

Paris 2024 EUROCORR EUROPEAN CORROSION CONGRESS

Announcement of a joint session of WP 3, WP 4 & TF on “Corrosion in molten salts and ionic liquids for energy applications”

Molten salts and especially their impurities often play a major role in the material degradation in many industries and processes such as nuclear and concentrated solar power (CSP). Additionally, due to currently used heterogeneous fuels, salt-containing deposits with low melting temperatures have become a key factor in high-temperature corrosion in combustion-based power production. Regardless of the industrial application, material degradation has to be taken into account in inspection and maintenance costs. Therefore, optimised process conditions and more durable materials are imperative to hinder the consequences of corrosion. For this, more information addressing molten salt-induced corrosion and the role of impurities in it is needed for a comprehensive fundamental understanding and improved material feasibility, lifespan prediction, and maintenance concepts.

The aim of this joint session is not only to bring together academics and industrials concerned with material subjected to degradation by molten salts but also to gather scientists and engineers from different industry sectors. Regardless of the varying structural materials and heat-transfer media in different industrial applications, the approaches and methods used to gain new insights on the molten salt-induced corrosion may be of interest to different kinds of industries and academic fields.

The joint session intends to collect oral, short oral and poster presentations on high-temperature corrosion in nuclear, CSP, and other power production industries with the focus on the role of molten salts and ionic liquids. Please submit your abstract online via www.eurocorr.org before the end of January 2024. We are looking forward to your contribution and participation in EUROCORR 2024, on September 1-5, 2024, in Paris, France.

Mathias Galetz & Juho Lehmusto

WP 3 – Corrosion by Hot Gases and Combustion Products;
<https://efcweb.org/Scientific+Groups/WP3+Corrosion+by+Hot+Gases+and+Combustion+Products-p-16.html>

Laure Martinelli & Stefan Ritter

WP 4 – Nuclear Corrosion; <https://efcweb.org/WP4.html>

Steve Paterson

TF on Corrosion in Green and Low Carbon Energy Technologies
https://efcweb.org/TF_Corrosion_in_Green_Low_Carbon_Energy_Technologies.html

Expected duration: 0.5-1 day
Expected audience: 30-50 attendees