

# NSLS-II, CFN & LBMS Users' Meeting

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

April 24-28, 2023

## Satellite Workshop

Friday, April 14

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

## Workshops

Monday, April 24

User Facilities 101: Techniques, Applications and Access

Multiscale TEM/STEM Techniques for Analysis and Characterization on Nanomaterials for Clean Energy

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

Scientific Python for Data Acquisition, Management, and Analysis

## Plenary Session

Tuesday, April 25

Linda Horton, *Associate Director of Science for Basic Energy Sciences*

Jack Anderson, *Deputy Director for Operations, Brookhaven National Laboratory*

John Hill, *Director, National Synchrotron Light Source II & Deputy Associate Laboratory Director for Energy & Photon Sciences*

Chuck Black, *Director, Center for Functional Nanomaterials*

Facilities and Flash Talks with Q&A

Tabbatha Dobbins, *Diversity, Equity, and Inclusion Discussion*

## Poster Session

Tuesday, April 25

Self-directed poster viewing open all day

## Banquet

Tuesday, April 25, 6 - 9:00PM

Atlantis Aquarium, Riverhead, NY

## Lunch and Exhibitor Networking Sessions

Monday through Friday, 12 - 1:00PM

## Workshops

Wednesday, April 26

Fluid Transport in Nanomaterials for Sustainable Energy & Water Production

Cryo-EM at LBMS: Protein Structures, Protein-Protein & Protein-Cell Interactions

SPM User Meetup and Hands-on Open-source SPM Software "Hack a day" with Special Focus on Automatization of SPM

Thursday, April 27

Curation, Data Analysis and Computational Modeling of X-ray Absorption Spectroscopy

Multimodal Correlative Studies of Functional Nanomaterials

Structural Analysis of Highly Disordered Materials Using Total Scattering (*Part 1*)

Multimodal and Multi-scale Bioimaging for Biomedical and Bioenergy Research (*Part 1*)

Friday, April 28

Structural Analysis of Highly Disordered Materials Using Total Scattering (*Part 2*)

Recent Advances in Simultaneous Infrared and Raman Spectromicroscopy

A New Era in Sample Return Missions: Synchrotron Analysis Opportunities Beyond Earth Materials

New Science Enabled by Ultra-high Throughput Crystallography

Nanoscale Structure in Quantum Materials Under External Stimuli

Multimodal and Multi-scale Bioimaging for Biomedical and Bioenergy Research (*Part 2*)

Working Toward Wellness, Equity, & Liberation in a Nanoscience Center: Sharing Lessons Learned and Discussing Future Ideas