Announcement of Joint Session on “Understanding into Accelerated Atmospheric Corrosion Tests“

This joint session is foreseen as follow-up action to successful sessions “Accelerated Corrosion Testing – Science, Lab & Field“, ““Accelerated Atmospheric Corrosion Testing – The Way forward” and ““Accelerated Atmospheric Corrosion Testing” held at Eurocorr 2016, 2017 and 2018. They have clearly shown the high need from the industrial side for more reliable accelerated corrosion test methods. It has been also obvious that there is still a lack in understanding of atmospheric corrosion processes taking place in different phases of cyclic corrosion tests.

Advanced testing methods should represent the environmental conditions and may not change the dominating corrosion and degradation mechanisms. Furthermore, the tests should be applicable to all traditional and new materials and protection systems and provide a solid baseline for adaptation and tailoring to more in-service relevant conditions for different applications. Of course, this approach will compromise the achievable acceleration factors.

The aim of this session is **to improve our knowledge of fundamentals of accelerated corrosion testing**, which is necessary for designing accelerated tests more representative of real atmospheric environments. We would like to connect the understanding into processes taking place during particular phases of atmospheric corrosion in real environments and in accelerated tests with hard corrosion data. Invited are thus especially reports linking development of accelerated corrosion tests to

- Chemistry of thin electrolyte films.
- Modelling of atmospheric corrosion processes.
- Real time corrosion monitoring in relevant conditions.
- Field testing and in-service data.

Please submit your abstract online via www.eurocorr.org before January 19, 2021.

We are looking forward to your contribution and participation in EUROCORR 2021 “Materials science and advanced technologies for better corrosion protection” on September 19–23, 2021, in Budapest, Hungary.

Elizabeth Szala, Chair WP 17 Corrosion in Automotive
Theo Hack, Chair WP 22 Corrosion Control in Aerospace
Tomáš Prošek, Chair WP 25 Atmospheric Corrosion