19th Nordic Corrosion Congress

April 14-16, 2026 in Stockholm, Sweden

Organizers

Jernkontoret KTH SWERIM RI.SE

Sponsors

ControlArt AB SSAB Alleima COMSOL

Program

14th of April

18.00-19.30 **Welcome reception**, KTH Reactor Hall, Drottning Kristinas väg 51, Stockholm

15th of April

08.30-9.30 **Registration and coffee**, Nordic Forum, Torshamnsgatan 35, Kista

09.30-9.40 **Welcome and opening of the Congress**

9.40-10.40 **Highlights from almost 50 years of research dedicated to atmospheric corrosion, including the film *Corrosion a hidden threat***
Christofer Leygraf, KTH and Marc Femenia

10.40-10.55 Break

	Parallel sessions		
	Room 1, Eric	Room 2, Vendela	Room 3, Marianne
10.55-12.15	**Coatings and surface aspects** *Chair: Inger Odnevall*	**Marine Corrosion** *Chair: Andrew Gordon*	**Additive manufacturing, Hydrogen embrittlement** *Chair: Olivier Rod*
10.55-11.15	Effect of micro-structure of ZnAlMg alloy coated steel on adhesion of organic coatings *Karin Törne, RISE*	Stakeholder input on Co-creation of Digital Twin Platform for Coastal Corrosion Risk Management *Anette Rasmussen, Corrosion advice*	Electrochemical Characterization of Additively Manufactured Duplex Stainless Steels Produced by CMT-WAAM and Effect of Heat Treatment *Rodrigo Alvarenga, RISE*

11.15-11.35	Time resolved and local effects of anti-corrosive pigments on aluminium surfaces *Alexander Wärnheim, RISE*	Electrochemical Evaluation of Low Carbon Steel Corrosion in Mn-Containing and Mn-Free MIC-Related Media *Halise Şeyma Şahin, Istanbul University*	Hygienic assessment of SLM-printed stainless steel *J. Wilhelm Erning, Federal Institute for Material Research and Testing*
11.35-11.55	Transition from thermal curing to radiation curing coil coatings: Observations from first generation coating development *Ville Saarimaa, Top Analytica*	Digital Twin Architecture for Coastal Corrosion Risk Management: Literature Review and Preliminary Design *Nejc Rožman, University of Ljubljana*	Hydrogen resistance evaluation of high strength carbon steels using the hollow specimen method *Eduard Navales, Swerim*
11.55-12.15	Preferential grain etching in aluminium alloys *May-Linn Skuland and Yelu Li, NTNU*	The Use of Ultra-High-Performance Concrete (UHPC) in Offshore Applications: Corrosion-Related Aspects *Oytun Yazan, Fibrobeton Concrete Company*	Effect of humidity and H_2S on the hydrogen embrittlement of steels used for underground storage of natural gas containing H_2, *Ewen Lafrogne, French Corrosion Institute – Part of RISE*
12.15-13.15	Lunch		
13.15-15.20	**Coatings, surface aspects, corrosion in soils** *Chair: Tor Hemmingsen*	**Marine Corrosion & MIC** *Chair: Torben Lund Skovhus*	**Corrosion Mechanisms, Methods and Modelling** *Chair: Johan Tidblad*
13.15-13.35	Advanced infrared spectroscopy and chemical imaging for studies of corrosion and materials degradation *Dan Persson, RISE*	Life Cycle Cost Analysis for sheet piles in ports: a useful tool for port corrosion management *Geert Potters, Antwerp Maritime Academy*	Corrosion in natural waters: Design of an automated instrumented probe for assessing electrochemical data on corrosiveness *Paul Linhardt, TU Wien*

