

CINT Poster Session: Day 1

Each author submitted a pre-recorded poster that is maximum of 3 minutes in length. The Author will be present to answer Questions through the Q&A section of WebEx while they're pre-recorded poster presentation is playing.

Monday, September 21

	<u>Advances in Soft Matter Imaging</u>	<u>Nanostructured Materials</u>	<u>Quantum Information Sciences</u>
11:45am 3 min. max	Griffin Canning The University of New Mexico <i>"Effects of Metal Aggregation State and Metal-Support Interactions on the Behavior of High-Temperature Alkane Transformation Catalysts"</i>	Manish Singh University of Connecticut <i>"Phase Transformation Studies of Ge-Sb-Te using Transmission Electron Microscopy"</i>	Maziar Saleh Ziabari The University of New Mexico <i>"Electron Spin Resonance of Nanoscale Materials using Nitrogen Vacancies"</i>
	Andrew Santos Sandia National Laboratories <i>"Simulations of Polymer-Grafted Nanoparticle Phase Behavior"</i>	Benjamin K. Derby Los Alamos National Laboratory <i>"Synthesis and Irradiation Response of Hetero FeCr - Fe2O3 Interfaces"</i>	Jacob Henshaw Sandia National Laboratories <i>"Nuclear Magnetic Resonance of Nano-scale quantum materials detected by Nitrogen vacancies in Diamond"</i>
	Yuting Miao University of Calif., Los Angeles <i>"Overcoming Emitter Misslocalization in Plasmonic Systems for Far-field Superresolution Detection"</i>	Justin Cheng University of Minnesota <i>"The Influence of 3D Interfaces on the Deformation of Nanoscale Metallic Multilayers"</i>	Frederic Grillot LTCI, Télécom Paris, Institut Polytechnique de Paris <i>"Epitaxial semiconductor quantum dot lasers on silicon for integrated quantum technologies"</i>
	Alireza Bandegi New Mexico State University <i>"Ion gels by self-assembly of triblock copolymer/ionic liquid/monomer mixtures"</i>	Barbara Kazanowska Sandia National Laboratories <i>"Crystallographic Chemical Wet Etching of AlGaN Nanostructures"</i>	Long Yuan Los Alamos National Lab. <i>"Manipulation of Exciton Dynamics and Annihilation by Enhanced Light-Matter Interaction in Single-Layer WSe2 on the Toroidal Dielectric Metasurface"</i>
	Ben Paren University of Pennsylvania <i>"Percolated ionic aggregate morphologies and decoupled ion transport in precise sulfonated polymers synthesized by ring-opening metathesis polymerization"</i>	Devin Rollins Sandia National Laboratories <i>"Covalent organic frameworks (COFs)"</i>	Benedikt Fauseweh Los Alamos National Lab. <i>"Laser pulse driven control of charge and spin order in the two-dimensional Kondo lattice"</i>
	Bryce Thurston Sandia National Laboratories <i>"Molecular Dynamics Simulations of Percolated Ionic Aggregates of Precise Sulfophenylated Polyethylene Polymers"</i>	Trevor Clark Sandia National Laboratories <i>"Progress in In-situ Ion Irradiation Scanning Electron Microscopy"</i>	Ekaterina Dolgoplova Los Alamos National Lab. <i>"Alternative Plasmonic Nanomaterials for Purcell-Enhanced Emission in the Infrared Region"</i>
		Elton Chen Sandia National Laboratories <i>"Pressure-induced Formation and Mechanical Properties of 2D Diamond Boron Nitride"</i>	
12:15	End of poster session. Resume symposia presentations		

