

BIO INTERFACE 2008

A wonderful place to gather for a great meeting! These are the words that come to mind as I look forward to the Surfaces in Biomaterials Foundation's next annual workshop and technical symposium — BioInterface 2008. It will be held in downtown Minneapolis at the Millennium Hotel from Monday, October 27 through Wednesday, October 29.

This year, Monday's workshop will give special coverage to "Successful Applications of Tissue Engineering in Regenerative Medicine" led by Dave Sogard. Later in the day, we will host exciting Applied Technology Workshops in which several companies will highlight and explain the practical uses of their technologies. Following the early evening conference reception, we will hear from our conference keynote speaker, Arthur J. Coury, Ph.D., who has led a distinguished career in biomaterials at Medtronic, Focal and Genzyme. He will share his perspectives on this unique field where technology continues to mature and surprise.

Tuesday will feature a number of great learning opportunities, including the Student Poster Session, where students will be at their posters to discuss their research with you; an informal Town Hall set-

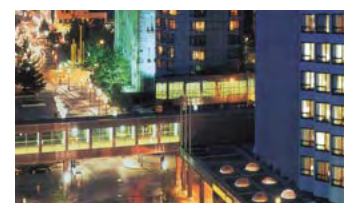
ting to learn more about career paths following graduation; a technical symposium with sessions entitled "NanoBioTechnology", "Surface Characterization" and "Orthopedic Implants and Devices."

Then Joe Chinn moderates the popular "Point-Counterpoint" debate session, "Nanoengineering: Enabling Technology or Marketing Slogan?" to conclude the day's activities.

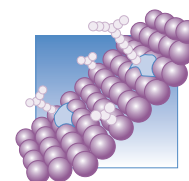
Wednesday includes sessions entitled, "Drug Eluting Medical Devices" and "Hospital Acquired Infections and the CMS: The Coming Wave of Anti-Infective Medical Devices", The Excellence in Surface Science Award, which will be given to Ken Stokes; a unique technical session entitled "Cell Communicating Surfaces" and the symposium closing session entitled, "Antimicrobial Technology Solutions", which comprises a series of 5-minute presentations on specific antimicrobial technologies, followed by a poster session in which attendees can engage presenters in depth.

All in all, an enlightening three days together where folks from industry can meet-and-greet their colleagues from academia and medicine!

Conference Highlights:



The Surfaces in Biomaterials Foundation presents one of the best technical conferences in 2008! Avoid the last minute rush! Discounted registration available until October 8, 2008.



Surfaces in **Biomaterials** Foundation

From the President

Welcome Professionals of the Surface Sciences,

The annual BioInterface Symposium and Workshop is our chance to meet and discuss important developments in our industry. The Surfaces in Biomaterials Foundation is dedicated to exploring creative solutions to technical challenges at the biointerface by fostering education and multidisciplinary cooperation among industrial, academic, clinical, and regulatory communities.

Corporations and educational institutions with products or services relevant to industrial engineers, research scientists, medical practitioners, and academicians in the fields of biomaterials, and biomedical and diagnostic research come to this annual conference to network, learn, share information and enjoy the company of fellow professionals.

We hope your time at the 2008 BioInterface Symposium in Minneapolis will stimulate your thinking and provide a valuable experience that you can utilize to advance your research.

Sincerely,

Carl Turnquist

President, Surfaces in Biomaterials Foundation

Thank You, Program Committee

Carl Turnquist, Chair
Genzyme

Dave Sogard (Workshop Chair)
Boston Scientific

Joe Chinn

Yen-Lane Chen
Boston Scientific

Nicholas Randall
CSM Instruments

Larry Salvati
DePuy Orthopaedics

Aylvin Dias
DSM

Kristin O'Halloran Cardinal
Cal Poly San Luis Obispo

William Lee
AST Products

Peg Palmer
Surface Solutions Labs, Inc.

Shrojal Desai
Boston Scientific
Corporation, CRM

Susan Rea
Medtronic

Monday, October 27, 2008

Workshop

Successful Applications of Tissue Engineering in Regenerative Medicine

Chair: Dave Sogard, Boston Scientific

**William Wagner, University of Pittsburgh
McGowan Institute for Regenerative
Medicine**

"Assessing and Addressing Biocompatibility Needs in Pediatric Circulatory Support Devices"

**Tom Gilbert, University of Pittsburgh
McGowan Institute for Regenerative
Medicine**

"Surfaces Characteristics of ECM Scaffolds"

**Nevell Washburn, University of Pittsburgh
McGowan Institute for Regenerative Medicine**

"Local Regulation of Inflammatory Responses with Materials"

**Stu Williams, Cardiovascular Innovation
Institute**

"Adipose Derived Cells and Regenerative Medicine"

**James Hoying, Cardiovascular Innovation
Institute**

"Prevascularized Biomaterials"

**Gene Boland, Cardiovascular Innovation
Institute**

"Electrospun Scaffolds for Regenerative Medicine"

**Andrés Garcia, Georgia Institute of
Technology**

"Cell-Biomaterial Interactions in Regenerative Medicine"

**Barbara Boyan, Georgia Institute of
Technology**

"Mechanisms Mediating Cell Response to Surface Microstructure"

Doris Taylor, University of Minnesota

Applied Technology Workshops

Chair: Peg Palmer, Surface Solutions Labs, Inc.

