

# Center for Biofilm Engineering

06/11/10

## Monday July 12

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

## Tuesday July 13

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**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, Dermatology, Case  
Medical Center

**10:05–10:45 Networking Break**

### SESSION 2: **Biofilm Fundamentals**

**10:45–11:15**  
**Effects of dissolved oxygen on  
growth of *Desulfovibrio vulgaris*  
in planktonic and biofilm cultures**  
Anitha Sundararajan, PhD  
Candidate, Microbiology, CBE

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

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

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### 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

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

**2:20–2:50**  
**Biofilms on painted surfaces:  
What grows and does this growth  
equal a biofilm?**  
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**  
Curt White, President, White  
IEQ/Medetex

**4:20–4:45**  
**Biofilms in premise plumbing**  
Anne Camper, Professor, Chemical  
and Biological 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

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

### SESSION 4: **Biofilm Methods**

**8:00–8:30**  
**Anti-fouling betaine modifications  
for medical devices and industrial  
application**  
Chris Loose, Chief Technology  
Officer, Semprus Biosciences

8:30–9:00

**Use of Laser capture  
microdissection to characterize  
biofilm heterogeneity**

Mike Franklin, Associate Professor,  
Microbiology, MSU

9:00–9:30

**FISHing in biofilm: Advanced *in  
situ* molecular techniques and 3D  
image analysis**

Kristen Brileya, PhD Candidate,  
Microbiology, CBE

9:30–10:00

**A four-species potable water  
biofilm developed to investigate  
healthcare-related pathogen  
survival and disinfection**

Margaret Williams, Research  
Microbiologist, Centers for  
Disease Control and Prevention

**10:00–10:30 Break**

10:30–11:00

**Biofilm efficacy test: Validation of  
the single tube method**

Kelli Buckingham-Meyer, Research  
Assistant, CBE

11:00–11:30

**Statistically assessing  
performance standards and limits  
of detection**

Al Parker, Research Statistician,  
CBE

11:30–12:00

**Implementing a formal  
mechanical engineering design  
and build process towards the  
development of a biofilm coupon  
holder and sampling test kit**

Kevin Cook, Assistant Professor,  
Mechanical Engineering

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12:00–1:00

**Lunch catered at the Hilton  
Garden Inn**

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**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**

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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

**Novel molecular techniques to  
characterize the role of microbial  
flora in the pathogenesis of  
chronic wounds**

Anne Han, Wound Fellow,  
Department of Dermatology,  
Johns Hopkins Bayview Medical  
Center

8:30–9:00

**Characterization of biofilm  
infected wounds in diabetic mice**

Ge (Alice) Zhao, Senior Fellow,  
Division of Dermatology,  
Department of Medicine,  
University of Washington

9:00–9:30

**Biofilms and chronic wounds:  
Anti Koch**

John Thomas, Professor, Pathology,  
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  
metabolic interactions in biofilms**

Ross Carlson, Assistant Professor,  
Chemical and Biological  
Engineering, CBE

11:00–11:30

**Characterization 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**

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***See you at the next***

***2011 MEETINGS***

***FEBRUARY 8-9, 2011***

***JULY 12-14, 2011***

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