

Stavanger, Norway

EUROCORR 2025

7 - 11 September

EUROPEAN CORROSION CONGRESS

Announcement of a joint session on “Multi-scale modelling for design of protective coatings”

There is a clear demand for faster development of coatings that offer long-lasting protection at a reasonable cost, which presents a significant challenge for formulators, manufacturers, and users. To expedite coating development, modeling and simulation approaches can be invaluable, helping to identify optimal solutions while saving time and resources.

The session will serve as a platform for scientists from academia and industrial R&D to exchange ideas and present new findings and best practices on the following topics:

- Multiscale modeling of inhibitor behavior (AI/ML, atomistic, mesoscale, and continuum modeling)
- Simulation of inhibitor leaching from active protective coatings
- Modeling corrosion and inhibition processes in coating defects
- Experimental methodologies for providing input data for models and validation including data acquisition, management, and digital sharing
- Predictive modeling of in-service performance of coated metals
- Digitalized accelerated corrosion testing
- Open innovation and simulation platforms and digital passport for protective coatings
- Industry needs, challenges, and requests regarding new coating development, further testing, and modeling tool implementation

Session organiser:

Mikhail Zheludkevich

WP 22 – Corrosion Control in Aerospace

Marie-Georges Olivier

WP 14 – Coatings

Arjan Mol

WP 8 – Physico-chemical Methods of Corrosion Testing

Rob Lindsay

WP 6 – Surface Science and Mechanisms of Corrosion and Protection

Natalia Konchakova

VIPCOAT project

Expected duration: 1,5 days

Expected audience: 50-100 persons



Please submit your abstract online via www.eurocorr.org before 17th of January 2025. We are looking forward to your contribution and participation in EUROCORR 2025, on September 7-11, 2025, in Stavanger, Norway!