

Agenda – Michigan Space Grant Consortium 2026 Fall Conference

Saturday, October 31, 2026
Biomedical Science Research Building (BSRB)
University of Michigan 109 Zina Pitcher PL. | Ann Arbor, MI 48109

8:00am - 9:00am Registration, Breakfast & Poster Set Up *(Atrium)*
Breakfast by MCatering: Scrambled eggs, smoked bacon, home fries (GF, vegan), seasonal fruit salad, & assorted pastries

9:00am - 9:10am - Welcome & Introductions *(Kahn Auditorium)*
Mark Moldwin, PhD - Arthur F. Thurnau Professor, Department of Climate & Space Sciences & Engineering, Director of NASA's Michigan Space Grant Consortium

9:10am - 10:00am - Keynote Talk *(Kahn Auditorium)*
Aisha Bowe, Former NASA Aerospace Engineer, Blue Origin Astronaut, Entrepreneur

10:00am - 10:15am - Q&A with Aisha Bowe

10:15am - 11:15am - Poster Session A *(Atrium)*

11:15am - 12:15pm: Oral Presentation Session 1: Engineering and Computer Science
(Kahn Auditorium)
Moderated by Professor Virginia Ayres, Michigan State University

11:15-11:21 **Adaptive and Efficient Intrusion Detection Framework for Cyber-Resilient Edge AI Systems**
Presented by: Linxi Zhang, Ph.D., Assistant Professor, Department of Computer Science, Central Michigan University
11:21-11:24 Q&A

11:25-11:31 **Assembly and Characterization of a Modular Liver-on-a-Chip System using small-diameter and hepatocyte-laden electrosprayed microcapsules**
Presented by: Rafael Ramos, MS; MD-PhD Candidate in Biomedical

Engineering, Wayne State University

11:31-11:34 Q&A

11:35-11:41 Chemically Generated Liquid Sulfur for High-Performance Li-S Batteries
Presented by: Ankun Yang, Associate Professor, Mechanical Engineering, Oakland University

11:41-11:44 Q&A

11:45-11:51 Exploring Stability of Expressed Personalities in LLMs using Personality Trait-Specific Prompt Nudging
Presented by: Wyatt Snyder, Undergraduate Student, Computer Science and Mathematics, Hope College

11:51-11:54 Q&A

11:55-12:01 Radiation-Tolerant Halide Perovskite Nanocrystals for Space Photonic Applications
Presented by: Caroline Valdes, Undergraduate Student, Chemistry, Hope College

12:01-12:04 Q&A

12:05-12:11 Demystifying AI for High School Girls: Lessons from the Terabytes AI Pilot
Presented by: Krish Narayanan, Professor of Computer Science, Eastern Michigan University

12:11-12:14 Q&A

12:15pm - 1:15pm - Lunch *(Atrium)*
Potbelly assorted sandwiches and salads (incl. GF & vegan options)

1:15pm - 2:15pm: Oral Presentation Session 2: Earth System Sciences
(Kahn Auditorium)
Moderated by Professor Larry Molnar, Calvin University

1:15-1:21 Investigation of Transported Boreal Wildfire Smoke during a NASA Airborne Campaign
Presented by: Theo Severud, B.S., Ph.D. Candidate, Department of Chemistry, University of Michigan

1:21-1:24 Q&A

1:25-1:31 Modeling the Transport of Primary Oceanic Plankton Species in Polar Regions
Presented by: Lee Rosenberg, PhD Candidate, Department of Mechanical

Engineering, Oakland University

1:31-1:34 Q&A

1:35-1:41 Using Sedimentary Archives to Elucidate Land-lake Connectivity in the Lake Michigan Basin
Presented by: Melinda C. Higley, PhD, Assistant Professor of Geology; Geology, Geography and Environment, Calvin University

1:41-1:44 Q&A

1:45-1:51 Exploring water isotopes as a predictive lens for drought
Presented by: Adriana Bailey, Assistant Professor, Climate and Space Sciences and Engineering, University of Michigan

1:51-1:54 Q&A

1:55-2:01 Plaster Creek Watershed: Storytelling to Promote Public Engagement with Ecological Restoration
Presented by: Andrew Slagter, Undergraduate Student, Biology, Calvin University

2:01-2:04 Q&A

2:05-2:11 Pairing Schmidt Hammer and 10Be Data: Validating a Terrestrial Analog for Inferring Geomorphology Processes on Mars
Presented by: McKenzie Hatfield, Undergraduate Student, Environmental Science & Society, Interdisciplinary Program, Eastern Michigan University

2:11-2:14 Q&A

2:15pm - 3:15pm - Poster Session B *(Atrium)*

3:15pm - 4:15pm: Oral Presentation Session 3: Aerospace, Astronomy, and Astrobiology
(Kahn Auditorium)
Moderated by Professor Dave Pawlowski, Eastern Michigan University

3:15-3:21 Exploring the Potential to use Bio-Mining to Sustainably Extract Metals from Martian Regolith
Presented by: Charley Russell, Department of Earth and Environmental Sciences, Michigan State University

3:21-3:24 Q&A

3:25-3:31 SatNOGs and the Calvin CubeSat Project
Presented by: Neal Jacobsen, Undergraduate Student, Engineering, Calvin University

3:31-3:34 Q&A

3:35-3:41 **Modelling Multi-messenger White Dwarf Binaries Within The Milky Way**
Presented by: Ryan Beam - Grand Valley State University, Undergraduate Student, Physics, Grand Valley State University

3:41-3:44 Q&A

3:45-3:51 **Deep Groundwater Microbiology in Michigan as an Analog to Understand Extraterrestrial Environments**
Presented by: Mio Hogan, Master's Degree in Microbiology, Michigan State University

3:51-3:54 Q&A

3:55-4:01 **AJAX (Additive Jet-printed Antenna eXperiment)**
Presented by: William Bowen, Undergraduate Student, Electrical Engineering, Michigan State University; Cole Abke, Undergraduate Student, Mechanical Engineering, Michigan State University; Andrew Moy, Undergraduate Student, Mechanical Engineering, Michigan State University

4:01-4:04 Q&A

4:05-4:11 **The Impacts and Subsequent Debris that Dominate the Early Instability Scenario**
Presented by: Emily Elizondo, PhD Candidate, Department of Physics and Astronomy, Michigan State University

4:11-4:14 Q&A

4:15pm - Closing comments & Adjourn