

2008 Accepted CINT User Proposals

In-situ TEM on deformation process of metallic nanowires, Scott X. Mao, University of Pittsburgh;
CINT Scientist(s): Jianyu Huang

Terahertz Quantum Cascade Lasers for Security and Military Applications, Qing Hu,
Massachusetts Institute of Technology; CINT Scientist(s): John Reno

Protein Engineering and Membrane Assembly: Membrane Protein Structure and Fundamental
Motions, James Brozik, Washington State University; CINT Scientist(s): George Bachand

Compliant Electronic Materials: Transport in Carbon Nanotube (CNT) Polymer Nanocomposites,
Richard Vaia, Air Force Research Laboratory; CINT Scientist(s): Julia Hsu

Electromagnetic Response of Broken-Symmetry Nano-Scale Clusters, Stephan Haas, University of
Southern California; CINT Scientist(s): Alexander Balatsky

Tunneling Transport and Strain Relaxation in SiGe and Ge Nanowires, Alex Zaslavsky, Brown
University; CINT Scientist(s): Tom Picraux

Optical Components Using Left-Handed Plasmonic Waveguides, Amr Helmy, University of
Toronto; CINT Scientist(s): Rohit Prasankumar

Directed Sequential Assembly of DNA Nanostructures, Michael Norton, Marshall University; CINT
Scientist(s): Aaron Gin

Doped SiGe Nanowires for Functional Nanodevices, Stephen Goodnick, Arizona State University;
CINT Scientist(s): Tom Picraux

Ultrafast Dynamics in Pentacene Single Crystals and Films, Verner Thorsmolle, Ecole
Polytechnique Federal de Lausanne; CINT Scientist(s): Sergei Tretiak

Synthesis and Mechanical Behavior of Metallic Thin Films with Nanoscale Growth Twins,
Xinghang Zhang, Texas A&M University; CINT Scientist(s): Amit Misra

Investigating Telomere Structure and Function by Atomic Force Microscopy and Fluorescence
Microscopy, Edwin Goodwin, KromaTiD Inc.; CINT Scientist(s): Peter Goodwin

Ionic Liquid-Embedded Nanocomposite Luminescent Sensors, Gary Baker, Oak Ridge National
Laboratory; CINT Scientist(s): Andrew Dattelbaum

Supramolecular nanophotonics: a concerted experimental and theoretical approach, Mireille
Blanchard-Desce, CNRS (Centre National de la Recherche Scientif); CINT Scientist(s): Sergei
Tretiak

Strain Engineered Nanowire Heterostructures, Jeff Drucker, Arizona State University; CINT
Scientist(s): Tom Picraux

Novel Low-Voltage Electromechanical Resonators, Daniel Sheehan, University of San Diego;
CINT Scientist(s): John Sullivan

Fundamental Studies of the Electromechanical Behavior of a NEMS Two-State Switch, Horacio Espinosa, Northwestern University; CINT Scientist(s): John Sullivan

Spin-Dependent Transport & Many-Body Interactions in Coupled Quantum Wires, Jonathan Bird, University of Buffalo, The State University of New York; CINT Scientist(s): John Reno

Nanoscale ordering in heavy electrons probed by ultrafast optics, Jure Demsar, University of Konstanz; CINT Scientist(s): Toni Taylor

Engineering Thermostable Motor Proteins for Nanotechnology Applications, Andrew Boal, Sandia National Laboratories - New Mexico; CINT Scientist(s): George Bachand

Modeling of Elasto-Mechanical Phenomena Involved in the Motor-Driven Assembly of Nanomaterials, Alan Barhorst, Texas Tech University; CINT Scientist(s): George Bachand

Role of Layer-Interfaces and Grain Boundaries on the Properties of Nano-structured Nitride Thin Films, Haiyan Wang, Texas A&M University; CINT Scientist(s): Greg Swadener

Photophysics of Luminescence Sensors at the Nanolevel, James Demas, University of Virginia;
CINT Scientist(s): Jim Werner