13.35-13.55	ATR-FTIR Kretschmann and EIS measurements for in situ analysis of the metal/polymer interface - water uptake at the TiZr pretreated Zn-substrate / polymer interface *Dan Persson, RISE*	Assessing (microbial) corrosion in ports, rivers, canals: lessons from a major campaign in the canal Ghent-Terneuzen *Wikke Witteveen, Antwerp Maritime Academy and University of Ghent*	Mechanistic Model with Geometric Change to Investigate Pitting Corrosion in Stainless Steel *Tommy Zavalis, Comsol*
13.55-14.15	Synergistic Inhibition of Steel Corrosion during Pickling Using Binary Blends of Bio-Based Surfactants: Toward Sustainable Industrial Formulations *Shadrach Ibhafidon, Imperial College London*	Developing and Executing Evidence-Based Training in Microbiologically Influenced Corrosion (MIC) for Students and Industry Professionals *Torben Lund Skovhus, VIA University College*	Data-driven forecasting of Corrosion tare: A Comparative study of Univarate and Multivarate LSTM Models *Geert Potters, Antwerp Maritime Academy*
14.15-14.45	Coffee break		
14.45-15.05	Preparation, Application, and Performance Evaluation of Anticorrosion Self-Healing Coatings Based on Phosphorylated Oil-Filled Microcapsules *Ayoub Ouarga, University Mohammed VI Polytechnic*	Prediction Marine Corrosion rates of Carbon steel using machine learning *Geert Potters, Antwerp Maritime Academy*	Computational Aqueous Thermodynamics for Corrosion Studies: Application to 420 Stainless Steel *Carl-Magnus Lancelot, Thermo-Calc Software*
15.05-15.20	Soil corrosion testing in laboratory versus field case of steel and zinc alloy coating in natural Swedish soils *Abdelkader Meroufel, RISE*	Phenazine as One Piece of the Puzzle: Complex Electron Transfer Mechanisms in Anaerobic Biocorrosion *Giorgia Ghiara, Politecnico of Torino*	Modelling long-term corrosion of World War I ammunition at the Paardenmarkt, North Sea *Geert Potters, Antwerp Maritime Academy*

15.30-16.45 Lab tour at Swerim & RISE facilities, Isafjordsgatan 28, Kista

15.30-16.45 Meeting for Scientific Committee and Nordic Corrosion Society

19.00 Dinner at Jernkontoret, Kungsträdgårdsgatan 10, Stockholm

16th of April

8.30-9.10 **Driving Green Transition: Advancing Sustainability Through Corrosion Control**
Rajan Ambat, DTU

9.10-9.25 Break

	Parallel sessions		
	Room 1, Eric	Room 2, Vendela	Room 3, Marianne
9.25-10.25	***Durable Materials for Harsh Environments – stainless - HT*** *Chair: Mervi Somervuori*	***Energy & nuclear*** *Chair: Sigrun N. Karlsdottir*	***Corrosion Mechanisms, Methods, and Modelling*** *Chair: Inger Odnevall*
9.25-9.45	Effect of surface treatment on corrosion resistance of high alloyed stainless steels *Tingru Chang, Swerim*	The initiation, progression and stifle of micro-galvanic corrosion of copper in anoxic aqueous sulfide solutions *Erik Bergendahl, SKB*	Surface adsorption of rice-based biomolecules on stainless steel 316L, mechanistic insights and effects on metal migration and corrosion *Gunilla Herting, KTH*
9.45-10.05	High alloyed steel performance in rich NH_3 environments at high temperature *Esraa Hamdy, Swerim*	Corrosion analyses of copper from long-term experiments at Äspö Hard Rock Laboratory *Mats Karlsson, SKB*	Atmospheric Electrochemical Measurements for Assessing Corrosion Behavior and Classifying Corrosion Severity *Doug Wall, Luna Labs*

