

07/12/2011

Monday July 11

6:00–8:30 p.m.

Pre-registration & welcome reception

Larkspur Foyer, Hilton Garden Inn, Bozeman

Tuesday July 12

7:30–8:00 a.m.

Registration & continental breakfast

Larkspur Foyer, Hilton Garden Inn

8:00–8:15

Introductory remarks

Larkspur Ballroom

Paul Sturman, CBE Industrial Coordinator
Harsh Trivedi, IA Chair, Colgate-Palmolive
Phil Stewart, CBE Director

SESSION 1: Biofilm Dispersion

8:15–9:00

Escape from the matrix!

Richard Losick, Professor, Biology, Harvard University

9:00–9:40

Marine alkaloid derivatives that inhibit and disperse bacterial biofilms

Christian Melander, Co-Founder & Chief Research Officer, Agile Sciences
Associate Professor, Chemistry, North Carolina State University

9:40–10:10

Imaging biofilm dispersion...or not!

Betsy Pitts, Research Associate & Microscope Facilities Manager, CBE

10:10–10:40 Break

10:40–11:20

Dispersal of methicillin-resistant *Staphylococcus aureus* biofilms

Alex Horswill, Associate Professor, Microbiology, University of Iowa

11:20–11:50

Immersed boundary model of biofilm deformation and detachment in response to fluid flow

Jeff Heys, Assistant Professor, Chemical & Biological Engineering, MSU

11:50–1:00

Catered lunch at the Hilton Garden Inn

CBE Open House

CBE Laboratories, 3rd Floor EPS Building, MSU

1:50–3:30

Lab demonstrations

3:30–5:00

Poster session

*Detailed schedule provided at registration

Wednesday July 13

7:30–8:00 a.m.

Registration & continental breakfast

Larkspur Foyer, Hilton Garden Inn

SESSION 2:

Metals, Microbes & Microbially Influenced Corrosion (MIC)

8:00–8:30

Methods for the study of extracellular electron transfer in electrode-associated biofilms using *Geobacter sulfurreducens* as a model

Ashley Franks, Research Assistant Professor, University of Massachusetts Amherst; Senior Lecturer, La Trobe University, Australia

8:30–9:00

Chromium (VI) reduction by environmental microbes – Influence of common soil constituents and carbon sources on chromium (VI) reduction and toxicity

Robin Gerlach, Associate Professor, Chemical & Biological Engineering, CBE

9:00–9:30

In situ microbial reduction of selenium in backfilled phosphate mine overburden, S.E. Idaho

Lisa Kirk, PhD, Land Resources & Environmental Science, CBE

9:30–10:00

Treatment of mine water using MBBR technology

Caroline Dale, Biological Principal Engineer, Veolia Water
Scott Benowitz, P.E., President, Water Engineering Technologies, Inc.

10:00–10:30 Break

10:30–11:00

Investigating biofilm-influenced corrosion using molecular tools

Iwona Beech, Professor, Botany & Microbiology, University of Oklahoma

11:00–11:30

Special Presentation: Bacteria in the food industry—biofilm, survival, control

Trond Møretrø, PhD, Research Scientist, Nofima Food, Norway

11:30–12:00

State of the CBE address

Phil Stewart

12:00–1:00

Catered lunch at the Hilton Garden Inn

SESSION 3: Systems Biology

1:00–1:30

Transcriptome analysis of biofilm physiology

Phil Stewart

1:30–2:00

Characterization of biofilm heterogeneity using transcriptome approaches

Mike Franklin, Associate Professor,
Microbiology, CBE

2:00–2:30

Proteomic and physiological support for the stoichiogenic analysis of metabolic networks under nutrient limitation

Reed Taffs, PhD Candidate,
Chemical & Biological
Engineering, CBE

2:30–3:15

Medical devices: The changing FDA landscape

Craig Coombs, President, Coombs
Medical Device Consulting

3:15–3:30 Break

3:30–4:30

CBE Industrial Associates Business Meeting

6:00–9:00

Banquet

Rockin TJ Ranch, Bozeman

9:30–10:00 Break

10:00–10:30

Biofilms, oxygen, and wound healing

Garth James, CBE Medical Projects
Manager, Associate Research
Professor, Chemical & Biological
Engineering, MSU

10:30–11:00

Intracellular pathogens and host cytoskeletal structures

Kelly Kirker, Research Scientist,
CBE

11:00–11:30

Electric current effects on biofilm

Liz Sandvik, PhD Candidate,
Chemical & Biological
Engineering, CBE

11:30–11:45

Meeting Wrap-up

2012 Meeting Dates:

February 7–8, 2012

July 17–19, 2012

Thursday July 14

7:30–8:00 a.m.

Registration & continental breakfast

Larkspur Foyer, Hilton Garden Inn

SESSION 4:

Biofilm Methods

8:00–8:30

Standard biofilm methods: A roadmap to anti-biofilm claims for medical devices

Nick Allan, Contract Research
Manager, Innovotech, Inc.

8:30–9:00

Using equivalence testing in microbiology

Albert Parker, Statistician &
Research Engineer, CBE

SESSION 5:

Medical Biofilms

9:00–9:30

Selective killing of biofilm pathogens

Peter Suci, Research Assistant
Professor, Plant Sciences &
Plant Pathology, CBE