

Center for Biofilm Engineering

01/30/08

Tuesday February 5

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

Wednesday February 6

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

8:30–8:45
Introductory remarks
Larkspur Ballroom
Paul Sturman, CBE Industrial
Coordinator
Ruth Cutright, W.L. Gore,
TAC Chair
Phil Stewart, CBE Director

Keynote Presentation

8:45–9:30
**Biofilm dispersal: Molecular
mechanisms to control strategies**
Jeremy Webb, School of Biological
Sciences, University of
Southampton, UK

SESSION 1: Industrial Biofilm Investigations

9:30–9:35
Session Introduction
Paul Sturman

9:35–10:10
**Overview of biofilm detachment
mechanisms**
Brent Peyton, Professor,
Chemical & Biological
Engineering, CBE

10:10–10:40 Break

10:40–11:05
**Biofilms in bioenergy and carbon
sequestration**
Robin Gerlach, Assistant Professor,
Chemical & Biological
Engineering, CBE

11:05–11:30
**Biocontrol studies at Novozymes
Biologicals**
Sarah McHatton, Novozymes

11:30–12:00
**Transcriptomics and molecular
techniques for biofilm
investigation in industrial systems**
Matthew Fields, Assistant Professor,
Microbiology, CBE

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

SESSION 2: Visualizing Biofilms

1:00–1:10
Session Introduction
Phil Stewart

1:10–1:35
**A quantitative description at
multiple scales of observation of
accumulation and displacement
patterns in single- and dual-
species biofilms**
Anne Camper, Professor, Civil
Engineering, CBE

1:35–2:00
**Recent advances in cellular
automata modeling of
multispecies biofilm systems**
Al Cunningham, Professor, Civil
Engineering, CBE

2:00–2:30
**Fluorescence hyperspectral
imaging of biofilms**
Howland Jones, Sandia National
Laboratories

2:30–3:00
**Direct visualization of
antimicrobial action within
model oral biofilms**
Phil Stewart

Poster Session & Laboratory Open House

3:30–5:30
CBE Laboratories, 3rd Floor EPS
Building, MSU

Dinner: Restaurant of your choice

7:30–9:00 Hilton Garden Inn
**Evening Session:
Biofilms Methods Advisory
Committee Meeting**

Thursday February 7

7:30–9:00 a.m.
TAC Business Meeting (Industrial
Associate Representatives) with
breakfast, Larkspur Ballroom
8:00–9:00 a.m.
Continental breakfast
Hilton Garden Inn reception area

SESSION 3: Health Care-Related Biofilms

9:00–9:10
Session Introduction
Garth James, CBE Medical Projects
Manager

9:10–9:40
**Bacterial biofilms contribute to
pathogenesis of chronic
rhinosinusitis (CRS): A new target
for therapy**
Martin Desrosiers, Associate
Professor, Department of
Otolaryngology, University of
Montreal, Canada

9:40–10:10
**Molecular characterization of
wound biofilm communities**
Pat Secor, PhD Candidate,
Cell Biology & Neuroscience, MSU

10:10–10:30
**Biofilm wound infection in a
diabetic (db/db) mouse**
Phillip Hochwalt, Department of
Medicine, University of
Washington

10:30–11:00 Break

11:00–11:30
**Staphylococcus aureus biofilms
prevent scratch wound closure in
vitro**
Kelly Kirker, Research Scientist,
CBE

11:30–12:00
**Production of cell-cell signaling
molecules by biofilm bacteria
isolated from human chronic
wounds**

Alex Rickard, Assistant Professor,
Biological Sciences, Binghamton
University, Binghamton, NY

12:00–12:10 Meeting Wrap up