

7th Joint BER II and BESSY II User Meeting



Dec. 9th to Dec. 11th

WISTA-Centre/BESSY II, Berlin-Adlershof and Lise-Meitner-Campus Berlin-Wannsee

Wednesday, December 9th, 2015 : Young Scientists and Synchrotron Day

Wilhelm-Conrad-Roentgen Campus
Albert-Einstein-Str. 15
Rudower Chaussee 17
12489 Berlin

13:30 – 18:00	Registration and Vendor Exhibition	WISTA Centre
14:00 – 15:30	Synchrotron Session (Chair: Oliver Rader)	Bunsen Auditorium
14:00	Thomas Frederking (HZB) Welcome	
14:10	Andreas Jankowiak BESSY II: Accelerator and BESSY VSR	
14:30	Alexander Föhlisch BESSY II: Photon Science and Instrumentation	
14:50	Simone Raoux EMIL	
15:10	Florin Radu VEKMAG	
15:30	Johannes Bahrdt Short Period Undulator Development	
15:50 – 16:05	General Discussion	Bunsen Auditorium
16:05 – 16:30	Coffee Break	WISTA Centre
16:30 – 18:00	Young Scientist Session (Chair: Benedetta Casu)	Bunsen Auditorium
16:30	Ida Josefsson (Stockholm University) Ab initio Theorie für soft X-ray XAS und RIXS	
16:45	Maria Ekimova (MBI) A Flatjet System for Soft X-Ray Spectroscopy in the liquid phase	
17:00	Martin Bluschke (MPI FKF Stuttgart) Magnetic Interactions in Atomically Thin Nickelate/Scandate Heterostructures	
17:15	Manuela Gorgel (LMU München) Against the Odds? De-novo Structure Determination of a Single Cysteine Bridge Protein	
17:30	Francesca Ciccullo (University of Tübingen) Thin films of organic radicals: towards magnetism in purely organic materials	
17:45	Henriette Maaß (University of Würzburg) Resonant Photoelectron Spectroscopy of Strongly Spin-Orbit Coupled Systems	
18:45-21:00	HZB Science Slam	Bunsen Auditorium

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Thursday, December 10th, 2015 : Science Day		Wilhelm-Conrad-Roentgen Campus Albert-Einstein-Str. 15 Rudower Chaussee 17 12489 Berlin
9:00 – 16:00	Vendor Exhibition	WISTA Centre
8:30 – 9:30	Registration and Poster Set-up	WISTA Centre
9:30 – 9:40	Opening <i>Anke Kaysser-Pyzalla (HZB)</i>	Bunsen Auditorium
9:40 – 10:10	Key Note Lecture (<i>Chair: Simone Raoux</i>) <i>Petra de Jongh (Universiteit Utrecht)</i> The stability of supported transition metal catalysts	
10:10 – 10:40	Coffee Break and Vendor Exhibition	WISTA Centre
10:40 – 12:20	Oral Presentations I (<i>Chair: Svante Svensson</i>)	Bunsen Auditorium
10:40	<i>Matthias Bernien (FU Berlin)</i> Highly Efficient Thermal and Light-Induced Spin-State Switching of an Fe(II) Complex in Direct Contact with a Solid Surface	
11:00	<i>Claire Nichols (University of Cambridge UK))</i> Nanopaleomagnetism of meteoritic Fe–Ni studied using X-ray photoemission electron microscopy	
11:20	<i>Mathias Kläui (University of Mainz)</i> X-ray based imaging of synchronous domain wall motion dynamics	
11:40	<i>Tobias Lau (HZB)</i> Maximum Spin Polarization in Chromium Dimer Cations as Demonstrated by X-ray Magnetic Circular Dichroism Spectroscopy	
12:00	<i>Simon Thiele (Albert-Ludwigs-Universität Freiburg)</i> Carbon binder domain at multiple scales and tomographic reconstructions	
12:20 – 13:30	Lunch Break	(Canteens on site)
13:30 – 15:10	Oral Presentations II (<i>Chair: Christiane Helm</i>)	Bunsen Auditorium
13:30	<i>Hideaki Ogata (MPI Mühlheim)</i> Hydrogens detected by subatomic resolution protein crystallography in a [NiFe] hydrogenase	

