



nel

## Produced Water Workshop 2018

5-6 June 2018

Jurys Inn Aberdeen Airport Hotel  
Aberdeen, UK



### **About the Workshop**

Building on the success of delivering over 30 Produced Water Management and Oil-in-Water Measurement Conferences globally, TÜV SUD NEL is now organising this year's Produced Water Workshop.

The aim of the event is for interested parties to find out and keep up to date with the latest technological and legislative developments, as well as current practices and trends in produced water management, treatment and handling.

## Workshop Outline

The amount of produced water resulting from oil and gas production continues to rise worldwide. This is accompanied by increasingly more stringent regulatory requirements, e.g. a Risk Based Approach (RBA) is now being implemented across the North Sea. In addition, chemical Enhanced Oil Recovery (EOR) is being hotly pursued by the industry. Produced water returned in these operations however is significantly more difficult to treat.

This is not only because of the resulting tight emulsions, but also due to the added presence of chemicals, such as polymers, in the water which could potentially pose a threat to the marine environment. Also subsea separation and produced water re-injection technologies continue to advance. In addition there is a growing trend in oil and gas production towards unmanned installations. Monitoring of produced water quality for subsea and unmanned platforms remains a technology gap.

To help industry address some of these challenges particularly in the current low oil price environment, TUV SUD NEL is hosting the latest Produced Water Workshop. The two-day event will cover such issues within the industry today with presentations delivered by key industry experts from around the world.

Equipment providers will be showcasing their latest technology developments and sharing their field experience in tackling these issues head on with the supplemental exhibition to the Workshop.

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## Benefits of attending

- Face up to industry challenges by equipping yourself with better technical knowledge and better sector understanding.
- Hear topical industry debate and make informed decisions to shape the direction of your business.
- Make fast informed choices about the cutting-edge equipment and services that will define the future.

## Exhibition Opportunity

Suppliers of equipment and services are invited to exhibit at the Workshop. This will give a select number of organisations a unique opportunity to profile their products and services to the leading industry experts handling produced water.

Please contact us for further information.

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## Workshop Fees, Registration and Enquiries

The delegate fee to attend the two-day event is £900 plus VAT (£1080). This fee includes attendance at the Workshop, delegate package, downloadable proceedings, wifi and lunch/refreshments. There is also a one-day attendance option at £500 plus VAT (£600). Bookings can be made online at [www.tuvnel.com](http://www.tuvnel.com). Payment is required by credit card only.

There is an informal Workshop Dinner planned for the night of 5 June at the hotel. This will be an additional cost of £40 plus VAT (£48).

Accommodation and evening meals are not included in the delegate fee. Please contact the hotel directly to book. There is no agreed accommodation rate.

For any enquiries please contact the Events Team on

+44 (0) 1355 593704 or [events@tuv-sud.co.uk](mailto:events@tuv-sud.co.uk).

## Who should attend?

- Production engineers & chemists
- Environmental engineers/advisors
- Produced water management, treatment, handling specialists
- Regulators



## Venue

Jurys Inn Aberdeen Airport Hotel  
Argyll Road, Aberdeen, AB21 0AF

**T** +44 (0) 1224 725252  
[www.jurysinns.com](http://www.jurysinns.com)

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## About TUV SUD NEL

TUV SUD NEL is a leading provider of independent consultancy, on-site measurement, testing and calibration, research and development, and training services to the global oil & gas industry. We are the UK's National Measurement Institute responsible for the management of the UK's National Flow Measurement Standards.

