
We are pleased to announce an exciting new format in 2010. The Surfaces in Biomaterials Foundation is co-hosting its 20th annual Workshop & Symposium with the Georgia Institute of Technology, Parker H. Petit Institute for Bioengineering and Bioscience. This year’s Symposium will take place on Monday and Tuesday at the Loews Atlanta Hotel in Atlanta, GA. This year’s Workshop will take place on Wednesday, on the Georgia Institute of Technology campus.

Conference highlights include two full days of technical sessions (October 18-19), a Student Poster competition starting Monday, and a lively Point-Counterpoint session on Tuesday, October 19. The prestigious Excellence in Surface Science Award will be presented during the Awards luncheon on Tuesday. The New Frontiers in Biosurface Applications Workshop will take place on the Georgia Institute of Technology campus on Wednesday, October 20.

The technical sessions on Monday and Tuesday comprise a host of diverse topics including: Biocompatibility, Prevention of Biofilm Infections, Advances in Surface Analysis and Surface Characterization, New Biomaterials and Applications, New Approaches to Combination Vascular Drug Delivery and Coming Ophthalmic Technologies and Implants. This year our workshop will take place on Monday and will feature a comprehensive ensemble of renowned academic speakers known for their respective contributions to Biosurface Applications.

Please plan to attend our 20th Anniversary event. You will be enriched by the science, the venue (the Midtown Atlanta area), and the unique blend of industry, academic, regulatory and clinical attendees. Our conference is purposely kept small (~150 registrants) to allow you to connect, share, learn, and visit by relaxed contact with the attendees.

For more information on BioInterface 2010, please contact Ashley Crunstedt at ashleyc@surfaces.org or call her directly at 651-203-7248. For updates, please visit our Website at www.surfaces.org.
Dear Fellow Surface Science Professionals,

You are invited to join me, your colleagues, industry leaders and invited distinguished scientists in beautiful Atlanta, Georgia, for The Surfaces in Biomaterials Foundation’s 2010 BioInterface Symposium and Workshop. This annual event provides an intimate opportunity to meet and network with other professionals while discussing new developments in the biomaterials industry.

The Foundation’s mission is to explore the creative solutions to technical challenges at the BioInterface by fostering education and multidisciplinary cooperation among industrial, academic, clinical, and regulatory communities.

This year’s program consists of scientific sessions featuring well-known presenters and invited speakers discussing cutting edge technologies and recent scientific developments. In addition, this event includes the popular and the highly anticipated Point-Counterpoint debate session, Student Poster Competition, and Excellence in Surface Science Awardee address.

On behalf of the Foundation’s members and Board of Directors, we hope you will join us at BioInterface 2010 for a valuable experience that will increase your scientific education, professional development, and further the research you are conducting.

Sincerely,
Lawrence Salvati
President, Surfaces in Biomaterials Foundation

2010 Program Committee

Gene Boland
University of Louisville
gene.boland@louisville.edu

Barbara Boyan
Georgia Institute of Technology, Institute of Bioengineering and Bioscience
barbara.boyan@bme.gatech.edu

Kristen O’Halloran
Cardinal
Cal Poly-San Luis Obispo
kohallor@calpoly.edu

Vicky Carr-Brendel
Boston Scientific
carrbrev@bsci.com

Joe Chinn
J Chinn LLC
jchinn@q.com

Ashley Crunstedt
Surfaces in Biomaterials Foundation Staff
ashleyc@surfaces.org

Aylvin Dias
DSM Biomedical
Aylvin.Dias@dsm.com

Andrés Garcia
Georgia Institute of Technology, Institute of Bioengineering and Bioscience
andres.garcia@me.gatech.edu

