

2015 CINT Users Meeting

La Fonda Hotel, Santa Fe, NM
September 21-22

sponsored in part by  **COHERENT**  **SIGMA-ALDRICH**

Monday Morning, September 21

7:30 am	User Meeting Registration Desk opens Continental Breakfast Available	Mezzanine Ballroom North
9:00 am	Plenary Session Ballroom South <i>Moderator: Quansxi Jia</i>	
	Welcome, Introductions and CINT Update Neal Shinn, CINT Director	
9:20 am	Ian Robertson <i>University of Wisconsin-Madison</i> Dynamic Studies of Dislocation Behavior in Metal System	
10:00 am	Break	
10:20 am	Carlo Montemagno <i>University of Alberta</i> Engineering Living Materials Thru the Precision Assembly of Biologically Functional Abiotic/Biotic Materials	
11:00 am	Claus Ropers <i>University of Göttingen</i> Ultrafast Electron Microscopy and Diffraction Using Nanoscale Photoemitters	
11:40 am	Buffet Lunch Informal poster viewing	Ballroom North Mezzanine

Monday Afternoon, September 21

Symposia	Hybrid Photonic Materials Interactions for Integration and Novel Response <i>South Ballroom</i>	Real-time imaging of controlled nanoscale phenomena using S/TEM <i>New Mexico Room (1st floor)</i>	Nanomotors & Molecular Machines: Understanding and Controlling the Catalytic Transport of Matter - Siba Rm
	<i>Moderators: Steve Doorn & Han Htoon</i>	<i>Moderators: Katie Jungjohann & Nate Mara</i>	<i>Moderators: George Bachand & Wally Paxton</i>
1:00 pm	Elaine Li <i>University of Texas</i> Novel Optical Properties of a Few Coupled Nanoparticles	Brad Boyce <i>Sandia National Laboratories</i> Detecting the Onset of Fatigue Damage in Nanocrystalline Metals	Henry Hess <i>Columbia University</i> Engineering with Biomolecular Motors
1:30 pm	William Tisdale <i>Massachusetts Institute of Technology</i> Exciton Dynamics in Quantum Dot Films and Interfaces	Nan Li <i>Los Alamos National Laboratory</i> Exploring Deformation Mechanism in TiN through High-resolution In Situ TEM	Alex Levine <i>University of California, Los Angeles</i> Photophysics of carbon nanotubes and layered semiconductors
2:00 pm	Mathew Maye <i>Syracuse University</i> Using Semiconductive Quantum Rods as Energy Acceptors in Bioluminescence Resonance Energy Transfer	Juri Wehrs <i>EMPA – Swiss Federal Laboratories for Materials Science and Technology</i> Variable temperature time dependent plasticity of nanocrystalline Nickel thin films determined using microcompression	Wei Gao <i>University of California, Berkeley</i> Artificial Nanomachines and their Biomedical Applications
2:30 pm	Chris Murray <i>University of Pennsylvania</i> Colloidal self-assembly of nanocrystal superlattices for hybrid photonics and electronics	Eray Aydil <i>University of Minnesota</i> Thin film Solar Cells Based on the Earth Abundant Solar Absorber $\text{Cu}_2\text{ZnSn}(\text{S}_x\text{Se}_{1-x})_4$ From Colloidal Nanocrystal Dispersions	Adrienne Greene <i>Sandia National Laboratories</i> Characterization and Functionalization of Microtubules for Use in Materials Applications
3:00 pm	Break	Break	Break
3:30 pm	Nicolas Izard <i>University of Montpellier</i> s-SWNT Integration into Active Photonic Devices	Kevin Zavadil <i>Sandia National Laboratories</i> Exploring Metal Electrodeposition for Energy Storage Applications using Electrochemical Transmission Electron Microscopy	Zev Bryant <i>Stanford University</i> Engineering controllable biomolecular motors
4:00 pm	Han Htoon <i>CINT</i> Doped Carbon Nanotubes: New Building Blocks for Quantum Information Technologies	Katerina Aifantis <i>University of Arizona</i> TEM and SEM Examination of Deformation and Fracture in Si and Sn Based Nanostructured Anodes	Arne Gennerich <i>Albert Einstein College of Medicine</i> Dynein Motion and Force Generation Studied by Optical Trapping Nanometry
4:30 pm	Yuichiro Kato <i>University of Tokyo</i> Single-Carbon-Nanotube Photonics and Optoelectronics	Jane Chang <i>University of California, Los Angeles</i> In-situ characterization of ultra-thin solid electrolyte for 3-D microbattery applications	
5:00 pm	Poster Session (Mezzanine)		
7:00 pm	End of session, please enjoy dinner on your own		

