

6th Joint BER II and BESSY II User Meeting



Dec. 3rd to Dec. 5th

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

Wednesday, December 3rd, 2014 :
Young Scientists and Neutron Day

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

13:00 – 14:00	Registration and Workshop Lunch	(LMC-Foyer and Café Jahn)
14:00 – 15:30	Neutron Session (Chair: NN)	(Lecture Hall)
14:00	Anke Kaysser-Pyzalla (HZB) Welcome	
14:10	Klaus Habicht (HZB) Research with neutrons at HZB	
14:30	Bella Lake (HZB) New Science with the HFM	
14:50	Axel Griesche (BAM) Imaging of hydrogen in steels using neutrons	
15:10	Wolfgang Treimer (Beuth University) PONTO - Radiography and tomography with polarized neutrons	
15:30 – 16:00	Coffee Break	(LMC-Foyer)
16:00 – 17:40	Young Scientist Session (Chair: Christiane Helm)	(Lecture Hall)
16:00	Ana Benetti (Uni Copenhagen) Neutrons and X-rays applied to dental cements	
16:20	Bujar Jerliu (TU Clausthal) In-Operando Neutron Reflectometry for the study of Silicon Electrode Lithiation in Lithium Ion Batteries	
16:40	Enric Menendez Dalmau (KU Leuven) Exchange bias by O ion implantation into Co thin films.	
17:00	Tommy Hofmann (HZB) Neutron scattering studies on spatially nanoconfined D₂, N₂ and O₂	
17:20	Sylvain Prevost (ESRF, FR) Building multi-purpose hierarchical nanostructures from renewable sources	
17:40 – 19:00	Poster Session	(Café Jahn / DV108)
19:00	Dinner	(Café Jahn)

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Thursday, December 4th, 2014 :

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: Michael Gottfried)

Christof Wöll (KIT)

**What Supramolecular Chemistry can do for Solid State Physics:
Using Liquid-Phase Epitaxy of Molecular Frameworks to grow Designer Solids**

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

WISTA Centre

10:40 – 12:20 Oral Presentations I (Chair: Svante Svensson)

Bunsen Auditorium

10:40 *Pål Stenmark (Stockholm University)*

MTH1 inhibition eradicates cancer by preventing sanitation of the dNTP pool

11:00 *Florent Boudoire (EMPA)*

Shining light on water splitting photoanode microstructure self-assembly

11:20 *Irene Lo Vecchio (Universita` di Roma "La Sapienza")*

Infrared evidence of a Slater metal-insulator transition in NaOsO₃

11:40 *Kristina Edström (CNRS and University Uppsala)*

**Improved Performances of Nanosilicon Electrodes Using the Salt
LiFSI: A Photoelectron Spectroscopy Study**

12:00 *Rantej Bali (HZDR)*

**Printing Nearly-Discrete Magnetic Patterns Using Chemical Disorder Induced
Ferromagnetism**

12:20 – 13:30 Lunch Break

(Canteens on site)

13:30 – 15:10 Oral Presentations II (Chair: Susan Schorr)

Bunsen Auditorium

13:30 *Paul Zaslansky (Charité)*

Seeking better dental care: 3D imaging of complications from root canal therapy

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- 13:50 *Alexander Fedorov (IFW)*
Observation of a universal donor-dependent vibrational mode in graphene
- 14:10 *Michael Ramsey (Karl-Franzens University Graz)*
Imaging the wave functions of adsorbed molecules
- 14:30 *Claus Czeslik (Uni Dortmund)*
Pressure-Induced Protein Adsorption at Aqueous-Solid Interfaces
- 14:50 *Robin Woracek (UT Knoxville)*
Neutron tomography technique reveals phase fractions of crystalline materials in 3D

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: Nils Mårtensson)* Bunsen Auditorium
Christoph Lienau (Universität Oldenburg)
Ultrafast Coherent Charge Transfer in Solar Cells and Artificial Light Harvesting Systems: Toward Movies of Electronic Motion

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 5th, 2014 :

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: <i>Benedetta Casu</i>)	Bunsen Auditorium
9:00	<i>Michael Schneider (TUB)</i> Topological Mass of Magnetic Skyrmions	
9:15	<i>Hatice Doganay (FZJ)</i> Ferroelectrics, on the way to be seen by low energy electrons	
9:30	<i>Johanna Eichhorn (TUM)</i> On-surface Ullmann polymerization via intermediate organometallic networks on Ag(111)	
9:45	<i>Joscha Nehr Korn (HZB)</i> EPR using Coherent Synchrotron Radiation: Frequency-domain Fourier-Transform THz-EPR on Transition Metal Ion Molecules and Proteins	
10:00	<i>Azize Koc (University of Potsdam)</i> Time Resolved X-Ray Diffraction in XPP-end station	
10:15	<i>Jacqueline Kalms (Charité)</i> Structural highlights of an O₂-tolerant [NiFe]-hydrogenase	
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: <i>Atoosa Meseck</i>)	Bunsen Auditorium
11:10	<i>Anke Kaysser-Pyzalla (HZB)</i> Opening	
11:20	<i>Andreas Jankowiak (HZB)</i> BESSY II: Instrumentation Accelerator	
11:40	<i>Alexander Föhlisch (HZB)</i> BESSY II: Instrumentation Experimental Hall	
12:00	<i>Karsten Holldack (HZB)</i> Single bunch X-ray pulses on demand from a multi-bunch synchrotron radiation source	
12:20	<i>Stefan Werner (HZB)</i> 3-D structured zone plate optics for nanoscale X-ray imaging	
12:40	<i>Justine Schlappa (HZB)</i> Resonant Inelastic X-Ray Scattering at BESSY II	
13:00 – 13:10	<i>Andreas Jankowiak (HZB)</i> Closing of Sixth Joint BER II and BESSY II Users Meeting	