



Montana Biofilm Science & Technology *Virtual Meeting*



July 13-15, 2021

7/8/2021 3:01 PM

Draft AGENDA

****All times are Mountain Daylight Time (MDT)**

Tuesday July 13

9:15–9:25

Opening Remarks

Matthew Fields
CBE Director
Professor, Microbiology &
Immunology, MSU
Paul Sturman, CBE Industrial
Coordinator

SESSION 1: Biofilm Matrix

9:25–9:30

Session Introduction

Matthew Fields

9:30–10:10

The biofilm matrix as a cooperative and competitive trait

Hans Steenackers, Assistant
Professor, Microbial &
Molecular Systems, KU
Leuven, Belgium

10:10–10:50

Biofilm mechanics as a surface survival mechanism for them but a drag for us

Paul Stoodley, Professor,
Microbial Infection &
Immunity; Director,
Campus Microscopy &
Imaging Facility, The Ohio
State University

10:50–11:20 Break

11:20–12:00

Secreted, large-scale, extracellular membrane systems in microbial biofilms

Matthew Fields

12:00–12:40

Matrix in the context of biofilm 3D printing

Reha Abbasi, Postdoctoral
Researcher, CBE

12:40–1:00 Break

PANEL DISCUSSION

1:00–2:00

Uncovering the hidden potential and known challenges of the biofilm matrix

Matthew Fields

Sarah Finn, Senior
Microbiology Manager,
Kersia

Jan Hodges, Director, QA
& Regulatory Affairs,
Quest Medical

Hans Steenackers

Paul Stoodley

Moderator:

Darla Goeres, Research
Professor of Regulatory
Science, CBE

Co-Moderator:

Jim Wilking, Associate
Professor, Chemical &
Biological Engineering,
MSU, CBE

Wednesday July 14

9:15–9:25

Opening Remarks

Matthew Fields
Paul Sturman

SESSION 2: Medical Biofilms

9:25–9:30

Session Introduction

Garth James, PI, Medical
Biofilms Laboratory, CBE;
Assoc. Research Professor,
Chem. & Bio. Eng., MSU

9:30–10:10

The infectious microenvironment and biofilms

Thomas Bjarnsholt,
Professor, International
Health, Immunology &
Microbiology, University of
Copenhagen, Denmark

10:10–10:50

The wound microbiome

Garth James

10:50–11:20 Break

11:20–12:00

Factors that influence microbial ingress into luer activated valves for intravascular administration sets

Elinor Pulcini, Assistant
Research Professor,
Chemical & Biological
Engineering, MSU, CBE

SPECIAL PRESENTATION

12:00–12:40

Biofilms as hot spots for gene transfer

Phil Stewart, Regents
Professor, Chemical &
Biological Eng., MSU, CBE

12:40–1:00 Break

CBE virtual Open House

- Posters
- Lab Demos
- Ask the Experts

1:00–3:00

Thursday July 15

9:15–9:25

Opening Remarks

Matthew Fields
Paul Sturman

SESSION 3: Industrial Biofilms

9:25–9:30

Session Introduction

Darla Goeres

9:30–10:10

Beer draught line challenge: Biofilm vs. chemistry

Darla Goeres

10:10–10:50

Impacts of an antibacterial coating on the growth of ISS isolates for single and mixed domain biofilms

Madelyn Mettler, PhD Student, Chemical &
Biological Eng., MSU, CBE

10:50–11:20 Break

11:20–12:00

Fungal biofilms: The good, the bad, and the unknown

Erika Espinosa-Ortiz, Asst. Research Professor
Chemical & Biological Eng., MSU, CBE

12:00–12:40

Sensing slime: Microfabricated sensors to detect biofilm

Matt McGlennen, PhD Student
Mechanical & Industrial Eng., MSU, CBE

12:40–1:00 Break

Strategic Planning Meeting

1:00–2:30

CBE Industrial Associates



Thank you for participating in our meeting

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