



CINT Annual Meeting

September 25-27, 2017

La Fonda Plaza Hotel, Santa Fe, New Mexico

Joint NSRC Workshop on Soft Matter

September 25-27, 2017

Monday Morning, September 25

7:30 am	Registration Continental Breakfast Available	Mezzanine Ballroom North
9:00 am	Plenary Session <i>Moderator: Sean Hearne, CINT Co-Director</i> Welcome, Introductions and CINT Update <i>Andreas Roelofs, CINT Director</i>	Ballroom South
9:20 am	Sankar Das Sarma University of Maryland <i>"Majorana Nanowires: Perspective and Prognosis"</i>	Ballroom South
10:00 am	Break	Ballroom North
10:20 am	Thomas La Grange École Polytechnique Fédérale de Lausanne <i>"Status of Ultrafast and High-speed TEM Technology and Perspectives for Improving the Resolution of These Techniques"</i>	Ballroom South
11:00 am	M. Cristina Marchetti Syracuse University <i>"Self-organization of active matter"</i>	Ballroom South
11:40 am	Informal poster viewing	La Terraza Terrace
12:00 pm	Lunch	Ballroom North
12:00 pm	User Executive Committee Lunch (closed)	Stiha Room

Monday afternoon, September 25

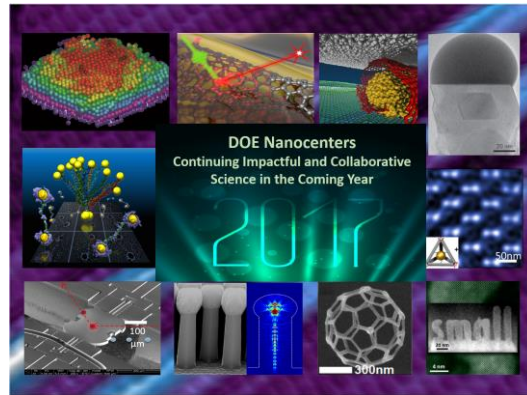
2017 CINT Annual Meeting - Parallel Symposia

**Joint NSRC Workshop on Soft Matter – See separate agenda
New Mexico Room**

Symposia	Emergent Phenomena in Quantum Materials Ballroom South	Exploring New Frontiers in Chemistry and Physics with Electron Microscopy Stiha Room
	Moderators: <i>Mike Lilly / Han Htoon / Rohit Prasankumar / Jianxin Zhu</i>	Moderators: <i>Katherine Jungjohann / Khalid Hattar / Nathan Mara</i>
1:00 pm	Zahid Hasan <i>Princeton University</i> "Talk Title"	Symposia Speaker - TBA <i>Affiliation</i> "Talk Title"
1:30 pm	Xiangfeng Duan <i>University of California, Los Angeles</i> "Talk Title"	Nik Chawla <i>Arizona State University</i> "Nanolaminates: Layered Metal-Ceramic Composites at the Nanoscale"
2:00 pm	Feng Wang <i>University of California, Berkeley</i> "Talk Title"	Mike Chandross <i>Sandia National Laboratories</i> "Talk Title"
2:30 pm	Frank Hegmann <i>University of Alberta</i> "Talk Title"	Joe Michael <i>Sandia National Laboratories</i> "Talk Title"
3:00 pm	Wei Pan <i>Sandia National Laboratories</i> "Talk Title"	Rosa Diaz <i>Purdue University</i> "Environmental Transmission Electron Microscopy in the gas/solid interface - advances and limitations"
3:30 pm	Break	Break
4:00 pm	Ed Bielejec <i>Sandia National Laboratories</i> "Talk Title"	Abhaya Datye <i>University of New Mexico</i> "Title"
4:30 pm	Stephen Doorn <i>The Center for Integrated Nanotechnologies</i> "Talk Title"	Suneel Kodambaka <i>University of California Los Angeles</i> "Talk Title"
5:00pm - 7:00pm	Poster Session Cash Bar Available <i>La Terrazo Terrace</i>	