CINT Poster Session: Day 2, AM Session

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Tuesday, September 22

2020 CINT Annual Meeting – Parallel Symposia			
	Advances in Soft Matter Imaging	Nanostructured Materials	Quantum Information Sciences
11:30am 3 min. max	Joshua DeAgüero The University of New Mexico <i>"Bioelemental characterization of electron-dense nanostructures in the kidney following gadolinium-based contrast agent treatment"</i>	Eric Hintsala Bruker Nano Surfaces Division <i>"High throughput evaluation and analysis of materials property distributions by clustering of nanoindentation mapping data"</i>	Gene Siriviboon Brown University <i>"Reconstruction of subsampled Landau Fan Measurement using Compressed sensing and Deep Learning"</i>
	Keith Willes Brigham Young University <i>"Hybrid Lipid-Polymer Bilayers: Properties and Applications"</i>	Riley Parish Sandia National Laboratories <i>"In-situ Characterization of Nanomaterials in Extreme Environments with the I3TEM"</i>	Mehdi Hatefipour New York University <i>"Magneto-transport in near surface InAs quantum wells in contact with NbTiN"</i>
	Nelum Perera New Mexico Institute of Mining and Technology <i>"Removal of micro and nanoplastics in water using acoustic forces"</i>	Chanchal Ghosh University of Connecticut <i>"Studies on Phase and Structural Changes in Intercalated Layered Materials: Combining TEM and Materials Modelling"</i>	Guoqing Zhou Los Alamos National Laboratory <i>"Machine Learning with domain knowledge of Quantum Chemistry"</i>
	Renaë Gannon University of Oregon <i>"Li metal, solid-electrolyte interphase, and separator analysis of intact batteries via ultrafast pulsed laser ablation in a cryo-SEM"</i>	Alva Dillon Brandeis University <i>"Emergence of Plasmon-Like Excited States in Ag Nanoclusters"</i>	Daniel Alejandro Noble Hernandez Sandia National Laboratories <i>"Machine learning detection and classification of defects in STM lithography data"</i>
	Anastasiia Nemashkalo Los Alamos National Laboratory <i>"Watching co-transcriptional biomolecular machine assembly one molecule at a time"</i>	Genevieve Kidman University of Nevada, Las Vegas <i>"Stress distributions in polycrystalline solids measured with Atomic Force Microscopy"</i>	Anastasia Blake Los Alamos National Laboratory <i>"Nanoscale Integration Attains New Heights with Dip-Pen Nanolithography"</i>
	Meisha Shofner Georgia Institute of Technology <i>"Correlating bulk properties of cellulose nanocrystal/chitin nanofiber/poly(vinyl alcohol) composites with nanoscale component interactions"</i>	Jacob Startt Sandia National Laboratories <i>"First Principles Investigation of Surface Behavior in Ni-Cr Alloy in Molten Salt Systems"</i>	Kevin Reilly The University of New Mexico <i>"Epitaxial Regrowth and Hole Shape Engineering for Photonic Crystal Surface Emitting Lasers"</i>
	Stephen Porter The University of New Mexico <i>"Investigation of Pt-Pd Oxidation Catalysts under Reaction Environments"</i>	Alejandra Londoño-Calderón Los Alamos National Laboratory <i>"Strain mapping of grain boundary in two-dimensional tellurene by 4D-STEM"</i>	
12:00pm	End of poster session. Resume symposia presentations		

CINT Poster Session: Day 2, PM Session

1:00 pm 3 min. max	<u>Nanostructured Materials session only</u>
	<p>Nileena Nandakumaran Juelich Forschungszentrum <i>"Parametric study of magnetic field induced nanochains in solution"</i></p>
	<p>Megan Fleming Georgetown University <i>"Cytosine Monohydrate Crystals Under Thermal and Mechanical Stress"</i></p>
	<p>Zac Milne Sandia National Laboratories <i>"In Situ TEM nanomechanical and tribological testing using the Bruker-Hysitron Picoindenter"</i></p>
	<p>Alex Gupta Los Alamos National Laboratory <i>"Analysis of PEMFC Catalyst Layers using Atomic Force Microscopy"</i></p>
	<p>David Montes de Oca Zapiain Sandia National Laboratories <i>"Characterizing the Tensile Strength of Metastable Grain Boundaries in Silicon Carbide Using Machine Learning"</i></p>
	<p>Dibyajyoti Ghosh Los Alamos National Laboratory <i>"Charge Carrier Dynamics in Layered Halide Perovskites: A Computational Insights"</i></p>
	<p>Igor Kolesnichenko Sandia National Laboratories <i>"Polysulfone-Based Zincate-Blocking Separators for Secondary Zn-MnO₂ Batteries"</i></p>
	<p>Christian A. Pattyn Sandia National Laboratories <i>"Chemical Warfare Agent Detection Using Zirconium Metal-Organic Framework Functionalized Plasmonic Sensors"</i></p>
1:30 pm	<i>End of daily meeting</i>

CINT Annual Meeting: Day 3

Wednesday, September 23

9:45 am	<u>CINT User Executive Committee Presents: Best poster award presentation</u>
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