Terahertz Imaging of $(V_{1-x}Cr_x)_2O_3$, Douglas Pease, University of Connecticut; CINT Scientist(s):
Toni Taylor

Measuring single electrons on the surface of liquid helium, Stephen Lyon, Princeton University;
CINT Scientist(s): Michael Lilly

Nanomechanics of TiO₂ Nanotubes on a Titanium Substrate, Nik Chawla, Arizona State University;
CINT Scientist(s): Jack Houston

Ultra-efficient energy transfer in single polymeric light-harvesting complexes, John Lupton, University of Utah; CINT Scientist(s): Sergei Tretiak

Theory and Simulation, Nano-bio-micro Interfaces, Monica Olvera de la Cruz, Northwestern University; CINT Scientist(s): Mark Stevens

Shape-Controlled Type-II Quantum Dots Synthesized By Crystalline Face-Recognition Peptides, Hiroshi Matsui, Hunter College; CINT Scientist(s): Jennifer Martinez

Non-Linear IV Characterization of Epitaxially Aligned GaN Nanowires through Nanomanipulation, Tania Henry, Yale University; CINT Scientist(s): Brian Swartzentruber

Application of the Nanoparticle Synthesis Discovery Platform to magnetic nanoparticle synthesis, J. Ping Liu, University of Texas at Arlington; CINT Scientist(s): Igal Brener

Biological effects of IR-active nanostructured materials on cultured human cells, Elba Serrano, New Mexico State University; CINT Scientist(s): Jennifer Hollingsworth

Combined optical and transport study of single semiconductor nanowire field effect transistors, Hongbin Yu, Arizona State University; CINT Scientist(s): Han Htoon

Optical and Terahertz Characterization of Epitaxially-grown Semimetal/Semiconductor Nanocomposites (renewal), Joshua Zide, University of Delaware; CINT Scientist(s): Toni Taylor

Directed Growth of Si-alloy Nanostructures on Amorphous Surfaces, John Ekerdt, University of Texas at Austin; CINT Scientist(s): Aaron Gin

Quantum Confinement and Strain Effects in Photonic Nanocrystals, Don Lucca, Oklahoma State University; CINT Scientist(s): Michael Nastasi

Dynamics of excitons and polarons in low dimensional and mesoscopic devices, Holger Fehske, Ernst-Moritz-Arndt Universitaet Greifswald; CINT Scientist(s): Stuart Trugman

NiTi-TiC Nano-Layers: Investigating Shape-Memory Behavior at Reduced Length Scales, Raj Vaidyanathan, University of Central Florida; CINT Scientist(s): Amit Misra

Formation of Nanodomains on Compound Semiconductor Surfaces, Joanna Millunchick, University of Michigan; CINT Scientist(s): Normand Modine

Design and Engineering of Optical Nano-Materials Based on Organic Branched Structures, Vladimir Chernyak, Wayne State University; CINT Scientist(s): Sergei Tretiak

Supramolecular Photosynthetic Membrane Protein Organization, Robert Blankenship, Washington University; CINT Scientist(s): Gabriel Montano

Growth and Decay Epitaxial Silver Nanowires on Cu(110) and Ni(110), Phillip Sprunger, Louisiana State University; CINT Scientist(s): Gary Kellogg

Time Resolved Optical Spectroscopy (In)GaAs/(Al)GaAs Quantum Dots-in-a-Well Structures, Greg Jolley, Australian National University; CINT Scientist(s): Rohit Prasankumar

Investigating luminescence mechanism of Er-doped SiN_x film containing a Si nanocrystal for light sources, Jung-Kun Lee, University of Pittsburgh; CINT Scientist(s): Michael Nastasi

Interfacial Effects of Nanometer Fluorinated Segments on Energy Controlled Responsive Polymeric Films, Dvora Perahia, Clemson University; CINT Scientist(s): Gary Grest

Matrix-Seeded Growth of Nitride Semiconductor Nanostructures, Rachel Goldman, University of Michigan; CINT Scientist(s): Michael Nastasi

