

Programme Day 1 / 11 December 2024 / Wednesday

10:00 - 16:30	Vendor Exhibition (all-day alongside the meeting)	WISTA Center
09:00 - 10:00	Registration	WISTA Foyer
10:00 - 12:00	Synchrotron Session (Chair: Andreas Jankowiak)	Bunsen-Hall
10:00 - 10:05	Andreas Jankowiak - Welcome to the User Meeting 2024	
10:05 - 10:25	Antje Vollmer - News from BESSY II and BESSY II+	
10:25 - 10:40	Markus Ries - Operation and Development of BESSY II and MLS	
10:40 - 11:00	Bernd Rech - Road to BESSY III	
11:00 - 11:15	Ruslan Ovsyannikov - Rebuilding Stronger: Post-Cyber Attack IT at BESSY II	
11:15 - 11:30	Régis Decker - X-ray emission spectroscopy using superconducting sensors	
11:30 - 11:45	Klaus Kiefer - The Future of Sample Environment at BESSY II	
11:45 - 12:00	Discussion	
12:00 - 13:00	Lunch Break	Canteens on-site
13:00 - 14:50	Science Highlights Part I (Chair: Mihaela Gorgoi)	Bunsen-Hall
13:00 - 13:20	Fengli Yang (Fritz-Haber-Institut, Germany) Combining Electron and X-ray Microscopy for Operando Insights into the Evolution of Electrocatalysts Under Reaction Conditions	
13:20 - 13:40	Burak Aktekin (Justus-Liebig-Universität Giessen, Germany) Operando Photoelectron Spectroscopy Analysis of Li ₆ PS ₅ Cl Electrochemical Decomposition Reactions in Solid-State Batteries	
13:40 - 14:00	Cristian M. Teodorescu (National Institute of Materials Physics, Romania) Surface science using synchrotron radiation in the National Institute of Materials Physics, Romania	
14:00 - 14:20	Nancy Khayongo Ochiba (Technical University of Kenya) Trends in Cu-based bimetallic catalysts activity in electroreduction of carbon dioxide	
14:20 - 14:40	Hebatallah Ali (Fritz-Haber-Institut, Germany) The Metal-Oxide Nanoparticle - Aqueous Solution Interface Studied by Liquid-Microjet Photoemission	
14:40 - 14:50	Cormac Mc Guinness (Trinity College Dublin, Ireland) The European Synchrotron and FEL User Organisation (ESUO)	
14:50 - 15:20	Coffee Break	WISTA Foyer
15:20 - 16:20	Bestowal of Prizes (EEK Prize & Innovation Award)	Bunsen-Hall
16:20 - 17:20	Science Highlights Part II (Chair: Manfred Weiss)	Bunsen-Hall
16:20 - 16:40	Oliver Koch (Universität Münster, Germany) Fragment libraries: How sociable are they, and can we do better?	
16:40 - 17:00	Ioanna Mantouvalou (Helmholtz-Zentrum Berlin, Germany) Multimodal X-ray methods for dentistry: elemental diffusion out of fillings and into the tooth structure	
17:00 - 17:20	Christian Gutt (Universität Siegen, Germany) Committee Research with Synchrotron Radiation (KFS)	
17:20 - 17:30	Technical Break	
17:30 - 18:30	Public Lecture (Chair: Markus Weigand)	Bunsen-Hall
17:30 - 18:30	Christopher Pöhlker (Max-Planck-Institut für Chemie, Germany) Atmospheric Research in the Amazon: Photons, Aerosols, Clouds and a Flavor of Adventure	
18:45	Snacks & Beer	WISTA Foyer

Programme Day 2 / 12 December 2024 / Thursday

09:00 - 15:00	Vendor Exhibition (all-day alongside the meeting)	WISTA Center
08:30 - 09:00	Registration	WISTA Foyer
09:00 - 09:45	International Collaboration	Bunsen-Hall
09:00 - 09:30	Susanne Nies (Helmholtz-Zentrum Berlin, Germany) - Green Deal Ukraine	
09:30 - 09:45	Piotr Piwowarczyk (SOLARIS, Poland) - NEutrons and PHotons Elevating Worldwide Science (NEPHEWS)	
09:45 - 10:45	Young Scientists Session (Chair: Ioanna Mantouvalou)	Bunsen-Hall
09:45 - 10:00	Lisa-Marie Kern (Max-Born-Institut, Germany) Imaging Nanometer Scale Spin Textures and Their Picosecond Dynamics	
10:00 - 10:15	Andrii Kuibarov (IFW Dresden, Germany) Evidence of superconducting Fermi Arcs	
10:15 - 10:30	Maximilian Mattern (Max-Born-Institut, Germany) KMC-3 XPP Accelerating the laser-induced phase transition in nanostructured FeRh via Plasmonic Absorption	
10:30 - 10:45	Evangelia Nathanail (Max Delbrück Center, Germany) Integrative structural biology to explore mitochondrial architecture	
10:45 - 11:00	Alina Marinela Badea (National Institute of Materials Physics, Romania) Vortex dynamics in high temperature superconductors	
11:00 - 11:30	Coffee Break	WISTA Foyer
11:30 - 12:30	Science Highlights Part III (Chair: Jaime Sánchez-Barriga)	Bunsen-Hall
11:30 - 11:50	Miguel Angel Valbuena (IMDEA Nanoscience, Spain) Rashba-like Spin Textures in Graphene Promoted by Ferromagnet-Mediated Electronic Hybridization with a Heavy Metal	
11:50 - 12:10	Luca Jovine (Karolinska Institute, Sweden) Mechanism of mammalian egg coat hardening and slow block to polyspermy	
12:10 - 12:30	Marcel Risch (Helmholtz-Zentrum Berlin, Germany) Understanding the electrocatalyst lanthanum nickelate by combining X-ray absorption spectroscopy and density functional theory	
12:30 - 13:30	Lunch Break	Canteens on-site
13:30 - 15:00	Science Highlights Part IV (Chair: Holger Stillrich)	Bunsen-Hall
13:30 - 13:50	Hendrik Bluhm (Fritz-Haber-Institut, Germany) Multimodal Investigations of Heterogeneous Interfaces	
13:50 - 14:10	Arsène Chemin (Helmholtz-Zentrum Berlin, Germany) Understanding the Photo Electrochemistry of Diamond Water Interfaces	
14:10 - 14:30	Enggar Wibowo (Helmholtz-Zentrum Berlin, Germany) <i>In Situ</i> P K-edge XANES Investigation of the Complex Aqueous H ₃ PO ₃ Oxidation Behaviour	
14:30 - 14:50	Gert Weber (Helmholtz-Zentrum Berlin, Germany) Enzymes for a sustainable plastic waste management	
14:50 - 15:00	Justin Wells (University of Oslo, Norway) News from the HZB User Committee	
15:00 - 15:30	Change of Location to BESSY II	
15:30 - 17:00	Market Place of Innovations	BESSY Lecture Hall
17:00 - 19:00	Poster Session	BESSY Exp. Hall
19:00	Green Buffet (sponsored by the companies participating in the vendor exhibition)	BESSY Foyer