

ICORR ABERDEEN BRANCH JOINT MEETING WITH AMPP

Tuesday 30th May 2023, Start Time: 18:00 (UK Time)

Hybrid Event (in-person & online) at:

**The Palm Court Hotel,
81 Seafield Road, Aberdeen, AB15 7YX**

For Zoom Registration :

https://us06web.zoom.us/webinar/register/WN_TuGBWFnAT0KhBRvUqbETog

Event is Free of Charge to attend.

Maintenance and Repair Solutions for Damaged or Aged PFP

Speakers: David Wickham & Chris Fyfe of AkzoNobel

Event Programme:

17:50 – 18:00 Webinar Login / Set-Up. Audience seating at Site.
18:00 – 18:15 Introductions ICorr
18:15 – 18:55 Technical Presentation
18:55 – 19:05 Q&A Session
19:05 – 19:10 Closing Remarks ICorr.

The Talk:

Maintenance and Repair Solutions for Damaged or Aged PFP

Many aged facilities have reached, or are reaching, the end of their original design life. However, in many cases these facilities are required to continue operation beyond this time. This poses many operational health and safety issues amongst which is the efficacy of in-situ passive fire protection (PFP) that may have been applied when the facility was first commissioned. In many cases this PFP will have deteriorated to a point where it may not provide the required protection in the event of a fire event.

Where this damage may be extensive this can create difficult economic Maintenance and Repair (M&R) decisions to overcome. M&R resources are not limitless and where repair priorities have been identified selecting the most efficient repair solutions becomes important. The 2 most important requirements are demonstrable fire resistance performance and costs – costs being not just material costs but costs of installation. In many cases the latter may far outweigh the former. Costs of installation may have a significant bearing in active process areas subject to limits on operational activities (such as surface preparation).

On older upstream and downstream facilities in-situ PFP may comprise structural steel encased in dense concrete, Light-Weight Cementous (LWC) or other systems.

Where these types of PFP are cracked or damaged they may expose the substrate leading to accelerated corrosion, operational integrity concerns and dropped object hazard in addition to the concerns about continued PFP functionality. The true extent of all underlying corrosion may not be immediately apparent, and removal/replacement is normally the best course of action.

AkzoNobel recognizes how M&R activities surrounding PFP performance are integral to maintaining plant operational safety by allocating limited M&R budgets more effectively – this includes identifying and prioritizing the damage of most concern (fire integrity assessment – what damage level will not meet the site fire scenario) and providing repair materials that: -

- i. Have proven fire resistance performance, and
- ii. Offer ease of installation

This presentation provides an overview of the ongoing work programme to develop solutions that are designed to ease the burden on industry in continued safe operation of older assets.



Chris Fyfe

A PFP Senior Field Auditor & Coach.

As a Chartered Scientist, Senior Corrosion Technologist and Fellow member of Institute of Corrosion, Chris also holds a AMPP Senior Level 3 coating qualification. He has extensive knowledge in both new build and maintenance projects ranging over 35 years with several Operators and has been employed as a Surface protection specialist and Fabric maintenance coordinator understanding first-hand the many challenges for maintenance and repair.

Chris is part of a steering group in the development of:

- Guidance documents for in-service management of PFP coatings and system.
- Guidance on PFP for process and storage plant and equipment.

Published 2 key articles:

- Fabric Maintenance of the UK Oil & Gas (mature) infrastructure and
- Meeting the Offshore Maintenance Challenge.

Operator Experience:

- Fabric Maintenance (FM) Lead and Surface Protection Specialist - **ConocoPhillips** Apr 2008 - Feb 2017 · 9 yrs.
- FM Coordinator FM Co-ordinator - **Spirit Energy** · Spirit Energy · Jun 2018 - Aug 2022 · 4 yrs.

Chris is a Chartered Scientist, Senior Corrosion Technologist and Fellow of the Institute of Corrosion; and also holds a AMPP Senior Level 3 coating qualification.



David Wickham

A practising fire and explosion engineer with 24 years' experience in the field of 'Passive Fire Protection'.

David is a Chartek Fire Engineer / Technical Manager, Fire Protection, holds a Masters degree in Fire and Explosion Engineering from the University of Leeds, UK (2002); and is also an ICorr PFP Epoxy Coating Inspector Level 3.

He is a member of the Institution of Fire Engineers (MIFireE Grade No. 00036472); and also a visiting lecturer on the MSc course, presenting on 'Aspects of fire protection in building design'.

David is currently the Fire Protection Technical Manager at International Paint (part of AkzoNobel) for 11 years and was previously a Fire Engineering Manager for a further 3 years prior to his current role; including an 18-month position in Norway as a fire engineer between AkzoNobel employments.

He is responsible for providing technical support for upstream and downstream oil and gas projects, fire protection in the Built Environment and 'special projects' and has particular expertise in the area of 'fire testing and evaluation of test data' to support accreditation and certification of products to global fire test standards.

Along with fire protection in M&R, he is currently a project leader looking at solutions for fire protection for battery electrical energy storage systems (BEES).

Additional Information:

- Registration for this event may close hours before the start.
- If this is an online event you must register and acquire the Zoom Link to attend.
- Registration information will be shared with our Branch volunteers to help facilitate the event.

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