



R-TECH
MATERIALS

Corrosion Mechanisms in Stainless Steels

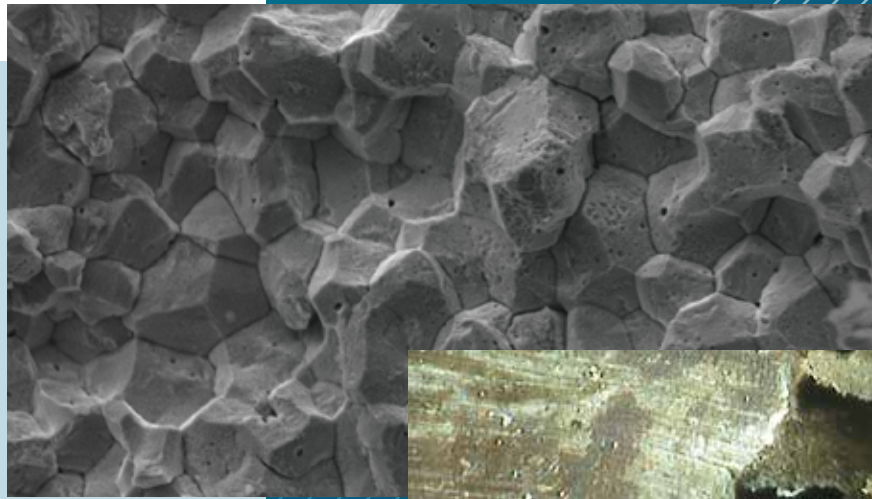
Wednesday 27th November
10am – 4pm

Village Hotel Aberdeen, Prime Four,
Kingswells Aberdeen, AB15 8PJ

Corrosion causes plant shutdowns, waste of valuable resources, loss or contamination of product, reduction in efficiency, costly maintenance, expensive over design and jeopardises safety. This course addresses the various corrosion mechanisms which can occur when using stainless steel materials in various industries.

Real-life case studies and solutions from our vast experience in Failure Analysis will be presented.

**Course cost: £425 + VAT for BSSA & ICORR members,
£475 + VAT for non-members**



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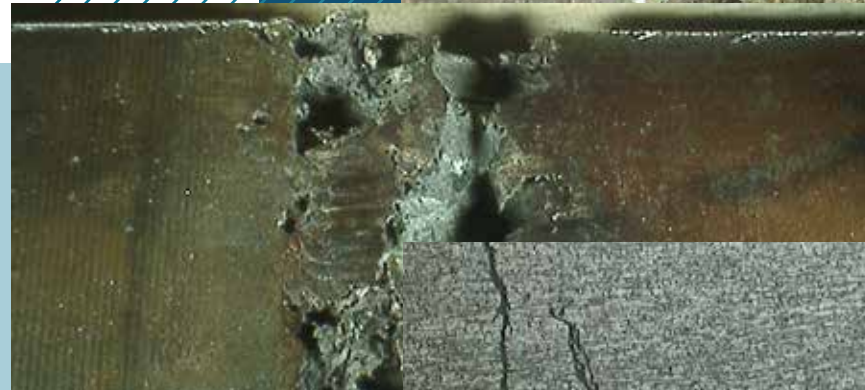
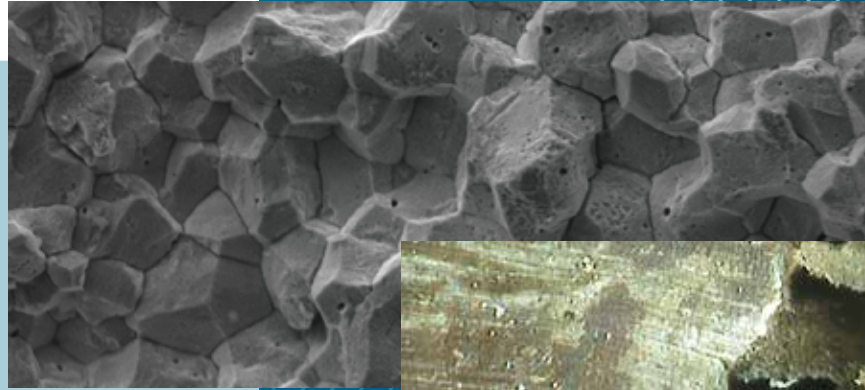
The course structure will include the following:

1. Introduction
2. Overview of corrosion
3. Sensitisation
4. Tea Staining
5. Rouging
6. General/uniform corrosion
7. Pitting corrosion
8. Selective attack
9. Chloride stress corrosion cracking
10. High temperature corrosion
11. Polythionic Acid stress corrosion cracking
12. Microbial corrosion
13. Crevice corrosion
14. Corrosion under insulation
15. Hydrogen Induced Stress Cracking
16. Galvanic corrosion
17. Caustic stress corrosion cracking
18. Erosion Corrosion
19. Corrosion Fatigue

Each mechanism will include the following:

- A description of the failure mechanism and critical factors.
- How to identify the mechanism.
- Locations affected within the industry.
- Affected material types.
- Recommendations on how to prevent the damage mechanism, including inspection and monitoring.
- 1 or 2 case studies related to the mechanism.

Handouts will be provided on completion of the course.



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