

Joint Industry Workshop with the Hi-Acts Innovation Platform

"Accelerator-based Analytics meets Advanced Functional Materials"

22 May 2025, 9:00 AM – 2:00 PM

Helmholtz-Zentrum Berlin, BESSY II Lecture Hall, Albert-Einstein-Straße 15, D-12489 Berlin

Agenda

Topic	Time	Speaker
Welcome Coffee & Networking	09:00 – 09:30	All
Introduction to the Helmholtz Innovation Platforms: Hi-Acts & Solar TAP	09:30 – 09:45	Hi-Acts & Solar TAP Management, Anna Anochin & Jens Hauch
Particle Accelerators and Their Applications in Materials Science	09:45 – 10:00	Anna Anochin
Accessing Particle Accelerators: How to Get Beamtime	10:00 – 10:15	Astrid Brandt, HZB
Use Case Presentations	10:15 – 11:45	<ul style="list-style-type: none"> • X-ray Spectroscopy of Photovoltaic Materials at EMIL (Dr. Regan Wilks, HZB) • Development of hybrid materials from renewable resources for flexible electronics and photovoltaics with DESY (Prof. Dr. Stephan Roth, DESY) • Slot-die coating for in-situ multimodal study of thin film formation (Matteo Ciambezi, FOM Technologies) • Multimodal Metrology during thin film formation during slot-die coating in synchrotrons (Dr. Lennart Reb, HZB) • Development of innovative in-situ and in-line metrology as an enabler for industrialization of new technologies (Dr. Christian Camus, Laytec AG) • Radiation Hardness Tests on Solar Cells for Space Applications (Sercan Özen, University of Potsdam) • Bruker-Nano (Title & Speaker to be announced)
Networking Lunch & Exhibition with Discussion Tables	11:45 – 12:45	1) Material Analysis: Atomic and molecular analysis; Defects and Ageing mechanisms 2) In Situ and Ex Situ Process Characterization: In line dynamic characterization; Structure process correlation

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		3) Surfaces, Interfaces, Nanocomposites and Morphologies: Probing surfaces and interfaces; Understanding microstructures 4) Solar Cell and Device Characterization: Tomography techniques; Probing multilayered inaccessible structures
Wrap-up & Group Feedback	12:45 – 13:00	
Tour of BESSY Particle Accelerator	13:00 – 14:00	

Optional Program on 21.05.2025

Topic	Time	Speaker
Solar TAP Industry Day	9:00-17:00	Please register via solartap@fz-juelich.de
Solar TAP Networking Dinner	19:00	Please register via solartap@fz-juelich.de