

Center for Biofilm Engineering

07/09/10

Monday July 12

6:00–8:30 p.m.
**Pre-registration and
welcome reception**
Hilton Garden Inn, Bozeman

Tuesday July 13

7:30–8:00 a.m.
**Registration and
continental breakfast**
Hilton Garden Inn reception area

8:00–8:15
Introductory remarks
Larkspur Ballroom
Paul Sturman, CBE Industrial
Coordinator
Bill Schwingel, TAC Chair,
Masco Corp.
Phil Stewart, CBE Director

SESSION 1: **Ophthalmologic Biofilms**

8:15–8:45
Biofilms and ocular infections
Phil Stewart

8:45–9:25
**Microbial biofilms, contact lenses,
and contact lens care products**
Tim Morris, Senior Principal
Scientist, Global Development
R&D Microbiology, Bausch &
Lomb, Rochester, NY

9:25–10:05
**Contact lens-associated biofilms:
Model development and recent
advances**
Pranab Mukherjee, Assistant
Professor, Center for Medical
Mycology, Case Western Reserve
University, Cleveland, OH

10:05–10:45 Networking Break

SESSION 2: **Biofilm Fundamentals**

10:45–11:15
**Physiological roles of a
Shewanella oneidensis MR-1
PAS protein involved in oxygen
consumption, transfer to anoxia,
and biofilm formation**
Anitha Sundararajan, PhD
Candidate, Microbiology, CBE

11:15–11:45
**Factors affecting biofilm
formation by *Desulfovibrio
vulgaris* Hildenborough**
Andrew Sabalowsky, Postdoctoral
Research Associate, CBE

11:45–12:45
**Lunch catered at the Hilton
Garden Inn**

SESSION 3: **Biofilms in the Built Environment**

12:45–12:50
Session introduction
Darla Goeres, Assistant Research
Professor, CBE

12:50–1:20
**The house as a system: How it
impacts moisture in buildings**
David Bell, Director of Building
Science, Masco Contractor
Services

1:20–1:50
**Development of filamentous
fungal biofilms**
Julia Kerrigan, Assistant Professor,
Mycology, Clemson University,
Clemson, SC

1:50–2:20
**Fungal biofilms associated with
commercial carpet tile: Aspects of
preservation, sanitization and
recycling contaminants**
Daniel Price, Director, Microbiology,
InterfaceFLOR R&D

2:20–2:50
**Biofilms on exterior painted
surfaces: What grows and why**
Gary Horacek, Director, Technical
Microbiology Services, Troy Corp.

2:50–3:20 Break

3:20–3:50
**Microbial colonization of
nonporous surfaces in a
workplace and residential indoor
environment**
Jayne Morrow, Environmental
Engineer, Biochemical Science
Division, NIST

3:50–4:20
**The lungs of our built
environments: The hunt for
biofilms and beyond**
W. Curtis White, President, White
IEQ Consultants, LLC

4:20–4:45
Biofilms in premise plumbing
Anne Camper, Professor, Civil
Engineering, CBE

4:45–5:10
***Legionella* and other
microorganisms in biofilms from a
hot water system**
Barry Pyle, Research Professor,
Microbiology, MSU

Wednesday July 14

7:30–8:00 a.m.
Registration and continental breakfast
Hilton Garden Inn reception area

SESSION 4: Biofilm Methods

8:00–8:05
Session introduction
Darla Goeres

8:05–8:35
Anti-fouling betaine modifications for medical devices and industrial application
Christopher Loose,
Chief Technology Officer,
Semprus Biosciences

8:35–9:05
Use of laser capture microdissection to characterize biofilm heterogeneity
Mike Franklin, Associate Professor,
Microbiology, MSU

9:05–9:35
FISHing in biofilm: Advanced *in situ* molecular techniques and 3D image analysis
Kristen Brileya, PhD Candidate,
Microbiology, CBE

9:35–10:05
Healthcare-related pathogen disinfection and survival in a four-species potable water biofilm
Margaret Williams, Research
Microbiologist, Centers for
Disease Control and Prevention

10:05–10:35 Break

10:35–11:00
Biofilm efficacy test: Validation of the single tube protocol
Kelli Buckingham-Meyer, Research
Assistant, CBE

11:00–11:30
Statistically assessing limits of detection and performance standards
Albert Parker, Biostatistician and
Research Engineer, CBE

11:30–12:00
Development of a biofilm coupon holder and sampling test kit
Kevin Cook,
Assistant Professor, Mechanical
and Industrial Engineering & CBE,
MSU

12:00–1:00
Lunch catered at the Hilton Garden Inn

Special Presentation

1:00–1:30
State of the CBE Address
Phil Stewart

1:30–2:30
CBE Business Meeting

Poster Session & Laboratory Open House

3:00–5:00
CBE Laboratories, 3rd Floor EPS
Building, MSU

6:00–9:00 **Dinner, Catered at Rockin' TJ Ranch, Bozeman**

Thursday July 15

7:00–8:00 a.m.
Biofilm Methods Advisory Committee Meeting
Darla Goeres and Paul Sturman

7:30–8:00 a.m.
Continental breakfast
Hilton Garden Inn reception area

SESSION 5: Wound Biofilms

8:00–8:30
Recent advances in the characterization of human chronic wound biofilm
Anne Han, Wound Fellow,
Department of Dermatology,
Johns Hopkins Bayview Medical
Center

8:30–9:00
Chronic wound healing in biofilm-challenged diabetic mice
Ge Alice Zhao, Senior Fellow,
Division of Dermatology,
Department of Medicine,
University of Washington

9:00–9:30
Defining the impact of microbes in chronic wounds: A biofilm reactor
Hamed Motlagh, MPH Candidate,
West Virginia University

9:30–10:00
Wound biofilm research at the CBE
Garth James, Medical Projects
Manager, CBE

10:00–10:30 Break

SESSION 6: Systems Analysis of Biofilms

10:30–11:00
Molecular level *in silico* analysis of mass and energy flows in microbial communities
Ross Carlson, Assistant Professor,
Chemical and Biological
Engineering, CBE

11:00–11:30
Characterization, classification, and analysis of undefined biofilm communities using molecular techniques
Brent Peyton, Professor, Chemical
and Biological Engineering, CBE

11:30–12:00
Microbial community dynamics associated with different environments and processes
Matthew Fields, Assistant Professor,
Microbiology, CBE

12:00–12:10
Meeting Wrap Up

See you at the 2011 MEETINGS:

FEBRUARY 8-9, 2011

JULY 12-14, 2011
