BIOINTERFACE 2010

REGISTRATION

October 18-20, 2010 | Loews Atlanta Hotel | Atlanta, GA

The Surfaces in Biomaterials Foundation presents one of the best technical conferences in 2010! Join us for the BioInterface 2010 Symposium and Workshop in Atlanta, GA, October 18 - 20, 2010.

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.



CONFERENCE HIGHLIGHTS:

- New Frontiers in Biosurface Applications
- Biocompatibility Podium and Poster Session
- Prevention of Biofilm Infections
- Advances in Surface Analysis and Surface Characterization
- New Biomaterials and Applications
- New Approaches to Combination Vascular Drug Delivery
- Ophthalmic Technologies and Implants
- Student Poster Session
- Student Town Hall Meeting
- Excellence in Surface Science Award

Foundation members and BioInterface attendees specialize in:

- Biodegradable Polymers
- Biofilms
- Hemocompatibility
- Nanotechnology
- Orthopaedics
- Surface Characterization
- Tissue Engineering
- Medical Devices







BIOINTERFACE 2010

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

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

WORKSHOPS/SESSIONS

Phosphorous to Enhance Bone Cell Adhesion

for Implant Applications"

Monday, October 18			Steven J. Potts, Flagship Biosciences, Flagstaff, AZ "Validation of Automated Vascularization Analysis at the Tissue-Material Interface"			
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		Smit Pandya, Florida International University "A Comparative Assessment of Corrosion Resistance and Biocompatibility of Ti-Ta Alloys for Orthopedic Implants"			
8:20–8:25	Kellar President's Welcome		Mark E. Smith, American Preclinical Services, LLC "Methods for Evaluating the Effect of Drug-			
8:25-10:00	Session 1: Biocompatibility (Podium and Poster Session) Co-chairs: William Lee, Jeff Ross		Eluting Balloons and Other Intravascular Solid Formulation Delivery Systems on Distal Bed Perfusion"			
8:25–8:45 8:45–9:30	Invited Speaker: David Grainger, University of Utah "Biomaterials Approaches to Device- Centered Infection" 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			
	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"	11:20–11:40	Approach to the Fighting Biofilms" Robert Ward, DSM PTG, Part of DSM Biomedical "Biomaterials In a New Role: Treatment and Prevention of Infectious Disease"			
	John L. Fisher, W.L. Gore & Associates, Inc. Medical Products Division "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 ß Titanium Alloys by Calcium and	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			
		12:50–1:30	Co-chairs: Vicky Carr-Brendel, Rob Kellar Surfaces in Biomaterials Foundation Business Meeting			

