

Stavanger, Norway

EUROCORR 2025

7 - 11 September

EUROPEAN CORROSION CONGRESS

Announcement of a joint session on

“Corrosion issues of electric vehicles and e-mobility systems”

Electric mobility is a strong evolving trend in the automotive industry to evolve in a society with sustainable transportation.

Electrification of the vehicles and e-mobile systems suffer from special corrosion issues related to the electronics parts, electrical systems but also issues related to durability of different designs of battery casing (additional galvanic coupling with grounding, stray currents...).

Although, some level of electronics is always part of an automotive, and therefore suffer from humidity related reliability issues due to corrosion, electrification brings new corrosion challenges due to the higher power and associated power electronics and control systems.

Additionally, electrical parts, battery components can also undergo corrosion under external exposure conditions. Efficiency of control systems including power management can be compromised due to humidity effects causing stray currents, loss of power from the battery, and failure due to corrosion.

This joint session focus on bringing together this interdisciplinary area as a common platform to discuss these issues.

Joint session will focus on corrosion issues of electric vehicles and e-mobility systems, specifically covering:

- Corrosion reliability issues of electronic control systems and other devices
- Designed solutions to meet anti-corrosion requirements of battery casing, battery components (e.g. how to secure high voltage battery systems from corrosion while also ensuring safety integrity of this component in the car)
- Corrosion issues related to electrical parts such as cables, connectors etc.
- Ensuring battery integrity and durability in-service
- Technical solutions for stray currents in EV transport
- Development of new components for electric vehicles (Fuel cells design, corrosion resistance of bipolar plates, solar roof for battery charge...)

Session organiser:

Elizabeth Szala

WP 17- Automotive corrosion

Rajan Ambat

WP 23 - Corrosion reliability of electronics

Polina Volovitch, Marc Wilms

WP26: Corrosion in Green & Low Carbon Energy Technologies

Expected duration: 1/2 days

Expected audience: 60-80 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!