

10th Joint BER II and BESSY II User Meeting



Dec. 5th to Dec. 7th 2018

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

Wednesday, December 5 th , 2018: Young Scientists and Synchrotron Day		Wilhelm-Conrad-Röntgen-Campus Albert-Einstein-Str. 15 Rudower Chaussee 17 12489 Berlin
13:30 – 19:00	Registration and Vendor Exhibition	WISTA Centre
14:00 – 15:40	Synchrotron Session (Chair: Christian Jung)	Bunsen Auditorium
14:00	<i>Bernd Rech (HZB)</i> Welcome	
14:10	<i>Jan Lüning (HZB)</i> BESSY II: Photon Science	
14:40	<i>Andreas Jankowiak (HZB)</i> Accelerator Operation and Projects @ HZB	
15:00	<i>Robert Seidel (HZB)</i> Sol³PES	
15:20	<i>Axel Knop-Gericke (FHI)</i> Ambient pressure x-ray photoelectron spectroscopy of catalytically active solid-gas phase and solid-liquid interfaces: Status and new options at EMIL	
15:40 – 16:00	General Discussion	Bunsen Auditorium
16:00 – 16:30	Coffee Break	WISTA Centre
16:30 – 18:00	Young Scientists Session (Chair: Carolin Schmitz-Antoniak)	Bunsen Auditorium
16:30	<i>Samuel Edwards (Trinity College Dublin)</i> An X-ray spectroscopic investigation of uranium minerals relevant to the storage of spent nuclear fuels	
16:45	<i>Vesna Zivanovic (HU Berlin)</i> Gold nanoparticles and drugs in cells: Insights from cryo-XRT and vibrational spectroscopy	
17:00	<i>Saša Petrović (MDC Berlin)</i> Structural basis of ASPL-mediated regulation of p97 methylation by METTL2 1D	
17:15	<i>Jian Ren (HZB)</i> An ex-situ study of the structure-property relationship in highly efficient carbon nitride photocatalysts for hydrogen evolution	
17:30	<i>Fabian Düll (University of Erlangen)</i> Bimetallic Nanocluster Arrays as Model System for Catalysis	
17:45	<i>Aisha Aqeel (University of Nürnberg)</i> Bragg Scattering Ferromagnetic Resonance on a chiral magnetic insulator	
	Sparkling wine reception in the vendor exhibition area	
19:00 - 21:30	Celebration 20 Years of Beam and Light at BESSY II Live music, sketches, "Currywurst" and more	Bunsen Auditorium

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Thursday, December 6th, 2018:
Science Day

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

9:00 – 16:00	Vendor Exhibition	WISTA Centre
8:30 – 17:30	Registration	WISTA Centre
11:30 – 17:30	Poster Set-up	BESSY II
9:30 – 9:40	Opening <i>Bernd Rech/Jan Lüning (HZB)</i>	Bunsen Auditorium
9:40 – 10:10	Keynote Lecture (<i>Chair: Simone Raoux</i>) <i>Gisela Schütz (MPU IS Stuttgart)</i> Time-resolved microscopy with soft x-rays	
10:10 – 10:40	Coffee Break and Vendor Exhibition	WISTA Centre
10:40 – 12:20	Oral Presentations I (<i>Chair: Catherine Dubourdieu</i>)	Bunsen Auditorium
10:40	<i>Maria Benedetta Casu (University of Tübingen)</i> Nanoscale studies of organic radicals: Surface, interface, and spinterface	
11:00	<i>Kristina Edström (University of Uppsala)</i> Title to be announced: Battery Research	
11:20	<i>Manuel Bibes (CNRS)</i> Mapping and harnessing mesoscopic charge and spin textures in quantum oxide materials	
11:40	<i>Alan Williams (The Wallace Collection Conservation, London)</i> Neutron techniques in cultural heritage	
12:00	<i>Nønne Prisle (University of Oulu)</i> How the behavior of molecules in cloud droplets affect global climate	
12:20 – 13:30	Lunch Break	(Canteens on site)
13:30 – 15:10	Oral Presentations II (<i>Chair: Svante Svensson</i>)	Bunsen Auditorium
13:30	<i>Norbert Koch (HU Berlin)</i> Electronic properties of 2D semiconductors: from single crystals to 2D powders	
13:50	<i>Holger Dau (FU Berlin)</i> Nickel-iron catalysts for electrochemical water oxidation – redox synergism investigated by in-situ X-ray spectroscopy with millisecond time resolution	

