



# Biofilm Technologies: Pathways to Product Development

February 5–6, 2019

Hilton Crystal City Hotel, Arlington, VA

FINAL AGENDA



2/7/2019 1:23 PM

## Tuesday February 5

---

**7:30-8:00 am**  
**Registration & Cont. Breakfast,**  
**Commonwealth Foyer**  
**Meeting, Williamsburg/Yorktown**  
Ballroom

**8:00–8:15 am**  
**Introductory remarks**  
Matthew Fields, CBE Director  
Paul Sturman, CBE Industrial  
Coordinator

### Keynote

**8:15-8:50 am**  
**Biofilm tolerance favors rapid**  
**emergence of antibiotic resistance**  
Christophe Beloin, Associate  
Professor; Co-Director, Institut  
Pasteur Microbiology Course,  
Institut Pasteur

### SESSION 1 Food-Related Biofilms

**8:50-9:25 am**  
**Biofilms in beer**  
Diane Walker, Research Engineer,  
CBE

**9:25-10:00 am**  
**Trending topics in food protection:**  
**A review from the 2018 food**  
**conferences**  
Diane Walker

---

**10:00–10:30 am**  
**Break**

---

**10:30-11:05 am**  
**Biofilms, sanitizers, and**  
**meat safety**  
Rong Wang, Research  
Microbiologist, Meat Safety &  
Quality Research, US Meat  
Animal Research Center

**11:05-11:40 am**  
**Biofilm management in food and**  
**beverage processing**  
Erin Mertz, Area Technical Support  
Coordinator, Food & Beverage,  
Ecolab

---

**12:00–1:00 pm**  
**Lunch, Richmond/Roanoke**

---

### SESSION 2 Biofilm Detection

**1:00-1:30 pm**  
**Tracking antimicrobial resistance**  
**from sink drain biofilms**  
Amy Mathers, MD, Associate  
Director, Clinical Microbiology,  
University of Virginia

**1:30-2:00 pm**  
**Different techniques to**  
**visualize, quantify, and**  
**investigate biofilms**  
Matthew Fields

**2:00-2:30 pm**  
**Electrochemical sensing of**  
**quorum sensing molecules and**  
**virulence factors**  
Edgar Goluch, Associate Professor,  
Chemical Engineering,  
Northeastern University

---

**2:30-3:00 pm**  
**Break**  
**Sponsored by Decon7 Systems**

---

### SESSION 3 Antimicrobials and Regulation

**3:00-3:30 pm**  
**Global regulatory impediments**  
**and their effect on trade**  
Adrian Krygsman, Director,  
Troy Corporation

**3:30-4:00 pm**  
**Biofilm claims and product**  
**development**  
Dan Klein, Senior Manager,  
R&D Microbiology,  
STERIS Corporation

**4:00-4:30 pm**  
**Antimicrobial pesticides:**  
**Regulatory update and methods**  
**development initiatives**  
Steve Tomasino, Senior Scientist,  
Office of Pesticide Programs,  
US EPA

## Wednesday February 6

---

**7:30-8:00 am**  
**Continental Breakfast, Richmond/**  
**Roanoke**  
**Meeting, Williamsburg/Yorktown**  
Ballroom

### SESSION 4 Breast Implant Biofilms

**8:00-8:05 am**  
**Session Introduction**  
Garth James, Associate Research  
Professor, Chemical & Biological  
Engineering, MSU; PI, Medical  
Biofilms Laboratory, CBE

**8:05–8:40 am**  
**Controversies in biofilm and**  
**breast implants**  
Roger Wixtrom, President, LSCI

**8:40–9:10 am**

**Influence of breast implant textures on bacterial attachment and biofilm formation**

Garth James, Associate Research Professor, Chemical & Biological Engineering, MSU; PI, Medical Biofilms Laboratory, CBE

**9:10-9:45 am**

**Mechanical factors that may contribute to the involvement of surface texture on the pathogenesis of soft tissue implant associated complications**

Hainsworth Shin, Fellow, Biomedical Engineer, Center for Device & Radiological Health, US FDA

**9:45-10:15 am**

**Breast implant surface texture impacts tissue response**

TracyAnn Perry, Vice President, Science & Research, Establishment Labs

---

**10:15-10:45 am**

**Break**

---

## **SESSION 5**

### **Medical Device Cleaning/Reprocessing**

**10:45-11:00 am**

**Reusable medical devices: Understanding the challenges and presenting a path forward**

Paul Sturman

**11:00-11:35 am**

**Overview of biofilms in flexible endoscopes**

Kaumudi Kulkarni, R&D Manager, Healthmark Industries Company

**11:35-12:10 pm**

**Fluorescence microscopy-based SOP for detecting cellular contamination of endoscopes**

Scott Phillips, Regulatory Research Scientist, Center for Device & Radiological Health, US FDA

---

**12:10 pm–1:10 pm**

**Lunch, Richmond/Roanoke**

---

**1:10-1:45 pm**

**Growth of *Mycobacterium chimaera* in heater-coolers**

Joe Falkinham, Professor, Microbiology, Virginia Technological Institute

**1:45-2:15 pm**

**Ultrasound device disinfection: A patient safety risk**

Marcia Ryder, Research Scientist, Ryder Science, Inc.

---

**2:15-2:45 pm**

**Break**

---

**2:45-3:45 pm**

**Round Table Discussion**

*Save the Date!*

**2019 Montana Biofilm Meeting**

July 16–18, 2019

Bozeman, MT