

Center for Biofilm Engineering

07/23/07

Monday July 23

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

Tuesday July 24

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

SESSION 1: **Wound Biofilms**

8:45–8:50
Session introduction
Garth James, Medical Projects
Manager, CBE

8:50–9:15
Biology of wound healing
John Olerud, MD, Professor of
Dermatology, University of
Washington

9:15–9:45
Advances in wound microbiology
Philip Bowler, Director,
Anti-Infectives & Microbiology,
Wound Therapeutics Global
Development Centre, ConvaTec,
Flintshire, UK

9:45–10:00
**Overview of the Center for Wound
Biofilm Research**
Phil Stewart

10:00–10:30 Break

10:30–10:50
In vitro models of wound biofilms
Garth James

10:50–11:10
**Preclinical modeling:
Studies on wound healing**
Stephen Davis, Research Associate
Professor of Dermatology,
University of Miami, Miller School
of Medicine

11:10–11:30
Biofilm models in acute wounds
Patricia Mertz, Professor of
Dermatology, University of
Miami, Miller School of Medicine

11:30–12:00
Biofilm based wound care
Randy Wolcott, MD,
Southwest Regional Wound Care
Center

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

SESSION 2: **Special Presentations**

1:00–1:30
State of the CBE: 2007
Phil Stewart

1:30–2:00
**Regulatory presentation:
An update on federal activities**
Stephen Tomasino, Senior Scientist,
US EPA-OPP Microbiology
Laboratory, Fort Meade, Maryland

2:00–2:30
**Caserna, nanowires, signal
vesicles and flying buttresses:
Baroque architecture in biofilms**
Bill Costerton, Director, Center for
Biofilms, School of Dentistry,
University of Southern California

2:30–2:50 Break

2:50–3:20
**Biocide industry: Past, present
and future challenges for
biocontrol**
Michael V. Enzien, Senior Research
& Development Specialist, DOW
Biocides, The Dow Chemical
Company

SESSION 3: **Biofilm Behavior and Control**

3:20–3:40
**Examination of scCO₂ effects
against *Bacillus mojavensis*
biofilms**

Adie Phillips, Research
Engineer, CBE

3:40–4:00
**Influence of EPS and natural
organic matter on biofouling of
microfiltration membranes
coupled with powdered activated
carbon (PAC)**

Mohiuddin Md. Taimur Khan,
Assistant Research Professor, CBE

4:00–4:20
**Investigations of dormant cells
in *Pseudomonas aeruginosa*
biofilms**

Brenda Grau, Postdoctoral
Researcher, CBE

SESSION 4: **Biofilm Methods**

4:20–4:45
**Methods of assessing efficacy of
antimicrobial surfaces: A review**
Diane K. Walker, Research
Engineer, CBE

4:45–5:10
**Transcriptomes and proteomes:
Identification of physiological
constraints related to biofilm
growth**
Matthew Fields, Assistant Professor,
Microbiology, Montana State
University

7:30–9:00
**Evening Session:
Biofilm Methods Advisory
Committee**

Wednesday July 25

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

Special Presentation **8:30–9:30**

**Predatory prokaryotes: Thinking
outside the bug**
Daniel Kadouri, Assistant Professor,
Department of Oral Biology &
the Center for Oral Infectious
Diseases, University of Medicine
and Dentistry of New Jersey,
Newark

SESSION 5: **Biofilms in Water Venues**

9:30–9:40
Session introduction
Darla Goeres, Senior Research
Engineer, CBE

9:40–10:10
**Disease outbreaks in recreational
water**
Michael J. Beach, Acting Associate
Director for Healthy Water,
National Center for Zoonotic,
Vector-Borne and Enteric
Diseases, Centers for Disease
Control and Prevention

10:10–10:40 Break

10:40–11:10
**Drinking water issues in
developing countries**
Tim Ford, Department Head,
Microbiology, Montana State
University

11:10–11:35
**Drinking water treatment
strategies and regulations**
Anne Camper, Professor of Civil
Engineering, CBE

11:35–12:00
**Understanding the importance of
biofilm in recreational water**
Darla Goeres

Lunch: On your own

2:00–4:00
**Laboratory open house exposition
and poster session**
CBE Laboratories, 3rd Floor, EPS
Building

3:30–5:00
TAC Business Meeting
108 EPS Building, MSU

6:00–9:00
Dinner at the Rock'n TJ Ranch,
Bozeman

Thursday July 26

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

SESSION 6: **Microscopy**

8:30–8:45
Session introduction & new stains
Betsey Pitts, Research
Associate, CBE

8:45–9:05
**Examination of tissue specimens
for biofilms**
Alessandra Agostinho, Research
Scientist, CBE

9:05–9:25
**Use of laser capture
microdissection microscopy and
qRT-PCR to characterize gene
expression in biofilms**
Ailyn Lenz, PhD Candidate,
Microbiology, Montana State
University

9:25–9:45
**Extended lifetime of unstable GFP
in *Escherichia coli* colony biofilm**
Audrey Corbin, Research
Associate, CBE

9:45–10:05
**Film Fest: Movies of biofilm
obliteration, annihilation, doom
and destruction**
Willy Davison, PhD Candidate,
Chemical Engineering, Montana
State University

10:05–10:30 Break

SESSION 7: **Fungal Biofilms**

10:30–10:55
**Functional subpopulations in
Candida albicans biofilms**
Peter Suci, Assistant Research
Professor, Plant Sciences,
Montana State University

10:55–11:20
**Small novel molecules inhibit
signaling pathways and hyphal
formation in *Candida albicans***
Kurt Toenjes, Assistant Professor,
Department of Biological and
Physical Sciences, MSU–Billings

Special Presentation

11:20–11:50
**Highlights from the ASM Biofilms
2007 Conference**
Phil Stewart

11:50–12:00
Meeting Wrap-Up

NEXT TAC:

Feb. 7-8, 2008