Tuesday Morning, September 26

7:00 am	Registration Continental Breakfast available Ballroom North		Mezzanine
8:30 am	Users Executive Committee Town Hall Meeting (<i>All Welcome</i>) <ul style="list-style-type: none"> ○ Don Lucca, <i>Chair, Users Executive Committee</i> ○ Heather Brown, <i>User Program Manager</i> ○ Andreas Roelofs, <i>CINT Director</i> & Sean Hearne, <i>CINT Co-director</i> 		Ballroom North
Joint NSRC Workshop on Soft Matter – See separate agenda New Mexico Room			
Symposia	Emergent Phenomena in Quantum Materials	Exploring New Frontiers in Chemistry and Physics with Electron Microscopy	
	Ballroom South	Stiha Room	
	Moderators: <i>Mike Lilly / Han Htoon / Rohit Prasankumar / Jianxin Zhu</i>	Moderators: <i>Katherine Jungjohann / Khalid Hattar / Nathan Mara</i>	
9:00 am	Ryan Jock <i>Sandia National Laboratories</i> "Talk Title"	Steven Hayden <i>ARAMCO Services Company</i> Title	
9:30 am	Symposia Speaker - TBA <i>Affiliation</i> "Talk Title"	Eric Schindelholtz <i>Sandia National Laboratories</i> Title	
10:00 am	Symposia Speaker - TBA <i>Affiliation</i> "Talk Title"	Renjie Chen <i>Max Planck Institute for Informatics</i> "Title"	
10:30 am	Break	Break	
11:00 am	Jianxin Zhu <i>The Center for Integrated Nanotechnologies</i> "Talk Title"	Arturo Ponce <i>The University of Texas at San Antonio</i> "In-situ heating/magnetization off-axis electron holography to study magnetocrystalline anisotropy in materials at nanoscale"	
11:30 am	Concluding Remarks by Symposium Organizer ****End of Symposium***	Joe McKeown <i>Lawrence Livermore National Lab</i> Title	
11:30 am		Concluding Remarks by Symposium Organizer ****End of Symposium***	
12:00 am	Lunch		Ballroom North



Joint NSRC Workshop on Soft Matter

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Organizing Committee	Gary S. Grest	Sandia National Laboratories
	George Bachand	Sandia National Laboratories
	Xiao-Min Lin	Argonne National Laboratory
	Oleg Gang	Brookhaven National Laboratory
	Ron Zuckerman	Lawrence Berkeley National Laboratory
	Bobby Sumpter	Oak Ridge National Laboratory

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11:40 am	Informal poster viewing	La Terraza Terrace
12:00 pm	Lunch	Ballroom North

Monday Afternoon, September 25

12:00 pm	Lunch	Ballroom North
	Moderators: <i>George Bachand and Ron Zuckerman</i>	
1:15pm	Oleg Gang <i>Brookhaven National Laboratory</i> <i>"Programmable Assembly at Nanoscale: From Principles to Material Design"</i>	
1:40 pm	Steve Whitelam <i>Lawrence Berkeley National Laboratory</i> <i>"Toward synthesis by design of two-dimensional networks, in and out of equilibrium"</i>	
2:05 pm	Alexei Tkachenko <i>Brookhaven National Laboratory</i> <i>"Tales of emerging complexity: from self-assembly to evolution"</i>	
2:30 pm	Gang Ren <i>Lawrence Berkeley National Laboratory</i> <i>"Characterization of DNA origami structure and dynamics by electron tomography"</i>	
2:55 pm	Mircea Cotlet <i>Brookhaven National Laboratories</i> <i>"DNA-based plasmonic quantum dots with regulated optical output"</i>	
3:20 pm	Break	Ballroom North
3:50 pm	Dmytro Nykypanchuk <i>Brookhaven National Laboratory</i> <i>"Responsive DNA/nanoparticle structures"</i>	
4:15 pm	Jennifer Martinez <i>Los Alamos National Laboratory</i> <i>"Assembly of DNA Nanoclusters: Catalysis and Photophysics"</i>	
5:00pm - 7:00pm	Poster Session Cash Bar Available	La Terrazo Terrace