Rob Kellar
Development Engineering Sciences
rskellar@des-company.com

William Lee
AST Products
wlee@astp.com

Peter Maziarz
Bausch and Lomb
Peter.Maziarz@bausch.com

Peg Palmer
SurfaceSolutions Labs
SurfaceLab@aol.com

Ted Parker
Cordis Corporation
tparker1@its.jnj.com

Jeff Ross
Surmodics, Inc.
jross@surmodics.com

Shrirang Ranade
Cordis Corporation
SRanade1@its.jnj.com

Newton Samuel
CIBA VISION Corp.
newton.samuel@cibavision.com

Carl Turnquist
Genzyme
Carl.Turnquist@genzyme.com

Dehua Yang
Ebacto
dyang@ebatco.com

Zhengrong Zhou
St. Jude Medical
ZZhou@sjm.com

NOTE: Exhibits will be available to participants throughout the symposium. Posters will be on display during the technical sessions (Monday and Tuesday).
Monday, October 18

Loews Atlanta Hotel

7:00–8:25  Registration and Breakfast

7:20–8:20  General Poster Session and Student Poster Judging
  Co-chairs: Carl Turnquist, Kristen Cardinal
  Judges: Gene Boland, Carl Turnquist, Rob Kellar

8:20–8:25  President’s Welcome

8:25–10:00  Session 1: Biocompatibility (Podium and Poster Session)
  Co-chairs: William Lee, Jeff Ross

8:25–8:45  Invited Speaker: David Grainger, University of Utah
  “Biomaterials Approaches to Device-Centered Infection”

8:45–9:30  Poster Session 1
  Poster Participants:
  Roy Biran, W.L. Gore & Associates, Inc. Medical Products Division
  “Analysis of Proteins Associated with the Carmeda Bioactive Surface (CBAS®) After Acute Blood Contact”

  “Reduced Protein Deposition: A Mechanism for In Vivo Persistence of Heparin Bioactivity on CBAS-ePTFE Vascular Grafts”

  Rahul Bhola, Department of Metallurgical and Materials Engineering Colorado School of Mines
  “Modification of Surface Oxides on the Newer β Titanium Alloys by Calcium and Phosphorous to Enhance Bone Cell Adhesion for Implant Applications”

  Steven J. Potts, Flagship Biosciences, Flagstaff, AZ
  “Validation of Automated Vascularization Analysis at the Tissue-Material Interface”

  Smit Pandya, Florida International University
  “A Comparative Assessment of Corrosion Resistance and Biocompatibility of Ti-Ta Alloys for Orthopedic Implants”

  Mark E. Smith, American Preclinical Services, LLC
  “Methods for Evaluating the Effect of Drug-Eluting Balloons and Other Intravascular Solid Formulation Delivery Systems on Distal Bed Perfusion”

8:45–9:30  Podium Session 1
  This will be a brief session of 5-minute introductions by poster presenters about the topic of their posters. Once the presenters finish, you will be given a chance to discuss the presenters’ topics with them at their respective posters.

9:30–10:00  Poster Session 1

10:00–10:30  Exhibitor Break

10:30–12:00  Session 2: Prevention of Biofilm Infections
  Chair: Aylvin Dias

10:30–11:00  Invited Speaker: David Grainger, University of Utah
  “Protein Sorting on to Patterned Surfaces”

11:00–11:20  Jens Thies, DSM Biomedical
  “DSM Non-Biofouling Coatings: A Stealth Approach to the Fighting Biofilms”

11:20–11:40  Robert Ward, DSM PTG, Part of DSM Biomedical
  “Biomaterials In a New Role: Treatment and Prevention of Infectious Disease”

11:40–12:00  Claire Kavanagh, Martin Murphy, Aziz Tnibar, Jonathan Thompson
  “In Vivo Antibiotic Release Profile from an Antibiotic-Coated Orthopaedic Implant”

12:00–12:50  Student Town Hall Meeting and Attendee Luncheon
  Co-chairs: Vicky Carr-Brendel, Rob Kellar

