

Bulk scattering in Condensed Matter Physics and Chemistry
Workshop at DESY
22.02.2018 - 23.02.2018
(provisional program)

Day 1 (CSSB Auditorium, Building 15)

12:55 - 13:00 Welcome word by Oliver Seeck

Complex Materials session (chaired by Martin von Zimmermann)

- 13:00 - 13:30 Andrew Goodwin, University of Oxford
"Frustration, diffuse scattering, and disorder in Prussian Blue analogues"
- 13:30 - 14:00 Martin von Zimmermann, DESY
"Investigation of diffuse scattering in high-Tc superconductors with high energy x-ray diffraction"
- 14:00 - 14:30 Nikolaj Roth, Aarhus University
"Understanding structural disorder by three-dimensional PDF analysis of high energy diffuse X-ray scattering"
- 14:30 - 15:00 Oleh Ivashko, University of Zurich
"Charge-Stripe Order and Superconductivity in Ir_{1-x}PtxTe₂"
- 15:00 - 15:30 Discussions
-

15:30 - 16:00 Coffee break

Energy materials and catalyst session (chaired by Jo-Chi Tseng)

- 16:00 - 16:30 Claudia Weidenthaler
"In situ studies on inorganic energy related materials"
- 16:30 - 17:00 Hujun Cao, HZG, Institute of Materials Research
"In situ XRD investigation of complex hydride/nitride"
- 17:00 - 17:30 Efrain E. Rodriguez, University of Maryland
"In-situ powder diffraction studies of oxygen storage materials under chemical looping conditions"
- 17:30 - 18:00 Jiefang Zhu, Uppsala University
"Synchrotron XRD study on metal-oxygen batteries"
- 18:00 - 18:30 Discussions
-

18:30 - 19:30 Poster session

20:00 Conference dinner

Bulk scattering in Condensed Matter Physics and Chemistry
Workshop at DESY
22.02.2018 - 23.02.2018
(provisional program)

Day 2 (CSSB Auditorium, Building 15)

Coordination polymers and porous frameworks (chaired by Michael Wharmby)

- 09:00 - 09:30 Niclas Heidenreich, Christian-Albrechts-Universität Kiel/DESY
"SynRAC - A multi-purpose reaction cell for the investigation of reactions under solvothermal conditions"
- 09:30 - 10:00 Gregor Kieslich, TU Munich
"The Role of Entropy in Crystalline Inorganic-Organic Frameworks"
- 10:00 - 10:30 Helge Reinsch, Christian-Albrechts-Universität Kiel
"PXRD based structural surveys of metal-organic frameworks"
- 10:30 - 11:00 Ana Platero-Prats, Universidad Autónoma de Madrid
"Following Chemistry and Catalysis in Metal-Organic Frameworks using X-ray Scattering Tools"
- 11:00 - 11:30 Discussions
-

11:30 - 12:00 Coffee break (with sandwiches!)

Semi-crystalline and amorphous solids (chaired by Jozef Bednarcik)

- 12:00 - 12:30 Simon Pauly, IFW Dresden
"Amorphous martensite in beta-Ti alloys"
- 12:30 - 13:00 Olga Shuleshova, IFW Dresden
"Time-resolved X-ray diffraction during non-equilibrium solidification of Ti-Al alloys"
- 13:00 - 13:30 Mihai Stoica, ETH Zurich
"Structural evolution of Fe-based glassy alloys: modern methods of analysis"
- 13:30 - 14:00 Volker Schnabel, ETH Zurich
"Quantum mechanics guided design of stiff and damage-tolerant metallic glasses"
- 14:00 - 14:30 Discussions
-
- 14:30 - 14:35 Summary and Closing Remarks by Oliver Seeck