



ICORR ABERDEEN BRANCH EVENING TECHNICAL PRESENTATION

IN-PERSON Event

Event Address: 3T Training Services, Kirkhill Commercial Park, Dyce Ave, Aberdeen AB21 0LQ

Registration LINK: <https://forms.gle/3kZVmAf1wdomzceRA>

Tuesday 28th April 2026, Start Time: 18:00
This event is free to attend (Refreshments will be provided)
Please book early as places are limited for this event

How Surface Preparation Quality Determines Coating Performance and Why Abrasive Selection is a Decisive Factor

Speaker: Lily You of OneGarnet Group

Approximate Event Programme:

17:45 – 18:00	Registration/Safety Induction
18:00 – 18:10	Networking & Refreshments
18:10 – 18:20	Introduction - ICorr & One Garnet
18:20 – 19:20	Technical Presentation & Demonstration
19:20 – 19:30	Q&A Session
19:30	Closing Remarks - ICorr

Synopsis:

Many industrial coating failures originate not from poor materials or inadequate film thickness, but from defects at the steel-coating interface resulting from insufficient surface preparation. This study explores the critical role of interface control in corrosion protection, emphasizing how abrasive blasting and abrasive material selection directly influence surface conditions and long-term coating performance.

Underfilm corrosion begins when moisture, oxygen, and soluble salts penetrate the coating and initiate localized electrochemical reactions at the substrate. Residual contaminants, especially chlorides and sulphates, can lead to blistering, adhesion loss, and structural degradation even beneath coatings that appear intact.

Four interface parameters must be controlled to prevent such failures: surface cleanliness, residual dust, surface roughness, and salt contamination. Abrasive blasting remains the most practical method to manage these variables, but outcomes depend heavily on abrasive characteristics such as hardness, angularity, particle strength, and purity.

This presentation compares the performance of commonly used abrasives, including slag, steel grit, and garnet, with respect to cleanliness levels, profile consistency, dust generation, and salt retention. Emphasis is placed on how abrasive properties such as hardness, angularity, and purity influence coating performance and long-term durability.

The findings support a shift in how surface preparation is viewed: not as a procedural task, but as an engineering decision central to corrosion resistance and coating system integrity.

Presenter:

Lily You, Business Development at OneGarnet Group, brings 16+ years of global expertise in industrial garnet abrasives. She leads global business development, focusing on high-performance almandine garnet solutions for surface preparation and waterjet cutting. Specializing in coating adhesion and asset durability, she drives innovation for OneGarnet and JadeCut, delivering sustainable, cost-effective solutions worldwide.



Additional Information:

- **Event Address:** 3T Training Services, Kirkhill Commercial Park, Dyce Ave, AB21 0LQ
- **For Continuing Professional Development (CPD) or to join our Mailing List, request by email to:** ICorrAbz@gmail.com
- **Registration Link:** <https://forms.gle/3kZVmAf1wdomzceRA>

Event Sponsors (ICorr): We gratefully acknowledge all of our loyal **Branch** and **National** Sustaining Sponsors:

BRANCH



NATIONAL

1. CAN (OFFSHORE) LTD
2. CHEMCO INTERNATIONAL LTD
3. CORRPRO COMPANIES EUROPE
4. HEXIGONE INHIBITORS LTD
5. HODGE CLEMO LTD
6. ICR INTEGRITY LTD
7. INFRASTRUCTURE ANALYTICS LIMITED
8. LAKE CHEMICALS & MINERALS LIMITED
9. MILLER FABRICATIONS LTD
10. OWENS CORNING FOAMGLAS INDUSTRY
11. PLANT INTEGRITY MANAGEMENT LIMITED
12. PMAC INSPECTION LTD
13. PRESSERV LTD
14. R&R CORROSION LTD
15. SEM ENERGY LTD
16. SONOMATIC LIMITED