# PRODUCED WATER WORKSHOP 2018

TUESDAY 5 JUNE

- 0830 – 0900 **Workshop Registration Period**
- SESSION 1 REGULATION, RISK BASED APPROACH (RBA), NAPHTHENIC ACIDS**
- 0900 – 0910 **Chairman Introduction**  
Angus Laurie, CNR International – UK
- 0910 – 0930 **An Update from the Regulator, BEIS**  
BEIS – UK
- 0930 – 1000 **International Practice of RBA - Objectives and Approaches**  
Mathijs Smit, Shell International B.V. – The Netherlands
- 1000 – 1030 **Risk-Based Approach: Assessment of UKCS Discharge Waters**  
Kirit Wadhia, National Oilwell Varco (NOV) – UK
- 1030 – 1100 **COFFEE, EXHIBITION & NETWORKING**
- 1100 – 1130 **Risk Screening - The Netherlands' Approach in OSPAR RBA Implementation**  
Chris Karman, CONEXYS – The Netherlands
- 1130 – 1200 **Marine Environmental Aspects of Polymer Flooding**  
Randi Hagemann, Tone Karin Frost, Audun Gangstad and Karina Heitnes Hofstad, Statoil ASA – Norway.  
Trond Nordtug, Sintef Ocean – Norway  
Dag Altin, Biotrix – Norway
- 1200 – 1230 **Naphthenic Acids in Produced Water: Origin, Current Status and Potential Environmental Impact**  
Saer Samanipour and Malcolm J Reid, NIVA – Norway  
Kevin V Thomas, NIVA/QAEHS – Australia
- 1230 – 1340 **LUNCH**
- SESSION 2 PW CHALLENGES AND NEW TREATMENT TECHNOLOGIES**
- 1340 – 1350 **Chairman Introduction**  
Ming Yang, TUV SUD NEL – UK
- 1350 – 1420 **Produced Water Treatment Challenges in Petrobras**  
Petrobras – Brazil
- 1420 – 1450 **Introduction of New Enhanced Water Treatment Technology Incorporating Advanced Integrated Control & Automation**  
Gerard Cooke, Khalid Thabeth and Ray Acheson, Inov8 Systems Ltd – UK
- 1450 – 1520 **Dynamic Adsorption of Residual Hydrocarbon Oil from Treated Produced Water on Chitosan Grains**  
Gbenga F. Oluyemi, Robert Gordon University – UK  
Hussain Arab, Kuwait Oil Company – Kuwait
- 1520 – 1550 **COFFEE, EXHIBITION & NETWORKING**
- 1550 – 1620 **Ceramic Membranes Enable Produced Water Re-injection/Re-use**  
Shane Wiercinski and Andrea Larson, Siemens Energy Inc. – USA
- 1620 – 1650 **Offshore Field Test of Siemens' Monosep™ Technology for Oil and Particle Removal**  
Svein Viggo Aanesen, Statoil ASA – Norway.  
Shane Wiercinski, Siemens – USA
- 1650 **Chairman's Closing Remarks**
- 1650 – 1830 **Drinks Reception within Exhibition Area**
- 1920 **Pre-Dinner Drinks with Premier Suite**
- 1930 **Pre-Booked Delegate Workshop Dinner**

# PRODUCED WATER WORKSHOP 2018

WEDNESDAY 6 JUNE

0830 – 0850 **COFFEE**

## **SESSION 3 PWRI/CHEMICALS/EORS/NUI**

0850 – 0900 **Chairman Introduction**  
Anne Finborud, Statoil ASA – Norway

0900 – 0930 **Produced Water Reinjection – The Challenges Faced**  
Gayathri Ariaratnam, Nick Roth, Naeem Bhola and James Blake, Jorin Limited – UK

0930 – 1000 **Field Experience of An Innovative Chemical Injection System with Optimised Performance**  
Preben Jørgensen, TechInvent a Yokogawa Company – Norway

1000 – 1030 **Challenge with Low Shear High Pressure Pumps for Polymer Flooding**  
Werner Wieseneder, SONNEK – Austria

1030 – 1100 **COFFEE, EXHIBITION & NETWORKING**

1100 – 1130 **Produced Water Treatment on an NUI – Challenges, Technical Concept, and Operational Experience on a Brownfield Installation**  
Nick Care, Alpha Petroleum – UK  
Jarle Richter Flaata, TechnipFMC – Norway

1130 – 1200 **Challenges in Making an Online Monitor for Produced Water Discharge Reporting for an Unmanned Installation**  
Andrew Hyde, INEOS Oil & Gas UK – UK  
Ming Yang and Zak Latif, TUV SUD NEL – UK  
Steven Tulloch, Independent – UK

1200 – 1310 **LUNCH**

## **SESSION 4 OIL-IN-WATER MEASUREMENT/ONLINE MONITORING**

1310 – 1320 **Chairman Introduction**  
Andrew Hyde, INEOS Oil & Gas UK – UK

1320 – 1350 **Quantitative Discharge Water Analysis using Mobile <sup>1</sup>H NMR**  
Chris Kalli, Lisabeth Wagner, Einar O Fridjonssona, Eric F May, Paul L Stanwix, Brendan F Graham and Michael L Johns, University of Western Australia – Australia

1350 – 1420 **Light Scattering – What Detection Angle(s) to Use for Oil-in-Water Measurement?**  
Axel Schmidt, Deckma – Germany

1420 – 1450 **Monitoring Oil & Solids in Produced Water through Dynamic Imaging Technology**  
Colin Dalton, JM Cauty International Ltd – Ireland

1450 – 1520 **COFFEE, EXHIBITION & NETWORKING**

1520 – 1550 **Automated Process Oil-in-Water Analysis**  
Mike Ponstingl and Richard Nordman, Custom Sensors & Technology – USA

1550 – 1620 **Uncertainties Associated with Oil in Produced Water Measurements**  
Alick MacGillivray and Ming Yang, TUV SUD NEL – UK

1620 **Chairman's Closing Remarks**





## To book a place on this Workshop please contact:

+44 (0) 1355 593704

[events@tuv-sud.co.uk](mailto:events@tuv-sud.co.uk)

TUV SUD NEL is trading name of TUV SUD Ltd, a company of the TÜV SÜD Group, the leading global technical services organisation. Around 24,000 employees are represented at over 800 locations throughout the world.

For further details on how we can help your business, please visit [www.tuvnel.com](http://www.tuvnel.com) or contact us directly.

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