



IOM³-ICORR ABERDEEN BRANCH JOINT MEETING

Palm Court Hotel

81 Seafield Road, Aberdeen AB15 7YX
18:00 Complimentary Light Buffet & Networking
18:15 Technical Presentations

TUESDAY 29TH NOVEMBER, 2016

FAILURE ANALYSIS (SPECIAL EVENT) - DON'T BE LET DOWN BY CORROSION!

1ST TOPIC: Managing Marine Corrosion on Offshore Wells - avoiding structural failure
A look at the last 30 years of corrosion to the external surface casing and its impact on well integrity
PRESENTER: Ian Taylor (Shell)

As the North Sea Oil and Gas Province continues into its 5th decade the challenge remains to extend the lifetime of what you have. One of the biggest obstacles to extending the lifetime of a well is maintaining its structural integrity. Wells have been exposed to the extremes of the North Sea since the 1960s and the supporting casings remain under attack from the elements. The corrosion to the external casings of wells is not dis-similar to that seen on piers and bridges and the loads in wells are not insignificant. Repairs are not easy to make and without the required supporting load, the only option is abandonment.

The presentation focuses on the level of corrosion that has been experienced in these wells and how the structural integrity of the well has been impacted. The talk will focus on the following areas:-

- Understanding how the well is constructed and what was the design basis for the outer casings. How is the structural load supported ?
- What level of corrosion have we seen - and what failures have occurred - did we design for this ?
- What can we do to measure and manage the wall loss we have seen – and can we predict the failure point ?
- Can we repair it ?
- What's the impact on well abandonment and future operations ?

A case study of a recent repair will be presented to demonstrate the complexity of the operation.

2ND TOPIC: A Leak on a Riser within the Platform Leg – Analysis, Resolution and Lessons Learnt

PRESENTER: Fraser Selfridge (TAQA)

This presentation provides a high-level summary of the COA Leg C4 Leaks (Q1 2013).

- Identification of root cause of leaks
- Review of how the corrosion threat was not identified prior to first leak
- Inspection methods utilised and developed in response to leaks, and
- Lessons learned.

This event is **Free** for members and non-members to attend.

Join our events mailing list at <https://sites.google.com/site/icorrabz>

ICORR ABERDEEN BRANCH SPONSORS

CLARIANT



DEEPWATER



ICORR GOLD SPONSORS

Corrpro Companies Europe Ltd

ICORR SUSTAINING SPONSORS

CAN Offshore, Exova, North East Corrosion Engineers, Oceaneering International Services, Plant Integrity Management, R&R Corrosion, Sonomatic Limited, Spencer Coatings, Torishima Services Solution.

<http://www.icorr.org/branches/aberdeen.phtml>