Micron-Scale Pillars to Study Mechanical Strength and Internal Deformation in Nanoscale Metallic Multilayer Thin Films, Peter Anderson, Ohio State University; CINT Scientist(s): Amit Misra

Renewal Proposal: Size, Shape, and Well Depth Dependence of Zero-Mode Waveguides as Solid Supports for Lipid Bilayer Films, James Brozik, Washington State University; CINT Scientist(s): Peter Goodwin

Density functional theory for the many-body interaction between nanoparticles in complex fluids, Arun Yethiraj, University of Wisconsin-Madison; CINT Scientist(s): Amalie Frischknecht

Incorporation of Semiconductor Nanocrystals into Photoconductive and Photorefractive Polymeric Composites for Purposes of Photosensitization, Jeffrey Winiarz, University of Missouri-Rolla; CINT Scientist(s): Dale Huber

Phase II of Experimental Investigations of Lumped Nanocircuit Elements at Optical Frequencies, Nader Engheta, University of Pennsylvania; CINT Scientist(s): Rohit Prasankumar

Bionanofabrication of Semiconducting Nanowires via S-layer Protein/Nanoparticle Templates, Carl Batt, Cornell University; CINT Scientist(s): Tom Picraux

Effects of aggregation on the properties of oligomers used for organic LEDs, Linda Peteanu, Carnegie Mellon University; CINT Scientist(s): Andrew Shreve

Metallic Microarrays on Silicon Thin Films for Assay of Self-Assembled Nanocoatings with Surface-Plasmon-Enhanced IR Absorption Spectroscopy, James Coe, Ohio State University; CINT Scientist(s): Dale Huber

Force and fluorescence spectroscopy of single protein molecules, Mircea Cotlet, Brookhaven National Laboratory; CINT Scientist(s): Peter Goodwin

Tensile stress evolution in electrodeposited, polycrystalline films, Brian Sheldon, Brown University; CINT Scientist(s): Sean Hearne

Carrier Dynamics in Type-II InAs/GaSb Nanoscale Superlattice Sensors, Sanjay Krishna, University of New Mexico; CINT Scientist(s): Toni Taylor

Characterization of Superparamagnetic Nanoparticles for Biomagnetic Imaging: U2006A004, Edward Flynn, Senior Scientific; CINT Scientist(s): Dale Huber

Nanoscale Texturing in Ferromagnetic Superconductors, Jose Matutes Aquino, Advanced Materials Research Center; CINT Scientist(s): Toni Taylor

Understanding Carrier Dynamics in a Novel Nanoscale System: Quantum Dots in a Well (DWELL) Heterostructure, Sanjay Krishna, University of New Mexico; CINT Scientist(s): Rohit Prasankumar

Nanocluster Hybrid Photovoltaics, Erik Spoerke, Sandia National Laboratories - New Mexico; CINT Scientist(s): Jennifer Martinez

Understanding structure-thermal property relationships in individual single-wall carbon nanotubes, Li Shi, University of Texas at Austin; CINT Scientist(s): Jianyu Huang

Development of Multiple AFM Cantilevers for Tip-based Nanoassembly, Robert Westervelt, Harvard University; CINT Scientist(s): John Sullivan

Coherent Cyclotron Resonance Spectroscopy of Semiconductor Nanostructures, Junichiro Kono, Rice University; CINT Scientist(s): John Reno

Improvement of NEMS/MEMS Performance by Structural Vibrations, Zayd Leseman, University of New Mexico; CINT Scientist(s): John Sullivan

Electronic Differentiation of DNA and Organic/Inorganic Hybrid Nanostructures, Hiroyuki Tanaka, Osaka University; CINT Scientist(s): Alexander Balatsky

In-situ Investigation of Size Dependent Mechanical, Electrical and Thermal Properties of Metallic Nanowires, Jun Lou, Rice University; CINT Scientist(s): Jianyu Huang

Ultrafast Excited State Relaxation and Electron Transfer in Molecular Assemblies, Dana Dattelbaum, Los Alamos National Laboratory; CINT Scientist(s): Rohit Prasankumar

