

WORKSHOPS # 3 and 4
October 2-3, 2025
NSLS-II Bldg 745, Room 156

Frontiers and Opportunities in the Earth, Environmental and Planetary Sciences at NSLS-II

Organizers: Ryan Tappero and Matthew Whitaker

This workshop focuses on current and future beamline capability and capacity needs for the Earth, Environmental and Planetary Sciences (EEP) community at NSLS-II. Integration of synchrotron approaches (imaging, scattering, microscopy, microprobe, bulk) that probe a variety of properties (XAS, IR, XRD) is characteristic of EEP users that study Earth systems (rocks, soils, sediments, water, and atmosphere). There is no single spatial scale or element that can adequately describe Earth systems and processes. Integration across spatial scales and elements (e.g., C, Ca, Fe, Y) is a unique strength of the U.S. synchrotron portfolio and supports some of the most pressing science questions in Earth, Environmental and Planetary Sciences. This workshop is designed to bring together researchers in all fields of Earth Science to discuss their cutting-edge science, difficulties in addressing their needs and scientific questions, and leveraging new techniques and capabilities that will be enabled by the NEXT-III and NSLS-IIU projects.

Day One – October 2, 2025

Start Time (ET)	Title	Speaker (Affiliation)
9:00	Breakfast (coffee, pastries) & Check-in	
9:45	Welcome – Qun Shen	NSLS-II
9:50	BEPSP Contextualization –Sean McSweeney	NSLS-II
10:00	Introduction/Charge – Tappero/Whitaker	NSLS-II/Stony Brook U.
10:15	Brandy Toner	U. Minnesota
10:45	Break (coffee, tea, snacks) – Group Photo	
11:00	Derek Peak	U. Sask.
11:30	Kate Szerlag	Texas A & M
12:00	Matt Siebecker	Texas Tech
12:30	Lunch Break (provided)	
1:30	Lawrence Martin	Stony Brook U.
2:00	Wenlu Zhu	U. Maryland
2:30	Mark Rivers	U. Chicago
3:00	Break (coffee, tea, snacks)	
3:30	Matt Whitaker	Stony Brook U.
4:00	Andy Campbell	U. Chicago
4:30	DISCUSSION (Whitaker, Tappero)	
5:00	Adjourn	
6:30	Dinner (no-host)	

Day Two – October 3, 2025

Start Time (ET)	Title	Speaker (Affiliation)
9:30	Breakfast (coffee, pastries)	
10:00	Charge/Recap – Tappero/Whitaker	NSLS-II/Stony Brook U.
10:15	Dan Olds	NSLS-II
10:45	Break (coffee, tea, snacks)	
11:00	Paul Northrup	Stony Brook U.
11:30	Juergen Thieme	U. Goettingen
12:00	Tim Glotch	Stony Brook U.
12:30	Lunch Break (provided)	
1:30	DISCUSSION (Whitaker, Tappero)	
2:30	Break (coffee, tea, snacks)	
3:00	Summary & Writing (Whitaker, Tappero)	
5:00	Adjourn	