

NSLS-II, CFN & LBMS Users' Meeting

We welcome all first-time, current, and future users

The NEXT-III satellite workshop will be held virtually on April 14, 2023

The Users' Meeting will be held virtually on April 24-28, 2023



AGENDA

April 14 and April 24-28, 2023

Friday, April 14

Satellite Workshop

9:00 a.m. - 4:30 p.m.

NEXT-III: Planning the Next Suite of Potential Beamlines at NSLS-II

Organizers: Amy Marschilok (SBU), Diana Monteiro (Hauptman-Woodward-MRI), David Sprouster (SBU), Matthew Whitaker (SBU)

Monday, April 24

8:50 a.m. - 4:35 p.m.

Workshop #2 - Multiscale TEM/STEM Techniques for Analysis and Characterization on Nanomaterials for Clean Energy

Organizers: Lihua Zhang (BNL-CFN), Judy Yang (BNL-CFN), Sooyeon Hwang (BNL-CFN), Fernando Camino (BNL-CFN)

9:00 a.m. - 4:30 p.m.

Workshop #3 - Current and Potential Soft X-ray and Tender Spectroscopy and Scattering Capabilities at NSLS-II

Organizers: Steve Hulbert (BNL-NSLS-II), Claudio Mazzoli (BNL-NSLS-II), Andrew Walter (BNL-NSLS-II), and Aswin Anbalagan (BNL-NSLS-II)

9:00 a.m. - 5:00 p.m.

Exhibitor Hall Open - Virtually (in Gather) and onsite at the NSLS-II (bldg. 740) and CFN (bldg. 735) lobbies

9:30 a.m.

Exhibitor Sponsored Continental Breakfast at NSLS-II (Bldg. 740) and CFN (Bldg. 735)

9:30 a.m. - 4:00 p.m.

Workshop #4 - Scientific Python for Data Acquisition, Management, and Analysis

Organizers: Daniel Allan (BNL-NSLS-II), Andi Barbour (BNL-NSLS-II), Stuart Campbell (BNL-NSLS-II), Karen Chen-Wiegart (BNL-NSLS-II), Abigail Giles (BNL-NSLS-II), Max Rakitin (BNL-NSLS-II)

10:00 a.m. - 4:15 p.m.

Workshop #1 - User Facilities 101: Techniques, Applications and Access

Organizers: Lisa Miller (BNL-NSLS-II), Priscilla Antunez (BNL-CFN), Aleida Perez (BNL-OEP)

12:00 p.m. - 1:00 p.m.

Exhibitor Networking Session - Virtually (in Gather) and onsite at the NSLS-II (Bldg. 740) and CFN (Bldg. 735) lobbies

3:00 p.m.

Exhibitor Sponsored Coffee Breaks at NSLS-II (Bldg. 740) and CFN (Bldg. 735)

- 5:00 p.m. - 6:00 p.m. Poster Viewing
- 6:00 p.m. - 7:30 p.m. Poster Q&A Session and Contest (Presenters available)

Tuesday, April 25

- 8:00 a.m. - 5:00 p.m. Poster Viewing – self-directed (open all day)
- 9:00 a.m. - 5:00 p.m. [Exhibitor Hall Open](#) - Virtually (in Gather) and onsite at the NSLS-II (Bldg. 740) and CFN (Bldg. 735) lobbies
- 9:30 a.m. Exhibitor Sponsored Continental Breakfast at NSLS-II (Bldg. 740) and CFN (Bldg. 735)
- 10:00 - 10:10 a.m. Welcome (Jack Anderson)
- 10:10 - 10:35 a.m. BES Update (Linda Horton)
- 10:35 – 11:00 a.m. NSLS-II Update (John Hill)
- 11:00 – 11:30 a.m. CFN Update (Chuck Black)
- 11:30 – 11:45 a.m. Q&A Session
Moderators: Diana Monteiro and Andreas Liapis
- 11:45 – 12:00 p.m. Announcement of Incoming UEC Members
David Sprouster and Andreas Liapis
- 12:00 – 1:00 p.m. Lunch and [Exhibitor Networking Session](#) - Virtually (in Gather) and onsite at the NSLS-II (bldg. 740) and CFN (bldg. 735) lobbies
Lunch at NSLS-II (Bldg. 740) is sponsored by Edwards Vacuum
- 1:00 – 1:15 p.m. LBMS Update (Sean McSweeney)
- 1:15 – 2:00 p.m. Facilities +

