

Great Lakes Microscopy Society Annual Meeting, 9 October 2026

8:00 – 8:30 **Registration & Check-in with Coffee/Light Refreshments**

8:30 - 8:40 **Introductions & Meeting Program Overview** (Dr. Ellen Keene, DuPont – GLMS Annual Meeting Program Chair)

8:40 - 8:50 **Welcoming Remarks** (Elizabeth Fraki, Director of Materials Characterization & Fabrication Facility, Michigan Technological University)

8:50-9:00 **Opening Remarks** (Andrew Barnard, Vice President for Research, Michigan Technological University)

Session 1, Biological Sciences: session chairs: Dr. Vickie Kimler, Oakland/Wayne State Universities (Retired) / Dr. Carol Heckman, Bowling Green State University

9:00 - 9:30 **Invited Speaker** Dr. Caryn Heldt (Michigan Technological University) – *The Study of Soft Biomaterials with AFM*

9:30 – 10:00 **Invited Speaker** Dr. Kevin Eliceiri (University of Wisconsin, Madison) - *Computational Imaging of the Tumor Microenvironment*

10:00 – 10:30 **Invited Speaker** Dr. Wei Zhang (University of Minnesota) - *Characterization of materials and biological samples by transmission electron microscopy*

10:30 – 10:45 **Break**

10:45 –11:00 **Student Platform** Linqi Huang (University of Michigan), *Quantitative Imaging of Structure and Viability in Staphylococcus epidermidis-Infected Fibrin Clots Under Heated Perfusate*

11:00-11:15 **Student Platform** Oscar Moreno (University of Michigan), *Scanning Electron Microscopy Characterization of Surface Coverage and Thrombus Infiltration in Novel Coated ePTFE Vascular Grafts*

11:15-11:30 **Student Platform** Majid Rostami (Michigan Technological University), *Spatiotemporal Analysis of FAK Phosphorylation and Vinculin Dynamics Reveals Two Distinct Stiffness-Dependent Mechanotransduction Pathways in Cancer Cells*

11:30 – 12:30 **Lunch Break & GLMS Society Business Meeting** (Dr. Tao Ma, University of Michigan - GLMS President)

12:30 – 2:00 **Poster Session & Vendor Showcase, Optional MCFF tours**

Session 2, Physical Sciences: session chair: Zehao Li, University of Michigan

2:00 – 2:30 **Invited Speaker** Dr. Sriram Vijayan (Michigan Technological University), *Unlocking the Mechanisms of Phase Transformations in Complex Metallic Alloys via In Situ TEM Heating – From Sample Preparation to Temperature Calibration and Data Interpretation*

2:30 – 3:00 **Invited Speaker** Dr. Xiaobing Hu (Northwestern), *Gas Cell TEM and Its Applications in Materials Science*

3:00 - 3:30 **Invited Speaker** Dr. Chia-Hao Lee (Cornell), *Advancing Electron Ptychography: From High-Performance Reconstruction to AI-Enhanced 3D Imaging*

3:30 – 3:45 **Break**

3:45 – 4:00 **Student Platform** Jessica Ma (University of Michigan), *Graph Theoretical Relationships for Chiroptical Activity for Gold Nanorods with Complex Corrugated Geometry*

4:00 – 4:15 **Student Platform** Jason Manassa (University of Michigan), *Damage of Beam-Sensitive Organics from Room Temperature to Liquid Helium*

4:15 – 4:30 **Student Platform** Hailey McKenna (University of Michigan), *Tailoring the plasmonic properties of InGa alloy nanoparticle arrays*

4:30 – 4:45 **Vendor Platform Presentation** Dr. Anahita Pakzad (Gatan/Ametek), *Advances in Detector Technologies for Materials Science: From Low-Dose Imaging to 4D STEM*

4:45-5:00 **Vendor Platform Presentation** Dr. Austin Wade (Thermo Fisher Scientific), *Super-X G3: Higher Light-Element Sensitivity and Faster Compositional Mapping at Analytical Beam Currents*

5:00-5:15 **Vendor Platform Presentation** Dr. Eric Hintsala (Bruker), *Evaluating the Brittle-to-Ductile Transition of Silicon by in situ Nanomechanics*

5:15-5:30 **Awards Presentation** (Dr. Ellen Keene, DuPont – GLMS Annual Meeting Program Chair)

5:30 – 5:45 **Closing Remarks and Group Photo** (Dr. Tao Ma, University of Michigan – GLMS President)