



National Engineering
Laboratory

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Produced Water Workshop 2019

11-12 June 2019

Jurys Inn Aberdeen Airport Hotel
Aberdeen, UK

About the Workshop

Building on successful delivery of workshops relating to produced water management and oil-in-water measurement for almost 20 years, TÜV SÜD National Engineering Laboratory is now organising its next Produced Water Workshop to be held in Aberdeen on 11-12 June 2019.

The objective of the Workshop is for interested parties to find out and keep abreast of the latest technological and legislative developments, as well as current practices and trends in produced water management, treatment and handling.

With the continued recovery of the oil price, it is important to manage produced water optimally to maximise oil production and to keep the costs under control.

The event is designed for those who are interested in produced water treatment, management and handling. We now invite regulators, offshore operators, service companies, technology and equipment suppliers as well as consultancy and R&D organisations to participate.

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. Risk Based Approach (RBA) is now being implemented across the North Sea. Also in Brazil, a recent change of oil-in-water measurement method means that organic acids that were excluded previously in compliance monitoring now need to be included. 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 presence of added chemicals, such as polymers, present in the water which could potentially pose a threat to the marine environment. In addition, online oil-in-water monitors continue to play an important role in process trending and optimisation. However, there is a strong need by the industry to utilise these monitors for produced water discharge reporting purposes. Few applications currently exist.

To help industry address some of these challenges TÜV SÜD National Engineering Laboratory is hosting the latest edition of the 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.

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.tuv-sud.co.uk/nel/produced-water-workshop.

Payment is required by credit card only.

There is an informal Workshop Dinner planned for the night of 11 June at the hotel. This will be at 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.

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

Tel: +44 (0) 1224 725252
www.jurysinns.com

About us

TÜV SÜD National Engineering Laboratory 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. As the holder of the UK's National Standards for flow measurement, we are one of the foremost authorities on flow measurement technology in the world today.

PRODUCED WATER WORKSHOP 2019

TUESDAY 11 JUNE

- 0830 – 0900 **Workshop Registration Period**
- SESSION 1 GENERAL, RISK BASED APPROACH (RBA) AND NAPHTHENIC ACIDS**
- 0900 – 0910 **Chair Introduction**
Sean Hayes, PremierOil – UK
- 0910 – 0940 **The Balance Approach Between the Regional Environmental Challenges, Disposal of PW and the ReInjection of PW**
Wally Georgie, Maxoil Process Consultancy – USA
- 0940 – 1010 **DREAM Developments – Meeting Future Requirements of Risk and Impact Assessment**
Petter Rønningen, Ståle Johnsen and Atle Kleven, SINTEF Ocean – Norway
- 1010 – 1040 **Measurement and Characterization of Naphthenic Acids Found in Produced Water at Petrobras**
Petrobras – Brazil
- 1040 – 1110 COFFEE, EXHIBITION & NETWORKING**
- 1110 – 1140 **Quantification of Naphthenic Acids in Produced Water from Norwegian Offshore Oil Platforms in the North Sea**
Saer Samanipour and Malcolm J. Reid, Norwegian Institute for Water Research (NIVA) – Norway
Kevin V. Thomas, Norwegian Institute for Water Research (NIVA) – Norway and Queensland Alliance for Environmental Health Science (QAEHS), University of Queensland – Australia
Tone Karin Frost, Equinor – Norway
- 1140 – 1210 **Oil/Water Partitioning of Naphthenic Acids and Consequences for Produced Water**
Are Bertheussen, Marcin Dudek, Sébastien Simon, Gisle Øye and Johan Sjöblom, Norwegian University of Science and Technology (NTNU) – Norway
- 1210 – 1320 LUNCH**
- SESSION 2 PW TREATMENT CHALLENGES AND SOLUTIONS**
- 1320 – 1330 **Chairman Introduction**
Sander de Kruijf, Shell – The Netherlands
- 1330 – 1400 **Challenges in Produced Water Treatment at Petrobras**
Silvio Edegar Weschenfelder, Petrobras – Brazil
- 1400 – 1430 **Variable Mixer Development for Enhanced Performance of the EPCON Dual CFU**
Ian Smyth, Steinar Ashdahl, Michel Maelum and Erik Kjendalen, Schlumberger – UK/Norway
- 1430 – 1500 **Advanced New Coalescence Filtration Media for Produced Water Treatment and Reuse**
J.B. Kok, A. Lasalle and M Hendou, Veolia Water Technologies – The Netherlands
- 1500 – 1530 COFFEE, EXHIBITION & NETWORKING**
- 1530 – 1600 **Dissolved Components in Produced Water and Their Influence on Flotation Efficiency**
Gisle Øye, Norwegian University of Science and Technology (NTNU) – Norway
- 1600 – 1630 **Polymer Flooding Produced Water Reuse by Ceramic Membranes**
Wayne Evans, Veolia Water Technologies – UK
Mouloud Hendou, Veolia Oil & Gas – France
Elodie Singlande-Mauvernay, Catherine Daines-Martinez, Guillaume Scherpereel and Didier Witkowski, Veolia Recherche & Innovation (VERI) – France
- 1630 – 1700 **Development and Field Trial of a New Generation Compact Flotation Unit**
Rune Glenna Nilssen, Joern Folkvang and Svein Tore Daaas, Stauper Offshore AS – Norway
- 1700 **Chairman's Closing Remarks**
- 1710 – 1830 **Drinks Reception within Exhibition Area**
- 1920 **Pre-Dinner Drinks within Premier Suite**
- 1930 **Pre-Booked Delegate Workshop Dinner**

