Monday
July 10

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

Tuesday
July 11

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

SESSIO 1:
Multispecies Biofilms

8:10–8:15
Session Introduction
Chris Jones, PI, Standardized Biofilm Methods Laboratory, CBE

8:15–8:45
War and Peace: Polymicrobial interactions during cystic fibrosis airway disease
Dominique Limoli, Assistant Professor, Microbiology & Immunology, University of Iowa

8:45–9:15
A biocide study for microbial control in the International Space Station Wastewater Recovery System
Liz Sandvik, Research Engineer, CBE

9:15–9:45
Using a fluorescent probe staining method and COMSAT to assess cell viability in Aspergillus niger biofilms treated with antimicrobial agents
Aswathy Shailaja, Postdoctoral Associate, Pediatrics, Duke University Medical Center
Young Investigator Award

9:45–10:15
Food fights and conflict avoidance: A systems biology analysis of contrarian Pseudomonas aeruginosa substrate preferences
Ross Carlson, Professor, Chemical & Biological Engineering, MSU, CBE

10:15–10:45 Break

10:45–11:45
Panel: Challenges & rewards of using a multispecies biofilm in the lab
Ross Carlson
Dominique Limoli
Liz Sandvik
Aswathy Shailaja
Moderator: Chris Jones

11:45–12:00
Lightning presentations
CBE Student Researchers

12:00–1:00 Lunch

SESSION 2:
Measuring Biofilm

1:00–1:30
Session Introduction
Micro-sensor technology
Stephan Warnat, Assistant Professor, Mechanical & Industrial Engineering, MSU, CBE

1:30–1:55
Imaging for biofilm characterization
Heidi Smith, Manager, Bioimaging Facility, CBE; Asst. Research Professor, Microbiology & Cell Biology, MSU

1:55–2:20
Investigating microbial biofilms as indicators of heavy metals in the Clark Fork Basin, Montana
Elliott Barnhart, Research Hydrologist, USGS

2:20–2:45
16S Ratios method for analysis of active microbial communities
Hannah Goemann, PhD student, Microbiology & Cell Biology, MSU, CBE

2:45 Transport to CBE laboratories

CBE Open House: Poster session and lab demonstrations 3:00–5:00
3rd Floor Barnard Hall, MSU
Schedule available onsite

Wednesday
July 12

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

7:30–8:00 am Registration & continental breakfast  Larkspur Foyer

SESSION 3:
Medical Biofilms & The Hospital Environment

8:05–8:15
Session Introduction
Kelly Kirker, Assistant Research Professor, Chemical & Biological Eng., MSU, CBE

(Continues on next page)
10:15-10:45 Break

10:45-11:15 Microbial biofilms and sinus infections
James Wilking, Research Scientist, Soft & Biological Materials, Mayo Clinic

State of the CBE
11:15-11:45 Matthew Fields

11:45-1:00 Lunch

SESSION 4: Biofilm & Surfaces Interactions

1:00-1:10 Session Introduction
Madelyn Mettler, PhD Student, Chemical & Biological Engineering, MSU, CBE

Keynote Presentation
1:10-1:55 What’s a surface? Surface sensing in Pseudomonas aeruginosa
Matthew Parsek, Professor, Microbiology, University of Washington

1:55-2:30 Effects of surface roughness on Microbiologically Influenced Corrosion (MIC) of copper 101 by Oleidesulfovibrio alaskensis G20
Amit Acharjee, PhD Student, Materials Science, MSU, CBE

Yagmur Keskin, PhD Student, Chemical & Biological Engineering, MSU, CBE

2:30-3:00 Mixed domain biofilm responses to coated surfaces
Madelyn Mettler

3:00-3:30 Break

Strategic Planning Meeting for CBE Members
3:30-5:00 Hilton Garden Inn

BBQ Dinner
6:00 Big Yellow Barn, Bozeman