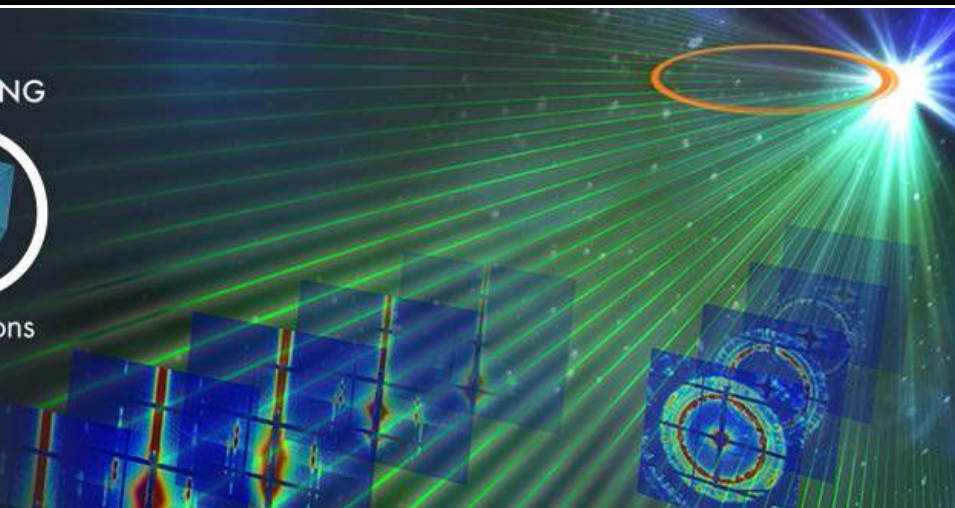


## 2017 NSLS-II AND CFN USERS' MEETING

# M<sup>2</sup>4D

Making and Measuring in 4-Dimensions

**May 15-17, 2017**



## Agenda

### Sunday, May 14, 2017

Starts	Ends	Events	Location
4:00 PM	7:00 PM	Early Registration	Berkner Hall Lobby and Conf. Rm. D
4:00 PM	7:00 PM	Exhibitor Set Up (optional)	Berkner Hall Lobby and Cafeteria
4:00 PM	7:00 PM	Poster Set Up (optional)	Berkner Hall Cafeteria

### Monday, May 15, 2017

Starts	Ends	Events	Location
7:00 AM	5:00 PM	Registration Office opens (All attendees must check in before attending any event)	Berkner Hall Lobby and Conf. Rm. D
7:30 AM	4:00 PM	Exhibitor Set Up	Berkner Hall Lobby and Cafeteria
7:30 AM	4:00 PM	Poster Set Up	Berkner Hall Cafeteria
9:00 AM	5:00 PM	Workshops	Locations
8:50 AM	5:20 PM	Workshop 1: Multi-Dimensional and Multi-modal X-ray Imaging and Analysis	Berkner Hall, Bldg. 488, Conf. Rm. B
8:40 AM	5:30 PM	Workshop 2: Spectro-microcopy at Nanoscale: Exploring Chemical, Electronic and Magnetic Properties of Novel Materials	Center for Functional Nanomaterials (CFN), Bldg. 735, Large Conference Room
8:50 AM	5:30 PM	Workshop 3: Synchrotron Techniques in Support of DOE's Subsurface R&D Effort	Computational Science, Bldg. 725, Seminar Room
8:30 AM	5:40 PM	Workshop 4: Measurement and Interpretation of Diffuse Scattering in X-Ray Diffraction for Macromolecular Crystallography	Chemistry, Bldg. 555, Hamilton Seminar Room
12:30 PM	1:30 PM	Lunch Break (included - luncheon ticket required)	Workshop Locations
4:30 PM	5:30 PM	NSLS-II Tours - sign up at registration desk	Berkner Hall, Bldg. 488, Conf. Rm. D
	5:00 PM	Workshops Conclude	Workshop Locations
	5:00 PM	Registration Office Closes	Berkner Hall Lobby and Conf. Rm. D
5:30 PM	7:30 PM	Exhibitor Reception and Poster Session	Berkner Hall Lobby and Cafeteria
5:30 PM	7:30 PM	Discovery Park and BNL Quality of Life/Infrastructure	Berkner Hall Lobby