PRODUCED WATER WORKSHOP 2019

WEDNESDAY 12 JUNE

- 0830 – 0850 **COFFEE**
- SESSION 3 EOR, PWRI AND BIOLOGICAL TREATMENT**
- 0850 – 0900 **Chairman Introduction**
Anne Finborud, Equinor ASA – Norway
- 0900 – 0930 **Good Practice in Design of PWRI Systems**
Sean Hayes, PremierOil – UK
- 0930 – 1000 **Injected and Produced Water Quality Related to Field Piloting of Alkaline Surfactant Polymer EOR**
Sander de Kruijf & Ron Bouwmeester, Shell – The Netherlands
- 1000 – 1030 **An Innovative Integrated Process to Efficiently Treat Toxic Dissolved Organics from Produced Water**
Camille Sagne, Suez Water Technologies and Solutions – France
Marc Philibert, Suez CIRSEE – France
- 1030 – 1100 **COFFEE, EXHIBITION & NETWORKING**
- 1100 – 1130 **Influence of HRT Reduction on Flat Sheet Ceramics MBR Performances for Oil & Gas Wastewater Treatment**
C. Sambusiti, M. Saadouni, V. Gauchou, B. Segues, P. Baldoni-Andrey and M. Jacob, TOTAL SA, PERL – France
- 1130 – 1200 **Biological Active Sludge – Can it be Used to Treat Produced Water from Offshore?**
Pernille Lyngsie Pedersen and Jonathan Cope, RGS Nordic – Denmark
- 1200 – 1310 **LUNCH**
- SESSION 4 PRODUCED WATER QUALITY/OIW MEASUREMENT**
- 1310 – 1320 **Chairman Introduction**
Ming Yang, TÜV SÜD National Engineering Laboratory – UK
- 1320 – 1350 **Use of Online OiW Monitoring for Digital Authority Reporting**
Børge Olafsen, AkerBP – Norway
Erik Mannseth, ProAnalysis AS – Norway
- 1350 – 1420 **Improving Produced Water Quality in Field Operations with On-line Characterization of Oil Droplets and Solids in Produced-Water Streams**
K.P. Struijk and W. Koot, Shell Global Solutions International B.V. – The Netherlands
A.G. Straumbotn, A/S Norske Shell – Norway
P.M. Bjellvaag, OKEA AS – Norway
- 1420 – 1450 **Recent R&D Activities for Developing an Improved Vision Based Monitor for OiW & TSS Measurements in Produced Water**
Colin Dalton, JM Canty International Ltd – Ireland
Tod Canty, JM Canty – USA
- 1450 – 1520 **COFFEE, EXHIBITION & NETWORKING**
- 1520 – 1550 **Field Results from an Innovative Solution to Online Oil-in-Water Measurement, and Updates on Future Development**
Russell Hempsey, Inov8s – UK
- 1550 – 1620 **Development of the New ASTM D8193 Standard Method for Oil-in-Water Measurement**
Niklas Christensson, Eralytics – Austria
- 1620 **Chairman's Closing Remarks**



To book a place on this Workshop:

**Please visit www.tuv-sud.co.uk/nel/produced-water-workshop
or contact us directly.**

TÜV SÜD National Engineering Laboratory
East Kilbride
Glasgow
G75 0QF
United Kingdom

T: +44 (0) 1355 593704
E: events@tuv-sud.co.uk