Development of nanostructured superior-strength alloys by ion irradiation of composition engineered metallic glasses, Lin Shao, Texas A&M University; CINT Scientist(s): Michael Nastasi

Characterization of Dispersed and Single Metallic Nanoparticles, Cynthia Zoski, New Mexico State University; CINT Scientist(s): Gabriel Montano

In situ Investigation of Resistance Switching in Transition Metal Oxide Nanowires, Junqiao Wu, University of California – Berkeley; CINT Scientist(s): Albert Talin

Ultrafast pulse propagation studies in specially designed photonic crystal fibers, Balakishore Yellampalle, Luna Innovations Inc.; CINT Scientist(s): Anatoly Efimov

Dynamic study of nanowires in the strong excitation regime for fabricating grating-coupled nanowires, Tsinghua Her, University of North Carolina at Charlotte; CINT Scientist(s): Rohit Prasankumar

Optically Pumped Quantum Dot Fibre Laser, Helmut Yu, University of Sydney; CINT Scientist(s): Anatoly Efimov

Phonon Interactions in Carbon Nanotube Electronic Devices, Stephen Doorn, Los Alamos National Laboratory; CINT Scientist(s): Han Htoon

Effects of Nanoparticles on Polymer Film Dewetting, Michael Mackay, Michigan State University; CINT Scientist(s): Amalie Frischknecht

Spectroscopic investigation of carrier-mediated ferromagnetism in Mn-doped III-V semiconductors: broad band micro-ellipsometry, Dimitri Basov, University of California - San Diego; CINT Scientist(s): Andrew Dattelbaum

VLS-Growth of Hetero-Epitaxial Si Nanowire Arrays, Platelets, and Films, Alp Findikoglu, Los Alamos National Laboratory; CINT Scientist(s): Tom Picraux

Atomic Force Microscopy Study of Surface Roughness of Poly(ethylene glycol) diglycidyl ether Grafted Reverse Osmosis Membranes, Elizabeth Van Wagner, University of Texas at Austin; CINT Scientist(s): Gabriel Montano

Energy Transfer Mechanisms in Mn-doped ZnS Nanoparticles, Tze Chien Sum, Nanyang Technological University; CINT Scientist(s): Toni Taylor

In Situ Nanomechanical Testing of Metallic Nanowires Using the CINT Discovery Platform, Cynthia Volkert, Forschungszentrum Karlsruhe; CINT Scientist(s): John Sullivan

Integrating Redox-Wired Nanoparticles into Nanoporous Anodic Aluminum Oxide, Juchao Yan, Eastern New Mexico University; CINT Scientist(s): Gabriel Montano

Characterization of the Frequency Response for Photomixing in Laser-Assisted Scanning Tunneling Microscopy, Mark Hagmann, NewPath Research L.L.C.; CINT Scientist(s): Toni Taylor

CINT User Project: Size Effects of Nanoindentation on ZnO Thin Films, Xi Chen, Columbia University; CINT Scientist(s): Greg Swadener

Graphene-based nanodevices: from material properties to applications, Nikolai Kalugin, New Mexico Institute of Mining and Technology; CINT Scientist(s): Aaron Gin

Probing the 3D nano-environment of live cells molecule by molecule, Diane Lidke, University of New Mexico; CINT Scientist(s): Jim Werner

The nanomechanics of irradiated materials, Peter Hosemann, Los Alamos National Laboratory; CINT Scientist(s): Greg Swadener

Nanoscale Quantum Dot Infrared Photodetectors with Photon Controlling Cavities, Rajeev Shenoi, University of New Mexico, Center for High Technology Materials; CINT Scientist(s): Aaron Gin

Homogenous low-loss Negative Index Metamaterials in the THz frequency range, Alkim Akyurtlu, University of Massachusetts – Lowell; CINT Scientist(s): Quanxi Jia

Investigating Fundamentals of Superparamagnetic Nanoparticles as Nanosensors, Catherine Clewett, Fort Hays State University; CINT Scientist(s): Dale Huber