### Tuesday, May 16, 2017

Starts	Ends	Events	Location
7:30 AM	5:00 PM	Registration Office Opens (All attendees must check in before attending any event)	Berkner Hall, Bldg. 488, Conf. Rm. D
8:00 AM	5:00 PM	Exhibitor Session	Berkner Hall Lobby and Cafeteria
8:00 AM	5:00 PM	Poster Session	Berkner Hall Cafeteria
		<b>Morning Plenary Session - Plenary Sessions are Open to All Free of Charge (Registration is required)</b>	
		Session Chair, Donald Weidner, Chair, NSLS-II Users' Executive Committee, Distinguished Professor, Stony Brook University	
8:30 AM	8:35 AM	Welcome, Jeff Fitts, Research Scholar, Princeton University	Berkner Hall Auditorium
8:35 AM	8:55 AM	BNL Update, Doon Gibbs, Director, Brookhaven National Laboratory	Berkner Hall Auditorium
8:55 AM	9:40 AM	BES Update, Bruce Garrett, Director Chemical Sciences, Geosciences, & Biosciences Division, U.S. Department of Energy, Office of Basic Energy Sciences	Berkner Hall Auditorium

9:40 AM	10:25 AM	Keynote Talk, Teri W. Odom, Charles E. and Emma H. Morrison Professor; Associate Chair of the Department of Chemistry, Northwestern University	Berkner Hall Auditorium
10:25 AM	10:55 AM	Morning Break - Continental Breakfast (included)	
10:25 AM	1:30 PM	Discovery Park and BNL Quality of Life/Infrastructure	Berkner Hall Lobby
10:25 AM	12:15 PM	BNL Exhibitors Networking Session (Open to all BNL)	Berkner Hall Lobby and Cafeteria
10:25 AM	10:35 AM	Photo Session - NSLS-II/CFN UEC Members, BNL and DOE Management	Outside Berkner Hall
10:35 AM	10:45 AM	Photo Session - Users' Meeting Planning Committee	Outside Berkner Hall

### Late Morning Plenary Session - Plenary Sessions are Open to All Free of Charge (Registration is required)

Session Chair, Jeff Fitts, Vice Chair, NSLS-II Users' Executive Committee, Research Scholar, Princeton University

10:55 AM	11:25 AM	NSLS-II Update, John Hill, Deputy ALD for Energy Sciences & Photon Sciences and Director of NSLS-II, Brookhaven National Laboratory	Berkner Hall Auditorium
11:25 AM	11:45 AM	NSLS-II Strategic Plan Update, Qun Shen, Deputy for Science, NSLS-II, Brookhaven National Laboratory	Berkner Hall Auditorium
11:45 AM	12:05 PM	Soft X-ray Scattering and Spectroscopy Research Program Update, Stuart Wilkins, Program Manager, NSLS-II, Brookhaven National Laboratory	Berkner Hall Auditorium
12:05 PM	12:15 PM	UEC Election Results, Jen Bohon, Case Western University, incoming NSLS-II UEC Chair	Berkner Hall Auditorium
12:15 PM	1:30 PM	Joint UEC lunch with, Bruce Garrett, Director Chemical Sciences, Geosciences, & Biosciences Division, U.S. Department of Energy, Office of Basic Energy Sciences	Berkner Hall Conf. Rm. A
12:15 PM	1:30 PM	Lunch Break (included - luncheon ticket required)	Cafeteria

### Afternoon Plenary Session - Plenary Sessions are Open to All Free of Charge (Registration is required)

Session Chair, Stanislaus Wong, Chair, CFN Users' Executive Committee, Professor, Department of Chemistry, Stony Brook University

1:30 PM	4:00 PM	BNL Exhibitors Networking Session (Open to all BNL)	Berkner Hall Lobby and Cafeteria
1:30 PM	2:00 PM	CFN Update, Chuck Black, Director, Center for Functional Nanomaterials (CFN), Brookhaven National Laboratory	Berkner Hall Auditorium
2:00 PM	2:45 PM	Plenary Talk 1: "Synchrotron Based in situ Characterization during Atomic Layer Deposition", Christophe Detavernier, Professor, Ghent University	Berkner Hall Auditorium
2:45 PM	3:05 PM	Afternoon Break (included)	Berkner Hall

### Late Afternoon Plenary Session - Plenary Sessions are Open to All Free of Charge (Registration is required)

Session Chair, Don DiMarzio, Vice Chair, CFN Users' Executive Committee, Senior Scientist & Engineering Fellow, Northrop Grumman Corporation

