

2026 MRSEC REU SYMPOSIUM

DATE	TIME	WEBINAR REGISTRATION
Thursday October 22, 2026	2:00 – 5:00 PM EDT 1:00 – 4:00 PM CDT 11:00 – 2:00 PM PDT	https://umich.zoom.us/webinar/register/WN_AnzMbSlgSbe2JlvFGhR6zQ

TIME (EDT)	PROGRAM	FACILITATED/PRESENTED BY
2:00 – 2:05 PM	Welcome & Introduction	Risa Hartman and Prof. Sean Roberts University of Texas at Austin
2:05 – 2:10 PM	Opening Remarks	Dr. Charles Ying Section Head for Materials Research, NSF
2:10 – 2:15 PM	Run of Show	Dr. Adriana Santiago Ruiz University of Pennsylvania
RESEARCH PITCH • 5 mins + Q&A • 2 mins		
Session 1 Moderator: Dr. Adriana Santiago Ruiz, University of Pennsylvania		
2:15 – 2:22 PM	Processing and Applications of Atomically Thin Tungsten Diselenide	Ashley Varesi Northwestern University MRSEC
2:23 – 2:30 PM	Sensitivity Analysis of Physical Pixel Spacing in Supervised Training for STM Image Denoising	Fahmy Paiziah University of Tennessee, Knoxville CAMM
2:31 – 2:38 PM	Using Hexagonal Boron Nitride (hBN) as a Functional Filler in the Formulation of hBN/Polytetrahydrofuran (PTHF) Composites	Tatyanna Streeter The Pennsylvania State University CNS
2:39 – 2:46 PM	Janus Particles: Creating Tiny Two-Faced Particles Using Microfluidics	Glenn Burcsu Harvard University MRSEC
2:47 – 2:54 PM	Strain Engineering in 2D Materials	Jaden Yang University of Illinois Urbana-Champaign I-MREC
2:55 – 3:02 PM	Tuning Ferroelectric Domains with Strain	Omar Penot University of California Irvine CCAM
3:03 – 3:08 PM BREAK		
Session 2 Moderator: Prof. Yanfei Gao, University of Tennessee, Knoxville		
3:09 – 3:16 PM	Enzyme Loading in a Mesoporous Silicon Matrix	Jay Doctor University of California San Diego MRSEC
3:17 – 3:24 PM	Frankenstein’s Element: The Inner World of a Superatom	Charlie Garland The Ohio State University CEM
3:25 – 3:32 PM	Effects of Iron-Zeolite Topology on Nitrous Oxide Pollution Abatement	Lorena Perez University of Wisconsin-Madison MRSEC
3:33 – 3:40 PM	Gelation Behavior of Peptides for the Development of Therapeutics	Sulakshi Balasooriya The University of Texas at Austin CDCM
3:41 – 3:48 PM	3D Printed Multi-Material Adaptive Arrays	Henrike Schubert University of Nebraska-Lincoln AEMC
3:49 – 3:56 PM	Developing a Biodegradable and Wearable Plant VOC Sensor	Chowon (Lucy) Kim University of Pennsylvania LRSM
3:57 – 4:02 PM BREAK		

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Session 3		
Moderator: Ashley Tamura, University of California, San Diego		
4:03 – 4:10 PM	Shifting Band Gap Width of Bilayer Graphene by Inducing Mechanical Interlayer Sliding	Krish Kohir University of Washington MEM-C
4:11 – 4:18 PM	Sulfur Doping of VSe ₂ as a Path to Endotaxy	Taylor Pierce-James University of Michigan CMI
4:19 – 4:26 PM	Upgrading Qumus 2.0: Realization of an Embodied AI Quantum Experimentalist	Giovanna Corbisiero Princeton University PCCM
4:27 – 4:34 PM	Swelling Behavior and Surface Properties of Solvent-Washed DLP-Printed Bottlebrush Network	Linda Nguyen University of California Santa Barbara MRL
4:35 – 4:42 PM	Multiscale Ab Initio Modeling of 2D Materials	Emily Huang Columbia University AEM
4:43 – 4:50 PM	Sandblasted Scintillators: Simple and scalable light yield enhancement	Amelie Chan Massachusetts Institute of Technology MRSEC
4:51 – 5:00 PM	Closing Remarks/Final Thanks	Prof. Andrea Carroll University of Washington