

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
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Poul Juul 14.00 // **Reliability Test of Electronics**

HYTEK

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

Bálint Medgyes 14.45 // **Electrochemical Migration**

Assistant Professor Electronics
Technology
University of Technology
and Economics (BME)

- Types and sources of (ionic) contaminants
 - ECM protection, test methods and models
 - Scientific results and future works
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15.30 // **Coffee Break**

Laura Kent 16.00 // **Hydrophobic Coatings**

Higher Research Scientist
NPL National Physical
Laboratory

- Test conditions
 - Hydrophobic coatings and combination with traditional conformal coatings
 - Reliability results
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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 09.00 // Summary of day 1
Head of Technology Department
ZESTRON Europe

Rajan Ambat 09.15 // Hygroscopic Contamination
Department Mechanical Engineering
Technical University of Denmark

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

- 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 11.15 // Parylene Coating
Sales Manager Central Europe
Specialty Coating Systems

- 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
