

5th Joint BER II and BESSY II User Meeting



Dec. 4th to Dec. 6th

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

Wednesday, December 4th, 2013 : Young Scientists and Neutron Day		Lise-Meitner Campus Hahn-Meitner-Platz 1 14109 Berlin
12:00 – 13:30	Registration and Workshop Lunch	(LMC-Foyer and Café Jahn)
13:30 – 15:00	Neutron Session (Chair: Klaus Habicht)	(Lecture Hall)
13:30	Welcome	
13:40	<i>Michael Schöbel (TU München/FRM 2)</i> Elasto-plastic deformation behavior of heterogeneous materials	
14:00	<i>Gerald Eisenblätter (Uni Leipzig)</i> The look inside Roman copper coins: X-ray and neutron tomography experiments	
14:20	<i>Sascha Oswald (Uni Potsdam)</i> For your eyes also: Visualizing the secrets of soil	
14:40	<i>Gail Iles (HZB)</i> FALCON - Fast Acquisition Laue Diffractometer	
15:00 – 15:30	Coffee Break	(LMC-Foyer)
15:30 – 17:00	Young Scientist Session (Chair: Tobias Unruh)	(Lecture Hall)
15:30	<i>Adina Eichner (MLU Halle)</i> Ceramid [EOS] and its impact on the lipid membrane organization of the Stratum corneum - A neutron diffraction study	
15:45	<i>Leonardo Chiappisi (TU Berlin)</i> Chitosan-Alkylethoxy Carboxylates - A Surprising Variety of Structures identified by Small Angle Neutron Scattering	
16:00	<i>Johannes Kähn (HZB)</i> Comparing the annealing dependency of Al/Si distribution in Sanidine megacrysts from the Eifel region with X-ray and neutron diffraction methods	
16:15	<i>Rasmus Toft-Petersen (HZB)</i> Field-induced spin disorder in a doped magneto-electric Ising system	
16:30	<i>Ariane Hannaske (MPI CPFS Dresden)</i> YbCo₂Si₂ – the reference compound to YbRh₂Si₂?!	
16:45	<i>Mirko Erlkamp (TU Dortmund)</i> High-pressure studies of lipid and protein films at aqueous-solid Interfaces	
17:00 – 19:00	Poster Session	(Colloquiums room)
19:00	Dinner	(Café Jahn)

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Thursday, December 5th, 2013 :

Science Day

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

9:00 – 18:00 Vendor Exhibition

WISTA Centre

8:30 – 9:30 Registration and Poster Set-up

WISTA Centre

9:30 – 9:40 Opening

Bunsen Auditorium

9:40 – 10:10 Key Note Lecture (Chair: Oliver Rader)

Theo Rasing (Radboud University Nijmegen)

Magnetism at the time and length scale of the exchange interaction

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

WISTA Centre

10:40 – 12:20 Oral Presentations I (Chair: Martin Weinelt)

Bunsen Auditorium

10:40 *Christian Schüssler-Langeheine (HZB)*

Ultrafast dynamics in antiferromagnets

11:00 *Malte Behrens (FHI)*

Surface and bulk analysis of Cu-Composite catalysts for Methanol Synthesis using photons and neutrons

11:20 *Lada Yashina (Moscow State University)*

Chemistry of discharge and recharge of Li-air battery: operando XPS studies

11:40 *Maria Guerra (Louvre)*

Between the Eurasian steppes and China: provenancing the Xiongnu gold by IBA and SRXRF

12:00 *Henrik Ronnow (EPFL, PSI)*

Magnetic order and quantum criticality in dipolar coupled model magnets

12:20 – 13:30 Lunch Break

(Canteens on site)

13:30 – 15:10 Oral Presentations II (Chair: Andreas Züttel)

Bunsen Auditorium

13:30 *Katja Henzler (HZB)*

Electronic Structure of Individual Hybrid Colloid Particles Studied by NEXAFS in the X-ray Microscope

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13:50 *Harald Schmidt (TU Clausthal)*
Electrode Lithiation in Lithium-Ion Batteries Investigated by In-Operando Neutron Reflectometry

14:10 *Andres Santander Syro (CNRS, CSNSM)*
Momentum-resolved reconstruction of the electronic structure across the 'hidden-order' transition in URu₂Si₂

14:30 *Roel Van de Krol (HZB)*
Efficient Solar Water Splitting with a BiVO₄-Amorphous Silicon Heterojunction Photoanode

14:50 *Yeal Politi (MPI Golm)*
A Spider's Fang: How to Design an Injection Needle Using Chitin-Based Composite Material

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

WISTA Centre

15:40 – 15:50 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)*

Bunsen Auditorium

Emil List-Kratochvil (TU GRAZ)

How Bright Light is Used to Improve Organic Light: Research on Organic Light Emitting Diodes at BESSY II

18:00 – 20:00

Poster Session

(BESSY II Experimental Hall)

20:00

Berliner Buffet

(BESSY II Foyer)

(sponsored by the companies participating in the vendor exhibition)

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Friday, December 6th, 2013

Young Scientists and Synchrotron Day

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

8:30-11:30	Vendor Exhibition and Registration	WISTA Centre
9:00 – 10:30	Young Scientists Session (Chair: Benedetta Casu)	Bunsen Auditorium
9:00	Nele Thielemann-Kühn (HZB) Nonmagnetic linear dichroism in fluorescence spectra from a cubic solid	
9:15	Kathrin Koren (TU Graz) Investigation of the Energy Level Alignment in Solution Processed Multilayer PLEDs Utilizing Photoelectron Spectroscopy	
9:30	Stephanie Rädels (HZB) Investigation of microbunching-instability in energy recovery linacs	
9:45	Maxim Erko (MPI of Colloids and Interfaces) Deformation mechanism of nanoporous materials upon water freezing and melting	
10:00	Andrea Schmidt (Charité) Redox-dependent structural and chemical transformation of the [4Fe3S] cluster in an O₂-tolerant [NiFe] hydrogenase	
10:15	Stefanie Winkler (HU Berlin) Fermi Level Pinning of Organic Semiconductors on Metaloxides	
10:30 – 10:40	Poster Prize	Bunsen Auditorium
10:40 – 11:10	Coffee Break and Vendor Exhibition	WISTA Centre
11:10 – 13:00	BESSY II - today and in the future (Chair: Bernd Müller)	Bunsen Auditorium
11:10	Anke Kaysser-Pyzalla (HZB) Opening	
11:20	Andreas Jankowiak (HZB) BESSY II: Status and Perspectives - BERLinPro	
11:40	Alexander Föhlisch (HZB) BESSY II Status and the BESSY VSR perspective	
12:00	Klaus Habicht Complementary Spectroscopy at BER II and BESSY II	
12:20	Klaus Lips (HZB) EMIL (Energy Materials In-Situ Laboratory Berlin) - a novel research platform for next generation solar energy materials at BESSY II	
12:40	Christian Jung (HZB) DOMINO – the first brick has fallen	
13:00 – 13:10	Andreas Jankowiak (HZB) Closing of Fifth Joint BER II and BESSY II Users Meeting	