Tuesday, September 22

7:30 am	Registration Desk Open Breakfast		Mezzanine Ballroom North
	Users Executive Committee Panel Discussion (All welcome): CINT Strategic Planning Don Lucca , <i>Chair, Users Executive Committee</i> Neal Shinn , <i>CINT Director</i> Quanxi Jia , <i>CINT Co-Director</i>		Ballroom North
8:30 am	Hybrid Photonic Materials Interactions for Integration and Novel Response <i>South Ballroom</i>	Real-time imaging of controlled nanoscale phenomena using S/TEM <i>New Mexico Room (1st floor)</i>	Nanomotors & Molecular Machines: Understanding and Controlling the Catalytic Transport of Matter - Stiba Rm
	Jean-Sebastien Lauret <i>ENS de Cachan</i> 2D and 1D Excitons in Cavities		
9:00 am	Alexander Hoge <i>LMU Munich</i> Photophysics of Carbon Nanotubes and Layered Semiconductors	Barry Carter <i>University of Connecticut</i> Thoughts on Operando TEM	Peter Goodwin <i>CINT</i> Cellobiohydrolase Binding on Cellulose Observed by Time-Resolved, Super-Resolution Single Molecule Imaging
9:30 am	Tony Heinz <i>Stanford University</i> Optical properties of atomically thin semiconductors layers and heterostructures	Dave Mitlin <i>Clarkson University</i> Coupling in-situ TEM and ex-situ analysis to understand heterogeneous sodiation of antimony	Virginia Vandelinder <i>Sandia National Laboratories</i> Understanding initiation mechanisms and controlling properties of microtubule spools
10:00 am	Break	Break	Break
10:30 am	Nick Vamivakas <i>University of Rochester</i> Nanophotonics with Atomically Thin Semiconductors	Narayanan Ravishankar <i>Indian Institute of Science, Bangalore</i> Insights into Nucleation and Growth of Nanostructures Using In-Situ Electron Microscopy	Igor Aronson <i>Argonne National Laboratory</i> Individual and Collective Behavior of Microswimmers in Liquid Crystals
11:00 am	Xiaodong Xu <i>University of Washington</i> Excitons in 2D Semiconductors and Heterostructures	Angela Rudolph <i>University of Washington</i> Drying Effect Creates False Assemblies in DNA-Coated Gold Nanoparticles as Determined Through In-Situ Liquid Cell STEM	Suzanne Ahmed <i>Pennsylvania State</i> Acoustically Propelled Nanomotors
11:30 am	Aditya Mohite <i>Los Alamos National Laboratory</i> Phase Engineering of Transition Metal Di-Chalcogenides for Optoelectronic Applications	Ilke Arslan <i>Pacific Northwest National Laboratory</i> 3-D and In-situ Characterization of Nanomaterials in the Scanning Transmission Electron Microscope	Concluding Remarks by Symposium Organizers ***End of Symposium***
12:00 pm	Concluding Remarks by Symposium Organizers ***End of Symposium***	Concluding Remarks by Symposium Organizers ***End of Symposium***	
12:15 pm	Lunch ** End of Users Meeting **		