Tuesday
July 9

6:00–8:30 pm
Registration & Welcome
Reception  Larkspur Foyer

Wednesday
July 10

7:00–8:00 am  CBE & IA Members
Coffee Talk  Boardroom

7:30–8:00 am
Registration & continental breakast  Larkspur Foyer
Meeting:  Larkspur Ballroom

8:00–8:10
Opening Remarks
Matthew Fields, Director, CBE;
Professor, Microbiology & Cell Biology, MSU
Darla Goeres, Coordinator of Industrial Development, CBE

8:10–8:50
Industrial Associate Introductions

SESSION 1: Biofilm as a System

8:50–9:00
Session Introduction
Darla Goeres

Keynote Presentation

9:00–9:45
A fascination with phenazines
Dianne Newman, Gordon M. Binder/Amgen Professor of Biology and Geobiology, Caltech

9:45–10:15 Networking Break

10:15–10:45
Title TBA
Matthew Fields

10:45–11:15
Title TBA
Ross Carlson, Professor, Chemical & Biological Engineering, MSU, CBE

11:15–12:00
Panel: Biofilm as a System
Dianne Newman
Matthew Fields
Ross Carlson
Moderator: Darla Goeres

12:00–1:30 Networking Lunch

SESSION 2: Kill, Remove, Prevent

1:30–1:35
Session Introduction
Liz Sandvik, Research Engineer, CBE

1:35–2:05
Development of a test method to evaluate antibiofilm treatments of dental unit water lines
Chris Jones, PI, Standardized Biofilm Methods Laboratory, CBE

2:05–2:35
A screening method for evaluating the antimicrobial efficacy of residential laundry products, an adaptation of BSI EN 17658:2022
Laura Gage, Senior Microbiology Manager, Arxada

2:35–3:05
NASA dormancy studies
Liz Sandvik

3:05
Transport to CBE laboratories

Poster Session and Lab Open House
3:30–5:30
3rd Floor Barnard Hall, MSU
Schedule available onsite

Thursday
July 11

7:00–8:00 am  CBE & IA Members
Coffee Talk  Boardroom

7:30–9:00 am
Registration & continental breakast  Larkspur Foyer
Meeting:  Larkspur Ballroom

8:00–9:00  IA+CBE Connect

9:00–9:05
Opening remarks
Matthew Fields, Darla Goeres

SESSION 3: Innovative Techniques for Biofilm Analysis

9:05–9:10
Session Introduction
Heidi Smith, Manager, Bioimaging Facility, CBE; Assistant Research Professor, Microbiology & Cell Biology, MSU

9:10–10:10
Title TBA
Bruce Boles, PhD Student, Civil Engineering, MSU, CBE

Methods for the visualization of multispecies biofilms
Erika Espinosa-Ortiz, Assistant Professor, Biological Engineering, Utah State University

Using Stimulated Raman Spectroscopy to study the human fecal microbiome
Jacob Schimetz, PhD Student, Chemistry & Biochemistry, MSU

10:10–10:40 Networking Break

10:40–11:10
Microsensors and food processing
Stephan Warnat, Associate Professor, Mechanical & Industrial Engineering, MSU, CBE

(Continues on next page)
11:10-11:40  Electrochemistry as a tool to understand biocorrosion
Giorgia Ghiara, Visiting Faculty, Fulbright Scholar, MSU, CBE

11:40-12:00  CBE Awards & IA Milestones

12:00-1:00 Lunch

SESSON 4: Biofilms and Water Quality

1:00-1:05  Session Introduction
Catherine Kirkland, Assistant Professor, Civil Engineering, MSU, CBE

1:05-1:30  Monochloramine induces release of DNA and RNA from bacterial cells: Quantification, sequencing analyses, and implications
Sakcham Bairoliya, Research Fellow, Civil and Environmental Engineering, Singapore Centre for Environmental Life Sciences Engineering, Nanyang Technological University
*Young Investigator Awardee

1:30-1:55  Title TBA
Ellen Lauchnor, Associate Professor, Civil Engineering, MSU, CBE

1:55-2:25 Networking Break

John Shikany, PhD Student, Chemical & Biological Engineering, MSU, CBE

2:55-3:20  Biofilms and public health
Joe Sexton, Team Lead, Biofilm and Microbial Control Laboratory, Clinical and Environmental Microbiology Branch, CDC

Friday
July 12

8:00-8:30 am
Registration & continental breakfast  Larkspur Foyer
Meeting:  Larkspur Ballroom

8:30-8:35
Opening Remarks
Matthew Fields, Darla Goeres

SESSION 5: Medicine and Healthcare

8:35-8:40  Session Introduction
Kelly Kirker, Assistant Research Professor, Chemical & Biological Engineering, MSU, CBE

8:40-9:10  Revisiting the biofilm model of wound infection
Phil Stewart, Regents Professor, Chemical & Biological Engineering, MSU, CBE

9:10-9:35  Crafting polymicrobial wound biofilm models through microbiome analysis
Jontana Allkja, Postdoctoral Researcher, Dental School and Hospital, University of Glasgow
*Young Investigator Awardee

9:35-10:05 Networking Break

10:05-10:35  2-aminoimidazoles as antibiotic adjuvants: A piece to the AMR puzzle
Amethyst Demeritte, PhD Student, Chemistry & Biochemistry, MSU, CBE

10:35-11:05  One is not the loneliest number: Using new tools to study virus infections at a single cell level
Emma Loveday, Assistant Professor, Microbiology & Cell Biology, MSU, CBE

11:05-11:35  Bacterial hibernation: A mechanism for biofilm antibiotic tolerance
Mike Franklin, Professor, Microbiology & Cell Biology, MSU, CBE

11:35-11:45  Meeting wrap-up

Mark your calendar!
CBE Pathways to Product Development Meeting
January 29-30, 2025
Washington, D.C.

The Center for Biofilm Engineering gratefully acknowledges Biofilm Journal and its publisher Elsevier for its sponsorship.

BBQ Dinner
6:00 pm
Big Yellow Barn, Bozeman