

Workshop: Understanding structure and dynamics of charged polymers

Agenda as of (7/24/23)

Event contact	Rajeev Kumar, kumarr@ornl.gov , (865) 574-3027	
MS Teams (Link)		
Time	Event	Lead
Thursday, August 10, 2023 at the CNMS Executive Conference Room (L-183)		
1:00pm	Introductory Remarks	Rajeev Kumar <i>Nanomaterials Theory Institute, CNMS, ORNL</i>
1:10pm	Impact of Surface-Induced Ordering on Measurements of Bulk Ionic Conductivity in Block Copolymer Electrolytes	Gila Stein <i>University of Tennessee, Knoxville, TN</i>
1:35pm	The Conformations of Polyzwitterion Chains and Its Coacervates in Aqueous Solutions Studied by ORNL Small-Angle X-ray Scattering Instrument	Jong Keum <i>Macromolecular Nanomaterials / Neutron Scattering, ORNL</i>
2:00pm	Coarse-Grained Modeling of Ion Transport in Solid Polymer Electrolytes	Lisa Hall <i>Ohio State University, Columbus, OH</i>
2:25pm	AI/ML Strategies in Charged Polymer Materials: Continuous Flow Polymer Synthesis and Reactions	Rigoberto Advincula <i>Macromolecular Nanomaterials, ORNL and University of Tennessee, Knoxville, TN</i>
Break for 10 minutes		
3:00pm	Machine Learning Based Pipeline for Analysis of Neutron Reflectivity Data from Thin Films of Charged Polymers	Dustin Eby <i>SULI Intern at CNMS, ORNL from University of Denver, CO</i>
3:25pm	Soft Matter Microscopy in the Age of AI for Charged Polymers and Hybrid Complexes	Jihua Chen <i>Macromolecular Nanomaterials, CNMS, ORNL</i>

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3:50pm	Ion Transport and Segmental Dynamics in Polymer Electrolytes and Composite Cathode	<i>Chelsea Chen Energy Storage Group, Chemical Sciences Division, ORNL</i>
4:15pm	Low-frequency dynamics in ionic materials: going beyond dc conductivity	<i>Yangyang Wang Macromolecular Nanomaterials, CNMS, ORNL</i>
4:45pm	Concluding Remarks	Rajeev Kumar
5:00pm	Adjourn	