Mechanical Properties of Nanocrystalline Substructures in Regions of Shear Localization, Amy Ross, Los Alamos National Laboratory; CINT Scientist(s): Greg Swadener

Request for cantilever array discovery platform, Walter Gerstle, University of New Mexico; CINT Scientist(s): John Sullivan

Dynamics of localized excitations in quasi-one-dimensional systems, Susan Dexheimer, Washington State University; CINT Scientist(s): Stuart Trugman

Characterization and Device Integration of Vertical GaN Nanorods, Steve Hersee, University of New Mexico, Center for High Technology Materials; CINT Scientist(s): Albert Talin

Agile Plasmon Filters, Nina Weisse-Bernstein, University of New Mexico, Center for High Technology Materials; CINT Scientist(s): Aaron Gin

Multiexciton dynamics and binding energies in type-II semiconductor nanocrystals, Marc Achermann, University of Massachusetts – Amherst; CINT Scientist(s): Victor Klimov

Visualization Applied to Complex Superconducting Materials, Matthias Graf, Los Alamos National Laboratory; CINT Scientist(s): Alexander Balatsky

Developing new techniques for the investigation of emergent behavior on the nanoscale: TeraHertz Time Domain Spectroscopy, Kenneth Burch, Los Alamos National Laboratory; CINT Scientist(s): Toni Taylor

Quantum optics with single photons from colloidal nanocrystals in solution, Anton Malko, University of Texas at Dallas; CINT Scientist(s): Victor Klimov

How Structural Complexity Controls Emergent Properties of Nanoscale Excitons, Gregory Scholes, University of Toronto; CINT Scientist(s): Sergei Tretiak

Nanoindentation on irradiated materials, Stuart Malo, Los Alamos National Laboratory; CINT Scientist(s): Greg Swadener

Quantum confinement effects in PbSe and PbS nanowires in relation to their optical spectra, Valery Rupasov, ANTEOS, Inc.; CINT Scientist(s): Victor Klimov

Silica-Phospholipid Membrane Nanocomposites: Synthesis and Characterization of Robust Biological Transport Systems, Gabriel Lopez, University of New Mexico; CINT Scientist(s): Andrew Shreve

An Integrated Experimental/Theoretical Approach for Understanding and Controlling Electronic Communication in Nanoscale Molecular Assemblies, Deborah Evans, University of New Mexico; CINT Scientist(s): Andrew Shreve

Molecular Transport Junctions, Michael Galperin, Los Alamos National Laboratory; CINT Scientist(s): Stuart Trugman

Integration of nanophotonic structures with high Q microcavities, C. Jeffery Brinker, University of New Mexico; CINT Scientist(s): Luk, S. Ting “Willie”

Effects of phonon inelastic scattering in grapheme, Ilya Grigorenko, Los Alamos National Laboratory; CINT Scientist(s): Alexander Balatsky

Probing Nanowires and Carbon Nanotubes at the Nanoscale with Ballistic Electrons, Karen Kavanagh, Simon Fraser University; CINT Scientist(s): Albert Talin

Spin Manipulation in Semiconductor Nanostructures, Stephen Goodnick, Arizona State University; CINT Scientist(s): Michael Lilly

Nanostructured Thin Films for Atomic Plane Electrical Contacts, Don Lucca, Oklahoma State University; CINT Scientist(s): Michael Nastasi

Design of a Discovery Platform for Thermoelectric Property Measurements of Individual Nanostructures, Tom Harris, Massachusetts Institute of Technology; CINT Scientist(s): Jianyu Huang

Fabrication of a Optical Vortex Lens, Grover Swartzlander, University of Arizona; CINT Scientist(s): Aaron Gin

Microcavity and Waveguide Devices in 3D Photonic Crystals with High Unit Cell Number Fabricated Via Direct-Ink Writing, Paul Braun, University of Illinois at Urbana-Champaign; CINT Scientist(s): Aaron Gin

Sequence Dependent Fluorescence from DNA-Encapsulated Silver Nanoclusters, Jeff Petty, Furman University; CINT Scientist(s): Peter Goodwin

