

# newsletter

EDITION 1 - AUTUMN 2007

proanalysis

## New ultrasound-based cleaning technology

A major challenge for traditional on-line Oil in Water monitors has been the handling of material deposition on active optical surfaces towards the water treatment process. The new Argus® OiW monitors from ProAnalysis will solve this problem, and can now be delivered with both laser-based and ultrasound-based cleaning of the in-line probe.

ProAnalysis is targeting technology for robust, reliable and accurate measurements of Oil in Water (OiW) under any process conditions. This has been the driving force behind the development of our Argus® technology platform for in-line on-line OiW monitoring based on the well-established optical measurement principle of fluorescence.

### Laser-based cleaning

A critical success parameter for in-line optical measurements in a contaminated process environment is, in general, the system's ability to handle deposition of any material onto active optical surfaces (wax, oil, scale, grease etc.). For this purpose, ProAnalysis initially developed its unique, patented laser-based cleaning technology – a system to remove most contaminants on Argus' process interface - with no moving parts or requirements of any consumables for operation. This solution is well integrated with our Argus Environment and Argus Process products.

### Ultrasound-based cleaning

To further strengthen our ability to handle the harshest of process conditions, heavy soft-scaling, ProAnalysis has now developed an innovative and robust cleaning technology based on ultrasound. The new OS (OptoSono) probe, targets Argus-installations where heavy soft-scaling causes significant challenges to any inline instrumentation. Under such conditions, its high-energy ultrasonic excitation will leave Argus®' active optical surfaces clean, resulting in a reliable flow of accurate Oil in Water measurement data to the operator – with no (or low) requirements for instrument maintenance. Ultimately, ProAnalysis' Argus® technology provides the operator with an effective tool for produced water management and cost optimisation.



Ultrasound keeps the active surface of the OptoSono probe clean.

## Meet the new Managing Director

Reliability is one of the most important success factors in our line of business; Oil in Water measurement. If you cannot trust the readings, the basis on which the technology is built will collapse and you will at best become a supplier of second-rate information. Traditionally, this is how Oil in Water monitors have been perceived.



Gunnar Alfheim  
Managing Director of ProAnalysis

Reliability is an important attribute for organisations and its people as well. A person unable to keep his promise cannot be trusted. A company which does not deliver on its promise will soon find its credibility undermined. This is not to say that everything always runs smoothly - but it does mean that you can expect to be told the truth.

At ProAnalysis, reliability is one of our most important core values. In terms of challenges as well as solutions, we will always be upfront with you as a customer. We are thus not satisfied until we can deliver an Oil in Water monitor which is reliable even under the most challenging process conditions. With our new ultrasound cleaning technology, this has become reality.

My aim is for you to be able to trust ProAnalysis and our team, and equally importantly, be able to trust the information you receive from our OiW monitors.

*Gunnar Alfheim took up the position as Managing Director of ProAnalysis on 15 June 2007.*

## ProAnalysis AS

ProAnalysis AS delivers innovative and cost-effective Oil in Water monitoring solutions for the O&G industry based on optical sensor technology, combining technological insight with a understanding of user needs.

Our vision is to be a preferred supplier of optical sensor solutions for process and environmental monitoring.

ProAnalysis is located in Bergen, on the west coast of Norway. Our offices are in the High-Technology Centre, in close proximity to the University of Bergen.

## Key contact persons

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