

Multifunctional Nanoscale Materials for the 21st Century (MNM21)

Agenda

March 6, 2009 (Friday). Venue: APS Conference Center, Argonne National Laboratory

No.	Time	Speaker	Presentation
Continental Breakfast (Posters should be in their place before 8.45 am)		8:00-9:00 am	
Opening Session		9:00-9:15 am	
Chair Dr. Abhijit Sarkar		Dr. Hiroataka Sugawara, Dir., JSPS Washington DC Office Ms. Mami Oyama, Dir., International Program, JSPS Tokyo	
Opening Remarks			
Session I: Materials Chair Dr. Stephen K. Streiffer	1 9:15-9:45 am	KEYNOTE SPEAKER Dr. Eric Isaacs	Nanomaterials for Energy
	2 9:45-10:10 am	Dr. Katsuhiko Ariga	Supermolecular Materials for Functional Tasks
	3 10:10-10:35 am	Prof. Christine Luscombe	Towards Highly Ordered Films for Organic Photovoltaic Devices
Coffee Break		10:35-10:50 am	
Session II: Materials Chair Prof. Christine Luscombe	4 10:50-11:20 am	Dr. Stephen K. Streiffer	X-Ray Methods for Studying Nanomaterials
	5 11:20-11:40 am	Dr. Koichi Akahane	Fabrication of Ultrahigh Density In As quantum Dots on InP(311)B Substrates by an Accurate Strain Compensation Technique
	6 11:40-12:00 pm	Prof. Samuel D. Bader	How Will the Information Technology Revolution Be Extended?
Lunch & Poster Session		12:00-2:00 pm	
ANL Tour (Capacity 20 persons)		1:00-2:00 pm	
Session III: Nanophotonics Chair Prof. Motoichi Ohtsu	7 2:00-2:20 pm	Dr. Youichi Sakakibara	Carbon Nanotube Polymer Nanocomposite and its Nonlinear Optical Applications
	8 2:20-2:40 pm	Prof. Arup Neogi	Studying the Effects of Phonons in Semiconductor Nanostructures Using Near-Field and Ultrafast Optical Spectroscopy
	9 2:40-3:00 pm	Dr. Kiyoshi Kobayashi	Dressing Nature Inherent to Optical Near Fields at the Nanoscale
Coffee Break & Poster Session (Cont.)		3:00-3:45 pm	
Session IV: Bio Chair Prof. Haem Grebel	10 3:45-4:05 pm	Prof. Ed Van Keuren	Multifunctional Nanoparticles for Cancer Diagnosis and Treatment
	11 4:05-4:25 pm	Prof. Karol Gryczynski	Nanophotonic and Plasmonic Approach to Study Biological Processes
	12 4:25-4:45 pm	Dr. Elena Rozhkova	Bio-Nano Interfacing for Biomedical Applications
ANL Tour (Capacity 20 persons)		5:00-6:00 pm	
US-JSPS Alumni Association Annual General meeting		5:00-7:00 pm	
Conference Banquet		7:00-9:00 pm	
Banquet Remarks Speaker		8:00-8:15 pm	
		REMARKS SPEAKER: Mr. Yoshiharu Kato, Deputy Consul General, Japanese consulate office, Chicago	

March 7, 2009 (Saturday). Venue: APS Conference Center, Argonne National Laboratory

No.	Time	Speaker	Presentation
Continental Breakfast		8:30-9:00 am	
Session V: Nanophotonics Chair Prof. Arup Neogi	13 9:00-9:30 am	PLENARY SPEAKER Prof. Motoichi Ohtsu	Nanophotonics: Exchanging the Dressed Photons
	14 9:30-9:50 am	Prof. Takashi Yatsui	Nanophotonic Fabrication and Operation
	15 9:50-10:10 am	Prof. Tadashi Kawazoe	Essences of an Optical Near Field and its Applications to Nanophotonic Devices and Fabrications
Coffee Break		10:10-10:25 am	
Session VI: General Chair Prof. Kazushi Kinbara	16 10:25-10:55 am	Prof. Samuel I. Stupp	Hierarchical Self-Assembly of Materials
	17 10:55-11:15 am	Prof. Jayan Thomas	NIMP: A New Nanoimprinting Technique for Nanophotonic Device Fabrication
	18 11:15-11:35 am	Prof. Petar Dvornic	Dendritic Polymers-Based "Soft" Nanotechnology
	19 11:35-11:55 am	Prof. T. Onodera	Recent Progress in Hybridized Nanoparticles and Their Ordered Structure for Optical Devices
Lunch		11:55-1:00 pm	
Session VII: Bio Chair Prof. Petar Dvornic	20 1:00-1:25 pm	Prof. Kazushi Kinbara	Development of Bioinspired Molecular Machines
	21 1:25-1:45 pm	Prof. Haim Grebel	Nano-Structured Materials for Electro-Optics and Biological Applications
	22 1:45-2:00 pm	Ms Yasuko Osakada	Charge Transfer in DNA and Photosensitized Oxidative DNA Damage
	23 2:00-2:20 pm	Prof. Arkadii Krokhin	Statistical Correlations Electron Localization in DNA Molecules
Coffee Break		2:20-2:35 pm	
Session VIII: General Chair Prof. Takashi Yatsui	24 2:35-2:55 pm	Dr. Makoto Naruse	System Architecture for Nanophotonics
	25 2:55-3:15 pm	Dr. Abhijit Sarkar	Carbon Nanotubes-Polymer Nanocomposites for Photonics Applications
	26 3:15-3:35 pm	Dr. Shinobu Ohya	III-V-Based Ferromagnetic Semiconductor and Magnetic Heterostructures
	27 3:35-3:55 pm	Dr. Hiroaki Matsui	Functionalities and Prospects of Oxide Quantum Wells Controlled at the Nano-Scale
Closing Remarks		3:55-4:00 pm	
		Prof. Arup Neogi, Chairman, JSPS US Alumni Association	