

Center for Biofilm Engineering

01/30/06

Wednesday February 1

6:00–8:00 p.m.
Pre-registration and
welcome reception
GranTree Inn
North 7th Ave, Bozeman

Thursday February 2

8:00–8:45 a.m.
Registration and
continental breakfast
Strand Union Building (SUB)
Ballrooms B and C

8:45–9:00
Introductory remarks
SUB Ballroom D
Paul Sturman, CBE Industrial
Coordinator
Mel Czechowski, Church &
Dwight, TAC Chair
Robert Marley, Dean, MSU
College of Engineering
Phil Stewart, CBE Director

SESSION 1: Biofilm Control

9:00–9:10
Session introduction
Phil Stewart

9:10–10:00 KEYNOTE PRESENTATION

Using iron to manipulate
Pseudomonas aeruginosa
biofilms

Peter Greenberg, Chair and
Professor of Microbiology,
University of Washington

10:00–10:30
Enhancing antibiotic
susceptibility of *Pseudomonas*
aeruginosa biofilms by
quorum sensing inhibition
Caol Huff, CBE PhD Candidate,
Chemistry

10:30–10:50 Break

10:50–11:10
Dormant cells in *Pseudomonas*
aeruginosa biofilms
Lee Richards, CBE PhD
Candidate, Chemical &
Biological Engineering

SESSION 2: Biofilm Structure

11:10–11:20
Session introduction
Zbigniew Lewandowski,
CBE Professor, Civil
Engineering

11:20–11:45
Structure and activity of
Pseudomonas aeruginosa
PAO1 biofilms
Raaja Raajan Angathevar
Veluchamy, CBE MS
Candidate, Environmental
Engineering

11:45–12:00
Characterization of
Campylobacter jejuni
biofilm formation
Vildan Caner, Visiting Scientist,
Assistant Professor in the
Molecular Microbiology Lab,
School of Medicine with
Pamukkale University,
Denizli, Turkey

12:10–1:00
Lunch, catered
SUB Ballrooms B and C

SESSION 3: Phage Interactions with Biofilm

1:00–1:40
Viruses/phage: Biofilm
players...but what else?
Rick Veeh, CBE Senior Research
Associate

1:40–2:10
Cage-based MRI contrast
agents for diagnosis of biofilm
infections
Peter Suci, CBE Assistant
Research Professor,
Microbiology

2:10–2:40
Display phage technology:
Development of peptide
aptamers for the detection
and neutralization of toxins
Joe Fralick, Professor,
Microbiology, Texas Tech

2:40–3:00 Break

SESSION 4: Medical Biofilms

3:00–3:30
Plant derived biofilm
inhibitors
Garth James, CBE Medical
Projects Manager and
High throughput 96-well
screening
Amy Martin, CBE
Undergraduate Researcher

3:30–4:00
A laboratory model of wound
biofilms
Ellen Swogger, CBE Laboratory
Technician, and
Community analysis of chronic
wounds using molecular
techniques
Pat Secor, CBE Undergraduate
Researcher

SPECIAL PRESENTATION

4:00–4:30
The two-photon "capture"
microscope: A slime guy's
fervent dream
Bill Costerton, Director, Center
for Biofilms, School of
Dentistry, University of
Southern California

FDA PRESENTATION

4:30–5:00
FDA regulatory outlook:
How to get a submission
approved by the U.S. FDA
Victoria Hitchins, Scientist
Director, Division of Biologics,
Office of Science and
Engineering Laboratories,
Center for Devices and
Radiological Health, FDA

Poster Session

5:00–6:00

Poster session

Ballrooms B and C

6:00

Dinner

Catered, Ballroom B and C

7:00

Business meeting

Ballroom A

*(for Industrial Associate
designated representatives only)*

Friday February 3

8:00–8:45 a.m.

Registration and
continental breakfast
Strand Union Building (SUB)
Ballrooms B and C

SESSION 5:

The Biofilm Matrix

8:45–9:30

The biofilm extracellular
matrix
Phil Stewart

9:30–10:10

Dyed and buried...how to use
stains and dyes to uncover
information in biofilms - an
informal discussion of VERY
recent CBE experience with
microscope stains

Betsey Pitts, CBE Research
Associate/Facilities Manager,
Microscopy

10:10–10:50

The role of staphylococcal
extracellular polymers in
biofilm formation and immune
evasion

Michael Otto, Principal
Investigator, Rocky Mountain
Laboratories, National
Institute of Allergy and
Infectious Diseases, The
National Institutes of Health

10:50–11:10 Break

11:10–11:30

Exotoxin expression during
biofilm growth of
Pseudomonas aeruginosa
Ailyn Lenz, PhD Candidate,
Microbiology

11:30–11:50

Manipulating the shear strain
response through cation
cross-linkage of the EPS
Mike Sutton, CBE
Undergraduate Researcher,
Mechanical Engineering

11:50 – 12:00

Session/Meeting wrap-up and
industry comment

**NEXT TAC
JUNE 20-22, 2006**