



Advanced Materials Industrial Consortium
UNIVERSITY OF WISCONSIN-MADISON

2026 Annual Meeting on Advanced Materials & Bio-Manufacturing for Health Sciences

Monday, May 4, 2026 | 8:00 AM – 5:00 PM
Discovery Building | University of Wisconsin–Madison



WISCONSIN
MRSEC

Agenda

8:00 – 8:30 AM BREAKFAST AND REGISTRATION

8:30 AM

Welcome and Update from the College of Engineering

Devesh Ranjan, Grainger Dean of the College of Engineering, University of Wisconsin–Madison

8:40 AM

Wisconsin MRSEC Overview

Paul Voyles, Wisconsin MRSEC Director, University of Wisconsin–Madison

8:50 AM

Advancing Industry–University Partnerships: UW AMIC & OCR, Shared Facilities, and Experiential Learning

Xiujuan (Jane) Zhang, AMIC Director, OCR Research Services Engagement Manager

9:00 AM

Wisconsin Badger Tech Foundry Overview

William Murphy, Badger Tech Foundry Director, University of Wisconsin–Madison

9:10 AM

KEYNOTE: NCATS: Maximizing the Success of Translational Research

Dr. Joni L. Rutter, Director of the National Center for Advancing Translational Sciences (NCATS) at the NIH

9:50 – 10:05 AM BREAK

10:05 AM

Navigating Solid-state Pharmaceutical Design Space with Simulation and Machine Learning

Rose Cersonsky, Conway Assistant Professor, Chemical & Biological Engineering, University of Wisconsin–Madison

10:15 AM

Embracing the Interface of Polymer Science and Synthetic Extracellular Matrix Engineering

Monica L. Ohnsorg, Assistant Professor, Biomedical Engineering, University of Wisconsin–Madison

10:25 AM

Advanced Biochemical Sensors in Biomedicine

Filiz Yesilkoy, Vilas and Grainger Assistant Professor, Biomedical Engineering, University of Wisconsin–Madison

10:35 AM

KEYNOTE: Accelerating Biotech Research with Smart Data Storage Solutions

Dr. Xiaodong Carl Che, Chief Technology Officer, SVP, WD

11:05 AM

Biomanufacturing Therapeutic Cells from Human Pluripotent Stem Cells

Sean Palecek, Vilas Distinguished Achievement Professor, Chemical and Biological Engineering, University of Wisconsin–Madison

11:15 AM

Cell and Gene Therapy Biomanufacturing with CRISPR Genome Editors

Krishanu Saha, Professor, Biomedical Engineering, University of Wisconsin–Madison

11:25 AM

Industry Lightning Talk: Ibidi

Benjamin Schauer, Vice President

11:35 AM

Engineered Cells and Tissues for Disease Modeling and Regenerative Medicine

Mai Ngo, Assistant Professor, Chemical and Biological Engineering, University of Wisconsin–Madison

11:45 AM

Industry Lightning Talk: Aldevron

Tom Foti, Vice President of Scientific Partnerships

11:55 AM

Industry Lightning Talk: Proteintech

Sreethu Shankar, Senior Product Manager

12:05 – 1:00 PM LUNCH BREAK

12:45 – 1:00 PM POSTER SESSION AND INDUSTRY EXHIBITIONS – PART I

(Refer to List of Posters and Exhibitors)

AMIC and the Badger Tech Foundry strive to host inclusive and accessible events that enable all individuals to engage fully. To request an accommodation or for inquiries about accessibility, please contact Kerri Phillips at kphillips22@wisc.edu or (608) 263-4616.

1:00 PM	Engineering Approaches for the Blood-brain Barrier <i>Eric Shusta, Howard Curler Distinguished Professor, Chemical & Biological Engineering, University of Wisconsin–Madison</i>
1:10 PM	Industry Lightning Talk: Invenra <i>Bryan Glaser, Senior Vice President, Business Development</i>
1:20 PM	Self-powered Biomedical Devices for Cardiovascular Systems <i>Xudong Wang, Professor, Materials Science and Engineering, University of Wisconsin–Madison</i>
1:30 PM	Biomanufacturing Neural Organoid Models of Human Neurodevelopment <i>Randolph Ashton, Associate Professor, Biomedical Engineering, University of Wisconsin–Madison</i>
1:40 PM	Industry Lightning Talk: Promega <i>Stevens Rehen, Research Fellow</i>
1:50 PM	Industry Lightning Talk: ThermoFisher Scientific <i>Marian Piekarczyk, Senior Technical Specialist</i>
2:00 PM	Data-driven Hypothesis Generation for Biomedical Discovery <i>Yang Lu, Assistant Professor, Biomedical Engineering, University of Wisconsin–Madison</i>
2:10 PM	Industry Lightning Talk: Yahara Software <i>Garrett Peterson, Chief Strategy Officer</i>
2:20 PM	From Discovery to Dosing: CGMP Biomanufacturing for Programs that Don't Fit the Mold <i>Christopher Bartley, Managing Director, Waisman Biomanufacturing, University of Wisconsin–Madison</i>
2:30 PM	Industry Lightning Talk: RoosterBio <i>Bill King, Director of Business Development</i>
2:40 PM	KEYNOTE: Expanding Continuous Manufacturing at Pfizer, Enabling High Drug Load Formulations via Wet Granulation Technology <i>Dr. Travis Powell, Senior Principal Scientist, Drug Product Design, Pfizer Inc.</i>
3:10 – 4:00 PM	COFFEE AND DESERT BREAK
3:20 – 5:00 PM	POSTER SESSION AND INDUSTRY EXHIBITIONS – PART II <i>(Refer to List of Posters and Exhibitors)</i>
5:00 PM	CLOSING REMARKS & ADJOURN <i>Xiujuan (Jane) Zhang & Planning Committee</i>