



Montana Biofilm S&T Meeting Final AGENDA: July 16–18, 2019



8/6/2019 4:39 PM

Monday July 15

6:00–8:30 pm

Registration & welcome reception
Larkspur Foyer, Hilton Garden Inn
Bozeman

Tuesday July 16

7:30–8:00 am

**Registration & continental
breakfast**

Larkspur Foyer, Hilton Garden Inn

8:00–8:10

Introductory remarks

Larkspur Ballroom

Matthew Fields, CBE Director
Paul Sturman, CBE Industrial
Coordinator

Laura Wahlen, Research Scientist,
Baxter Healthcare

SESSION 1: Biofilm Methods

8:10–8:40

**Proposed standard method for
antimicrobial urinary catheters:
ruggedness test results**

Darla Goeres, Associate Research
Professor, Chemical & Biological
Eng., MSU; PI, Standardized
Biofilm Methods Laboratory, CBE

8:40–9:10

**Monitoring hand hygiene and its
effects on healthcare-associated
infections (HAI)**

Al Parker, Biostatistician, CBE;
Asst. Research Professor,
Mathematical Sciences, MSU

9:10–9:40

**Product-specific method
development to assess microbial
contamination**

Chris Jones, Director of R&D,
Sharklet Technologies

9:40–10:10 Networking Break

10:10–10:40

**Interlaboratory study results for
the Drip Flow Reactor**

Diane Walker, Research Engineer,
CBE

10:40–11:10

**Understanding your production
facility's microbiome using 16S
metagenomics**

Michele Sayles, Executive Director,
Food Safety and Quality,
Diamond Pet Foods

11:10–11:35

CBE Address

Matthew Fields

Poster Pitches

11:35–12:00

Presented by CBE researchers

12:00–1:00 pm

Lunch, Hilton Garden Inn

SESSION 2: Wound Biofilms

1:00–1:30

**Architecture and phylogenetic
structure of chronic wound
biofilms**

Garth James, Associate Research
Professor, Chemical & Biological
Eng., MSU; PI, Medical Biofilms
Laboratory, CBE

1:30–2:00

**Integrating symptom science with
innovative molecular measures:
Focus on understanding the
trajectory of healing vs. non-
healing in chronic venous leg
ulcers**

Joyce Stechmiller, Associate
Professor, Behavioral Nursing
Science, University of Florida

2:00–2:30

**Shifting the Paradigm: Chronic
wounds are chronic infections
caused by biofilm**

Randall Wolcott, MD, Medical
Director, Southwest Regional
Wound Center

CBE Open House: Poster session and lab demonstrations

3:00–5:00

3rd Floor Barnard Hall, MSU
Schedule available onsite

Wednesday July 17

7:30–8:00 am

**Registration & continental
breakfast**

Larkspur Foyer, Hilton Garden Inn

SESSION 3: Alternative Biocides

8:00–8:30

**Sustaining product microbial
quality in a dynamic environment**

Chuck Pettigrew, Principal
Scientist, Procter & Gamble

8:30–9:00

**Modern solutions for product
protection**

Ed Rolls, Global Account Director,
Cosmetic Ingredients Division,
Symrise

9:00–9:30

**Supplier Perspective: Alternatives
for preservation**

Julie Vaughn Biege, Global
Business Development
Director, Industrial
Products;

Rosanna Stokes, Business
Development Manager,
Consumer Products,
Emerald Kalama Chemicals

9:30–10:00

Biocidal-free future in EU. Wood protection and coating. Why and how?

Berit Lindegaard, Product Mgr.,
Danish Technological Institute

10:00–10:30 Networking Break

10:30–11:00

HCPA Microbiology Preservative Subcommittee (MPS): Supporting and enhancing the microbiological quality of consumer, household, and industrial products

Tony Rook, R&D Associate
Director, Microbiology,
The Sherwin-Williams Co.

11:00–11:30

The design, synthesis, and evaluation of new classes of antimicrobials for the control of biofilms

Tom Livinghouse, Professor,
Chemistry & Biochemistry,
MSU

11:30–11:50

Presentation of CBE awards

Matthew Fields

11:50–1:00 pm

Lunch, Hilton Garden Inn

SESSION 4:

Young Investigators

1:00–1:30

Oral biofilm-stimulated human gingival epithelium differentially regulates inflammatory responses in co-cultured immune cells

Jason Brown, Research Assistant,
University of Glasgow Dental
School

1:30–2:00

Investigation of synovial fluid induced *Staphylococcus aureus* aggregate development and its impact on surface attachment and biofilm formation

Matthew Pestrak, Graduate
Research Associate, Microbial
Infection & Immunity,
The Ohio State University

2:00–2:30

Evolution of *P. aeruginosa* in a chronic burn wound model

Erin Gloag, Postdoctoral
Researcher, Microbial
Infection & Immunity,
The Ohio State University

2:30–3:00

CBE-NBIC scientific and collaborative opportunities

Jeremy Webb, Professor,
Microbiology, University of
Southampton; Co-Director,
National Biofilms Innovation
Center

3:30–5:00

Business Meeting

Hilton Garden Inn

Dinner

6:00 pm

Hart Ranch, Gallatin Gateway

**Thursday
July 18**

7:30–8:00 am

Registration & continental breakfast

Larkspur Foyer, Hilton Garden Inn

SESSION 5:

Biofilms and Host Response

8:00–8:30

Mechanics of biofilm infection

Phil Stewart, Professor,
Chemical & Biological
Engineering, MSU, CBE

8:30–9:00

Early recruitment of neutrophils prevents *Staphylococcus aureus* biofilm formation

Brian Pettygrove, PhD Student,
Microbiology & Immunology,
MSU, CBE

9:00–9:30

***P. aeruginosa* and *S. aureus* biofilms and adaptations during chronic infections**

Dan Wozniak, Professor,
Microbial Infection & Immunity,
The Ohio State University

9:30–10:00

Breaking down the immunobiology of implant fibrosis/foreign body response

Joshua Doloff, Asst. Professor,
Biomedical Engineering,
Materials Sci. & Engineering,
Johns Hopkins University
School of Medicine

10:00–10:30 Networking Break

**SESSION 6:
Biofilms in Space**

10:30–11:00

Development of nanoengineered materials for organisms (NEMO) to resist biofilm formation in space

Kasthuri Venkateswaran, Senior
Research Scientist, California
Institute of Technology, JPL

11:00–11:30

Management of biofilms in the operation of the ISS water recovery and management system

Layne Carter, ISS Water
Subsystem Manager, NASA

11:30–12:00

Design considerations for mitigating biofilm growth on the ISS and future missions

Mononita Nur, Aerospace
Engineer, NASA

12:00–12:10

Meeting wrap up

***1:30–4:30**

NASA Session

Join our NASA speakers and attendees for a brainstorming session on maintaining wastewater systems for extended space flight
Larkspur Ballroom A, Hilton
Garden Inn