Tuesday Morning, September 26

7:00 am	Continental Breakfast available	Ballroom North
Symposia	Joint NSRC Workshop on Soft Matter New Mexico Room	
	Moderators: <i>Gary S. Grest and Bobby Sumpter</i>	
8:30 am	Gregory Doerk <i>Brookhaven National Laboratory</i> <i>"Diversifying the Nanostructure Landscape in Diblock Copolymer Self-Assembly"</i>	
8:55 am	Brad Lokitz <i>Oak Ridge National Laboratory</i> <i>"Probing the Electromechanical Response of Ionic Block Copolymers using Neutron Reflectometry"</i>	
9:20 am	Amalie Frischknecht <i>Sandia National Laboratories</i> <i>"Simulations of Morphology and Dynamics in Ion-Containing Polymers"</i>	
9:45 am	Rajeev Kumar <i>Oak Ridge National Laboratories</i> <i>"Thermodynamics of polar polymer brushes and solutions: field theory based approaches"</i>	
10:10 am	Break	
10:40 am	Yangyang Wang <i>Oak Ridge National Laboratories</i> <i>"A new paradigm for molecular rheology of polymers: Bridging experiment, theory, and simulation via the spatially-dependent structural response function approach"</i>	
11:05 am	Mark Stevens <i>Sandia National Laboratories</i> <i>"Understanding structure of polyelectrolytes through simulation and single molecule force measurements"</i>	
11:30 am	Kunlun Hong <i>Oak Ridge National Laboratory</i> <i>"Controlled Synthesis and Selective Deuteration: A Powerful Combination in Soft Matter Science"</i>	
11:55 am	Lunch	Ballroom North

Tuesday Afternoon, September 26

	Moderators: <i>Oleg Gang and Mark Stevens</i>
1:30 pm	Elena Shevchenko <i>Argonne National Laboratory</i> <i>"Surface modification for compositional and property control of nanoparticles"</i>
1:55 pm	Dale Huber <i>Sandia National Laboratories</i> <i>"Nanoparticle synthesis and characterization"</i>
2:20 pm	Dvora Perahia <i>Clemson University</i> <i>"Polydots: Soft Luminescent Nanoparticles"</i>
2:45 pm	Tijana Rajh <i>Argonne National Laboratories</i> <i>"Powering TiO₂ nanoparticles in living systems"</i>
3:10 pm	Break Ballroom North
3:40 pm	Xiao-Min Lin <i>Argonne National Laboratories</i> <i>"Microstructure and Dynamics in Shear Thickening Fluids probed by Rheo-SAXS-XPCS"</i>
4:05 pm	Jan-Michael Carrillo <i>Oak Ridge National Laboratory</i> <i>"Molecular Dynamics Simulations of the Diffusion of Small and Sticky Nanoparticles in Polymer Nanocomposites"</i>
<i>4:30 pm</i>	Subramanian Sankaranarayanan <i>Argonne National Laboratory</i> <i>"Machine learnt models for soft-matter simulations"</i>
4:55 pm	Yi Liu <i>Lawrence Berkeley National Laboratory</i> <i>"Tuning Structure and Ordering in Frameworks of Functional π-Systems"</i>
5:20 pm	Dinner on your own

Wednesday Morning, September 27

7:30 am	Continental Breakfast available	Ballroom North
Symposia	Joint NSRC Workshop on Soft Matter New Mexico Room	
	Moderators: <i>Xiao-Min Lin and Steve Whitelam</i>	
8:30 am	H. Christopher Fry <i>Argonne National Laboratory</i> <i>"Controlling Metalloporphyrin Photophysical and Electronic Properties with Supramolecular Peptide Assemblies"</i>	
8:55 am	Ron Zuckerman <i>Lawrence Berkeley Laboratory</i> <i>"Translating biological structure and function to non-natural sequence-defined peptoid polymers"</i>	
9:20 am	Gabriel A. Montano <i>University of Northern Arizona</i> <i>"Who needs a lipid? Amphiphilic block copolymers to create biomimetic membrane composites"</i>	
9:45 am	Miguel Fuentes-Cabrera <i>Oak Ridge National Laboratories</i> <i>"Microbes in and out: from the self-organization of organelles to the self-organization of microbial populations with predators and preys"</i>	
10:10 am	Break	Ballroom North
10:40 am	Behzad Rad <i>Lawrence Berkeley National Laboratory</i> <i>"Engineering Proteins that Create & Communicate with Materials"</i>	
11:05 am	Elena Rozhkova <i>Argonne National Laboratories</i> <i>"Cell-Free Synthetic Biology Chassis for Non-Covalent Bio-Nano Architectonics"</i>	
11:30 am	Wally Paxton <i>Sandia National Laboratories</i> <i>"Dynamic Membrane Materials from Amphiphilic Block Copolymers"</i>	
11:55am - 12:00 noon	Concluding Remarks by Symposium Organizer ****End of Symposium***	