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- 13:50 *Benjamin Stadtmüller (TU Kaiserslautern)*
Unexpected interplay of bonding height and energy level alignment at heteromolecular hybrid interfaces
- 14:10 *Kamil Wojciechowski (TU Warsaw)*
Effect of hydration of sugar groups on adsorption of Quillaja bark saponin at air/water and Si/water interfaces
- 14:30 *Matthew Harrington (MPIKG)*
Harnessing X-rays to elucidate structure-function relationships in a tough and self-healing biological fiber
- 14:50 *Jörg Libuda (University of Erlangen)*
Surface Science and Model Catalysis with Liquid Organic Hydrogen Carriers

15:10 – 15:40 Coffee Break and Vendor Exhibition

WISTA Centre

15:40 – 15:50 Report from the User Committee

Bunsen Auditorium

15:50 – 17:00 Bestowal of Prizes: Friends of Helmholtz-Zentrum Berlin e.V.
(Chair: M. Richter)

Bunsen Auditorium

17:00 – 18:00 Public Lecture *(Chair: Norbert Koch)*
David Cahen (Weizmann Institute)
Science: A bridge over troubled waters

Bunsen Auditorium

18:00 – 20:00

Poster Session

(BESSY II Experimental Hall)

20:00

Berliner Buffet and Poster Prize
(sponsored by the companies participating in the vendor exhibition)

(BESSY II Foyer)

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Friday, December 11th, 2015: Young Scientists and Neutron Day		Lise-Meitner Campus Hahn-Meitner-Platz 1 14109 Berlin
8:30-9:00	Registration	(LMC-Foyer and Café Jahn)
9:00 – 10:30	Neutron Session	(Lecture Hall)
9:00	<i>Anke Kaysser-Pyzalla</i> Opening	
9:10	<i>Oleksandr Prokhnenko</i> HFM/EXED - high magnetic field facility for neutron scattering	
9:30	<i>Margarita Russina</i> TOF spectrometer NEAT at Helmholtz Zentrum Berlin – a powerful tool for energy materials research	
9:50	<i>Michael Tovar</i> The FALCON-Laue-Diffractometer	
10:10	<i>Matthias Ballauff</i> V16 – A versatile Time-of-flight small-angle neutron instrument	
10:30 – 11:00	Coffee Break	(Café Jahn)
11:00 – 12:30	Young Scientists Session	(Lecture Hall)
11:00	<i>Ben Kent (HZB)</i> Localization of disaccharides in partially hydrated DOPC bilayers: insights into cryoprotective mechanisms	
11:15	<i>Eusebio Solorzano (University of Valladolid)</i> Neutron and X-ray imaging in polymeric materials: a complementary understanding under different condition	
11:30	<i>Nathalie Kunkel (Universität Leipzig)</i> Hydrogenation properties of $\text{Li}_x\text{Sr}_{1-x}\text{AlSi}$ studied by quantum-chemical methods ($0 \leq x \leq 1$) and in-situ neutron powder diffraction ($x=1$)	
11:45	<i>Kimiya Hemmes (Fraunhofer Institut Freiburg)</i> Numerical Description of Welding Residual Stress in Tubular Joints and the Corresponding Experimental Investigations by Means of X-Ray, Synchrotron and Neutron Diffraction Methods	
12:00	<i>Carsten Pohlmann (FHI IFAM)</i> Neutron Imaging for Hydrogen Storage - Hydride-Graphite Composites during cyclic Hydrogenation	
12:15	<i>Peter Nestler (Uni Greifswald)</i> Diffusional Response of Polyelectrolyte Multilayers to Salt Annealing and Influence of Diffusion Barriers	
12:30 – 14:00	Poster Session and Lunch	(Café Jahn)