend.

**Make this your priority event, be updated, meet the key players in an informal atmosphere**

## GENERAL INFORMATION

### TIME AND VENUE:

21-22 January 2010, Clarion Stavanger Hotel, Norway

### REGISTRATION:

- Website: [www.tekna.no/intconf](http://www.tekna.no/intconf)
- Telefax: + 47 22 947501
- Telephone: + 47 22 947560 or 61

### DELEGATE FEES:

Member of Tekna: NOK 7700,-

Non members: NOK 8700,-

Includes web based documentation, luncheons and refreshments during the conference.

### PROGRAM COMMITTEE

Christina Markoff, BP Norge

Ulf-Einar Moltu, TOTAL E&P NORGE AS

Karsten Rabe, M-I EPCON AS

Rehan Naqvi, Shell Technology Norway

Eilen A. Vik, Aquateam, Norway

Kåre Voldum, ConocoPhillips Norge

Cecilie Fenne Willumsen, StatoilHydro ASA

Svein Viggo Aanesen, StatoilHydro ASA

Lise Olaussen, Tekna

## WEDNESDAY 20. JANUARY

- 2000** **Networking Tapas Buffet at the Clarion Hotel Stavanger**  
Perspektiv on the hotel top floor

## THURSDAY 21. JANUARY

- 0900** **Welcome**

### REGULATORY ASPECTS AND ENVIRONMENTAL IMPACT

- 0910** **Can OSPAR reach its 2020 Produced Water Target by applying a Risk Based Approach?**

*Leo R. Henriquez, Chief Inspector / Advisor  
State Supervision of Mines, The Netherlands*

- 0945** **Produced Water – Experiences with Modelling using the EIF**  
*Henrik Rye, SINTEF, Norway*

- 1015** **Monitoring the Environmental Impact of Improved Produced Water Treatment on Ekofisk**

*Harald Lura, ConocoPhillips Norway*

- 1045** **Break**

### NEW FIELD DEVELOPMENTS

- 1115** **Design for optimal Operation of Produced Water Treatment**  
*Anne Finborud, Mator AS, Norway*

- 1145** **Goliat Produced Water Management**  
*Hans Tore Nordbø, Eni (Norway)*

- 1215** **Skarv Produced Water Management**  
*Ger Rowlands FPSO Eng Manager, BP Norge, Norway*

- 1245** **Lunch**

### OPERATIONAL ASPECTS

- 1400** **Corrosion and Schmoos in Produced Water Systems**  
*Gary Jenneman, David Blumer, Jennifer Harris and Robert Webb  
ConocoPhillips, USA*

- 1430** **Screening of Produced Water Treatment Technologies for Eldfisk**  
*Kåre Voldum, ConocoPhillips Norway*

- 1500** **Qualification and Operational Experiences Online Oil-in-Water Monitors**  
*Ragnvald Soldal, Statoil ASA, Norway*

### NEWS FROM VENDORS

- 1530** **Break**

- 1600** **Removal of Low Level Soluble and Dispersed Hydrocarbons – Complimentary Polishing Treatment for Produced Water**  
*Michael Howdeshell, Siemens, USA  
P. Harikrishnan, MyCelx Technologies Corporation, USA*

- 1630** **Hi-Flow - Flotation Technologies**  
*Brian Johnstone, Cetco, UK*

- 1700** **End of day one**

- 1930** **Conference dinner at Salsa Steakhouse & Bar**

## FRIDAY 22. JANUARY 2010

### WATER INJECTION FOR RESERVOIR PRESSURE SUPPORT

- 0830** **PWRI Oseberg South - Impact of Water Quality and Pressure on Injection Rates**  
*Idar Svorstøl, Statoil ASA*

- 0900** **Nitrate and Produced Water Re-injection**  
*Janiche Beeder, Statoil ASA, Norway*

- 0930** **Break**

- 1000** **Facilities for Water Flooding with lower Salinity Water than Formation Water**  
*Paul Verbeek, Shell Global Solutions, The Netherlands*

- 1030** **Overcoming Challenges with Pumping Produced Water**  
*Sigve Gjerstad, Framo Engineering AS, Norway*

- 1100** **Break**

### SAND MANAGEMENT

- 1130** **Plans for New Procedures on Sand Management**  
*OLF - The Norwegian Oil Industry Association  
Presenter will be announced*