Flash talk on Synchrotron sources (Silvana Westbury, lightsources.org)

Flash talk on NSRCs (Branden Brough, NNCO Director)

Flash talk on cryo-EM (Mary Ann Wu, NIGMS Program Director)
- 2:00 – 2:45 p.m. ID&E Talk (Tabbatha Dobbins)
- 2:45 – 3:05 p.m. Break
- 3:00 p.m. Exhibitor Sponsored Coffee Breaks at NSLS-II (Bldg. 740) and CFN (Bldg. 735)
- 3:05 – 3:15 p.m. Awards

UEC Community Service Award – David Sprouster
Gus Prince Award – Abram Ledbetter
- 3:15 – 3:30 p.m. Julian Baumert Award Winner Presentation – *Ben Ocko*

- 3:30 – 4:10 p.m. Poster Award Winners - *Maria Okuniewski and Andreas Liapis*
Each poster winner (in each category) will give a short presentation for about 5 minutes
- 6:00 – 9:00 p.m. Users' Meeting Banquet at [Atlantis Aquarium](#), Riverhead, NY.
(Registration to the Users' Meeting is required)

Wednesday, April 26

- 8:00 a.m. - 5:00 p.m. Poster Viewing – self-directed (open all day)
- 8:00 a.m. – 4:30 p.m. **Workshop #8 - SPM User Meetup and Hands-on Open-source SPM Software "Hack a day" with Special Focus on Automatization of SPM**
Organizers: Percy Zahl (BNL-CFN) and Thorsten Wagner ((Johannes Kepler Universität)
- 9:00 a.m. - 4:05 p.m. **Workshop #5 - Fluid Transport in Nanomaterials for Sustainable Energy and Water Production**
Organizers: Gregory Doerk (BNL-CFN), Carlos Colosqui (Stony Brook University), Ruipeng Li (NSLS-II)
- 9:00 a.m. - 4:30 p.m. **Workshop #6 - Cryo-EM at LBMS: Protein Structures, Protein-Protein and Protein-Cell Interactions**
Organizers: Ligu Wang (BNL-LBMS), Qun Liu (BNL-Biology), Guobin Hu (BNL), Jake Kaminsky (BNL), Dongyan Tan (Stony Brook University), Jun Liu (Yale University), Yong Xiong (Yale University)
- 9:00 a.m. - 5:00 p.m. **Exhibitor Hall Open** - Virtually (in Gather) and onsite at the NSLS-II (Bldg. 740) and CFN (Bldg. 735) lobbies
- 9:30 a.m. Exhibitor Sponsored Continental Breakfast at NSLS-II (Bldg. 740) and CFN (Bldg. 735)
- 12:00 p.m. – 1:00 p.m. **Exhibitor Networking Session** - Virtually (in Gather) and onsite at the NSLS-II (bldg. 740) and CFN (bldg. 735) lobbies
- 3:00 p.m. Exhibitor Sponsored Coffee Breaks at NSLS-II (Bldg. 740) and CFN (Bldg. 735)

Thursday, April 27

- 8:00 a.m. - 5:00 p.m. Poster Viewing – self-directed (open all day)
- 9:00 a.m. - 5:00 p.m. **Exhibitor Hall Open** - Virtually (in Gather)
- 9:00 a.m. – 5:00 p.m. **Workshop #9 - Curation, Data Analysis and Computational Modeling of X-ray Absorption Spectroscopy**
Organizers: Eli Stavitski (BNL-NSLS-II), Daniel Allan (BNL-NSLS-II), Deyu Lu (BNL-CFN), Xiaohui Qu (BNL-CFN) and Matthew R. Carbone (BNL-CSI)

