

Joint session: Automotive Corrosion (WP17), Coatings (WP14), Tribocorrosion (WP18)- call for papers

Title of the joint session:

Corrosion and Tribocorrosion phenomena in the automotive industry

Organisation:

Depending on the amount of papers submitted, we would suggest a full day session. The session could be introduced by a "State of art" keynote revealing the trends in the automotive industry in terms of corrosion issues and corrosion protection.

Topics:

The topics reflect issues and the major trends in the automotive industry efforts of the both automotive industry and material suppliers such as steel suppliers and suppliers of chemical surface treatments and paints.

Contributions are invited on the following topics that are of primarily interest:

- Use of lighter materials (Al, Mg) and multimaterials; subsequent corrosion & tribocorrosion behaviour
- Cosmetic and perforation corrosion of coated materials
- Hot wear in automotive mechanical components. Impact on corrosion properties.
- Processes : UV- IR curing paints
- Current usage of thin film primers for extra corrosion protection and their future
- New developments in metallic coatings on steel. Corrosion and tribocorrosion aspects.
- Forming technology and the influence on durability.
- Paint degradation by combined mechanical and environmental degradation
- Tribocorrosion: Prevention, monitoring and environmental effects (coatings, paints, lubrication, cathodic protection, pollution, electronics, emissions....)