

Programme / 15TH BESSY@HZB User Meeting / 22 - 23 June 2023

DAY 1 / 22 June 2023 / Thursday		
09:00 - 17:00	Vendor Exhibition (all-day alongside the meeting)	WISTA Center
09:00 - 10:00	Registration	WISTA Foyer
10:00 - 12:00	Synchrotron Session (Chair: Christian Jung)	Bunsen-Hall
10:00 - 10:10	Bernd Rech (HZB) - Welcome to the User Meeting 2023	
10:10 - 10:30	Antje Vollmer (HZB) - News from BESSY II and BESSY III	
10:30 - 10:50	Markus Ries (HZB) - Operation and Development of BESSY II and MLS	
10:50 - 11:05	Frank Siewert (HZB) - On recent developments in Optics for science in the soft- and tender-X-ray energy range at BESSY-II and BESSY-III	
11:05 - 11:20	Gregor Hartmann (HZB) - Machine learning applications for the experimental environment	
11:20 - 11:35	Annette Pietzsch (HZB) - New Instrument Developments	
11:35 - 11:50	Eugen Weschke (HZB) - Soft X-Ray spectroscopy and scattering at 30 Tesla: A new pulsed field setup at UE46	
11:50 - 12:00	The European Synchrotron and FEL User Organisation (ESUO)	
12:00 - 13:00	Lunch Break	Canteens on-site
13:00 - 14:50	Science Highlights Part I (Chair: Klaus Habicht)	Bunsen-Hall
13:00 - 13:20	Erik T. J. Nibbering (Max-Born-Institut, Berlin, Germany) From Local Covalent Bonding to Extended Electric Field Interactions in Proton Hydration	
13:20 - 13:40	Tabitha Amollo (Egerton University Nakuru, Kenya) Influence of materials characteristics on device performance: A case study of graphene-based nano-materials in organic solar cells	
13:40 - 14:00	Qingsong Wang (University of Bayreuth/Bavarian Center for Battery Technology (BayBatt), Germany) High-entropy disordered rock-salt cathode for lithium-ion battery	
14:00 - 14:20	Tali Mass (University of Haifa, Israel) Primary coral polyps responses to decreasing seawater pH: observations from cell to the complete Organism	
14:20 - 14:40	Max Birch (RIKEN Center for Emergent Matter Science, Wako, Japan) Imaging stripes, skyrmions and higher-order spin textures in 2D magnets	
14:40 - 14:50	Jan-Dierk Grunwaldt - Committee Research with Synchrotron Radiation (KFS)	
14:50 - 15:20	Coffee Break	WISTA Foyer
15:20 - 16:20	Bestowal of Prizes (EEK Prize & Innovation Award)	Bunsen-Hall
16:20 - 17:00	Science Highlights Part II - Science@MX Beamlines (Chair: Uwe Müller)	Bunsen-Hall
16:20 - 16:40	Jon Hughes (Justus-Liebig-Universität Giessen, Germany) Structure/function in phytochrome photoreceptors	
16:40 - 17:00	Irena Senkowska (Technische Universität Dresden, Germany) Metal-organic frameworks: from structure to function and <i>vice versa</i>	
17:00 - 17:15	Welcoming Address by Ina Czyborra Senator for Higher Education and Research, Health, and Long-Term Care	Bunsen-Hall
17:15 - 18:30	Public Panel Discussion: "Science Diplomacy, International Collaboration and the Contribution of Lights Sources to Cooperative Solutions"	Bunsen-Hall
from 18:30	CURRYWURST & BEER	WISTA Basement

DAY 2 / 23 June 2023 / Friday		
08:30 - 14:30	Vendor Exhibition (all-day alongside the meeting)	WISTA Center
08:30 - 09:00	Registration	WISTA Foyer
09:00 - 09:30	Tobias Sontheimer (Helmholtz-Zentrum Berlin, Germany) HZB Energy Projects - CatLab, Care-O-Sene, Green Quest	Bunsen-Hall
09:30 - 10:45	Young Scientists Session (Chair: Carolin Schmitz-Antoniak)	Bunsen-Hall
09:30 - 09:45	Jinzhao Li (Helmholtz-Zentrum Berlin, Germany) Rational Ink Design and Combinatorial Slot-Die Coating of Metal Halide Perovskites for Solar Cells	
09:45 - 10:00	David Sanchez-Manzano (CNRS-Thales, Palaiseau, France) Extremely long range, high-temperature Josephson coupling across a half metallic ferromagnet	
10:00 - 10:15	Frank Förste (Technische Universität Berlin, Germany) Quantitative Analysis and 2D/3D Elemental Imaging of Intact Cocoa Beans	
10:15 - 10:30	Pamela Morales Fernandez (MPI for Chemical Physics of Solids, Dresden, Germany) Imaging magnetization dynamics in three-dimensional magnetic nano double helices	
10:30 - 10:45	Building Bridges - Global Networking	
10:45 - 11:10	Coffee Break	WISTA Foyer
11:10 - 12:30	Science Highlights Part III (Chair: Sebastian Wintz)	Bunsen-Hall
11:10 - 11:30	Rémi Dupuy (Sorbonne Université, Paris, France) Core-level photoelectron angular distributions at the liquid-vapor interface	
11:30 - 11:50	Maram Naes (Technische Universität Berlin, Germany) Across borders and scales: investigating Nabataean painted heritage at SESAME and BESSY II	
11:50 - 12:10	George E. Cutsail (MPI for Chemical Energy Conversion, Mühlheim, Germany) Applying VtC-XES to Obtain Oxidation-States of Organocopper Complexes	
12:10 - 12:30	Philipp Adelhelm (Humboldt Universität zu Berlin, Germany) Co-Intercalation Batteries (CoIBs): Role of TiS ₂ as Electrode for Storing Solvated Na Ions	
12:30 - 13:30	Lunch Break	Canteens on-site
13:30 - 14:30	POSTER SLAM	Bunsen-Hall
14:30 - 15:00	Technical Break - Change of Location to BESSY II	
15:00 - 17:00	POSTER SESSION	BESSY Exp. Hall
from 17:00	CELEBRATION - 25th Anniversary of BESSY II (registered participants only)	BESSY Front Yard