

2021 Joint Nanoscience and Neutron Scattering Virtual User Meeting



Note: All times listed are US Eastern Time/New York. Zoom links can be accessed in Whova (see page 5 for instructions).

Monday, August 9: Day 1

10:30 a.m.–12:40 p.m.	Welcome and Plenary Session A		
10:30 a.m.	ORNL Welcome Joshua Agar, CNMS UEC Chair and Daniel Shoemaker, SHUG EC Chair		
10:40 a.m.	Neutron Sciences Overview Ken Andersen, Associate Lab Director for the Neutron Sciences Directorate Hans Christen, Neutron Scattering Division Director		
11:00 a.m.	Nanoscience Overview Karren More, Center for Nanophase Materials Sciences Director		
11:10 a.m.	Plenary Speaker: Linda Horton, Associate Director of Science for Basic Energy Sciences (BES), US Department of Energy (DOE) Office of Science (SC) Title: DOE Office of Science Update		
11:40 a.m.	Plenary Speaker: Luke Brewer, The University of Alabama Title: Processing-Structure Relationships in Metallic Materials: Discovering the Enabling Science for Advanced Manufacturing		
1:00 – 1:30 p.m.	Virtual Tour of the CNMS		
1:00 - 2:00 p.m.	HFIR/SNS Data Analysis Town Hall - Thomas Proffen, Oak Ridge National Laboratory		
1:00 - 2:00 p.m.	Poster Viewing (available in Whova under “Resources/Video Gallery”)		
2:00–4:00 p.m. Parallel Oral Sessions	Joint Session: Hard Materials: Energy Storage and Conversion SHUG Moderator: Olivier Delaire CNMS UEC moderator: Ethan Self	Joint Session: Soft Materials: Polymers SHUG Moderator: Back-up moderator:	Joint Session: Data Enabled Science SHUG Moderator: William Ratcliff CNMS UEC moderator: Joshua Agar
2:00 p.m.	Juan-Pablo Correa Baena, Georgia Tech	Yangyang Wang, Oak Ridge National Laboratory	Anjana Samarakoon, Argonne National Laboratory
2:30 p.m.	Nicholas Weadock, University of Colorado at Boulder	Gaurav Arya, Duke University	Nhan Tran, Fermi National Accelerator Laboratory
3:00 p.m.	George Nelson, U of Alabama in Huntsville	Simon Rogers, University of Illinois at Urbana-Champaign	Austin McDannald, NIST
3:30 p.m.	Janet E. Macdonald, Vanderbilt University	Nate Lynd, University of Texas at Austin	Nikhil Shukla, University of Virginia
4:00–5:00 p.m.	Poster Viewing (available in Whova under “Resources/Video Gallery”)		

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Tuesday, August 10: Day 2

10:30 a.m.–1:00 p.m.	Welcome, Plenary Session B, and Student Presentations		
10:30 a.m.	ORNL Welcome Joshua Agar, CNMS UEC Chair and Daniel Shoemaker, SHUG EC Chair		
10:40 – 11:40 a.m.	Plenary Speaker: Deji Akinwande, University of Texas at Austin Title: Imaging of Single Defect Memristors in 2D Materials and Applications		
11:40 – 1:00 pm	Talks from Best Student Presentation Award Winners Moderator: Zachary Hood		
1:00-2:00 p.m.	Gathertown Virtual Mixer		
2:00–4:00 p.m. Parallel Oral Sessions	Joint Session: Hard Materials: Imaging SHUG Moderator: Adrian Bruegger CNMS UEC moderator: Ethan Self	Joint Session: Soft Materials: Biology SHUG Moderator: Jarek Majewski Back-up moderator:	Joint Session: Data Enabled Science SHUG Moderator: Geneva Laurita CNMS UEC moderator: Joshua Agar
	Anton Tremsin, UC Berkeley	Matthais Kolle, MIT	Eun-Ah Kim, Cornell University
	Mary Scott, UC Berkeley/LBNL	Daniel Kneller, Oak Ridge National Laboratory	Simon Billinge, Columbia/BNL
	James T. Burns, University of Virginia	Sandra J. Rosenthal, Vanderbilt University	Olexandr Isayev - Carnegie Mellon University
	Roger Proksch, Asylum Research and Oxford Instruments	Kathryn Morris, Xavier University	James Warren, Materials Genome Program (NIST)
4:00–5:00 p.m.	Poster Viewing (available in Whova under “Resources/Video Gallery”)		

