BSSA

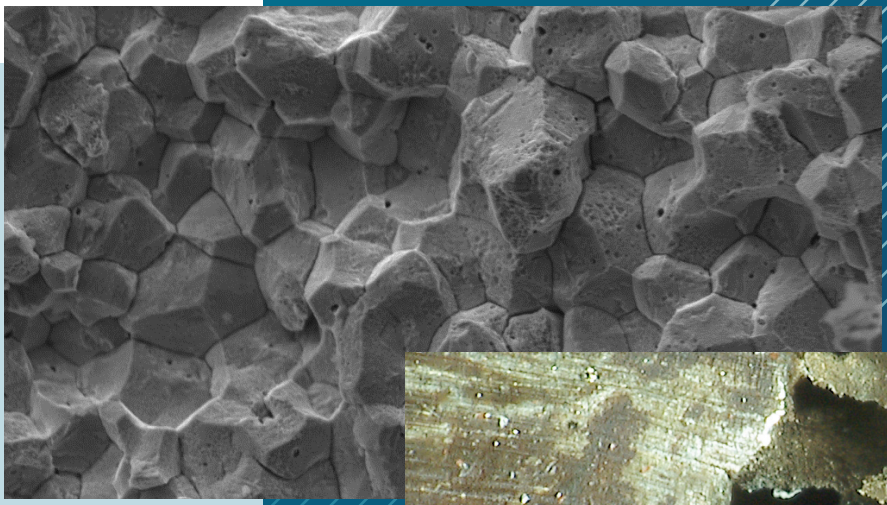
INSTITUTE OF CORROSION

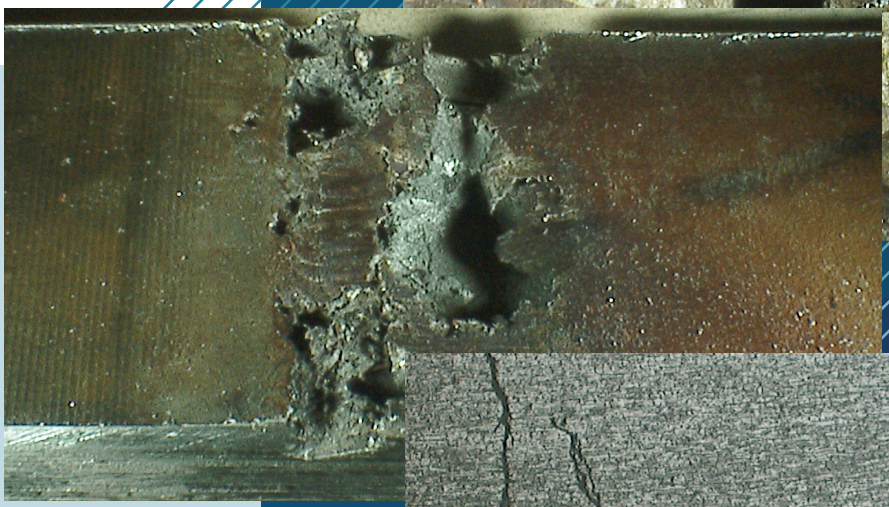
R-TECH MATERIALS

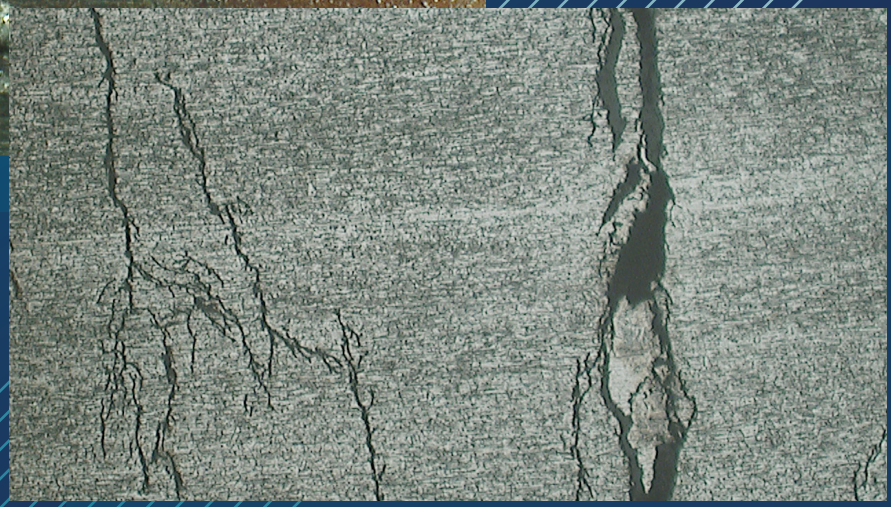
Corrosion Mechanisms in Stainless Steels

Wednesday 15th January
10am – 4pm (GMT)