10.05-10.25	High Temperature Corrosion in Alkali Fluoride and Chloride Salts Containing Oxygen *Aida Nikbakht, Chalmers*	Towards superior longevity and cost-efficiency of green fuel components, through novel multi-protective PVD-coatings *Espen Hvidsten Dahl, Danish Technological Institute*	Influence of condensed water layer morphology on electrochemical migration failure in electronics *Kapil Kumar Gupta, Technical University of Denmark*
10.25-10.55	Coffee break		
10.55-12.15	**Durable Materials for Harsh Environments – stainless - HT** *Chair: Mervi Somervuori*	**Energy & nuclear** *Chair: Sigrun N. Karlsdottir*	**Atmospheric corrosion** *Chair: Inger Odnevall*
10.55-11.15	Corrosion rates of different alloys in fuel blends of fatty Acid Methyl Ester (FAME) and Heavy Fuel Oil (HFO) *Ria Almas, Alfa Laval*	The effect of CO_2 on acid corrosion of carbon steel in carbon capture, storage and transport *Maiken Kollsgård Dyve, Andreas Erbe, NTNU*	The impact of sodium carbonate equilibria on sodium chloride induced atmospheric corrosion *Mats Ström, RISE*
11.15-11.35	Electrochemical Separation of Bulk Transport and Interfacial Corrosion Processes in Molten Salt–Induced Boiler Corrosion *Ali Pourghasemi Hanza, Åbo Akademi University*	System criticality analysis and galvanic corrosion effects in latent heat storage systems using phase change materials: A laboratory study *Ivana Jevremovic, SINTEF*	Influence of the Marine-Desert environment in Dubai on the formation and aesthetic appearance of patinas on architectural copper and copper alloys *Gunilla Herting, KTH*
11.35-11.55	Corrosion properties of cast stainless steel used for drinking water *Luca Blanka Boncz, DTU*	Corrosion Analysis of Casing Materials for Superhot Geothermal Well scc *Sigrun N. Karlsdottir, University of Iceland*	Atmospheric Corrosion Resistance of Stainless Steel in the Nordic Region: Results from Field Exposure Tests and Inspections *Sukanya Hägg Mameng, Outokumpu R&D*

11.55-12.15	Corrosion challenges in Co_2 capture and storage applications under the influence of impurities *Kapil Kumar Gupta, Technical University of Denmark*	Super-Hot (454°C) Geothermal Corrosion Testing In Simulated Deep Geothermal or Volcanic Conditions *Sigrun N. Karlsdottir, University of Iceland*	
12.15-13.15	Lunch		
13.15-14.15	**Durable Materials for Harsh Environments - stainless – HT** *Chair: Rachel Pettersson*	**Energy & nuclear** *Chair: Andrew Gordon*	**Automotive corrosion** *Chair: Johan Tidblad*
13.15-13.35	Corrosion studies of 316L and 2205 DSS as accessory materials for alkaline electrolyzers under industrial conditions *Rajan Ambat, Technical University of Denmark*	Bentonite compaction density and gamma radiation: uncovering their combined impact on microbially influenced copper corrosion *Lidia Generelo Casajús, University of Granada*	Application of AI/ML on images for assessing corrosivity in local position on vehicles *Salil Sainis, RISE*
13.35-13.55	Microstructure and oxidation behavior of $TiCrAlNb(Si,B)_x$ Multi-Principal Element Alloys *Hongbo Shi, University of Sheffield*	Assessing the impact of fungal activity on copper and carbon-steel corrosion: implications for long-term management of radioactive waste *Lidia López Tercero, University of Granada*	Exploring Alternative Coatings for Corrosion Resistance in Ultra-High-Strength Automotive Steels *Sima Pashami, Swerim*
13.55-14.15		Corrosion of austenitic materials in the primary circuit of nuclear power plants *David Slnek, Vuje*	Risks of Environmentally Induced Cracking for High-Strength AW 6361 Aluminium Alloy *Konstantin Simonov, Swerim*

