

Center for Biofilm Engineering

02/05/2010

Monday February 8

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

Tuesday February 9

7:30–8:00 a.m.
**Registration and
continental breakfast**
Hilton Garden Inn reception area

8:00–8:15
Introductory remarks
Larkspur Ballroom
Paul Sturman, CBE Industrial
Coordinator
Bill Schwengel, Masco, TAC Chair
Phil Stewart, CBE Director

SESSION 1: **Industrial Water Treatment**

8:15–8:20
Session introduction
Anne Camper, Professor, Civil
Engineering and Associate Dean,
College of Engineering

8:20–8:50
Keynote speaker:
**Biofilm control in industrial
processes**
Laura Rice, Research Scientist,
Process Research,
Nalco Company

8:50–9:10
**Recycled/reclaimed water:
Synopsis of workshops**
Anne Camper, Professor, CBE

9:10–9:40
**Biofilms in water treatment:
An industry perspective**
Ben Klayman, Water Process
Engineer, Black & Veatch
Corporation

9:40–10:00
**Extremophile survival in industrial
water**
Abigail Richards, Assistant
Professor, Chemical and
Biological Engineering, CBE

10:00–10:30 Break

SESSION 2: **Enzymes and Biofilms**

10:30–11:00
**Biofilms: If you can't beat 'em,
join 'em**
Sarah McHatton, R&D Group
Leader, Institutional & Household
Products, Novozymes Biologicals,
Inc.

11:00–11:30
**Dispersin B antibiofilm enzyme:
Scientific and commercial
perspectives**
Sri Madhyastha, Chief Scientific
Officer, Kane Biotech, Inc.

11:30–12:00
**Disruption of *Pseudomonas
aeruginosa* biofilms by enzymes**
Phil Stewart, CBE Director

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

1:00–1:25
**Next generation sequencing:
Implications for biofilm research**
Seth D'Imperio, Visiting Scientist,
Novozymes Biologicals, Inc.
(former CBE Postdoctoral
Researcher)

1:25–1:50
Algal biofuels
Brent Peyton, Professor, Chemical
and Biological Engineering;
Associate Director, Thermal
Biology Institute

1:50–2:20
**Highlights from recent biofilm
meetings**
Phil Stewart

2:20–2:40
**Social evolution theory and
biofilms**
Joao Xavier, Assistant Professor,
Computational Biology, Sloan-
Kettering Institute, New York

2:40–3:00
**Regulation of toxicity in
Pseudomonas aeruginosa
biofilms by the magnesium
transporter MgtE**
Gregory Anderson, Assistant
Professor, Indiana University-
Purdue University, Indianapolis

Poster Session & Laboratory Open House

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

Wednesday February 10

7:00–8:00 a.m.
**Biofilms Methods Advisory
Committee Meeting**
Larkspur Ballroom

7:00–8:00 a.m.
**Registration and
continental breakfast**
Hilton Garden Inn reception area

SESSION 3: **Healthcare Associated Biofilms**

8:00–8:40
**Session introduction
Lessons from medical device
testing**
Garth James, CBE Medical Biofilm
Laboratory Manager

8:40–9:10

Making health care-associated infections go away: Embracing a biofilm strategy

Deborah Burton, Vice President and Chief Nursing Officer, Providence Health & Services, Renton, WA;
Marly Christenson, System Director, Clinical Transformation, Providence Health & Services

9:10–9:40

Review of healthcare associated infections (HAI) on medical devices

Elinor Pulcini, Research Scientist, CBE
Diane Walker, Research Engineer, CBE

9:40–10:10

Vascular catheter infections. . . technical challenges for industry

Marcia Ryder, Consultant, Ryder Science

10:10–10:40 Break

10:40–11:05

Keratinocytes produce pro-inflammatory markers in *Staphylococcus aureus* biofilm infection

Pat Secor, PhD candidate, Cell Biology, CBE

11:05–11:30

Pressure ulcers: The human element

Karen Zulkowski, DNS, RN, CWS; Associate Professor, Nursing, MSU

11:30–11:55

Targeting microbial biofilms with protein cage nanoplatfoms

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

12:00

Meeting Wrap up

See you at the next

2010 MEETING

JULY 12–15, 2010
