MATERIALS RESEARCH INSTITUTE

MMRI Annual Symposium - March 29-30, 2023

"Materials for a New Mobility"

University of Michigan North Campus Research Complex, NCRC Building 18 - Dining Hall
2800 Plymouth Rd, Ann Arbor, MI 48105, USA

March 29

5:00 PM Student Poster Presentations, with Hors d'Oeuvres
7:00 PM Dinner starts
7:30 PM **Brian Storey, Toyota Research Institute**, Keynote Presentation
"How can we (meaningfully) accelerate materials discovery?"

March 30:

8:30-9:00 AM	*REGISTRATION + LIGHT BREAKFAST*		30 min
9:00 AM	**OPENING REMARKS**		20 min
Session 1: Batteries			
9:20 AM	**Jeff Sakamoto**	University of Michigan	30 min
	"Mechano-electrochemical Phenomena and Anode-free Manufacturing of Solid-state Batteries"		
9:50 AM	**Mei Cai**	General Motors – Global GM R&D	30 min
	"LiFSI based electrolyte corrosion study on Al current collector and its effect on Cu side"		
10:20 AM	*BREAK*		15 min
Session 2: Electronics and Sensors			
10:35 AM	**Wei Lu**	University of Michigan	30 min
	"Materials and Devices for Bio-inspired Computing"		
11:05 AM	**Deep Jariwala**	University of Pennsylvania	30 min
	"Low-Dimensional Heterostructures for Low-power Memory devices and Photonics"		
11:35 AM	*LUNCH,* ***Poster Competition Announcement****, Networking*		
Session 3: Structural Materials			
12:40 PM	**John Allison**	University of Michigan	30 min
	"The PRISMS Center Framework: An advanced open source multi-scale capability for accelerating predictive materials science"		
1:10 PM	**Ashley Buscek**	University of Michigan	30 min
	"Current and Future Capabilities in 3D X-Ray Diffraction Microstructure Imaging"		
1:40 PM	*BREAK*		15 min
Session 4: Computation and Data Science			
1:55 PM	**Elizabeth Holm**	University of Michigan	30 min
	"Making the most of what we've got: Designing microstructural data sets for AI applications"		
2:25 PM	**Wenhao Sun**	University of Michigan	30 min
	"Predicting synthesis routes to novel computationally-designed materials"		
2:55 PM	*BREAK*		15 min
Session 5: Batteries			
3:10 PM	**Mohamed Alamgir**	LG Energy Solution	30 min
	"Battery Development Activities at LG Energy Solution"		
3:40 PM	**Shirley Meng**	University of Chicago & Argonne	40 min
	"From Lab to Prototype – An Update on Sulfide Based Solid State Battery"		
4:20 PM	**CLOSING REMARKS**		10 min
4:30 PM	*ADJOURN*		