

Program



November 6 and 7, 2024

Fraunhofer IKTS
 Maria-Reiche-Strasse 2, 01109 Dresden,
 Germany
 Room Fraunhofer, 4th floor

Wednesday, November 6, 2024

11:30 Registration

12:30 **Welcome by the Organizers**

André Clausner, Fraunhofer IKTS

Silicon Saxony

Czech Optical Cluster

13:00 **Correlative in-situ and on-surface Analysis**

Observing while it happens: operando electron microscopy of non-equilibrium dynamics (Marc Willinger, TU Munich)

Correlative scanning probe and luminescence microscopy to image structural obstacles for charge carriers (Ilka Hermes, Leibniz Institute for Polymer Research)

Industry talk Bruker Nano

AFM in-situ SEM studies of organic and inorganic materials (Ifat Kaplan-Ashiri, Weizmann Institute of Science)

Industry talk NenoVision

Next-Gen Batteries: understanding storage mechanisms and degradation phenomena (Holger Althus, Fraunhofer IWS)

14:40 Coffee Break

15:10 **Correlative Analysis in Semiconductor Failure Analysis**

Synchronized multi-channel multi-technique characterization in SEM and STEM (René Hammer, point electronic GmbH)

Industry talk IMINA

Advanced In-Situ Analysis with AFM-in-SEM: Enhancing Semiconductor Failure Analysis (Jan Neuman, NenoVision)

Industry talk point electronics

Complex materials analysis in high-volume semiconductor manufacturing - case studies (Andreas Meyer, Global Foundries)

Industry talk ThermoFisher

Correlative failure analysis flows at Infineon (Eckhard Langer, Infineon)

17:00 **Postersession**

17:50 Individual Transfer to Conference Dinner

19:00 **Conference Dinner** at Watzke am Goldenen Reiter

Thursday, November 7, 2024

9:00 **Correlative Tomography and cryo-EM**

TBA (Yael Politi, TU Dresden)

Multiscale XCT based Characterization and modelling of composite materials (Robert Filipek, AGH Krakow)

Industry talk Infineon

Industry talk Global Foundries

Advanced Scale-Bridging Multi-Modal Analytics for Device and Material Optimization through Data Correlation and Machine Learning (Silke Christiansen, Fraunhofer IKTS)

High-Resolution Imaging of Transient RNA Polymerase II Biomolecular Condensates (Richard Štefl, CEITEC)

10:40 Coffee Break

11:00 **Multiscale and multimodal correlative Analysis**

Multimode Fiber-Based Holographic Endomicroscopy: A Hair-Thin Path to Deep Brain Imaging in Animal Models (Hanka Uhlirova, ISI CAS)

The role of lattice distortions in coccoliths morphogenesis (Igor Zlotnikov, TU Dresden)

Industry talk ZEISS

At the Bridge between Biology and Material - Nanomaterial Application and Safety (Jörg Opitz, Fraunhofer IKTS)

Industry talk TESCAN

TBA (Malgorzata Kopycinska-Müller, Fraunhofer IKTS)

12:20 **Closing Remarks**

12:30 End