- 1200** **Bulk sand removal - Inline Desander - Results from Qualification work**  
*Leif Kjetil Hinna Gausel, Statoil ASA, Norway*

- 1230** **Total sand management – Experiences from primary separation through to disposal – a case study**  
*Malcolm Corsie, Cyclotech, UK*

- 1300** **Lunch**

### WHATS NEW?

- 1400** **Recent results on Membrane Filtration of Produced Water**  
*Pierre Pedenaud, Total or Samuel Heng, TOTAL Petrochemical, France*

- 1430** **JIP - Environmental Aspects of EOR Chemicals in Produced Water**  
*Rehan Naqvi, Shell Technology Norway*

- 1500** **JIP – Reservoir souring and MIC Control in PWRI Systems**  
*Eileen A. Vik, Frøydis K. Garshol and Carsten U. Schwermer, Aquaeam Norway*

- 1530** **JIP-Impact of the Typhonix valve on PW quality**  
*Trygve Husveg, Typhonix and Børre Knudsen, Statoil ASA*

- 1600** **End of conference**

**A** PRIORITERT  
PRIORITAIRE

Returadresse:  
Tekna  
Postboks 2312 Solli, N-0201 Oslo



## REGISTRATION

- [www.teknakurs.no](http://www.teknakurs.no) or [www.tkena.no/intconf](http://www.tkena.no/intconf)
- [kurs@tekna.no](mailto:kurs@tekna.no)
- Telephone no: +47 22 94 75 60/61

## GENERAL INFORMATION

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Clarion Hotel Stavanger, Norway

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Karsten Rabe, M-I EPCON AS  
Eilen A.Vik, Aquateam, Norway  
Kåre Voldum, ConocoPhillips Norge  
Cecilie Fenne Willumsen, StatoilHydro ASA  
Svein Viggo Aanesen, StatoilHydro ASA  
Lise Olaussen, Tekna

### DELEGATE FEES:

Member of Tekna: NOK 7700,-  
Non members: NOK 8700,-

**Includes web based documentation, lunches and refreshments during the conference.**

### EXHIBITION:

The conference has a tradition to offer companies the opportunity to display their products and services.

Companies should bring their own display materials such as roll-ups etc.

Max available floor-space for each company is 2 meters. Price NOK 7000,-

### CONFERENCE DINNER AT: SALSA STEAKHOUSE & BAR



### ACCOMMODATION

#### AT CLARION HOTEL STAVANGER

Single room pr night, including breakfast,  
pr night NOK 1345,-.

Double room pr night, including breakfast: NOK 1445,-

**Accommodation is to be paid directly to the hotel upon departure.**

### GET TOGETHER

#### - 20 JANUARY AT THE EVENT HOTEL

Meet the other delegates the evening prior to the event at Clarion Hotel Stavanger.

Price. NOK 550,- include tapas and beverages.

**Please indicate attendance on the registration form.**

### CONFERENCE DINNER - 21 JANUARY

The dinner will be at Salsa Steakhouse & Bar just a few minutes walk from the hotel.

Price NOK 750,-. Including food and wine.

### REGISTRATION:

Website: [www.tekna.no/intconf](http://www.tekna.no/intconf)

Telefax: + 47 22 94 75 01

Telephone: + 47 22 94 75 60 or 61

### CANCELLATION POLICY:

Cancellations made later than 7. January 2010 will be subject of a service charge of NOK 1200,-.

**There will be no refunds for cancellations after the 14 January 2010**

**NB! Written cancellation is only!**

### PAYMENT OPTIONS

1. Online Visa Payment Service at [www.tekna.no/intconf](http://www.tekna.no/intconf) upon registration
2. Banktransfer
3. On-site payment with credit card

### BANK DETAILS:

Bank name: DnBNOR  
Bank account : 1644 2555 803  
Swift: DNBANOKXXX  
IBAN NR: NO8016442555803

**Ref code 1002501 and delegates name.**

**This program might be subject to change due to circumstances beyond the control of the organizer.**

### PROJECT MANAGER:

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Layout og trykk: heiliggrafisk.no



The Norwegian Society of Graduate Technical and Scientific Professionals

THIS PROGRAM MAY BE SUBJECT TO CHANGE DUE TO CIRCUMSTANCES BEYOND THE CONTROL OF THE ORGANISER