Development of a Multi-scale Paradigm for Modeling the Electronic Structure of Nanowires and Other Nanostructures, Michael Stopa, Harvard University; CINT Scientist(s): Normand Modine

Post-Synthesis Assembly of In₂O₃ NWs for Small-Molecule Gas-Sensing Applications: Device Fabrication and Testing, Sohee Jeong, Korea Institute of Machinery and Materials; CINT Scientist(s): Jennifer Hollingsworth

4.7 THz Local Oscillator Development for Airborne Astronomical Observations, Michael Wanke, Sandia National Laboratories – New Mexico; CINT Scientist(s): John Reno

Ultrafast Electron and Hole Dynamics in Aligned Germanium Nanowires, Ken Ahn, New Jersey Institute of Technology; CINT Scientist(s): Stuart Trugman

Investigation of Structural, Electronic and Optical Properties of Er-doped Y₂O₃ Nanotubes and Nanoparticles by HRTEM, EELS and the Nanowire Characterization Platform, Jane Change, University of California – Los Angeles; CINT Scientist(s): Albert Talin

Sensitization of Lanthanide Ion Fluorescence Using Nanocrystal Quantum Dots, Javier Vela-Becerra, Los Alamos National Laboratory; CINT Scientist(s): Jennifer Hollingsworth

Method for Self-Assembling Nanowire Surface Patterns, Daniel Sheehan, University of San Diego; CINT Scientist(s): Jennifer Hollingsworth

Visualization Applied to Molecular Scintillator Design, Richard Martin, Los Alamos National Laboratory; CINT Scientist(s): Alexander Balatsky

Study on the Photochemical Activity of Nanoscale Heterogeneous Quantum Dots/TiO₂ Thin Films, Jung-Kun Lee, University of Pittsburgh; CINT Scientist(s): Michael Nastasi

Molecular basis for protein nanomechanics, Jan Hoh, Johns Hopkins University; CINT Scientist(s): Mark Stevens

Multiexciton Generation via Carrier Multiplication in Germanium Nanocrystals, Uwe Kortshagen, University of Minnesota; CINT Scientist(s): Victor Klimov

Determining the mechanisms of plastic deformation of metallic nanofoams by atomistic simulations, Michael Demkowicz, Los Alamos National Laboratory; CINT Scientist(s): Amit Misra

Surface-enhanced nonlinear Raman spectroscopy of chiral molecules in solution, Vladislav Yakovlev, University of Wisconsin - Milwaukee; CINT Scientist(s): Igal Brener

Complex nanoscale phenomena in doped manganites, Sang Wook Cheong, Rutgers University; CINT Scientist(s): Toni Taylor

Fast events in protein folding: resonance Raman microspectroscopy in microfluidic mixers, Vladislav Yakovlev, University of Wisconsin - Milwaukee; CINT Scientist(s): Igal Brener

Diamond nanoligaments: Achieving monocrystalline performance from polycrystalline material, Dean Aslam, Michigan State University; CINT Scientist(s): John Sullivan

Theoretical Analysis of Extremely Lattice Mismatched Epitaxy, Diana Huffaker, University of New Mexico; CINT Scientist(s): Normand Modine

Quantum Dot Distributed Feedback Laser, Luke Lester, University of New Mexico; CINT Scientist(s): Aaron Gin

Scanning gate microscopy of super pointer states in coupled quantum dot arrays, Stephen Goodnick, Arizona State University; CINT Scientist(s): John Reno

Tracking Carrier Dynamics in Nitride-Based Nanowires, George Wang, Sandia National Laboratories – New Mexico; CINT Scientist(s): Rohit Prasankumar

Nano-structural characterization of heavy-fermion thin films, Vladimir Matias, Los Alamos National Laboratory; CINT Scientist(s): Toni Taylor

Biological Effects of Engineered Fullerenes, Chang Zhong, Los Alamos National Laboratory; CINT Scientist(s): Jennifer Martinez

Biological templating of fluorescent gold nanoclusters, Yuping Bao, Los Alamos National Laboratory; CINT Scientist(s): Jennifer Martinez