12:50–1:30  Surfaces in Biomaterials Foundation Business Meeting
1:30–3:00  Session 3: Advances in Surface Analysis and Surface Characterization
   Co-chairs: Dehua Yang, Peter Maziarz
   Invited Speaker: Conrado Aparicio, PhD, University of Minnesota
   “Contact Angles at the Macro- and Micro-Level for Assessing Wettability and Surface Free Energy of Dental Biomaterials”

2:00–3:00  Puneet Gill, Florida International University
   “The Effect of Surface Treatment and Manufacturing Techniques on Ti-Ta Alloy”

C. W. Extrand, Entegris Inc.
   “The Distortion of Spherical Sessile Drops”

John A. Notte IV, Carl Zeiss SMT, Inc.
   “Helium Ion Microscopy”

3:00–3:30  Exhibitor Break

3:30–4:30  Applied Technology Workshops
   Chair: Peg Palmer
   ATW Presenters (two parallel 30-min. presentations):
   3:30–4:00
   PVA Tepla
   “Plasma Surface Modification for Lifescience Applications: A Technology Review”
   3:30–4:00
   BASF
   “Silver-Based Antimicrobial Technology for Plastic Devices”
   4:00–4:30
   Anasys
   “Transition Temperature Microscopy: Nanoscale Thermal Analysis Technique”
   4:00–4:30
   SJTRI
   “Biochemical Markers in Pre-Clinical Studies”
   4:30–5:30  20th Anniversary Reception

5:30–6:30  Keynote Lecture
   Keynote Speaker: Cy Wilcox, Vice President Science & Technology at Medtronic Vascular

Tuesday, October 19
Loews Atlanta Hotel
7:30–8:00  Registration and Breakfast
8:00–9:30  Session 4: New Biomaterials (Podium and Poster Session)
   Co-Chairs: Zhengrong Zhou, Gene Boland
   Invited Speaker: Chih-Chang Chu, Rebecca Q. Morgan ’60 Professor of Fiber Science
   “New Synthetic Biodegradable Pseudo-Protein Biomaterials, their Performance and Applications”
   E. P. Goldberg, University of Florida, Biomaterials Center, Department of Materials Science & Engineering
   “Phospholipid Surface Modification of Microporous Biopolymer-Microglial Cell Implants for Spinal Cord/CNS Repair”

Podium Session 4
This will be a brief session of 5-minute introductions by poster presenters about the topic of their posters. Once the presenters finish, you will be given a chance to discuss the presenters’ topics with them at their respective posters.

Maryna Ornatska, Department of Chemistry and Biomolecular Science, Clarkson University
“Cerium Oxide Paper Sensors for Hydrogen Peroxide and Glucose Detection”

Jie Wen, Innovative Surface Technologies, Inc.
“Novel Photoreactive Primer for Silicone Surfaces”

Rao S. Bezwada, Bezwada Biomedical, LLC
“Monomers and Absorbable Polymers for Biomedical Applications”

Tahmina Naqvi, Innovative Surface Technologies, Inc.
“Smart Thermo-responsive Cell Culture Surfaces”

Robert Kellar, Protein Genomics, Flagstaff, AZ
“Recombinant Human Tropoelastin as a Novel Biomaterial”
Brent C. Bell, Isoflux Biomed
“Sputtered Porous Columnar Coatings for Non-Polymeric Drug Delivery”

9:30–10:00 Poster Session 4

10:00–10:30 Exhibitor Break

10:30–12:00 Session 5: New Approaches to Combination Vascular Drug Delivery
Co-Chairs: Ted Parker, Shrirang Ranade
Session Sponsor: Cordis

10:30–11:00 Invited Speaker: Dr. Elazer Edelman, MIT
“How Should One Consider Existing and Emerging Technologies in Cardiovascular Drug Delivery?”