1:30–3:00	Session 3: Advances in Surface Analysis and Surface Characterization	Tuesday,	, October 19
1 20 2 00	Co-chairs: Dehua Yang, Peter Maziarz		
1:30–2:00	Invited Speaker: Conrado Aparicio, PhD, University of Minnesota	Loews Atlant	
	"Contact Angles at the Macro- and Micro-	7:30–8:00	Registration and Breakfast
	Level for Assessing Wettability and Surface Free Energy of Dental Biomaterials"	8:00–9:30	Session 4: New Biomaterials (Podium and Poster Session)
2:00-3:00	Puneet Gill, Florida International		Co-Chairs: Zhengrong Zhou, Gene Boland
	University	8:00-8:30	Invited Speaker: Chih-Chang Chu, Rebecca
	"The Effect of Surface Treatment and		Q. Morgan '60 Professor of Fiber Science
	Manufacturing Techniques on Ti-Ta Alloy"		"New Synthetic Biodegradable Pseudo-
	C. W. Extrand, Entegris Inc.		Protein Biomaterials, their Performance and
	"The Distortion of Spherical Sessile Drops"		Applications"
	2 с. ср с. с 2 . орг	8:30-8:45	E. P. Goldberg, University of Florida,
	John A. Notte IV, Carl Zeiss SMT, Inc.	0.50-0.45	Biomaterials Center, Department of
	"Helium Ion Microscopy"		Materials Science & Engineering
0.00.000			"Phospholipid Surface Modification of
3:00–3:30	Exhibitor Break		Microporous Biopolymer-Microglial Cell
3:30-4:30	Applied Technology Workshops		Implants for Spinal Cord/CNS Repair"
3.30 4.30	Chair: Peg Palmer	0.45.0.20	Podium Session 4
	3	8:45–9:30	This will be a brief session of 5-minute
	ATW Presenters (two parallel 30-min.		introductions by poster presenters about the
	presentations):		topic of their posters. Once the presenters
	2.20 4.00		finish, you will be given a chance to discuss
	3:30-4:00 PVA Tepla		the presenters' topics with them at their
	"Plasma Surface Modification for		respective posters.
	Lifescience Applications: A Technology		Maryna Ornatska, Department of
	Review"		Chemistry and Biomolecular Science,
			Clarkson University
	3:30–4:00		"Cerium Oxide Paper Sensors for Hydrogen
	BASF "Silver-Based Antimicrobial Technology for		Peroxide and Glucose Detection"
	Plastic Devices"		
	. Tashie Bernees		Jie Wen, Innovative Surface Technologies, Inc. "Novel Photoreactive Primer for Silicone
	4:00-4:30		Surfaces"
	Anasys		
	"Transition Temperature Microscopy:		Rao S. Bezwada, Bezwada Biomedical, LLC
	Nanoscale Thermal Analysis Technique"		"Monomers and Absorbable Polymers for
	4:00-4:30		Biomedical Applications"
	SJTRI		Tahming Nagyi Innovetive Surface
	"Biochemical Markers in Pre-Clinical Studies"		Tahmina Naqvi, Innovative Surface Technologies, Inc.
			"Smart Thermo-responsive Cell Culture
4:30–5:30	20th Anniversary Reception		Surfaces"
5:30-6:30	Keynote Lecture		
3.00-0.00	Keynote Speaker: Cy Wilcox, Vice		Robert Kellar, Protein Genomics,
	President Science & Technology at		Flagstaff, AZ "Recombinant Human Tropoelastin as a
	Medtronic Vascular		Novel Biomaterial"

	Brent C. Bell, Isoflux Biomed "Sputtered Porous Columnar Coatings for		Khoren Sahagian, Anasys Instruments Inc. "Biomaterials Characterization Using		
	Non-Polymeric Drug Delivery"		Nanoscale Thermal and IR Spectroscopy"		
9:30–10:00	Poster Session 4		Junwei Li, Biocoat, Inc.		
10:00-10:30	Exhibitor Break		"Pinch Testing of Hydrophilic Lubricous Coatings"		
10:30–12:00	Session 5: New Approaches to Combination Vascular Drug Delivery Co-Chairs: Ted Parker, Shrirang Ranade Session Sponsor: Cordis	3:00-4:00	Break: Shuttles to Marcus Nanotechnology Building, Georgia Tech campus otechnology Building		
10:30–11:00	Invited Speaker: Dr. Elazer Edelman, MIT "How Should One Consider Existing and Emerging Technologies in Cardiovascular Drug Delivery?"	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."		
11:00-11:20	Dr. Ronald Sahatjian, President, Medi- Solve Coatings LLC		Moderator: David Williams, University of Liverpool		
	"Balloon Based Drug-Eluting Systems 'The Comeback Kid'"		Pro: Barbara Boyan, GTEC Con: Monty Reichert, Duke		
11:20–11:40	Dr. Dinesh Patwardhan, Food & Drug Administration "Drug Microstructure to Drug Release"	5:00–6:00	Networking Reception		
11:40-12:00	Ashley Kelly, Abbott Vascular "Effects of Processing and Environmental Conditions on the Mechanical Properties of a Bioresorbable Vascular Scaffold (BVS)"		otechnology Building BioInterface & Petit Institute for		
12:00-1:30	Awards Sessions and Lunch		Bioengineering and Bioscience (IBB) Workshop:		
	Student Poster Winner Announced		New Frontiers in Biosurface Applications Co-chairs: Barbara Boyan, Andrés Garcia, Peter Maziarz		
	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?"	7:00–8:00	Pre-Registration and Continental Breakfast		
		8:00-8:15	Welcome and Introduction		
1:30–3:00	Session 6: Ophthalmic Technologies and Implants Chair: Newton Samuel	8:15–9:00	Workshop Speaker 1: Julia Babensee, Georgia Tech, Biomedical Engineering Topic: Biomaterial/Glycan Cell Interactions		
1:30-2:00	Invited Speaker: Rob Scott, CIBA Vision "Past, Present and Future of Contact Lens Research and Materials Development"	9:00–9:45	Workshop Speaker 2: Valeria Milam, Georgia Tech, Materials Science Topic: Employing Double-Stranded Probes on Colloidal Particles for Nucleic Acid		
2:00-3:00	Yongxing Qiu, CIBA Vision Corporation "Wettable Silicone Hydrogel Contact Lenses"		Detection		
		9:45-10:15	Break		