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14:10	<i>Emile D. L. Rienks (HZB, TU Dresden)</i> Samarium hexaboride is a trivial surface conductor	
14:30	<i>Jessica C. Huss (MPI of Colloids and Interfaces Golm)</i> Climate-dependent heat-triggered opening mechanism of Banksia seed pods	
14:50	<i>Sonja Lorenz (University of Würzburg)</i> Regulatory mechanisms in HECT ligases	
15:10 – 15:40	Coffee Break and Vendor Exhibition	WISTA Centre
15:40 – 15:50	<i>Christian Papp (University of Erlangen-Nürnberg)</i> Report from the user committee	Bunsen Auditorium
15:50 – 17:00	Bestowal of Prizes: Friends of Helmholtz-Zentrum Berlin e.V. (<i>Chair: Mathias Richter</i>)	Bunsen Auditorium
17:00 – 18:00	Public Lecture (<i>Chair: Benedetta Casu</i>) <i>Caterina Biscari (ALBA)</i> LEAPS, coordinating and integrating European capacities	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 7th, 2018: Young Scientists and Neutron Day

Lise-Meitner-Campus
Hahn-Meitner-Platz 1
14109 Berlin

9:00 – 9:30	Registration	(LMC-Foyer)
9:30 – 10:30	Neutron Session <i>(Chair: Klaus Habicht)</i>	(Lecture Hall LMC)
9:30	<i>Bernd Rech/Jan Lüning (HZB)</i> Opening	
9:40	<i>Fabiano Yokaichiya (HZB)</i> Unveiling the Drug Delivery Systems using Small Angle Neutron Scattering (SANS)	
10:00	<i>Stavros Samothrakitis (ASCR)</i> Three-dimensional Laue neutron diffraction for grain mapping and reconstruction of polycrystalline materials	
10:20	<i>Veronika Grzimek (HZB)</i> Molecular mechanism of hydrogen sorption in CAU metal-organic frameworks	
10:40 – 11:00	Coffee Break	(Café Jahn)
11:00 – 12:30	Young Scientists Session <i>(Chair: Michael Tovar)</i>	(Lecture Hall LMC)
11:00	<i>Stanislav E. Nikitin (MPI Dresden)</i> Decoupled spin dynamics in the rare-earth orthoferrite YbFeO₃: Evolution of magnetic excitations through the spin-reorientation transition	
11:15	<i>Christian Pflug (Uni Leipzig)</i> Crystal Structure refinement of luminescent materials NaMgH_{3-x}F_x by powder neutron diffraction	
11:30	<i>Annekatriin Sill (Uni Greifswald)</i> Entanglement in polyelectrolyte multilayers	
11:45	<i>Tobias Thiede (BAM)</i> An Assessment of Surface and Bulk Residual Stress in Selective Laser Melted Inconel 718	
12:00	<i>Camilla Evangelisti (ZSW Ulm)</i> In-situ analysis using neutron radiography of porous nickel materials for alkaline water electrolysis	
12:15	<i>Torben Pfaff (JLU Giessen)</i> Comparative Microstructural Analysis of Non-Graphitic Carbons (NGCs) based on Wide-Angle X-Ray (WAXS) and Neutron (WANS) Scattering	
12:30 – 14:00	Poster Session and Lunch	(Café Jahn)