3:05 PM	3:50 PM	Plenary Talk 2: XPCS: Past, Present and Future, Mark Sutton, Professor, McGill University	
3:50 PM	4:10 PM	Complex Scattering Research Program Update, Ron Pindak, Program Manager, NSLS-II, Brookhaven National Laboratory	Berkner Hall Auditorium
4:10 PM	4:30 PM	Diffraction and In-Situ Scattering Research Program Update, Eric Dooryhee, Program Manager, NSLS-II, Brookhaven National Laboratory	Berkner Hall Auditorium
4:30 PM	4:45 PM	Poster Winners and Community Service Awards	Berkner Hall Auditorium
4:30 PM	5:30 PM	NSLS-II Tours - sign up at registration desk	Berkner Hall, Bldg. 488, Conf. Rm. D
4:45 PM	5:00 PM	Julian David Baumert, PhD Thesis Award and Presentation	Berkner Hall Auditorium
5:00 PM	5:30 PM	NSLS-II UEC Meeting	Berkner Hall Conf. Rm. B
5:00 PM	5:30 PM	CFN UEC Meeting	Berkner Hall Conf. Rm. A
	5:30 PM	Board Bus to Giorgios in Baiting Hollow	Outside Berkner Hall - Bldg. 488
	5:40 PM	Pickup at bldg. 740 (tour attendees)	Outside Bldg. 740
	5:45 PM	Bus leaves BNL to (Giorgios)	Outside Berkner Hall - Bldg. 488
6:15 PM	9:45 PM	Users' Meeting Annual Banquet (Giorgios)	Baiting Hollow, NY

9:45 PM

Bus Departs to BNL

**Wednesday, May 17, 2017**

<b>Starts</b>	<b>Ends</b>	<b>Events</b>	<b>Location</b>
8:00 AM	1:30 PM	Registration Office opens (All attendees must check in before attending any event)	Berkner Hall Conf. Rm. D
9:00 AM	5:00 PM	Workshops	Locations
9:00 AM	5:00 PM	Workshop 5: Bringing Big Science into the Classroom	Computational Science, Bldg. 725, Seminar Room
8:30 AM	12:30 PM	Workshop 6: Polarized Resonant Soft X-ray Scattering at the NSLS-II	Berkner Hall, Bldg. 488, Conf. Rm. B
9:00 AM	5:00 PM	Workshop 7: Prospects in Imaging Materials and their Dynamics by Coherent X-ray Scattering	Chemistry, Bldg. 555, Hamilton Seminar Room
1:00 PM	5:00 PM	Workshop 8: Data Acquisition Cookbook: A Tutorial on NSLS-II's Python DAQ Software	Berkner Hall, Bldg. 488, Conf. Rm. B
8:30 AM	5:00 PM	Workshop 9: Nano-mechanics: From Material Fabrication to In-Operando Characterization	Center for Functional Nanomaterials (CFN), Bldg. 735, Large Conference Room
	12:00 PM	Exhibitor raffle prizes awarded	Berkner Hall, Conf. Rm. D
12:30 PM	1:30 PM	Lunch Break (included - luncheon ticket required)	Workshop Locations
	5:00 PM	Workshops Conclude	Workshop Locations

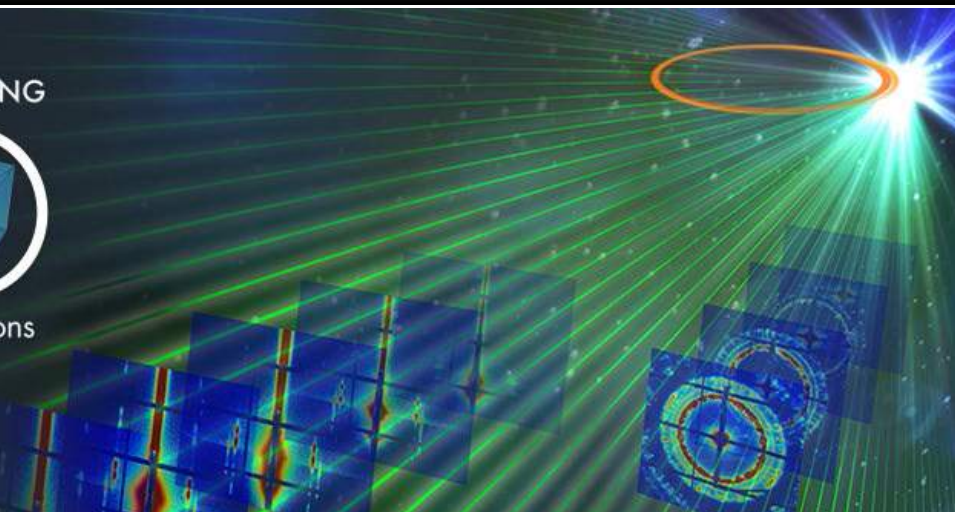
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## 2017 NSLS-II AND CFN USERS' MEETING

