

Agenda

2026 CNMS User Meeting
Oak Ridge National Laboratory
Oak Ridge, Tennessee

	Tuesday, August 11		
7:00-8:00	Registration		
	WELCOME - Summit Grand Ballroom		
8:00-8:30	ORNL Welcome from the CNMS UEC With working breakfast		
8:30-9:00	Welcome and Announcements Scott Retterer, CNMS Director With working breakfast		
9:00-10:00	Plenary Speaker Peter Abbamonte, University of Illinois Urbana-Champaign <i>"Abstract Title"</i>		
10:00-10:15	Break		
Track Sessions	TRACK A Location: TBD Quantum/Nanoscale	TRACK B Location: TBD Soft Matter/ Functional Materials	TRACK C Location: TBD AI/ML - Theory-in-the-Loop
10:15	Speaker: Rama Vasudevan, ORNL , "Automated Construction of Artificial Lattice Structures with Designer Electronic States"	Speaker: Ke Yuan, ORNL , "Mechanistic Insights into Defect-Mediated Crystallization Revealed by Lattice Strain Evolution"	Speaker: Gs Jung, ORNL , "Neural "Network Potentials with Effective Charge Separation for Non-Equilibrium Dynamics of Ionic Solids: A ZnO Case Study"
10:40	Speaker: Xufan Li, Honda Research Institute , "Water-Assisted Concerted Layer Growth of Td-WTe ₂ "	Speaker: Natalie Stingelin, Georgia Tech , "Multi-Particle States in Semiconducting Polymers"	Speaker: Piran Kidambi, University of Florida , "Sieving Hydrogen Isotopes via Machine Learning Assisted CVD of h-BN"
11:05 Contributed Talks	Speaker: Habib Rostaghi, University of South Carolina , "Strain-Tunable Band Gap Engineering in Freestanding Single-Crystal B-Ga ₂ O ₃ Membranes"	Speaker: Charlotte Beckford, University of Tennessee , "A Thermodynamically Consistent Model of a Rechargeable Salt-in-Polyelectrolyte"	Speaker: Tyler Sax, Fisk University , "Let the Hamiltonian Speak for Itself: Automatically-Derived Symmetries in DCA++"
11:30 Contributed Talks	Speaker: Joseph Mayer, Vanderbilt University , "Phonon Structure Engineering of Graphene and Silicon via Nanopatterning"	Speaker: Dipendra Bhandari, ORNL , "Noncovalent SARS-CoV-2 main protease inhibitors targeting catalytic site and primed substrate binding subsites"	Speaker: Bishal Tiwari, Virginia Tech , "Machine-Learning Assisted Bath Fitting of Anderson Impurity Models for Dynamical Mean-Field Theory"
11:55-12:00	Break		
12:00-1:50	CNMS Town Hall and Panel Discussion – <u>Location: Summit I</u> Speaker: Vighter Iberi, CNMS UEC Vice Chair Panelists: <u>CNMS Group Leaders</u> with Working Lunch		
1:50-2:00	Break		
	Plenary Sessions II – Location: Summit I		
2:00-3:00	Jeremiah A. Johnson, Massachusetts Institute of Technology		

	<i>“Abstract Title”</i>
3:00-4:00	David Broun, Simon Fraser University <i>“Testing the Physics of Overdoped Cuprates Using Ab-Initio Disorder Potentials”</i>
4:00-5:00	Student Poster Slam – <u>Location: Summit I</u>
5:00-7:00	Poster Reception – <u>Location: Summit II</u>

Wednesday, August 12 CNMS Workshops at the Crowne Plaza	
8:00 - 5:00	Continental Breakfast and working lunch
8:00 - 5:00	29-Introduction to Neutron Scattering in Materials Science Organizer: Michelle Dolgos: Spallation Neutron Source Location: TBD
8:00 - 5:00	26-What’s New in the Cleanroom/Kurt J. Lesker ALD and PVD Tool Talks Organizer: Bernadeta Srijanto, Kevin Lester: CNMS Sean Armstrong, Jason Hrebic and Warren Sebring, Kurt J. Lesker Company Location: TBD
8:00 - 5:00	37-Autonomous Synthesis and Assembly of Thin Films and 2D Materials Organizer: Sumner Harris, Rama Vasudevan and Kai Xiao: CNMS Location: TBD
8:00 - 5:00	29-Autonomous Self-Driving Labs: Flow Chemistry, Arrays, and Characterization Organizer: Rigoberto Advincula, Ilia Ivanov, Panagiotis Christakopoulos, Rama Vasudevan: CNMS Location: TBD
8:00 - 5:00	34-Emerging Chiral Magnetism Materials: Discovery, Imaging, and Neutron Probes Organizers: Huan Zhao, Fehmi Yasin: CNMS Lisa DeBeer-Schmitt: Spallation Neutron Source Location: TBD