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Wednesday, August 11: Day 3

10:30 a.m.–12:40 p.m.	Welcome, Plenary Session C, SHUG Town Hall				
10:30 a.m.	ORNL Welcome Joshua Agar, CNMS UEC Chair and Daniel Shoemaker, SHUG EC Chair				
10:40 – 11:40 a.m.	Plenary Speaker: Rana Ashkar, Virginia Tech Title: Cell Membranes from the Lens of Neutron Scattering and Computer Simulations				
11:40 – 12:40 pm	SHUG Town Hall Meeting <i>Including announcement of “Best Student Presentation” Award Winners in Neutron Scattering Sciences and “Outstanding Staff Service” Awards</i>				
1:00–2:00 p.m.	Poster Viewing (available in Whova under “Resources/Video Gallery”)				
1:00-2:00 p.m.	Gather Town Virtual Mixer				
2:00–4:00 p.m. Parallel Oral Sessions	Joint Session: Hard Materials: Magnetism, quantum, and nanoelectronics SHUG Moderator: Danielle Yahne CNMS UEC moderator: Shengxi Huang	Joint Session: Soft Materials: Energy & Gas Adsorption SHUG Moderator:Yun Liu CNMS UEC moderator:	Joint Session: Emerging Researchers in Nanoscience and Neutron Scattering (postdocs, junior faculty, and equivalent) SHUG Moderator: Travis Williams CNMS UEC moderator: Zachary Hood		
2:00 p.m.	Benjamin Frandsen, Brigham Young University	Guoliang (Greg) Liu, Virginia Tech	2:00 p.m.	Michelle Calabrese, University of Minnesota	
2:30 p.m.	Weiwei Xie - Rutgers University	Murillo Longo Martins, Oak Ridge National Laboratory	2:20 p.m.	Robert Wexler, Princeton University	
3:00 p.m.	Kemp Plumb, Brown University	Greeshma Gadikota, Cornell University	2:40 p.m.	Hillary Smith, Swarthmore College	
3:30 p.m.	Michael Strano, Massachusetts Institute of Technology	Tomonori Saito, Oak Ridge National Laboratory	3:00 p.m.	Peter Meisenheimer, University of California, Berkeley	
			3:20 p.m.	Alessandro Mazza, Oak Ridge National Laboratory	
			3:40 p.m.	Ruijuan Xu, Stanford University	
4:00–5:00 p.m.	Poster Viewing (available in Whova under “Resources/Video Gallery”)				

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Thursday, August 12: Day 4

10:30 a.m.–12:20 p.m. Welcome, Plenary Session D, CNMS Town Hall				
10:30 a.m.	ORNL Welcome Joshua Agar, CNMS UEC Chair and Daniel Shoemaker, SHUG EC Chair			
10:40 – 11:40 a.m.	Plenary Speaker: John Randall, Zyvex Labs Title: A Promising Path to Atomically Precise Manufacturing: Digital Atomic-Scale Fabrication			
11:40 – 12:20 p.m.	CNMS Town Hall Meeting <i>Including announcement of “Best Student Presentation” Award Winners in the Nanosciences and the CNMS Staff Appreciation Award</i>			
1:00 - 1:30 p.m.	SNS Virtual Tour Melanie Kirkham	1:00 - 2:00 p.m.	Poster Viewing (available in Whova under “Resources/Video Gallery”)	
1:30 - 2:00 p.m.	HFIR Virtual Tour Matthias Frontzek			
2:00–4:00 p.m. Parallel Oral Sessions	Joint Session: Hard Materials: Functional Materials / Condensed Matter SHUG Moderator: Lisa Debeer-Schmitt CNMS UEC moderator: Peter Moeck	Joint Session: Soft Materials: Colloids & Complex Fluids SHUG Moderator: Rana Ashkar Back-up moderator:	Joint Session: Emerging Researchers in Nanoscience and Neutron Scattering (postdocs, junior faculty, and equivalent) SHUG Moderator: Martin Mourigal CNMS UEC moderator: Zachary Hood	
	2:00 p.m. Tanushree Choudhury, Indian Institute of Technology Bombay	Ryan Poling-Skutvik, University of Rhode Island	2:00 p.m.	Amy Xu, Louisiana State University
	2:30 p.m. Alex Zettl, University of California at Berkeley	Philip William, University of Notre Dame	2:20 p.m.	Kiranmayi Dattareya Dexit, Purdue University
	3:00 p.m. Sara Haravifard, Duke University	Nairiti Sinha, University of California, Santa Barbara	2:40 p.m.	Mary Machado, Cornell University
	3:30 p.m. Claire Saunders, California Institute of Technology	Carlos Silvera Batista, Vanderbilt University	3:00 p.m.	Nina Andrejevic, MIT
			3:20 p.m.	Aeriel D.M. Leonard, Ohio State University
			3:40 p.m.	Rafael Balderas, Oak Ridge National Laboratory
4:00–5:00 p.m.	Poster Viewing (available under “Poster Session” in the Meeting Application)			