Wednesday
February 5

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

10:30–10:50
A Review of Ultrasound-
Mediated Drug Delivery
Pierre D. Mourad, PhD, Center
for Industrial and Medical
Ultrasound, Applied Physics
Laboratory, Department of
Neurological Surgery, University
of Washington

10:50–11:20
Novel Approaches to Prosthetic
Joint Infection Diagnosis
Robin Patel, M.D., Infectious
Diseases Research, Mayo Clinic

Thursday
February 6

7:30–8:15 a.m.
Registration and Continental
Breakfast
Strand Union Building (SUB)
Room 275 / 276

8:15–8:30
Introductory Remarks
SUB Ballroom D
Paul Sturman, CBE Industrial
Coordinator
Bobby Orr, Tyco Healthcare,
TAC Chair
Bill Costerton, CBE Director

SESSION 1:
Medical

8:30–8:40
Session Introduction
Mark Shirtliff, Assistant
Research Professor, CBE

8:40–9:20
Bacteria Lives in the Darndest
Places!!
Bill Costerton, CBE Director

9:20–9:40
Essential Oil Mouthrinse
Treatment of Dental Biofilms
Mark Pasmore, Assistant
Research Professor, CBE

9:40–10:10
Combating Biofilm-Associated
Antibiotic Resistance
Brian Cali, Vice President for
Development, Microbia Inc.

10:10–10:30  Break

SESSION 2:
Biofilm Methods

1:00–1:10
Session Introduction
Darla Goeres, CBE Research
Engineer

1:10–1:30
Progress Report: Developing a
Method to Test the Efficacy of
Chemical Hot Tub Disinfectants
Darla Goeres

1:30–1:50
CDC Biofilm Reactor:
Ruggedness Test Results
Marion Osterud, BSTL Intern
Martin Hamilton, Professor Emeritus, Statistics

1:50–2:10
NMR Microscopy of the Impact
of Biofilms on Transport
Phenomena in Bioreactor Flows
and Porous Media
Joe Seymour, Assistant
Professor, Chemical Engineering

2:10–2:30
The Biofilm Imaging Facility: A
Grant Funded by the Murdock
Charitable Trust
Luanne Hall-Stoodley,
Assistant Research Professor, Microbiology

2:30–2:50
Session Wrap-Up

2:50–3:10 Break

SESSION 3:
Biofilm Structure and
Function

3:10–3:20
Session Introduction
Phil Stewart, Professor,
Chemical Engineering, CBE

3:20–3:40
Characterization of the
Extracellular Matrix of
Pseudomonas aeruginosa
Biofilms
Mike Franklin, Associate
Professor, Microbiology

3:40–4:00
Patterns of Growth in
P. aeruginosa Colony Biofilms
Erin Werner, Undergraduate
Researcher, Chemical
Engineering

4:00–4:20
Modeling Biofilm Antibiotic
Resistance: Persisters
Mark Roberts, Undergraduate
Researcher, Chemical
Engineering, and Phil Stewart
4:20–4:40
Biofilm Fuel Cells
Zbigniew Lewandowski, Professor, Civil Engineering

4:40–5:00
Session Wrap-Up

5:00–6:00 Poster Session
SUB 275 / 276

6:00
Dinner, Catered
Sub Ballroom C

Friday
February 7

7:30–8:20
Registration and Continental Breakfast
SUB Room 275 / 276

SESSION 4:
Distribution System Biofilms

8:20–8:40
Session Introduction and Regulatory Update
Anne Camper, Associate Professor, Civil Engineering

8:40–9:00
Assessing Microbial Contamination Risks for Small Water Systems
Phil Butterfield, Assistant Research Professor, Civil Engineering

9:00–9:20
Rechargeable Biocidal Coating for Biofilm Control
Alex Bargmeyer, MS Candidate, Civil Engineering

9:20–9:35
Bioterrorism and Water Distribution Systems
Anne Camper

9:35–9:50
Session Wrap-Up and Industry Comment

9:50–10:10 Break

SESSION 5:
Mechanical Disruption of Biofilm

10:10–10:15
Session Introduction
Paul Stoodley, Assistant Research Professor, CBE

10:15–10:35
Disruption of Dental Plaque Biofilm via Fluid Forces
Chris McInnes, Principal Research Scientist, Philips Oral Health Care

10:35–11:05
Removal of Biofilm by Powered Brushing from Interproximal Model
Heather Adams, CBE REU Student

Viscoelasticity of Dental and Other Biofilms
Matt Winston, Undergraduate Researcher, Mechanical Engineering

11:05–11:20
Modeling Biofilms as Viscoelastic Fluids
Todd Shaw, PhD Candidate, Mathematics

11:20–11:30
Session Wrap-Up and Industry Comment

SESSION 6:
Industry Interaction

11:30–12:10
Cooperation between Industry, Academics and Institutes (Part 1)
Joel Berg, DDS, Chair, Dept. of Pediatric Dentistry, University of Washington

12:10–12:20
Cooperation between Industry, Academics and Institutes (Part 2)
Bill Costerton

12:20–12:30
Meeting Wrap-Up

12:30–2:00
TAC Business Meeting
(Lunch Catered for IA reps and CBE PIs)
SUB Room 275 / 276