11:00–11:20 Dr. Ronald Sahatjian, President, Medi-Solve Coatings LLC
“Balloon Based Drug-Eluting Systems ‘The Comeback Kid’”

11:20–11:40 Dr. Dinesh Patwardhan, Food & Drug Administration
“Drug Microstructure to Drug Release”

11:40–12:00 Ashley Kelly, Abbott Vascular
“Effects of Processing and Environmental Conditions on the Mechanical Properties of a Biodegradable Vascular Scaffold (BVS)”

12:00–1:30 Awards Sessions and Lunch

Student Poster Winner Announced

Excellence in Surface Science Award:
Professor David F. Williams
“Biocompatibility Then and Now: What Have We Learned in 20 Years and Where Do We Go from Here?”

1:30–3:00 Session 6: Ophthalmic Technologies and Implants
Chair: Newton Samuel

1:30–2:00 Invited Speaker: Rob Scott, CIBA Vision
“Past, Present and Future of Contact Lens Research and Materials Development”

2:00–3:00 Yongxing Qiu, CIBA Vision Corporation
“Wettable Silicone Hydrogel Contact Lenses”

3:00–4:00 Break: Shuttles to Marcus Nanotechnology Building, Georgia Tech campus

Marcus Nanotechnology Building
4:00–5:00 Point-Counterpoint Session:
“Be it resolved that the concept of an inert, biocompatible biomaterial is folly. All biomaterials elicit a host response.”

Moderator: David Williams, University of Liverpool

Pro: Barbara Boyan, GTEC
Con: Monty Reichert, Duke

5:00–6:00 Networking Reception

Wednesday, October 20

Marcus Nanotechnology Building
7:00–3:30 BioInterface & Petit Institute for Bioengineering and Bioscience (IBB) Workshop:
New Frontiers in Biosurface Applications
Co-chairs: Barbara Boyan, Andrés Garcia, Peter Maziarz

7:00–8:00 Pre-Registration and Continental Breakfast

8:00–8:15 Welcome and Introduction

8:15–9:00 Workshop Speaker 1: Julia Babensee, Georgia Tech, Biomedical Engineering
Topic: Biomaterial/Glycan Cell Interactions

9:00–9:45 Workshop Speaker 2: Andrew Lyon, Georgia Tech, Chemistry & Biochemistry
Topic: Dynamic, Self-Healing, and Nanostructured Hydrogel Coatings

9:45–10:15 Break

Khoren Sahagian, Anasys Instruments Inc.
“Biomaterials Characterization Using Nanoscale Thermal and IR Spectroscopy”

Junwei Li, Biocoat, Inc.
“Pinch Testing of Hydrophilic Lubricious Coatings”

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Thursday, October 21

Marcus Nanotechnology Building
Parker H. Petit Institute for Bioengineering and Bioscience
Industrial Partners Program

Georgia Tech’s Petit Institute for Bioengineering and Bioscience (IBB) invites you to explore its Industrial Partners Program by extending your stay in Atlanta and attending the Industrial Partners Symposium on Thursday, October 21. As an invited guest there is no charge to attend the event where you can meet faculty and students and learn more about IBB’s interdisciplinary approach to research in areas including Regenerative Medicine, Biomaterials, Imaging, Pharmaceutical Development, Drug Delivery and more. The full-day program will allow you to learn not only about the latest research advances but also ways that your company can benefit from the resources available through IBB and Georgia Tech. We welcome you to learn what the Industrial Partners Program can do for your company.

Robert E. Guldberg, Ph.D.
Director, Parker H. Petit Institute for Bioengineering & Bioscience

Robert M. Nerem, Ph.D.
Director, Georgia Tech/Emory Center for Regenerative Medicine

Mark R. Prausnitz, Ph.D.
Director, Center for Drug Design, Development & Delivery

To learn more about the Industrial Partners Program and the annual Symposium, please visit www.industry.gatech.edu or contact Katharine Montgomery, Manager for Industrial Relations, katharine.montgomery@ibb.gatech.edu, 404-385-2105.
Conference attendees can receive the special reduced room rate of $159 per night. Reservations are to be made by the individual online or through the Loews’ reservation department at: (404) 745-5000. Make sure to ask for the Surfaces in Biomaterials Foundation rate in order to receive the special group rate. Reserve your room by September 17, 2010 to receive the group rate. The room block for The Surfaces in Biomaterials Foundation is available for guests to book reservations online using the Group Code: SIBO17.

