

26th/27th February 2019 // Ingolstadt

AGENDA

Reliability Testing and Protection

Day 1 // 26th February

Dr. Helmut Schweigart 13.30 // Welcome

ZESTRON Academy

- Introduction of the agenda, ZESTRON and GfKORR
- Introduction of participants

Poul Juul

HYTEK

14.00 // Reliability Test of Electronics

- Corrosion and ECM in Electronics: PCB requirements, Component requirements and assembly requirements
- Design recommendations
- Reliability Test

Bálint Medgyes

Assistant Professor Electronics Technology

University of Technology and Economics (BME)

14.45 // Electrochemical Migration

- Types and sources of (ionic) contaminants
- ECM protection, test methods and models
- Scientific results and future works

15.30 // Coffee Break

Laura Kent

Higher Research Scientist

NPL National Physical Laboratory

16.00 // Hydrophobic Coatings

- Test conditions
- Hydrophobic coatings and combination with traditional conformal coatings
- Reliability results

16.45 // End of the first day

Sightseeing & Dinner

18.30 // City Tour

Meeting point at Taschenturmtor in Ingolstadt (duration approx. 1 ¼ hours)

19.45 // Dinner

Exchange of experiences during a joint dinner in a Bavarian Restaurant

AGENDA

Reliability Testing and Protection

Day 2 // 27th February

Dr. Helmut Schweigart
Head of Technology Department
ZESTRON Europe

09.00 // Summary of day 1

Rajan Ambat
Department Mechanical Engineering
Technical University of Denmark

09.15 // Hygroscopic Contamination

- Hygroscopic potential from manufacturing process residues
 - Electronic applications interact with humidity
 - Water film formation depending from nature of (no clean) residues
- Influence on corrosion reliability of PCBA
-

Beth Turner
Development Chemist
Electrolube

10.00 // Conformal Coating – new chances by 2K & UV-Curing

- Material selection based on end use considerations (with data)
 - Potential failure mechanisms to be aware of
 - Application methods with advantages and disadvantage
-

10.45 // Coffee Break

Guido Wolf
Sales Manager Central Europe
Specialty Coating Systems

11.15 // Parylene Coating

- Parylene-Types, Differences & Application
 - Properties of Parylene
 - Adhesion of Parylene in general / Adhesion Technology
-

12.00 // Lunch

13.00 // End

Zestron Ability of informal ZESTRON company tour