**Participants: CSM Instruments, Evans
Analytical Group, Hysitron, Harland Medical
Systems**

Opening Reception

Keynote Presentation:

Art Coury, Genzyme

"Time-Dependent Responses of Tissue to Resorbable Implants at the Biointerface"

Tuesday, October 28, 2008

Student Poster Judging

**Kristin O'Halloran Cardinal, Cal Poly San
Luis Obispo**

Morning Sessions

Nanobiotechnology

Chair: William Lee, AST

Inviter Speaker: Matthew B. Francis, UC Berkeley

“Building New Materials From Chemically Modified Proteins”

Surface Characterization

Chair: Nicholas Randall, CSM Instruments

Inviter Speaker: Dave Castner, University of Washington

“Characterization of the Immobilization Chemistry and Structure of Surface Bound Proteins”

Student Town Hall Meeting

Luncheon

Surfaces in Biomaterials Foundation Business Meeting

Afternoon Sessions

Ophthalmic Implants & Devices

Chair: Shrojal Desai, BSCI

Inviter Speaker: Eugene de Juan, ForSight Labs

“Recent Advances in Ocular Drug Delivery”

Point-Counterpoint Session

Nanoengineering: Enabling Technology or Marketing Slogan?

Moderator: Joe Chinn

Debaters: Andrés Garcia, Georgia Tech; Shuvo Roy, University of California San Francisco

Exhibits

Wednesday, October 29

Morning Sessions

Drug Delivery from Devices

Chair: Yen-Lane Chen, Boston Scientific

Inviter Speaker: Jayne Hastedt, Johnson & Johnson

“Combining Drug Delivery and Device Technologies: Challenges and Opportunities”

Hospital Acquired Infections and the CMS: The Coming Wave of Anti-infective Medical Devices

Co-Chairs: Larry Salvati, DePuy Orthopaedics; Joe Chinn

Inviter Speaker: Rabih Darouiche, VA Hospital, Houston

“Prevention of Device-Related Infections: Principles and Protection.”

Inviter Speaker: Roger Bayston, University of Nottingham

“The Principles of Antimicrobial Biomaterials for Prevention of Biofilm Infections”

Awards Luncheon

Excellence in Surface Science Award

Ken Stokes, Medtronic (retired)

"Implantable Polyether Polyurethanes: Finding the Unknown"

Student Poster Award Winner Presentation

Afternoon Sessions

Cell Communicating Surfaces

Chair: Aylvin Dias, DSM

Inviter Speaker: Hans Peter Wendel, University of Tubingen (DE)

"Fishing for Stem Cells: Mimicry of Homing Factors for Self-Endothelialization of Blood Contacting Devices"

Inviter Speaker: James D. Bryers, Department of Bioengineering, University of Washington

"Emerging Biomaterials Strategies to Prevent Infection"

Antimicrobial Technology Solutions Poster Session

Co-Chairs: Larry Salvati, DePuy
Joe Chinn

This will be a brief session of 5-minute introductions by poster presenters about the topic of their posters. Once the presenters finish, attendees will be given a chance to discuss the presenters' topics with them at their poster.

About the Foundation

The Surfaces in Biomaterials Foundation provides a forum for the presentation of contributions to surface science. The Foundation's Academic and Supporting Members explore surface characterization and problem-solving techniques important in the manufacturing, development, and research of biomaterials and offer a strong, united voice within the community.

Our Mission...

The Surfaces in Biomaterials Foundation is dedicated to exploring creative solutions to technical challenges at the BioInterface by fostering education and multidisciplinary cooperation among industrial, academic, clinical, and regulatory communities.



2008 Excellence in Surface Science Award



Kenneth B. Stokes' career in the medical device field has largely been directed at controlling biomaterial surface-tissue interactions. His innovations in electronic stimulation devices

provide abundant testimony to his success. In his leadership roles at Medtronic, Inc., Ken, his teams and collaborators developed the first tined and screw-in endocardial pacing leads, the first steroid eluting pacing lead tips, the first applications for thermoplastic polyurethanes and other products largely from his ideas.

His investigations into the causes of and solutions to biostability-related issues of implanted polymers constitute one of the largest bodies of such information. Some 40 patents and 150 publications amply document his record.

Ken has been recognized by practitioners and organizations in his field and in the broader scientific community with honors such as: "North American Society for Pacing and Electrophysiology Pioneer in Pacing & Electrophysiology," "Fellow of the American Institute for Medical and Biological Engineering," and "Fellow, Bakken Society." Ken is very deserving of the 2008 "Excellence in Surface Science Award" of the Surfaces in Biomaterials Foundation.