Make reservations!

About the hotel:
Centrally located in midtown Atlanta, there are plenty of nearby attractions to keep you busy:
- Piedmont Park
- Atlanta Botanical Gardens
- World of Coca-Cola
- Georgia Aquarium
- Centennial Olympic Park
- Zoo Atlanta
- Six Flags over Georgia
- Stone Mountain Park
- Fernbank Museum of Natural History
- The King Center
- Jimmy Carter Presidential Library
- Atlanta History Center
- Atlanta Cyclorama/Civil War Museum
- High Museum of Art
- Museum of Design Atlanta
- And many more!

2010 SUPPORTING MEMBERS
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2010 ACADEMIC MEMBERS
Georgia Institute of Technology
Medical Device Evaluation Center
MNESAC/BIO – University of Washington
Syracuse University, Biomaterials Institute
University of Louisville, Cardiovascular Innovation Institute
University of Minnesota
BioInterface 2010

Full Conference – Oct. 18, 19 & 20 (Includes workshop and 2-day symposium, all luncheons, breaks, an evening reception and the Point-Counterpoint session)

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Workshop Only – Oct. 20 (Includes the entire workshop, lunch and breaks)

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<td>Students¹</td>
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Symposium Only – Oct. 18 & 19 (Includes the 2-day symposium, luncheons, breaks, an evening reception and the Point-Counterpoint session)

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<td>Students¹</td>
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¹Students who submit a Technical Poster are given free registration to the Conference (Technical Symposium only; not the Workshop)

☐ Check box for more information on the IBB Industrial Partners Program Wednesday dinner and Thursday program.


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<th>Membership Type</th>
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<td>Corporate Annual Membership Rates (includes one full conference registration &amp; one exhibit option)</td>
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<tr>
<td>Smaller Corporations (fewer than 50 employees) (includes one full conference registration &amp; one exhibit option)</td>
<td>$2,000</td>
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<tr>
<td>Academic Membership (one discounted full conference registration at half the member price and one free exhibit option)</td>
<td>$625</td>
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<tr>
<td>Individual Membership (entitles registration at Member rates)</td>
<td>$50</td>
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TOTAL $___________

Name ________________________________________________

Affiliation __________________________________________________________________________________________________

Department __________________________________________________________________________________________________

Address ______________________________________________________________________________________________________

City ________________________________________________State ____________________ Zip  __________________________

E-mail ______________________________________________________________________________________________________

Phone ______________________________________________Fax  ____________________________________________________

ADA/Special Requests __________________________________________________________________________________________

Payment (Payment must accompany registration form to be processed)

☐ Check (made payable to Surfaces in Biomaterials Foundation)  ☐ MasterCard  ☐ VISA  ☐ American Express

Name (as it appears on card) ____________________________________________ Cardholder Phone ________________________

Card # ____________________________________________ Exp. Date _____________ 3-Digit Sec. Code* (req.) ______  ______  _______

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Send to: Surfaces in Biomaterials Foundation
1000 Westgate Drive, Suite 252
St. Paul, MN 55114
Phone: 651-290-6267
Fax: 651-290-2266
www.surfaces.org

Cancellation Policy: With written cancellation notice, received by Oct. 4, 2010 you will receive a full refund, less a $50 administrative charge. Cancellations after Oct. 4, 2010 are non-refundable. Notices of cancellation must be faxed to the Surfaces in Biomaterials office at 651-290-2266. No-shows will not receive refunds.

* AMEX Cards might have 4 digits and be on the front of the card