10:15–11:00	Workshop Speaker 3: Andrew Lyon, Georgia Tech, Chemistry & Biochemistry Topic: Dynamic, Self-Healing, and Nanostructured Hydrogel Coatings
11:00–11:45	Workshop Speaker 4: Ken Sandhage, Georgia Tech, Materials Science Topic: Shape-Preserving, Chemical Tailoring of Nanostructured Assemblies
11:45–12:45	Lunch & Nanotechnology Research Center Tours
12:45–1:30	Workshop Speaker 5: David Grainger, University of Utah, College of Pharmacy Topic: New Approaches to Analyze DNA and Proteins Immobilized at Surfaces
1:30–2:15	Workshop Speaker 6: James Bryers, University of Washington, Bioengineering Topic: Biofilm Infections and Biomaterials
2:15–3:00	Panel Discussion Topic: Converting Academic Insight into Industrial Application
3:00-4:30	IBB Industrial Partners Program Welcome Reception
6:30	IBB Industrial Partners Program Welcome Dinner Guest Speaker: Dr. Gail Cassell, Vice

President, Scientific Affairs and

Distinguished Lilly Research Scholar for

Infectious Diseases Eli Lilly and Company



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.

HOTEL INFORMATION



Loews Atlanta Hotel 1065 Peachtree Street Atlanta, Georgia 30309 LoewsHotels.com/Atlanta

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

						Cost
Full Con	ference – Oct. 18, 19 & 20 (Include	s workshop and 2-day symposium	, all luncheons, breaks, an evening	g reception and the Poir	nt-Count	terpoint session
			М	ember Combined		\$850
			Non-M	ember Combined		\$950
				Students ¹		\$350
Worksho	p Only – Oct. 20 (Includes the entire w	vorkshop, lunch and breaks)			_	
				Member		\$350
				Non-Member		\$450
				Students ¹		\$200
Symposi	um Only – Oct. 18 & 19 (Includes 1	the 2-day symposium, lunche	ons, breaks, an evening recep	otion and the Point-C	Counter	point session
				Member		\$550
				Non-Member		\$650
				Students ¹		\$200
¹ Students	who submit a Technical Poster are g	iven free registration to th	e Conference (Technical S	ymposium only; no	ot the \	Norkshop)
☐ Chec	k box for more information on the II	BB Industrial Partners Prog	gram Wednesday dinner a	and Thursday prog	ıram.	
	ship – Join now and save on your	our Symposium registr	ation. Visit <u>www.surfa</u>	ces.org for com	plete	member
Corporate	e Annual Membership Rates (include	es one full conference req	istration & one exhibit op	otion)		\$2,500
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Send to:	Surfaces in Biomaterials Foundation 1000 Westgate Drive, Suite 252 St. Paul, MN 55114	tice, received by Oct. 4	th written cancellation no , 2010 you will receive a t nistrative charge. Cancell	full initials	office u	se only)

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

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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.

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