CPD 1.5 hrs

Evening Technical Meeting

Innovation in IMR

Wednesday 14th August 2019

Parmelia Hilton Hotel (Swan Room), Mill St. Perth

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Society for Underwater Technology

Fast Automated Subsea Testing: **Greg Smith – General Manager, C-Kore**

The Sensor Monitor is a new tool for reading subsea sensors during decommissioning and fault-finding operations. It can be configured by the end-user to record and display measurements from subsea sensors in real time on the built-in display.

The tool was designed in consultation with a North Sea operator who required visibility of wellhead pressure readings during decommissioning, when a functioning subsea control module and datalink are no longer available. The tool enables safe operations on the wellhead for divers and prevents the accidental release of hydrocarbons due to unexpected pressure conditions.

The philosophy behind C-Kore's product design is to simplify subsea testing. This is achieved by automating the measurement process in compact subsea-rated units.

This presentation covers the features of each of C-Kore's tools and how their deployment offers benifits over traditional downline or platform-led testing. Also included will be a demonstration of how specific tools can be used together on complicated work scopes and case studies from recent C-Kore deployments.

Remote Operations – Enabling Technologies: **Stefan Haliczenko, Remote Operations Superintendent, Fugro**

The methods by which oil & gas operators inspect, maintain, monitor and repair their subsea Oil and Gas infrastructure is constantly changing and evolving, driven by the search for safer, reliable and more cost effective methods. Remote ROV, Inspection and Survey operations are redefining the execution of offshore oil and gas projects by providing:

- Lower risk workplaces by relocating personnel from traditionally offshore based roles to onshore
- Lower accommodation requirements on assets thus reducing the need for larger vessels
- Immediate client data transfer, real-time communication and interaction capability.
- High quality video and audio platform for greater connectivity with remote sites.
- High capacity transmission of data in real time without the need for site based processing.

Registration: 5.30 pm
Presentations: 6.00 pm – 7.30 pm
Networking over food/drinks
7.30 pm – 8.30 pm

This presentation discusses the new technologies enabling the shift towards remote operations, and their application for future projects.

Subsea Deployed Acoustic Resonance Technology: **Stephan Freychet – Senior Project Manager, Halfwave**

Autonomous External inspection of Subsea pipeline infrastructure has traditionally been carried out on pipelines which cannot be inspected by traditional UTWM or MFL in line inspection tools. New field developments, with subsea processing, tie-ins, deep water developments, are all increasing the complexity, while reducing our ability to inspect and safeguard the integrity of subsea assets.

Traditionally, subsea external inspection is associated with very high costs per feet of inspected pipe. Several new and innovative inspection methods have been introduced in recent years, ranging from Internal crawler solutions to decrease the cost per feet by reducing duration of the operations. External radiography, and tomography applications have introduced coating penetration capabilities, to reduce the need for surface preparation on certain pipelines dimensions.

This presentation will explain where the advantages of Acoustic Resonance Technology (ART) can be used to penetrate corrosion coating to detect sub millimeter metal loss, while covering relatively large distances of pipe

E-ROV System: **Brett Phillips – Technical Solutions Manager, Oceaneering**

•TheThe Empowered Remotely Operated Vehicle (E-ROV) system developed by Oceaneering, is the world's first self-contained, battery-powered work-class ROV controlled from onshore via a surface communication buoy.

The E-ROV system includes: A subsea ROV-garage, Oceaneering® eNovus ROV, Advanced 4G LTE network communication system using a surface buoy & Oceaneering® Remote Piloting and Automated Control Technology (RPACT)

The E-ROV system consists of a reliable surface buoy system, a cage housing battery power, and a work-class ROV. The ROV-subsea garage is connected to the surface communication buoy via a fiber cable, allowing remote control from the shore.

Piloting from onshore is made possible using Oceaneering's remote piloting and automated control technology. By safely transferring the ROV's control data and live, high-definition video via satellite, fiber cable or high-bandwidth terrestrial network, or as in this case via 4G LTE network through a surface buoy, we have full real-time control of the ROV and its tooling.

Registration Costs	Early Bird (ends 7 August)	Regular (from 8 August)	Onsite
Member: Student/Individual/Corp	$30*	$40	$45
Non-Members	$50	$60	$65
5 Ticket Member Pass	$125	$200	$225
5 Ticket Non-Member Pass	$225	$300	$325

Thank you to our event sponsors:

C-Kore Simplify Subsea Testing

FUGRO

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