Keynote Speaker: Art Coury, Genzyme

"Time Dependent Responses of Tissue to Resorbable Implants at the Biointerface"



Art Coury holds a B.S. degree in chemistry from the University of Delaware (1962), a Ph.D. in organic chemistry (1965) and an M.B.A. (1980) from the University of Minnesota. His industrial career

includes positions as: Senior Research Chemist at General Mills, Inc. (1965-1976), Director, Polymer Technology and Research Fellow at Medtronic, Inc. (1976-1993), Vice President, Research and Chief Scientific Officer at Focal, Inc. (1993-2000), and Vice President, Biomaterials Research at Genzyme Corporation (2000-present). His career focus has been polymeric biomaterials for medical products such as implantable electronic devices, hydrogel-based

devices and drug delivery systems.

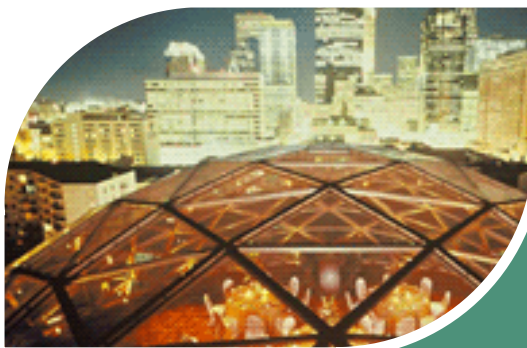
He holds more than 50 distinct patents and has published and presented widely in his field. His teaching positions have included adjunct appointments at the University of Minnesota and the Harvard-MIT Graduate Program in Health Sciences and Technology. His professional service has included: Chair, Minnesota Section, American Chemical Society (1989-1990); President, Society for Biomaterials, USA (1999-2000); President, American Institute for Medical and Biological Engineering (2003-2004) and membership on several university, society and corporate advisory boards. His recent recognitions have included the delivery of distinguished lectureships and receipt of the 2007 Innovation and Technology Development Award of the Society for Biomaterials.

2008 Supporting Members

Affinergy
AST Products
Bausch & Lomb
BioCoat, Inc.
Boston Scientific
Carmeda
CSM Instruments
DePuy
DSM
Evans Analytical Group
Genzyme
WL Gore & Associates
Hysitron
Lifecore Biomedical
Medtronic
Physical Electronics
Polymer Technology Group
Q-Sense
SurfaceSolution Labs, Inc.
SurModics

2008 Academic Members

Medical Device Evaluation Center
University of Louisville
 Cardiovascular Innovation
 Institute
University of Minnesota
University of Washington



Hotel Information

Millennium Hotel Minneapolis
1313 Nicollet Mall
Minneapolis, MN 55403
T: +1 (612) 332 6000
Toll Free: +1 (866) 866 8086
millenniumhotels.com/millenniumminneapolis

Nestled in downtown Minneapolis on the tree-lined sidewalks of Nicollet Mall, the Millennium Hotel Minneapolis offers convenient access to dining, entertainment, shopping and business destinations.

Experience one of the 321 guest rooms and suites, providing amenities such as an indoor swimming pool and business center, or Club Level rooms with premium touches such as special bedding, bathrobes and complimentary breakfast.

It is an ideal location for sightseers and business travelers with its close proximity to Minneapolis/St. Paul International Airport as well as the Guthrie Theatre and Walker Art Center.

Single room: \$169, Double room: \$179
Deadline for reservations: October 3, 2008

You must reference "The Surfaces in Biomaterials Conference" in order to receive discounted rates.

BioInterface 2008

Cost

Full Conference – Oct. 27, 28 & 29 (Includes workshop and 2-day symposium, all luncheons, breaks, an evening reception and the Point-Counterpoint session)

Member Combined	<input type="checkbox"/>	\$850
Non-Member Combined	<input type="checkbox"/>	\$950
Students	<input type="checkbox"/>	\$350

Workshop Only – Oct. 27 (Includes the entire workshop, lunch and breaks)

Member	<input type="checkbox"/>	\$350
Non-Member	<input type="checkbox"/>	\$450
Students	<input type="checkbox"/>	\$200

Symposium Only – Oct. 28 & 29 (Includes the 2-day symposium, luncheons, breaks, an evening reception and the Point-Counterpoint session)

Member	<input type="checkbox"/>	\$550
Non-Member	<input type="checkbox"/>	\$650
Students	<input type="checkbox"/>	\$200

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

Membership – Join now and save on your Symposium registration. Visit www.surfaces.org for complete member benefit information.

Corporate Annual Membership Rates (includes one full conference registration & one exhibit option) \$2,500

Smaller Corporations (less than 50 employees) (includes one full conference registration & one exhibit option) \$2,000

Academic Membership (one discounted full conference registration at half the member price and one free exhibit option) \$625

Individual Membership (entitles registration at Member rates) \$50

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.) _____

Cardholder Signature _____

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

Cancellation Policy: With written cancellation notice, received by Oct. 15, 2008 you will receive a full refund, less a \$50 administrative charge. Cancellations after Oct. 15, 2008 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.

(For office use only)

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