- 9:00 a.m. - 11:45 a.m. **Workshop #11 - Structural Analysis of Highly Disordered Materials Using Total Scattering (Part 1)**
Organizers: Gihan Kwon (NSLS-II, BNL), Jue Liu (SNS, ORNL), Leighanne Gallington (APS, ANL)
- 10 a.m. - 4:30 p.m. **Workshop #10 - Multimodal Correlative Studies of Functional Nanomaterials**
Organizers: Dmitri Zakharov (BNL-CFN), Ashley Head (BNL-CFN), Youngseok Yu (BNL-CFN)
- 12:00 p.m. – 1:00 p.m. UEC Lunch
- 12:00 p.m. – 1:00 p.m. **Exhibitor Networking Session - Virtually (in Gather)**
- 1:20 p.m. – 4:30 p.m. **Workshop #12 - Multimodal and Multi-scale Bioimaging for Biomedical and Bioenergy Research (Part 1)**
Organizers: Qun Liu (BNL-Biology), Ligu Wang (BNL-LBMS), Xianghui Xiao (BNL-NSLS-II), Yong Chu (BNL-NSLS-II), Yang Yang (BNL-NSLS-II), Tim Paape (BNL-Biology), Yuewei Lin (BNL-CSI), Jun Liu (Yale U.), Sean McSweeney (BNL-NSLS-II)

Friday, April 28

- 8:00 a.m. - 5:00 p.m. Poster Viewing – self-directed (open all day)
- 9:00 a.m. - 5:00 p.m. **Exhibitor Hall Open - Virtually (in Gather)**
- 9:00 a.m. - 11:45 a.m. **Workshop #11 - Structural Analysis of Highly Disordered Materials Using Total Scattering (Part 2)**
Organizers: Gihan Kwon (NSLS-II, BNL), Jue Liu (SNS, ORNL), Leighanne Gallington (APS, ANL)
- 9:00 a.m. - 12:00 p.m. **Workshop #13 - Recent Advances in Simultaneous Infrared and Raman Spectromicroscopy**
Organizers: Samuel A. Tenney (BNL-CFN), Sabine Neal (BNL-CFN), Jay Anderson, Frank Weston (Photothermal Spectroscopy Corp.), Mustafa Kansiz (Photothermal Spectroscopy Corp.)
- 9:30 a.m. - 5:15 p.m. **Workshop #7 - A New Era in Sample Return Missions: Synchrotron Analysis Opportunities Beyond Earth Materials**
Organizers: Timothy Glotch (Stony Brook University), George Flynn (SUNY Plattsburgh), Paul Northrup (Stony Brook University), Mehmet Yesiltas (Kirkklareli University)
- 9:45 a.m. – 3:00 p.m. **Workshop #14 - New Science Enabled by Ultra-high Throughput Crystallography**
Organizer: Alexei Soares (BNL-NSLS-II)
- 12:00 – 1:00 p.m. **Exhibitor Networking Session - Virtually (in Gather)**

- 1:30 p.m. – 5:15 p.m. **Workshop #15 - Nanoscale Structure in Quantum Materials Under External Stimuli**
Organizers: AM Milinda Abeykoon (BNL-NSLS-II), Emil Bozin (BNL-CMPMSD), João Horta Belo (IFIMUP/FCUP Portugal), Trevor Tyson (NJIT)
- 1:30 p.m. – 4:30 p.m. **Workshop #12 - Multimodal and Multi-scale Bioimaging for Biomedical and Bioenergy Research (Part 2)**
Organizers: Qun Liu (BNL-Biology), Ligu Wang (BNL-LBMS), Xianghui Xiao (BNL-NSLS-II), Yong Chu (BNL-NSLS-II), Yang Yang (BNL-NSLS-II), Tim Paape (BNL-Biology), Yuwei Lin (BNL-CSI), Jun Liu (Yale U.), Sean McSweeney (BNL-NSLS-II)
- 1:30 p.m. - 4:00 p.m. **Workshop #16 – Working Toward Wellness, Equity, & Liberation in a Nanoscience Center: Sharing Lessons Learned and Discussing Future Ideas**
Organizers: Dr. Sara E. Mason (BNL-CFN), Miriam Krause (NSF Center for Sustainable Nanotechnology)