Announcement of a session on "Corrosion Control in Defence Systems"

EUROCORR
THE ANNUAL CONGRESS OF THE EUROPEAN FEDERATION OF CORROSION
PRAGUE 2027
23TH INTERNATIONAL CORROSION CONGRESS
ICC PRAGUE2027

Don't forget…abstract submission deadline: January 31, 2027!

Problem

Contrary to their civilian counterparts, defence systems in the first place should be effective, with efficiency and cost-effectiveness being less critical. Differences in e.g. usage, loading conditions and standards lead to notable differences in design between defence and civilian systems. Solutions for the protection, monitoring and prediction of corrosion on civilian systems are therefore not necessarily suitable for military applications. As a consequence, corrosion of defence systems becomes increasingly difficult to control.

Topics

- Hexavalent chromium-free pretreatment- and protection systems and corrosion preventive compounds (CPCs) potentially suitable for multi-materials combinations in military application, with special attention for military standards;
- Accelerated testing methods and standards to qualify metals and coatings (i.e. non-toxic inhibitors…) with special attention for the correlation between lab and field;
- Monitoring solutions including NDI to assess corrosion damage, environmental sampling and severity measurement suitable for military loading conditions;
- Modelling of corrosion effects, inhibitor/protection effectiveness, remaining useful life and risk management under military loading conditions.

Vision statement

As a scientific group, we aim to avoid technology that shall be used for offensive purposes. In our vision, the EFC is in a unique position to enforce dual-use applications, so that the significant increase in European defence-funded research leads to technological innovations not only for military applications, but for the whole of society.

Session organisers:

Axel Homborg, NL Ministry of Defence, Delft University of Technology

Bartlomiej Guzik

Mikhail Zheludkevich, Helmholtz-Zentrum Hereon GmbH
WP 22 – Corrosion Control in Aerospace

Elizabeth Szala, Aluminium Duffel
WP 17 - Automotive Corrosion

Philippe Refait, Université de La Rochelle
WP 9 – Marine Corrosion

Johan Tidblad, RISE Research Institutes of Sweden
WP 25 – Atmospheric Corrosion

Jérôme Crouzillac, BAC Corrosion Control
WP 16 – Cathodic Protection

Marjorie Olivier, Université de Mons
WP 14 – Coatings

Expected duration: 1 day

Expected audience: 50-80 persons

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The European Corrosion Congress

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Please submit your abstract online via www.eurocorr.org before the end of January 2027. We are looking forward to your contribution & participation in EUROCORR & ICC 2027 (September 12-16, 2027, Prague, Czech Republic)!