Optical spectroscopy of III-V nanowires and their heterostructures, Jeff Cederberg, Sandia National Laboratories – New Mexico; CINT Scientist(s): Han Htoon

Study of the phase transformations of NiTi at the nanometer scale using the atomic force microscope (AFM) moiré method, Helena Jin, Sandia National Laboratories – California; CINT Scientist(s): John Sullivan

TEM Studies of Self-Assembled Porphyrin Nanostructures, Craig Medforth, University of New Mexico; CINT Scientist(s): Jianyu Huang

Modeling Nanostructured Materials Networks for Energy Conversion and Computation, Jessika Trancik, Santa Fe Institute; CINT Scientist(s): Alexander Balatsky

TEM measurement on onion structure of composite multiferroic nanowires, Nian Sun, Northeastern University; CINT Scientist(s): Jianyu Huang

Isotope effect on superconductivity in Josephson coupled stripes in underdoped cuprates, Anders Rosengren, Royal Institute of Technology (KTH); CINT Scientist(s): Alexander Balatsky

Ultrafast Spectroscopy of Metal Insulator Transition under High Pressure, David Hilton, University of Alabama - Birmingham; CINT Scientist(s): Toni Taylor

Nanotechnology for the Dispersion Engineering in Waveguide Nonlinear Devices, Daniel Kane, Mesa Photonics, LLC; CINT Scientist(s): Anatoly Efimov

Rapid detection of ciprofloxacin and doxycycline resistant and susceptible strains of Bacillus anthracis, Yersinia pestis and Francisella tularensis, Momchilo Vuyisich, Los Alamos National Laboratory; CINT Scientist(s): Jennifer Hollingsworth

High repetition rate transient absorption measurements of multiple exciton formation in semiconductor nanocrystals, Richard Schaller, Los Alamos National Laboratory; CINT Scientist(s): Victor Klimov

Studies of the Degenerate Hole Gas at the Surface of Diamond using Magnetic Resonance Force Microscopy, Bradford Pate, Naval Research Laboratory; CINT Scientist(s): Roman Movshovich

Quantum Invisibility in Nanoassembled Structures, Jonas Fransson, Uppsala University; CINT Scientist(s): Alexander Balatsky

Dip pen nanolithography of metal and semiconductor nanoparticles for IR antenna, electrochemical, and logic applications, Paul Clem, Sandia National Laboratories – New Mexico; CINT Scientist(s): Julia Hsu

Surface Manipulation and Analysis of Atomic Layer Deposited Thin Films, Robert Grubbs, Sandia National Laboratories – New Mexico; CINT Scientist(s): Aaron Gin

Fabrication of nanowires attached to AFM cantilevers, Patricia McGuiggan, John Hopkins University; CINT Scientist(s): Brian Swartzentruber

Morphology and Composition of Gamma-Ray Glass Scintillators, Markus Hehlen, Los Alamos National Laboratory; CINT Scientist(s): Toni Taylor

Genetic Engineering and Purification of Chaperonin Proteins, Basil Swanson, Los Alamos National Laboratory; CINT Scientist(s): Jennifer Martinez

Scanned probe patterning of Bi and In catalyst particles for directed organization of CdSe nanowires, Jim De Yoreo, Lawrence Berkeley National Laboratory; CINT Scientist(s): Jennifer Hollingsworth

Untangling the roles of aggregates in conjugated polyelectrolyte with pH-dependent optical properties, Hsing-Lin Wang, Los Alamos National Laboratory; CINT Scientist(s): Jennifer Martinez

Characterization of Observed Surface Alterations Resulting from Ultrasonic Stimuli and Particle Attachment and Detachment Processes, Amr Abdel-Fattah, Los Alamos National Laboratory; CINT Scientist(s): Jennifer Martinez

Photonic hole-arrays for sub-wavelength illumination, Yuval Garini, Bar Ilan University; CINT Scientist(s): Igal Brener

Nanoislands for Plasmonic Field Enhancement Microscopy, James Thomas, University of New Mexico; CINT Scientist(s): Igal Brener