## Northrop Grumman/Brookhaven Lab Workshop Building Collaborations with National Labs

Day 1: Tuesday, May 4, 2021

All times are in Eastern Standard Time (EST)

Start	End	Duration	Topic	Speaker(s)
Day 1: Tuesda	y, May 4, 202	1 - Talks (1	5 min and 5 min for Q&A)	
Overview		Session Chair: Don Di Marzio, NGC		
12:30 PM EST	12:45 PM	0:15	Opening Remarks	Oleg Gang, CFN at Brookhaven Lab Don Di Marzio, NGC
12:45 PM	1:05 PM	0:20	US DOE Technologist in Residence Program	Ethan Rogers, DOE Technology Manager
1:05 PM	1:25 PM	0:20	NGSS Overview	David Steffy, NGC
1:25 PM	1:50 PM	0:25	Nanoscience at the Center for Functional Nanomaterials: a DOE Scientific User Facility	Charles Black, Director, CFN at Brookhaven Lab
1:50 PM	2:15 PM	0:25	Panel/Open Discussion Session & Break	Guest Panelist: Gabriella Carini, Director, Instrumentation at Brookhaven Lab
Optical and	Electronic I	Vanomate	Session Chair: Mircea Cotlet, BNL/CFN	
2:20 PM	2:40 PM	0:20	Ultrafast Studies of 2D Heterostructures	Mircea Cotlet, CFN at Brookhaven Lab
2:40 PM	3:00 PM	0:20	Atomic-scale Investigations of Optically-active Nanoscale Systems	Jefferey Guest, CNM at Argonne National Lab
3:00 PM	3:20 PM	0:20	Perfectly Absorbing Metasurfaces for Ultrafast Photodetection	Igal Brener, CINT at Los Alamos & Sandia National Labs
3:20 PM	3:40 PM	0:20	Advanced Quantum Emitters: Chemistry, Photophysics, Integration and Application	Jennifer Hollingsworth CINT at Los Alamos & Sandia National Labs
3:40 PM	4:00 PM	0:20	Nanoscale Engineering of High-temperature Superconductors	Ivan Bozovič, CMPMSD at Brookhaven Lab
4:00 PM	4:20 PM	0:20	Vapor-phase Infiltration for Microelectronics Applications	Chang-Yong Nam, CFN at Brookhaven Lab
4:20 PM	4:40 PM	0:20	Panel/Open Discussion Session	Guest Panelist: Elspeth McSweeney, Director, EPSD Growth Office at Brookhaven Lab

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## Day 2: Wednesday, May 5, 2021

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<b>Synthesis an</b> 12:30 PM EST  12:50 PM			s (15 min and 5 min for Q&A) nomaterials and Devices	Session Chairs: Priscilla Antunez, CFN at Brookhaven Lab
12:30 PM EST 12:50 PM	12:50 PM		omaterials and Devices	
12:50 PM		0:20		Elspeth McSweeney, EPSD at Brookhaven Lab
	1:10 PM	1	NGMS Overview	Jonathan Green, NGC
	1	0:20	Nanofab at a User Facility for Process Development	Aaron Stein, CFN at Brookhaven Lab
1:10 PM	1:30 PM	0:20	Ion Beam Implantation for Nanofabrication and Modification	Ed Bielejec, CINT at Los Alamos & Sandia National Labs
1:30 PM	1:50 PM	0:20	Towards Designed Nanoscale Fabrication via Molecularly Programmable Selfassembly	Oleg Gang, CFN at Brookhaven Lab
1:50 PM	2:10 PM	0:20	Tailoring the Optoelectronic Functionality of 2D Materials by Non-Equilibrium Synthesis and Processing	Kai Xiao, CNMS at Oak Ridge National Lab
2:10 PM	2:25 PM	0:15	Panel/Open Discussion Session & Break	Guest Panelist: Poorni Upadhya, Manager, Technology Commercialization and Strategic Partnerships at Brookhaven Lab
Advanced No	anoscale Cl	haracteriz	Session Chair: <u>Jurek Sadowski</u> , CFN at Brookhaven Lab	
2:30 PM	2:50 PM	0:20	NGAS Overview	John Spargo, NGC
2:50 PM	3:10 PM	0:20	X-ray Scattering for Materials Characterization and Discovery	Kevin Yager, CFN at Brookhaven Lab
3:10 PM	3:30 PM	0:20	Investigating Advanced Manufacturing Processes of Polymeric Materials with X-ray Scattering Techniques	Lutz Wiegart, NSLS-II at Brookhaven Lab
3:30 PM	3:50 PM	0:20	Applications of Electron Spectro-microscopy to Investigations of Chemistry and Electronic Structure of 2D Materials and Surfaces	<u>Jurek Sadowski</u> , CFN at Brookhaven Lab
3:50 PM	4:10 PM	0:20	Scanning Hard X-ray Microscopy: Toward Nanometer Resolution, Three- dimensional and Multimodal Imaging Capabilities	Hanfei Yan, NSLS-II at Brookhaven Lab
4:10 PM	4:25 PM	0:15	Panel/Open Discussion Session	Guest Panelist: Jun Wang, Industrial Liaison Officer - EPSD at Brookhaven Lab
Concluding F	Remarks &	Discussio	n	
4:30 PM	4:35 PM	0:05	Thank You Address	Oleg Gang, CFN at Brookhaven Lab
4:35 PM	4:45 PM	0:10	Concluding Remarks	Jim Misewich, Associate Laboratory Director for Energy and Photon Sciences at Brookhaven Lab
4:45 PM	5:00 PM	0:15	Open Discussion	