

07/18/2012

Monday **July 16**

6:00–8:30 p.m.

Pre-registration & welcome reception

Larkspur Foyer, Hilton Garden Inn, Bozeman

Tuesday **July 17**

7:30–8:00 a.m.

Registration & continental breakfast

Larkspur Foyer, Hilton Garden Inn

8:00–8:10

Introductory remarks

Larkspur Ballroom

Paul Sturman, CBE Industrial Coordinator

Harsh Trivedi, IA Chair, Colgate-Palmolive

Phil Stewart, CBE Director

SESSION 1:

Anti-Biofilm Coatings

8:10–8:40

Vascular access product with non-leaching betaine modification reduces microbial attachment

Roger Smith, Head of Microbiology, Semprus BioSciences

8:40–9:10

Linking antimicrobial peptides to implant surfaces

Dirk Lange, Assistant Professor, Urologic Sciences, University of British Columbia

9:10–9:40

Evaluation of antimicrobial PICC catheters using an ovine model

Elinor Pulcini, CBE Medical Research Manager, Assistant Research Professor, Chemical & Biological Engineering, MSU

9:40–10:10 Break

10:10-10:40

N-halamine biocidal copolymers for coatings and latex paints

Idris Cerkez, Postdoctoral Researcher, Auburn University

SESSION 2:

Industrial Biofilms

10:40–11:10

Online biofilm monitoring in industrial systems

Paul Sturman

11:10–11:40

From corrosion to pathogenesis: The role of bacterial nanowires in diverse microbial biofilms

Yuri Gorby, Associate Professor, Marine Environmental Biology, University of Southern California

11:40–12:10

Applications of molecular ecology for industrial purposes

Chiachi Hwang, Industrial Research Scientist, CBE

12:10–1:10

Catered lunch, Hilton Garden Inn

CBE Open House: Lab demonstrations and poster session

2:00–5:00

CBE Laboratories, 3rd Floor EPS Building, MSU

Detailed schedule provided at registration

Wednesday **July 18**

7:30–8:00 a.m.

Registration & continental breakfast

Larkspur Foyer, Hilton Garden Inn

SESSION 3:

Wound Biofilms

8:00–8:40

Wound biofilms: Clinical insights attained from animal models

Robert Galiano, Assistant Professor, Plastic Surgery, Feinberg School of Medicine, Northwestern University

8:40-9:20

Interbacterial communication in chronic wounds

Alex Rickard, Assistant Professor, Biological Sciences, University of Michigan

9:20-10:00

Molecular diagnostics and personalized medicine in wound care: Assessment of outcomes

Randy Wolcott, MD, Medical Director, Southwest Regional Wound Clinic

10:00–10:30 Break

10:30–11:10

Antimicrobials vs. polymicrobial biofilms: In vitro studies using wound-colonizing bacteria

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

11:10-11:40

Interfering with quorum sensing: Exploring the potential of combination therapy to treat chronically infected wounds

Gilles Brackman, Postdoctoral Researcher, Laboratory of Pharmaceutical Microbiology, University of Ghent, Belgium

11:40–12:00

State of the CBE address

Phil Stewart

12:00–12:10

CBE Award Presentations:

Outstanding Researcher
Student Citizen
Phil Stewart

12:10–1:10

Catered lunch, Hilton Garden Inn

SESSION 4:

Energy & Environmental Biofilms

1:10–1:35

Overview of CBE energy and environmental biofilm research

Al Cunningham, Professor, Civil Engineering, CBE

1:35–2:00

**Well leakage mitigation using
biomineralization**

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

2:00–2:25

**Imaging, microanalysis, and
modeling of the microbially
induced CaCO₃ precipitation
process**

James Connolly, PhD Student,
Environmental Engineering, CBE

2:25–2:50

**In situ and laboratory enriched
microbial community composition
and function associated with coal
bed methane from Powder River
Basin coals**

Elliott Barnhart, PhD Student,
Microbiology, CBE

2:50–3:15

**Potential role of carbon fixation
pathways during bio-oil
accumulation in *Phaeodactylum
tricornutum***

Jake Valenzuela, PhD Student,
Chemistry & Biochemistry, CBE

3:15–3:30 Break

3:30–4:30

**CBE Industrial Associates
Business Meeting**

6:00–9:00

Banquet

Rockin TJ Ranch, Bozeman

**Thursday
July 19**

7:30–8:00 a.m.

**Registration & continental
breakfast**

Larkspur Foyer, Hilton Garden Inn

SESSION 5:

Biofilm Methods

8:00–8:30

**In vitro studies of *Legionella
pneumophila* grown as mono- and
multi-species biofilms**

Danielle Orr, Undergraduate
Student, Microbiology, CBE

8:30–9:00

**A new flow cell for time-lapse
confocal microscopy**

Betsey Pitts, Senior Research
Associate, Microscope Facilities
Manager, CBE

9:00–9:30

**Correlation of the single tube
method and the treatment flow
cell: Log reductions and confocal
microscopy**

Kelli Buckingham-Meyer, Research
Assistant, CBE

9:30–10:00 Break

SESSION 6:

Biofilm Control

10:00–10:30

Antimicrobials vs. biofilms:

A review

Phil Stewart

10:30–11:15

**Ignorance, bliss, and antibiotic
tolerance of nutrient-limited
bacteria**

Pradeep Singh, Associate Professor,
Microbiology, University of
Washington

11:15–11:45

Microbial Defense Systems:

**Advanced biofilm eradication
technology**

Chris Samuel, Vice President, Sales
and Marketing, Microbial Defense
Systems

11:45–12:00

Meeting Wrap-up

2013 Meeting Date:

February 5–6, 2013