**Tuesday**  
July 5  
6:00–7:30 p.m.  
Pre-registration and Welcome Reception  
GranTree Inn  
North 7th Ave, Bozeman

11:00–11:20  
Biofilm-based wound care  
Randy Wolcott, Director, Southwest Regional Wound Care Center, Lubbock, Texas

**Special Presentation**  
11:20–12:10  
State of the CBE and vision for the future  
Phil Stewart, CBE Interim Director

12:10–1:00  
Lunch, Catered  
SUB Ballroom B & C

**Industry Presentation**  
1:00–1:30  
Biofilms in the hospitality, food and healthcare industries  
Scott L. Burnett, Microbiologist, Ecolab, Mendota Heights, MN

**SESSION 1:**  
Medical Biofilms

9:40–10:00  
Overview of research in the Medical Biofilm Laboratory  
Garth James, Medical Biofilm Laboratory Manager

10:00–10:20  
The results and strategies for treatment of infected total joint arthroplasties—a biofilm-related illness  
Gary Maale, Orthopedic surgeon  
Dallas-Ft. Worth Sarcoma Group

10:20–10:40 Break

10:40–11:00  
Biofilms in chronic wounds  
Ellen Swogger, CBE Undergraduate, Chemical & Biological Engineering

**Special Presentation**  
3:00–3:30  
Bacteria can do amazing things: Tertiary structure in biofilms  
Bill Costerton, Director, Dental Biofilm Center, University of Southern California

**Special Presentation**  
3:30–4:00  
The *Pseudomonas aeruginosa* dispersion autoinducer  
David Davies, Assistant Professor, Biology, University of Binghamton, New York

4:00–5:30  
Poster Session

**Focus Group Session**  
5:30—Medical biofilm methods consortium  
Coordinated by Marty Hamilton  
The inaugural meeting of CBE members interested in the development of validated, FDA-accepted laboratory methods

**Wednesday**  
July 6  
7:30–8:30 a.m.  
Registration and Continental Breakfast  
Strand Union Building (SUB)  
Ballroom B & C

8:30–8:45  
Introductory Remarks  
SUB Ballroom D  
Paul Sturman, CBE Industrial Coordinator  
Mel Czechowski, Church & Dwight, TAC Chair

**Keynote Presentation**  
8:45–9:40  
Gallium, a new potential anti-biofilm treatment  
Pradeep Singh, Assistant Professor, Department of Internal Medicine, University of Iowa

**SESSION 2:**  
Biofilm Structure and Function

1:30–1:40  
Session Introduction  
Zbigniew Lewandowski, CBE Professor, Civil Engineering

1:40–2:00  
Three-dimensional biofilm structure and activity  
Raaja Raajan Anthaghevar Veluchamy, MS Candidate, Environmental Engineering

2:00–2:20  
Hollow fiber membrane biofilm reactor for dye wastewater treatment  
Yeon Kyung-Min, Visiting Researcher, Institute of Environmental Protection and Safety, School of Chemical Engineering, Seoul National University, Korea

2:20–2:40  
Particle capture in biofilms  
Anne Camper, CBE Professor, Civil Engineering

2:40–3:00 Break

**Thursday**  
July 7  
7:30–8:30 a.m.  
Registration and Continental Breakfast  
Strand Union Building (SUB)  
Ballroom B & C

**Invited Presentation**  
8:30–9:20  
A short range signaling system for coordinated dispersal in biofilms  
Paul Stoodley, Associate Professor, Center for Genomic Sciences Allegheny-Singer Research Institute, Pittsburgh, Pennsylvania  
Laura Purevdorj-Gage, recent CBE PhD graduate, Microbiology

**SESSION 3:**  
Biofilm Methods

9:20–9:30  
Session Introduction  
Darla Goeres, CBE Research Engineer
SESSION 4: Biofilm-Metals Interaction

9:30–10:00
Drip flow reactor: Design and repeatability
Nic Beck, Biofilm System Training Laboratory (BSTL) intern

10:00–10:20
Parallel testing to determine the influence of biofilm growth conditions on antimicrobial log reduction: The rest of the story
Kelli Buckingham-Meyer, CBE Laboratory Specialist

10:20–10:40 Break

10:40–11:00
High throughput biofilm screening
Elinor Pulcini, CBE Research Associate

11:00–11:30
An integrated platform to optimize therapeutic agents for biofilm activity
Tim Morris, Senior Scientist, Cumbre, Dallas, Texas

11:30–11:50
Distinction between viable and dead bacteria using EMA-PCR
Andreas Nocker, CBE Assistant Research Professor

11:50–12:10
Community analysis of biofilm
Mark Burr, CBE Research Associate
Sabrina Behnke, Visiting Researcher, University of Duisberg-Essen, Germany

12:10–1:10
Lunch, Catered
SUB Ballroom B & C

SESSION 5: Alternative Control Strategies

9:10–9:20
Session Introduction
Phil Stewart

9:20–9:40
Anti-biofilm surface coatings
Ross Carlson, Assistant Research Professor, Chemical and Biological Engineering

9:40–10:00
Cohesive strength measurement as a tool for evaluating biofilm removal strategies
Ray Hozalski, Visiting Researcher, Associate Professor, Civil Engineering, University of Minnesota

10:00–10:20 Break

10:20–10:40
A 3-D model of four hypothetical protective mechanisms of biofilms
Jason Chambless, PhD Candidate, Chemical and Biological Engineering

10:40–11:10
Arginine enhances antibiotic action against Pseudomonas aeruginosa biofilms
Phil Stewart

11:10–11:30
Controlled ultrasonic release of antibiotics from hydrogel surfaces
Patrick Norris, recent MS graduate, Mechanical Engineering

11:30–11:40
Session/Meeting Wrap-up and Industry Comment

Friday
July 8

7:30–8:30 a.m.
Registration and Continental Breakfast
Strand Union Building (SUB)
Ballroom B & C

Invited Presentation
8:30–9:10
Disinfecting biofilm-associated Legionella pneumophila: The importance of free-living protozoa
Rodney Donlan, Centers for Disease Control and Prevention