# M<sup>2</sup>4D

Making and Measuring in 4-Dimensions

May 15-17, 2017



## Workshops

### Monday, May 15, 2017

Workshop 1	<b>Multi-dimensional and Multi-modal X-ray Imaging and Analysis</b> <i>Organizer(s):</i> Yu-chen Karen Chen-Wiegart, ycchen@bnl.gov (Stony Brook University; NSLS-II, BNL), Lisa Miller, lmiller@bnl.gov (NSLS-II, BNL), Juergen Thieme, jthieme@bnl.gov (NSLS-II, BNL), Yong Chu, ychu@bnl.gov (NSLS-II, BNL), Thomas Caswell, tcaswell@bnl.gov (NSLS-II, BNL), Stuart Campbell, scampbell@bnl.gov (NSLS-II, BNL)	Berkner Hall, Bldg. 488, Conference Room B
Workshop 2	<b>Spectro-microscopy at the Nanoscale: Exploring Chemical, Electronic and Magnetic Properties of Novel Materials</b> <i>Organizer(s):</i> Ruud Tromp, rtromp@us.ibm.com (IBM TJ Watson Research Center), Elio Vescovo, vescovo@bnl.gov (NSLS-II, BNL), Jurek Sadowski, sadowski@bnl.gov (CFN, BNL)	Center for Functional Nanomaterials (CFN), Bldg. 735, Large Conference Room
Workshop 3	<b>Synchrotron Techniques in Support of DOE's Subsurface R&amp;D Effort</b> <i>Organizer(s):</i> Martin Schoonen, mschoonen@bnl.gov (BNL), Mohamed Elbakhshwan, bakhshwan@bnl.gov, 631-344-3079 (BNL), Simerjeet K Gill, gills@bnl.gov (BNL), Juergen Thieme, jthieme@bnl.gov (BNL)	Computational Science, Bldg. 725, Seminar Room
Workshop 4	<b>Measurement and Interpretation of Diffuse Scattering in X-Ray Diffraction for Macromolecular Crystallography</b> <i>Organizer(s):</i> Robert Sweet, rsweet@bnl.gov (NSLS-II, BNL), Michael Wall, mewart@lanl.gov (LANL), Nozomi Ando, nozomi.ando@princeton.edu (Princeton University), James S. Fraser, jfraser@fraserlab.com (University of California, San Francisco), George N. Phillips, Jr., georgep@rice.edu (Rice University)	Chemistry, Bldg. 555, Hamilton Seminar Room

### Wednesday, May 17, 2017

Workshop 5	<b>Bringing Big Science into the Classroom</b> <i>Organizer(s):</i> Aleida Perez, pereza@bnl.gov (OEP, BNL), Lisa Miller, lmiller@bnl.gov (NSLS-II, BNL), Fernando Camino, fcamino@bnl.gov (CFN, BNL).	Computer Science Initiative, Bldg. 725, Seminar Room
Workshop 6	<b>Polarized Resonant Soft X-ray Scattering at the NSLS-II</b> <i>Organizer(s):</i> Eliot Gann, eliot.gann@nist.gov (NIST), Dan Fischer, dfischer@bnl.gov (NIST), Dean DeLongchamp, dean.delongchamp@nist.gov (NIST)	Berkner Hall, Bldg. 488, Conference Room B
Workshop 7	<b>Prospects in Imaging Materials and their Dynamics by Coherent X-ray Scattering</b> <i>Organizer(s):</i> Xiaojing Huang, xjhuang@bnl.gov (NSLS-II, BNL), Claudio Mazzoli, cmazzoli@bnl.gov (NSLS-II, BNL), Garth Williams, gwilliams@bnl.gov (NSLS-II, BNL), Andi Barbour, abarbour@bnl.gov (NSLS-II, BNL), Yong Chu, ychu@bnl.gov (NSLS-II, BNL), Wen Hu, wenhu@bnl.gov (NSLS-II, BNL), Stuart Wilkins, swilkins@bnl.gov (NSLS-II, BNL)	Chemistry, Bldg. 555, Hamilton Seminar Room
Workshop 8	<b>Data Acquisition Cookbook: A Tutorial on NSLS-II's Python DAQ Software</b> <i>Organizer(s):</i> Daniel Allan, dallan@bnl.gov	Berkner Hall, Bldg. 488, Conference Room B
Workshop 9	<b>Nano-mechanics: From Material Fabrication to In-Operando Characterization</b> <i>Organizer(s):</i> Oleg Gang, ogang@bnl.gov (CFN, BNL and Columbia U.), Jeffrey Kysar, jk2079@columbia.edu (Columbia U.), Masa Fukuto, fukuto@bnl.gov (NSLS-II, BNL).	Center for Functional Nanomaterials (CFN), Bldg. 735, Large Conference Room