

Contact

Paul Schuster
Tel. +49 30 46403-7964
paul.schuster@izm.fraunhofer.de

Seminar Location:

Fraunhofer Institute for Reliability
and Microelectronics IZM
Gustav-Meyer-Allee 25
13355 Berlin, Germany

Seminar Program

Reliability of Electronic Systems

November 21st-22nd, 2024



Thursday, November 21st

- 10:00** Welcome & Introduction Round
- 11:00** **Session 1: Reliability Management Basics**
1.1 Terms and Definitions
1.2 Methods of Reliability Assessment and Assurance
Lecturers: Olaf Wittler, Johannes Jaeschke
- 12:15** Lunch Break
- 13:15** **Session 2: Requirements & Test Development**
2.1 Derivation of Application-specific Load Profiles: Mission Profiles
2.2: Basic Considerations for Reliability Test Development
Lecturer: Daniel Hahn
- 15:35** **Hands-on Workshop**
- 16:15** **Wrap-up and Discussion**
- 16:45** Adjourn
- 19:00** Social Event (Dinner)

Friday, November 22nd

- 09:00** Recap
- 09:15** **Session 3: Analytics & FEM as a Tool for Reliability**
3.1: Structural Analysis and Material Characterization: Analytics in Reliability Prediction
3.2: Selection of Materials for Reliable Design
3.3: FEM as a Tool for Reliability Improvement I
3.4: FEM as a Tool for Reliability Improvement II
3.5: Failure Mechanism - Corrosion
Lecturers: Saskia Huber, Anne Groth, Janine Conrad, Marius van Dijk, Simon Kuttler, Elisabeth Kolbinger
- 12:00** Lunch Break
- 13:30** **Session 4: Condition Monitoring as Part for a Circular Economy**
4.1: Condition Monitoring
4.2: Introduction to Circular Economy
Lecturers: Frederic Sehr, Mariam Elsothy, Max Marwede
- 14:45** **Lab Tours**
- 16:15** **Wrap-up & Discussion**
- 17:00** End of Seminar