

# 10th Joint BER II and BESSY II User Meeting



Dec. 5<sup>th</sup> to Dec. 7<sup>th</sup> 2018

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

**Wednesday, December 5th, 2018 :**

**Young Scientists and Synchrotron Day**

Wilhelm-Conrad-Roentgen 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 *Bernd Rech (HZB)*

**Welcome**

14:10 *Jan Lüning (HZB)*

**BESSY II: Photon Science**

14:40 *Andreas Jankowiak (HZB)*

**Accelerator Operation and Projects @ HZB**

15:00 *Robert Seidel (HZB)*

**Sol<sup>3</sup>PES**

15:20 *Axel Knop-Gericke (FHI)*

**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 Scientist Session** (Chair: NN)

Bunsen Auditorium

16:30 *Samuel Edwards (Trinity College Dublin)*

**An X-ray spectroscopic investigation of uranium minerals relevant to the storage of nuclear waste**

16:45 *Vesna Zivanovic (HU Berlin)*

**Gold nanoparticles and drugs in cells: Insights from cryo-XRT and vibrational spectroscopy**

17:00 *Sasa Petrovic (MDC Berlin)*

**Structural basis of ASPL-mediated regulation of p97 methylation by METTL21D**

17:15 *Jian Ren (HZB)*

**An ex-situ study of the structure-property relationship in highly efficient carbon nitride photocatalysts for hydrogen evolution**

17:30 *Fabian Düll (Uni Erlangen)*

**Nanocluster arrays as model system for catalysis**

17:45 *Aisha Aqeel (Uni Regensburg)*

**Title to be announced**

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-Roentgen 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	Key Note Lecture (Chair: NN) <i>Gisela Schütz (MPU IS Stuttgart)</i> Title to be announced	Bunsen Auditorium
10:10 – 10:40	Coffee Break and Vendor Exhibition	WISTA Centre
10:40 – 12:20	Oral Presentations I (Chair: NN)	Bunsen Auditorium
10:40	<i>Benedetta Casu (University 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> Title to be announced	
11:40	<i>Alan Williams (The Wallace Collection Conservation, London)</i> Neutron techniques in cultural heritage, non-destructive examination of medieval armor	
12:00	<i>Nønne Prisle (University 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 (Chair: NN)	Bunsen Auditorium
13:30	<i>Norbert Koch (HUB)</i> Electronic properties of 2D semiconductors: from single crystals to 2D powders	

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- 13:50 *Holger Dau (FU Berlin)*  
**Nickel-iron catalysts for electrochemical water oxidation – redox synergism investigated by in-situ X-ray spectroscopy with millisecond time resolution**
- 14:10 *Emile Rienks (HZB, TU Dresden)*  
**Samarium hexaboride is a trivial surface conductor**
- 14:30 *Jessica Huss (MPI of Colloids and Interfaces Golm)*  
**Climate-dependent heat-triggered opening mechanism of Banksia seed pods**
- 14:50 *Sonja Lorenz (University of Würzburg)*  
**Regulatory mechanisms in HECT ligases**

<b>15:10 – 15:40</b>	<b>Coffee Break and Vendor Exhibition</b>	WISTA Centre
<b>15:40 – 15:50</b>	<b>Report from the User Committee</b>	Bunsen Auditorium
<b>15:50 – 17:00</b>	<b>Bestowal of Prizes: Friends of Helmholtz-Zentrum Berlin e.V.</b> <i>(Chair: M. Richter)</i>	Bunsen Auditorium
<b>17:00 – 18:00</b>	<b>Public Lecture</b> <i>(Chair: NN)</i> <i>Caterina Biscari (ALBA)</i> <b>LEAPS, coordinating and integrating European capacities</b>	Bunsen Auditorium
<b>18:00 – 20:00</b>	<b>Poster Session</b>	(BESSY II Experimental Hall)
<b>20:00</b>	<b>Berliner Buffet and Poster Prize</b> (sponsored by the companies participating in the vendor exhibition)	(BESSY II Foyer)

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

Friday, December 7th, 2018:

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

## Young Scientists and Neutron Day

9:00-9:30 Registration

(LMC-Foyer and Café  
Jahn)

9:30 – 11:00 Neutron Session (Chair: Klaus Habicht)

(Lecture Hall)

9:30 Bernd Rech/Jan Lüning (HZB)

### Opening

9:40 Fabiano Yokaichiya (HZB)

### Title to be announced

10:00 Stavros Samothrakitis (ASCR)

### Title to be announced

10:20 Veronika Grzimek (HZB)

### Title to be announced

10:40-11:00 Coffee Break

11:00 – 12:30 Young Scientists Session (Chair: NN)

(Lecture Hall)

11:00 Stanislav Nikitin (MPI Dresden)

### Decoupled spin dynamics in the rare-earth orthoferrite YbFeO<sub>3</sub>: Evolution of magnetic excitations through the spin-reorientation transition

11:15 Christian Pflug (Uni Leipzig)

### Crystal Structure refinement of luminescent materials NaMgH<sub>3-x</sub>F<sub>x</sub> by powder neutron diffraction

11:30 Annekatriin Sill (Uni Greifswald)

### Entanglement in polyelectrolyte multilayers

11:45 Tobias Thiede (BAM)

### Title to be announced

12:00 Camilla Evangelisti (ZSW Ulm)

### In-situ analysis using neutron radiography of porous nickel materials for alkaline water electrolysis

12:15 Torben Pfaff (JLU Giessen)

### 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)