

NSLS-II & CFN Virtual Users' Meeting

Welcome all: Returning, first-time, and future users

May 23-26, 2022



Strategic Plenary Session

Tuesday, May 24

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

Doon Gibbs, *Director, 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

Paul Northrup, *Diversity, Equity, and Inclusion Discussion*

Poster Q&A Session

Monday, May 23

Self-directed poster viewing available on all days

Workshops

Monday, May 23

NSLS-II and CFN 101: Techniques, Applications, and Access in Energy Sciences

Electronic Structure of Nanomaterials: A Special Symposium in Honor of Dr. Mark Hybertsen

Correlated Topological Materials for Quantum Information Sciences

Magneto-Optical-Electronic Properties of Nanomaterials and Their Applications

Understanding 3-D Printing of Soft Matter at the Molecular Level Instruments

Data Access and Machine Learning at NSLS-II – A Tutorial (Part 1)

Workshops

Wednesday, May 25

2D Materials and Beyond (Part 1)

SPM User Community Meetup: “Hands-on Open” Source SPM Software Virtual “Hack a Day” Learning Session and Future Outlook on Artificial Intelligence Driven Autonomous SPM (Part 1)

Advanced Metrology Needs for Addressing Critical Microelectronics Challenges

Data Access and Machine Learning at NSLS-II – A Tutorial (Part 2)

Electron Backscattered Diffraction (EBSD) Tutorial: Fundamentals, Basic Data Acquisition and Analysis (Part 1)

Solvation Structure, Electrical Double Layer, and Interphases—Solving the Unsolvable

Correlating Soft-X ray Tomography with Cryo-Electron Tomography for High Resolution Analysis of Cellular Structure

Thursday, May 26

2D Materials and Beyond (Part 2)

SPM User Community Meetup: “Hands-on Open” Source SPM Software Virtual “Hack a Day” Learning Session and Future Outlook on Artificial Intelligence Driven Autonomous SPM (Part 2)

Data-Driven Analysis, Characterization and Modeling in Battery Development and Manufacturing

What is BEST for Atmospheric Sciences?

Diagnosing Microscopic Sources of Qubit Decoherence by Multimodal Materials Analysis

Electron Backscattered Diffraction (EBSD) Tutorial: Fundamentals, Basic Data Acquisition and Analysis (Part 2)