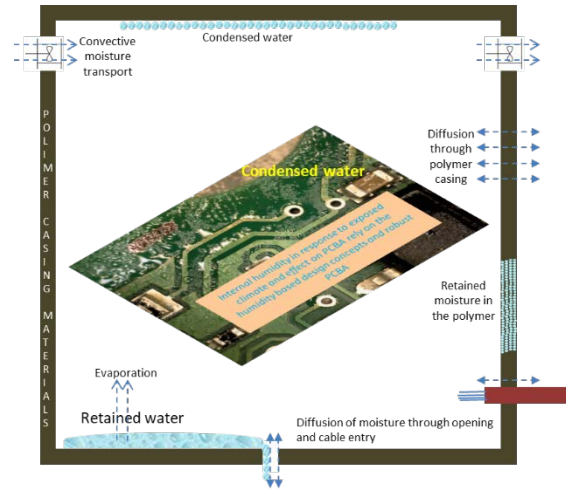


## Session on “Corrosion reliability of electronic materials and devices“

Corrosion reliability of electronics is a serious issue today due their wide spread use in all climatic conditions. Interaction of humidity with internal parts of the device such as Printed Circuit Board Assembly (PCBA) and components can cause several functionality issues, which are resulting from corrosion failure modes. Humidity related issues in electronics is caused by a combination of materials, 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.



The session in Eurocorr 2020 will 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
- Electronic corrosion sensing for prediction and control
- Importance of enclosure design and packaging to control humidity effects
- Moisture transport modelling for electronics devices
- Humidity related issues of high power components
- Testing for corrosion reliability

Please submit your abstract online via [www.eurocorr.org](http://www.eurocorr.org) before 15 January 2020.

Organized by EFC Working Party 23: Corrosion reliability of electronics

We are looking forward to your contribution to and participation in EUROCORN 2020

Rajan Ambat  
 Chair WP23 “Corrosion reliability of electronics”

Helmut Schweigart  
 Co-Chair WP23 “Corrosion reliability of electronics”