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**Biogeochemical Multimodal Imaging**
**Educator and Student Training**
**June 27, 2022, to June 30, 2022**
**Brookhaven National Laboratory**
*(Preliminary agenda: subject to change)*

| Monday, June 27, 2022 Remote via Zoom.Gov | |
|---|---|
| 9 am | Welcome |
| 9:15 am | Overview of the SPARK program and goals for the workshop Aleida Perez |
| 9:30 am | Introduction to the NSLS-II Lisa Miller |
| 10:05 am | Introduction to the CFN Ashley Head |
| 10:40 am | Break |
| 10:50 am | Participants' Introductions, expectations, and science interests |
| 11:50 pm | Wrap up |
| 12:00 pm | Adjourn |

| Tuesday, June 28, 2022: Center for Functional Materials -- On-Site Bldg. 735, Large conference room second floor | |
|---|---|
| 8:30 am | Participants check in GUV center |
| 9:00 am | Overview of the Day |
| 9:15am | Lecture: Microscopy and Imaging-TEM Fernando Camino |
| 10:00 am | Lecture: Microscopy and Imaging-AFM Dmytro Nykypanchuk |
| 10:45 am | Break |
| 11:00 am | Tour of the CFN Fernando Camino Dmytro Nykypanchuk |
| 11:30 am | Lunch |
| 1:00 pm | Activity#1: Transmission Electron Microscope: sample preparation and data collection Fernando Camino |
| 2:00 pm | Activity #2: Atomic Force Microscope: sample preparation and data collection Dmytro Nykypanchuk |
| 3:00 pm | Break |
| 3:15 pm | Wrap up and adjourn |

| **Wednesday, June 29, 2022: National Synchrotron Light Source-II —On-site Bldg. 743, Room 156** | |
|---|---|
| 9:00 am | Overview of the Day |
| 9:15am | Lecture: Infrared Imaging<br>Lisa Miller |
| 10:00 am | Lecture: X-ray Powder Diffraction<br>Sanjit Ghose |
| 10:45 am | Break |
| 11:00 am | Tour of the NSLS-II<br>Vivian Stojanoff<br>Aleida Perez |
| 12:00 pm | Lunch |
| 1:00 pm | Activity #1: Infrared microscopy: sample preparation and data collection<br>Lisa Miller |
| 2:00 pm | Activity #2: Powder diffraction-XPD: sample preparation and data collection<br>Sanjit Ghose |
| 3:00 pm | Break |
| 3:15 pm | Wrap up and adjourn |

| **Thursday June 30, 2022<br>Virtual via Zoom** | |
|---|---|
| 9:00 am | Overview of the Day |
| 9:15 am | How to become part of the SPARK program<br>Teacher and student experiences<br>Aleida Perez<br>Vivian Stojanoff<br>Mary Kroll, West Islip HS<br>Elizabeth Lam<br>Jack Shultz |
| 10:30 am | Break |
| 10:45 am | Project ideas and discussion |
| 11:50 pm | Wrap up and adjourn |
| 12:00 pm | Adjourn |