WEBINAR
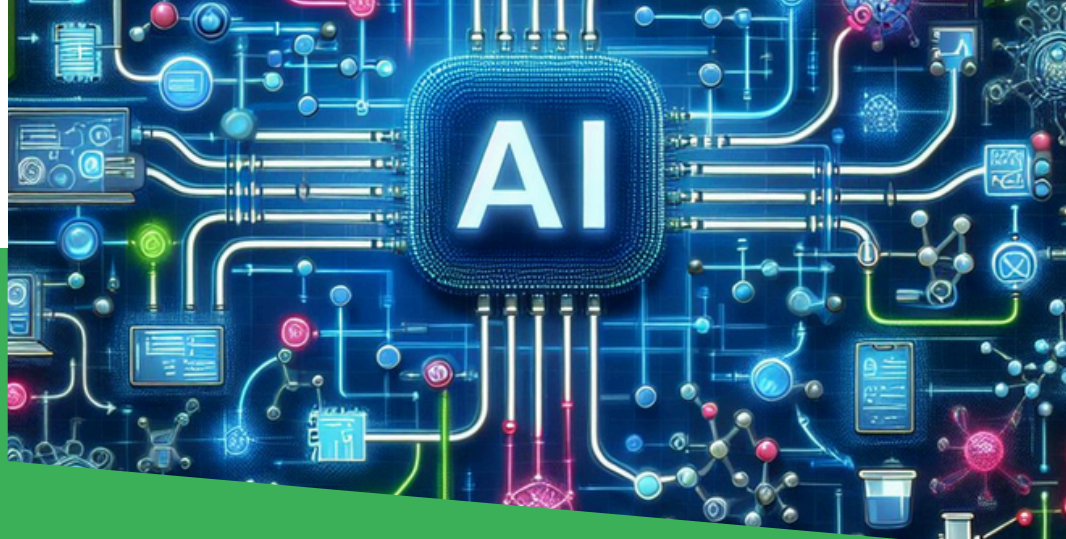
FROM DATA TO DECISIONS: LEVERAGING AI AND ML IN CORROSION SCIENCE, MATERIALS ENGINEERING AND MANAGEMENT

9:00-9:10 Welcome / EFC activities / Presentation & objectives of the webinar by **Mr Pascal Collet** - EFC

9:10-9:35 Development of new ML technology and application to bio- and nanomaterials and, materials for energy and environment applications by **Prof David Winkler** - Monash University, Australia

9:35-10:00 AI-driven corrosion inhibitor discovery based on quantitative structure-property relationships by **Dr. Christian Feiler** - Helmholtz-Zentrum Hereon, Germany

10:00 - 10:25 The detection, prevention and mitigation of Corrosion: Connecting Molecular Science to Engineering by **Prof Nicholas Harrison** - Imperial College, UK

11::00 - 11:25 AI-driven Monitoring and Detection for Industrial Corrosion by **Mr Chee Zhen Qi & Dr Tan Shiliang Johnathan** - Matcor Technology & Services Pte Ltd, Singapore

11:25 - 11:50 Future of Digital Twin for corrosion management and compliancy by **Mr Christophe Baeté** - Elsyca BV, Belgium

11:50 - 12:15 Case studies of Generative AI related to Documentation, Conformity and Maintenance by **Mr Antonin Braun** - Aquila Data, France

12:15 - 12:50 PANEL TABLE about the requirements for ML to earn the trust of asset owners, maintainers and the scientific community, moderated by **Dr Axel Homborg** - Netherlands Defence Academy, the Netherlands

MODERATORS : **Prof Mikhail Zheludkevich** (Helmholtz-Zentrum Hereon) **& Dr Axel Homborg**

MAY 13, 2025 - FROM 9 AM TO 1 PM (CET TIME)

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