

EUROCORR 2017 20th INTERNATIONAL CORROSION CONGRESS & Process Safety Congress 2017

September 3-7, 2017
Prague Congress Centre
Czech Republic

EFC Event No. 417

Announcement of work shop on “Corrosion reliability of Electronic Materials and Devices“

Due to the wide spread use, electronic devices are exposed to various kinds of climatic conditions. Therefore, corrosion reliability of electronics is a serious concern today. Interaction of humidity with internal parts of the device such as Printed Circuit Board Assembly (PCBA) can cause several functionality issues due to corrosion. Humidity related problems in electronics is a combination of material, corrosion, and electrical issues, which leads to reduced life span of the products and heavy economic loss due to failures. Problems are compounded by the fact that the electronic systems are built by multi-material combinations and additional accelerating factors such as corrosion causing process related residues, bias voltage, and unpredictable user environment.

Both industrial electronics and consumer electronics suffer from reliability issues due to corrosion, which includes application such as in humid and harsh environments. Therefore, incorporating enhanced corrosion performance in the design is relevant for all, which needs interaction between electronics, electrical, material, and corrosion specialists.

As a continuation of the successful workshops from 2013-2016, Eurocorr 2017 plan to organize a work shop to bring together various interdisciplinary aspects in to a common platform. Eurocorr 2017 Work shop aims to focus on the following topics:

- Corrosion failure modes and mechanisms in electronics
- Physics of failure approach to humidity related issues
- Process cleanliness, PCBA design aspects, and water layer formation
- Corrosion mitigation and prediction strategies for electronics
- Specific corrosion issues related to materials in electronics and components
- Issues related to the use of polymers in electronics and corrosion
- Reliability of electrical contacts and fretting corrosion
- Suitable devices and sensors for corrosion prediction
- Importance of enclosure design and packaging for humidity effects
- Modelling of humidity effects on electronics

Please submit your abstract online via www.eurocorr.org before 17 January 2017.

This workshop is organized by the EFC Task Force on Corrosion Reliability of Electronics. For more information please go to <http://efcweb.org/TF+Corrosion+Reliability+of+Electronics-p-105010.html>

We are looking forward to your contribution and participation in EUROCORR 2017/20th ICC

Rajan Ambat
Chair TF “Corrosion reliability of electronics”

Helmut Schweigart
Co-Chair TF: “Corrosion reliability of electronics”

Expected duration: 1.5 – 2.0 days

Audience: 30-40 attendees