14.15-14.30 Coffee break
14.30-14.40 **Closing of the conference**

Company	Name
Alfa Laval Technologies	Ria Almas
Alfa Laval Technologies	Fredrik Falkenberg
Alleima	Anurag Kawde
Alleima	Albert Pettersson
ALTISS Technologies Ltd	Drummond Lawson
Antwerp Maritime Academy	Geert Potters
Antwerp Maritime Academy	Dalhia` Toumgho
Antwerp Maritime Academy	Katrijn Verhasselt
Antwerp Maritime Academy	Wikke Witteveen
BAM	Wilhelm Erning
Bundesgesellschaft für Endlagerung (BGE)	Maximilian Mildebrath
Chalmers University of Technology	Aida Nikbakht
COMSOL	Hanna Andersson
COMSOL	Johan Potrus
COMSOL	Tommy Zavalis
ControlArt	Joel Ivarsson
Corrosion Advice ApS	Anette Alsted Rasmussen
Corrosion Advice ApS	Luca Blanka Boncz
Cromocol Scandinavia	Dennis Tobin Zielinski
Fibrobeton	Hüseyin Oytun Yazan
French Corrosion Institute	Ewen Lafrogne
Imperial College London	Shadrach Ibhafidon
INNIO	Karolina Strzelczyk
Istanbul Üniversitesi	Halise Seyma Sahin
Jernkontoret	Rachel Pettersson
KTH Royal Institute of Technology	Gunilla Herting
KTH Royal Institute of Technology	Christofer Leygraf
KTH Royal Institute of Technology	Inger Odnevall
Luna Labs	Pierre Morel
Luna Labs	Doug Wall
Mohammed VI Polytechnic University	Ayoub Ouarga
NTNU Norwegian Uni of Science and Technology	Elias Aabye
NTNU Norwegian Uni of Science and Technology	Maiken Dyve
NTNU Norwegian Uni of Science and Technology	Andreas Erbe
NTNU Norwegian Uni of Science and Technology	Yelu Li
NTNU Norwegian Uni of Science and Technology	May-Linn Skuland
Outokumpu	Sukanya Hägg Mameng
PQF Co.,Ltd	Yang Yang
Provexa Technology	Aldina Bijedic Jamejam
Provexa Technology	Eric Hultmark
Provexa Technology	Fredrik Stewart
RISE Research Institutes of Sweden	Jeanette Almquist
RISE Research Institutes of Sweden	Rodrigo Alvarenga
RISE Research Institutes of Sweden	Katarina Bokström
RISE Research Institutes of Sweden	Mathilda Enebro
RISE Research Institutes of Sweden	Andrew Gordon
RISE Research Institutes of Sweden	Abdelkader Meroufel
RISE Research Institutes of Sweden	Alice Moya Núñez
RISE Research Institutes of Sweden	Bertrand Noharet
RISE Research Institutes of Sweden	Rikard Norling
RISE Research Institutes of Sweden	Dan Persson
RISE Research Institutes of Sweden	Salil Sainis
RISE Research Institutes of Sweden	Mats Ström
RISE Research Institutes of Sweden	Johan Tidblad
RISE Research Institutes of Sweden	Karin Törne
RISE Research Institutes of Sweden	Alexander Wärnheim

Shanghai Metal Corrosion and Protection Technolog	Maohua Lu
SINTEF Industry	Ivana Jevremovic
SKF	Kristina Hellström
Solenis Technologies Germany GmbH	Anoop Nautiyal
SSAB EMEA	Ulf Bexell
Suomen Korroosioyhdistys SKY	Mervi Somervuori
Svensk kärnbränslehantering	Erik Bergendal
Svensk kärnbränslehantering	Mats Karlsson
Swerim	Tingru Chang
Swerim	Esraa Hamdy
Swerim	Sima Pashami
Swerim	Olivier Rod
Swerim	Konstantin Simonov
Swerim /Luleå University	Eduard Navalles
Technical University of Denmark – DTU	Rajan Ambat
Technical University of Denmark – DTU	Morten S. Jellesen
Technical University of Denmark - DTU	Kapil Kumar Gupta
Teknologisk Institut	Espen Dahl
Thermo-Calc Software	Carl-Magnus Lancelot
Top Analytica Oy	Ville Saarimaa
TRATON	Raghda Kalifa
TRATON	Zheng Wei
TU Wien	Paul Linhardt
Uddeholms	Krishnan Anantha
UL, Faculty of Mechanical Engineering	Uroš Trdan
Universite la Rochelle – LaSIE	Giorgia Ghiara
University of Granada	Lidia Generelo Casajus
University of Granada	Lidia López Tercero
University of Iceland	Sigrun Nanna Karlsdottir
University of Ljubljana	Dominik Kozjek
University of Ljubljana	Nejc Rožman
University of Sheffield	Hongbo Shi
University of Stavanger	Tor Henning Hemmingsen
Usküdar University	Simge Arkan Özdemir
VUA UC	Torben Lund Skovhus
VUJE, a.s.	Marek Adamech
VUJE, a.s.	David Slnek
Åbo Akademi University	Ali Pourghasemi Hanza