2016 NMD Workshop Agenda

(updated May 16, 2016)

date	#	Name	Affiliation	Title	start time	finish time	duration	location
5/22/2016 Sunday	**Sunday Dinner**				5:30 PM	8:00 PM	2:30	Thai9 (www.thai9restaurant.com)
5/23/2016 Monday	**Registration**				7:30 AM	8:15 AM	0:45	Lobby
	Welcome Remarks				8:15 AM	8:30 AM	0:15	Meyer Room
	Session 1: Nanotechnology Perspetives				**8:30 AM**	**10:00 AM**		
	1.1	Dr. Ray Baughman	University of Texas-Dallas	Sheath-Core Conducting Fibers for Weavable Superelastic Wires, Biosensors, Supercapacitors, Strain Sensors, and Artificial Muscles	8:30 AM	9:00 AM	0:30	Meyer Room
	1.2	Dr. Stephen C. Hawkins	Queen's University Belfast	Nanotubes are Not the Only Carbon	9:00 AM	9:30 AM	0:30	
	1.3	Dr. Michael Jakubinek	National Research Council Canada	Recent Advances in Boron Nitride Nanotubes: Manufacturing, Chemistry, Composites and Applications	9:30 AM	10:00 AM	0:30	
	Break				10:00 AM	10:20 AM	0:20	
	Session 2: Nanoscale Science				**10:20 AM**	**3:20 PM**		
	2.1	Dr. David Lashmore	University of New Hampshire	Conductivity Mechanisms in CNT Yarns	10:20 AM	10:50 AM	0:30	Meyer Room
	2.2	Dr. Krzysztof Koziol	University of Cambridge	Graphene: large scale manufacturing and development of multifunctional materials	10:50 AM	11:20 AM	0:30	
	2.3	Dr. Steven Keller & Dr. Amir I. Zaghloul	Army Research Laboratory	Electromagnetic Simulation and Measurement of Carbon Nanotube Thread and Sheet Antennas	11:20 AM	11:50 AM	0:30	
	Lunch				11:50 AM	1:20 PM	1:30	Dining Hall
	UDRI Tour				1:20 PM	2:50 PM	1:30	UDRI River Campus
	2.4	Dr. Benji Maruyama	Air Force Research Laboratory	Autonomous Research Systems for Carbon Nanotube Synthesis	2:50 PM	3:20 PM	0:30	Meyer Room
	Session 3: Nanoscale Based Devices				**3:20 PM**	**5:40 PM**		
	3.1	Dr. Nestor Perea	Penn State University	Advances on the creation of CNT junctions for 3D structures and virus isolation using VA-CNTs	3:20 PM	3:50 PM	0:30	Meyer Room
	3.2	Dr. Amy Marconnet	Purdue University	Nanoengineering Materials for Heat Dissipation	3:50 PM	4:20 PM	0:30	
	Break				4:20 PM	4:40 PM	0:20	
	3.3	Dr. Timothy Haugan	Air Force Research Laboratory	Development of Long Length Electrical Conductors Incorporating Nanotechnology: Carbon-Based and Superconducting	4:40 PM	5:10 PM	0:30	
	3.4	Dr. Steven B. Fairchild	Air Force Research Laboratory	Nanostructured Cathode and Anode Materials for Vacuum Electronic Devices	5:10 PM	5:40 PM	0:30	
	Networking Reception				5:40 PM	6:40 PM	1:00	Marshall Poster/Sponsor Room
	Dinner				6:40 PM	8:40 PM	2:00	Dining Hall
5/24/2016 Tuesday	**Registration**				7:30 AM	8:00 AM	0:30	Lobby
	Session 4: Nanotechnology for Energy, the Environment, and Power				**8:00 AM**	**11:20 AM**		
	4.1	Min Wang (on behalf of Dr. Liming Dai)	Case Western Reserve University	Multidimensional and Multifunctional Graphitic Carbon Nanomaterials for Energy Conversion and Storage	8:00 AM	8:30 AM	0:30	Meyer Room
	4.2	Dr. John Horwath	Air Force Research Laboratory	Nanomagnetics for Power Applications	8:30 AM	9:00 AM	0:30	
	4.3	Dr. Suguru Noda	Waseda University	Fluidized-Bed Production of Sub-Millimeter-Long Carbon Nanotubes and Their Application to Electrochemical Energy Storage Devices	9:00 AM	9:30 AM	0:30	
	Break				9:30 AM	9:50 AM	0:20	
	4.4	Dr. Fei Wei	Tsinghua University, Beijing	High-efficiency Particulate Air Filters Based on Carbon Nanotubes	9:50 AM	10:20 AM	0:30	
	4.5	Dr. Michael Meador	National Nanotechnology Coordination Office	NNI 2.0 – Future Directions and Opportunities under the National Nanotechnology Initiative	10:20 AM	10:50 AM	0:30	
	4.6	Dr. Alex K. Zettl	University of California, Berkeley	Science and Application of sp2-Bonded Nanomaterials	10:50 AM	11:20 AM	0:30	
	Session 5: Nanocomposite and Textile Materials				**11:20 AM**	**2:20 PM**		
	5.1	Dr. Jandro L. Abot	The Catholic University of America	Strain Measurement and Damage Detection Using Integrated Carbon Nanotube Yarn Sensors	11:20 AM	11:50 AM	0:30	Meyer Room
	Lunch				11:50 AM	1:20 PM	1:30	Dining Hall
	5.2	Dr. Philip Bradford	North Carolina State University	Textile and Foam Structures Enhanced by Aligned Carbon Nanotube Sheets	1:20 PM	1:50 PM	0:30	Meyer Room
	5.3	Dr. Richard Liang	Florida State University	Scale-up tests of aligned CNTs and CNT/CF hybrid composites	1:50 PM	2:20 PM	0:30	
	Session 6: Industry Overview Presentations				**2:20 PM**	**2:50 PM**		
	6.1	Robert Gaff	Yaskawa America		2:20 PM	2:25 PM	0:05	Meyer Room
	6.2	Dr. Chaminda Jayasinghe	General Nano LLC		2:25 PM	2:30 PM	0:05	
	6.3	Dr. Mark Schauer	Nanocomp Technologies, Inc.		2:30 PM	2:35 PM	0:05	
	6.4	Gerri Gore	Microlease		2:35 PM	2:40 PM	0:05	
	6.5	Steve Fulwider	Keysight Technologies		2:40 PM	2:45 PM	0:05	
	6.6	Dr. David Lashmore	Boronite		2:45 PM	2:50 PM	0:05	
	Break				2:50 PM	3:00 PM	0:10	
	Industry Tour: Yaskawa America Robotics				**3:00 PM**	**5:10 PM**		
		Travel to Yaskawa (Bus)			3:00 PM	3:20 PM	0:20	Yaskawa America Robotics (http://motoman.com/)
		Tour			3:20 PM	4:50 PM	1:30	
		Return to UDRI (Bus)			4:50 PM	5:10 PM	0:20	
	Workshop End							
5/25/2016 Wednesday	**Optional Tour at UC Nanoworld (and UC Collaborative Research Discussion)**				10:00 AM	2:00 PM	4:00	UC NanoWorld (www.min.uc.edu/nanoworldsmart)

Thank you to this year's sponsors!

YASKAWA

BORONITE
Extraordinary Materials for a Demanding World

KEYSIGHT TECHNOLOGIES

nanocomp TECHNOLOGIES, INC.

GENERAL NANO

microlease