** SATELLITE WORKSHOP - Photon Science**

**The Swedish Materials Science beamline at PETRA III**

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| Wednesday, 22 January 2025 |  |
| This satellite meeting focusses on the in-line branch P21.2 of the Swedish Materials Science beamline at PETRA III which is dedicated to multi-modal materials characterization by high-energy synchrotron radiation. The status of the beamline will be presented and future developments will be discussed. Selected experimental case studies will be presented by users. An activity report of the Center for X-rays in Swedish Materials Science (CeXS), the academic host of the SMS beamline, will be presented | |

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| **PROGRAMME** | | | |
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| 13:00 | **Welcome** |  | *Ulrich Lienert (DESY)* |
| 13:05 | ‘Status of the Swedish materials science beamline P21.2’ |  | Zoltán Hegedüs (DESY) |
| 13:25 | ‘Ongoing and future developments at P21.2’ |  | *Ulrich Lienert (DESY)* |
| 13:40 | ‘Data handling and software development a P21.2’ |  | Niels Lefeld (DESY) |
|  | **Users presentations** |  |  |
| 13:55 | ‘In-situ SAXS and WAXS reveal strain anisotropy and modes of template filling in ordered electrodeposited nanostructures’ |  | Giuseppe Abbondanza (Chalmers University of Technology) |
| 14:20 | ‘Investigating Early-Stage Precipitation in Metallic Glasses Through Small- and Wide-Angle X-ray Scattering Combined with Classical Nucleation and Growth Modeling’ |  | Martin Fisk (Malmö University) |
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| 14:45 | **Break** |  |  |
|  | **User presentatons cont’d** |  |  |
| 15:15 | ‘Anisotropic secondary phase in Mo(Si,Al)2 investigated by in situ synchrotron X-ray diffraction’ |  | Kristine Bakken (Chalmers University of Technology) |
| 15:40 | ‘Probing Operation and Aging-Driven Non-Uniformities in Large-Format Li-Ion Batteries with Diffraction and Imaging’ |  | Vladislav Kochetov (FRM II, Technical University Munich) |
| 16:05 | ‘3D mapping of the microstructure in highly deformed metals’ |  | Mads Carlsen (Paul Scherrer Institut) |
| 16:30 | ‘Activities of the Center for X-rays in Swedish Materials Science (CeXS)’ |  | Peter Hedström (KTH) |
| 17:00 | **Open discussion (on demand)** 30 Minutes |  |  |

Beamline tours available after the workshop or on Thursday. Please contact beamline staff.