MIT-BNL Meeting

Brookhaven National Laboratory, July 24-26, 2017
NSLS-II, Building 745, Room 156

Talks: 30' = 20' + 10' Q&A
15' = 10' + 5' Q&A

Monday, July 24

3:00 - 3:30	Arrival at BNL
3:45 - 5:15	Tour of NSLS-II *(QS / KA / SBW / ED / YC / RP): enter and exit B745*
6:30 -	Dinner (no host)

Tuesday, July 25

8:30 - 8:45	Welcome and Introduction (John Hill)
8:45 - 9:15	*MIT 1-1 (Qiyang Lu/Yildiz Group): Controlling Properties of Perovskite Oxides via Oxygen Defect Engineering: in situ and in operando Studies Enabled by Ambient Pressure X-ray Spectroscopic Tools*
9:15 - 9:30	*BNL 1-1 (Jose Rodriguez/Sanjaya Senanayake): Catalysis for C1 chemistry*
9:30 - 9:45	*BNL 1-2 (Ira Waluyo): In Situ Study of Heterogeneous Catalysis using Ambient Pressure Soft X-ray Spectroscopy at CSX-2*
9:45 - 10:00	*Short break for discussions / Add'l presentations*
10:00 - 10:30	*MIT 2-1 (Jagadeesh Moodera): Surfaces, Interfaces, Spins – The age of Interface!*
10:30 - 11:00	*MIT 2-2 (Geoff Beach): Room Temperature Magnetic Skyrmions in Multilayer Films Imaged by Transmission X-Ray Microscopy*
11:00 - 11:15	*BNL 2-1 (Elio Vescovo/Andrew Walter): The Electron Spectro Microscopy beamline at NSLS2*
11:15 - 11:30	*Short break for discussions / Add'l presentations*
11:30 - 12:00	*MIT 3-1 (Rafael Jaramillo): Synchrotrons for condensed matter physics and materials science: Research snippets and an outlook*
12:00 - 12:15	*BNL 3-1 (Radoslav Adzic)*
12:15 - 12:30	*BNL 3-2 (Yong Chu): Multiscale imaging of complex systems*
12:30 - 2:00	*Working Lunch / Open discussion / Specific beamline tours*

2:00 - 2:30	*MIT 4-1 (Caroline Ross): Beamline studies of block copolymer self-assembly and magnetic materials*
2:30 - 2:45	*BNL 4-1 (Christie Nelson/Ken Evans-Lutterodt): Quantum Materials Studies at the In-Situ and Resonant Scattering Beamline*
2:45 - 3:00	*BNL 4-2 (Andrei Fluerasu/Matt Dawber): The Coherent Hard X-ray beamline: Unlocking the secrets of domain wall dynamics in ferroelectric*
3:00 - 3:15	*Short break for discussions / Add'l presentations*
3:15 - 3:45	*MIT 5-1 (Jaun Corchado Garcia/Shao-Horn Group): Designing Oxides for Energy Storage*
3:45 - 4:00	*BNL 5-1 (Eric Dooryhee/Sanjit Ghose)*
4:00 - 4:15	*BNL 5-2 (Klaus Attenkofer/Eli Stavitski): Studies of energy materials at the Inner Shell Spectroscopy beamline*
4:15 - 4:30	*BNL 5-3 (X.Q. Yang): Using unique capabilities of NSLSII beamlines (XPD, ISS, HXN, and TES) to study battery materials*
4:30 - 6:30	*Additional BNL presentations / Open discussion / Specific beamline tours*
6:30 - 8:30	Dinner (no host)

Wednesday, July 26

8:30 - 9:00	*MIT 6-1 (Riccardo Comin): X-ray probes of ordered electronic phases in strongly correlated systems*
9:00 - 9:15	*BNL 6-1 (Ignace Jarrige): Quantum materials research using resonant inelastic X-ray scattering*
9:15 - 9:30	*BNL 6-2 (Stuart Wilkins/Claudio Mazzoli)*
9:30 - 9:45	*BNL 6-3 (Yong Cai): The meV Resolution Inelastic X-ray Scattering Beamline at NSLS-II – Opportunities for Fast Dynamics at Mesoscales*
9:45 - 10:00	*Short break for discussions / Add'l presentations*
10:00 - 10:30	*MIT 7-1 (Guo Zong/Nuh Gedik): Ultrafast recovery of superlattice after transient charge density wave quenching*
10:30 - 10:45	*BNL 7-1 (Andy Cook): Electron- and Photo-Induced Processes for Molecular Energy Conversion*
10:45 - 11:00	*BNL 7-2 (Larry Carr): Infrared spectroscopy and applications in condensed matter studies*
11:00 - 12:30	*Additional BNL presentations / Open discussion / Specific beamline tours*
12:30 - 1:30	Bag Lunch for visitors
2:00	Departure