ONLINE COURSE







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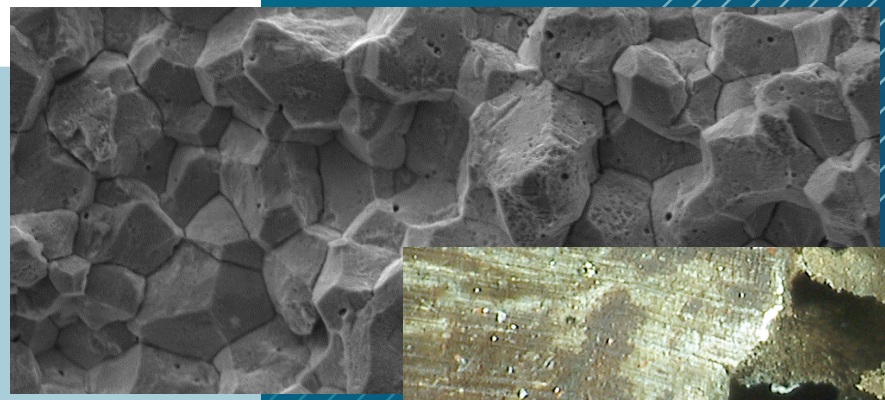
Corrosion causes plant shutdowns, waste of valuable resources, loss or contamination of product, reduction in efficiency, costly maintenance, expensive over design and jeopardises safety. This course addresses the various corrosion mechanisms which can occur when using stainless steel materials in various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

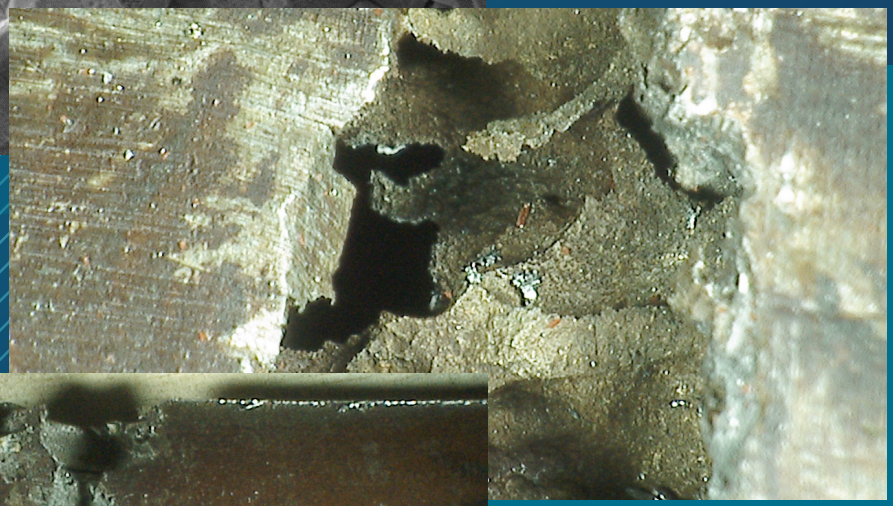
Real-life case studies and solutions from our vast experience in Failure Analysis will be presented.

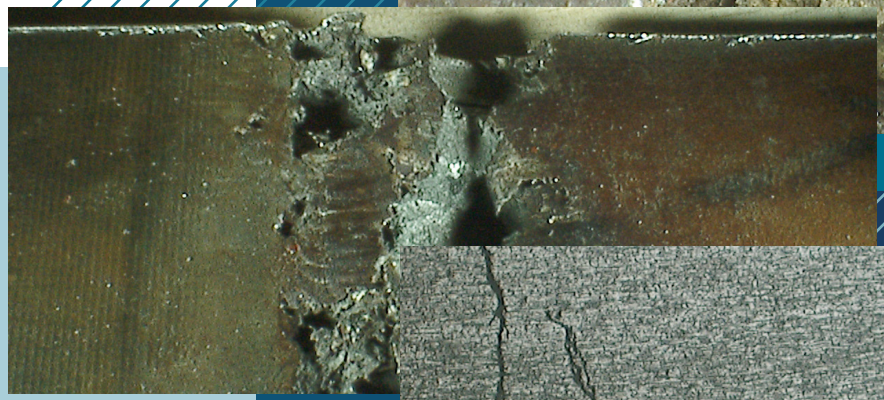
Course cost: £325 + VAT for members, £375 + VAT for non members

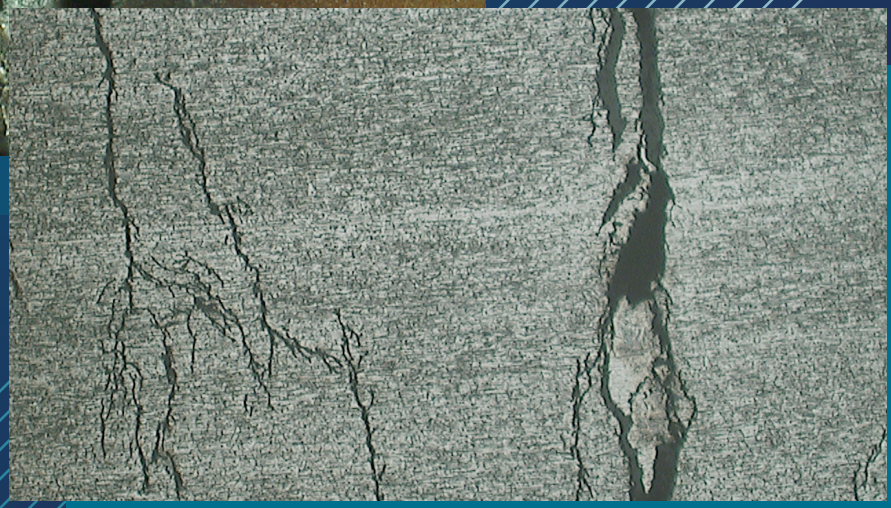
The course structure will include the following:

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









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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.