

Biomedical Polymers Workshop

Friday - continued

- 8:30 AM **Allen S. Hoffman**, University of Washington
"Novel Polymers and Hydrogels for Medical Diagnostics"
- 9:15 AM **Vickery Trinkaus-Randall**, Boston University
"Polymer/Cell Interactions in the Development of an Artificial Cornea"
- 10:00 AM *Break*
- 10:30 AM **Linda Cima**, Massachusetts Inst. of Technology
"Polymer Substrates for Cell-Based Artificial Organs"
- 11:15 AM **Patrick Aebischer**, Brown University
"Physical Properties of Polymers for Nerve Regeneration and Induction"
- 12:00 Noon *Lunch*
- 1:25 PM Discussion Leader: **Shalaby S. Shalaby**, Clemson University
- 1:30 PM **Sung Wan Kim**, University of Utah
"Insulin-Peritoneal Self-Regulated Drug Delivery"
- 2:15 PM **Jindrich Kopecek**, University of Utah
"Novel Polymers for Drug Targeting"
- 3:00 PM *Break*
- 3:30 PM **James Brauker**, Baxter Healthcare Corp.
"Microarchitecture of Polymers Determines Soft Tissue Response to Implants"
- 4:15 PM **Robert C. Johnson**, Baxter Healthcare Corp.
"Membrane Requirements for Cellular Transportation Devices"

Saturday, November 21, 1992

- 8:25 AM Introductory Remarks: **Bill Culbertson**
Discussion Leader: **Sumita Mitra**, 3M Company
- 8:30 AM **Jeffrey O. Hollinger**, Walter Reed Army Medical Center
"Can Biodegradable Materials Be Used to Regenerate Bone?"
- 9:15 AM **Joseph M. Antonucci**, National Institute of Standards and Technology
"Past, Present and Future in Dental and Maxillofacial Materials"
- 10:00 AM *Break*
- 10:30 AM **Nir Kossovsky**, Univ. of California at Los Angeles
"Issues and Perspectives on the Biocompatibility of New Biomaterials and Biomedical Devices"
- 11:15 AM TBA
- 12:00 Noon Concluding Remarks

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Division of Polymer Chemistry, Inc.
American Chemical Society
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Blacksburg, VA 24061-0212

Opportunities in the 21st Century for Biomedical Polymers

An Interdisciplinary Workshop

November 19 - 21, 1992

Sponsored by

THE DIVISION OF POLYMER CHEMISTRY

AMERICAN CHEMICAL SOCIETY



and

Abbott Laboratories
Johnson & Johnson
Bausch & Lomb
3M

Held at

DOUBLETREE RESORT

at

Desert Princess
Palm Springs, California

Biomedical Polymers Workshop

HOUSING & REGISTRATION

The Doubletree Resort is located in a very scenic area of Palm Springs within a five minute ride from the Palm Springs International Airport. Room reservations should be made directly with the hotel (phone: 619-322-7000; fax: 619-322-6853; toll free: 1-800-637-0577) with room rates of \$90 single or double occupancy. Hotel rooms are limited and early registration is suggested. Identify the American Chemical Society when making your reservations to get the conference rate. The registration fee for the meeting is \$460 per participant and \$250 for accompanying guests that includes a Welcome Reception, four breakfasts, a mixer and a banquet.

To register for the Biomedical Polymers Workshop, please send completed registration form and remittance, made payable to **ACS Division of Polymer Chemistry, Inc.**, to: Diane M. Morrill, Division of Polymer Chemistry, Inc., 1103 Hahn Hall, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0212. Phone: 703-231-3029; Fax: 703-231-8517.

REGISTRATION FORM

Opportunities in the 21st Century for Biomedical Polymers Workshop

November 19-21, 1992
Doubletree Resort at Desert Princess
Palm Springs, California

Name _____

Organization _____

Mailing Address _____

City _____ State _____ Zip _____

Tel: (Business) _____ Fax: _____

Accompanying Guest _____

Amount Enclosed \$ _____

VISA OR MASTERCARD (circle one)

Account # _____ Exp. Date _____

Signature _____

American Airlines is offering up to 40% off their coach fare and 5% off their super saver fare to conference participants. Reservations may be made by calling American at 1-800-433-1790 and asking for the meeting services desk. Refer to our star record 05Z2V3 when requesting your reservation.

Cancellation in writing after October 18, 1992 subject to \$25 fee.

Opportunities in the 21st Century for Biomedical Polymers

The Polymer Chemistry, Inc., Division of the American Chemical Society, is sponsoring a workshop on the topic "Opportunities in the 21st Century for Biomedical Polymers". The Society for Biomaterials has endorsed the event. The workshop immediately precedes the Division's 16th Biennial Symposium titled, "Advances in Polymerization and Polymeric Materials" (November 22-25), which is also scheduled for the same location. The interdisciplinary workshop is a two and one-half day event, featuring international leaders giving plenary lectures in various areas of biomaterials research and development. Topics covered generally fall under the more traditional medical areas, e.g., orthopedic, cardiovascular, ophthalmology, plastic and reconstructive, dental and maxillofacial, etc., to maximize interactive domains.

The workshop is targeted for both the industrial and academic community, with special emphasis on the aspect of opportunities for both the big and the little in the industrial sector. Organizers for the workshop seek to maximize interaction between players in the biochemical, medical technology, polymers pharmacology, etc., disciplines, focusing on the interface as an opportunities zone.

Two types of invited tutorial lectures will be given in the various selected topical areas. A scientist/clinician will open a session, covering aspects of what we have, what are the problems, what do we need, etc. Another speaker in that session, a polymers or materials scientist, who has worked in the area and understands material constraints, will focus on some concepts to get to where we need to be. Additional speakers will flesh out each topical area. Panel discussions will give further needed focus on how research being done can be built on for continued basic research and clinical therapeutics. Organizers also seek to establish interaction between the clinical scientist and industrial decision makers in the biomaterials R&D arena.

Posters are welcome and will constitute an important part of the workshop. Those wishing to contribute a poster should contact Judy Riffle at Virginia Polytechnic Institute and State University, at telephone, 703-231-8214 or via fax at 703-231-8517.

In addition to the five sessions devoted to lectures, the program will also include a reception for participants on Wednesday evening, November 18, and a poster session/mixer on late Thursday, November 19, and a banquet on Friday evening, November 20.

Further information regarding the program, posters, etc., can be obtained from the following co-chairs: Bill M. Culbertson, The Ohio State University, College of Dentistry, 305 W. 12th Avenue, Columbus, Ohio 43210, (phone: 614-292-0777; fax: 614-292-7619) and James M. Anderson, Institute of Pathology, Case Western Reserve University, Cleveland, Ohio, (phone: 216-844-1012; fax: 216-844-8004).

Biomedical Polymers Workshop

THE PROGRAM

Wednesday, November 18, 1992

7:00-9:00 PM Welcome Reception
7:00-8:00 PM Registration

Thursday, November 19, 1992

8:00 AM Registration
8:20 AM Introductory Remarks: **James M. Anderson**, Case Western Reserve University
Discussion Leader: **Paul L. Valint**, Bausch & Lomb
8:30 AM **Buddy D. Ratner**, Univ. of Washington,
"Issues and Perspectives on the Biocompatibility of New Biomaterials and Biomedical Devices"
9:15 AM **Patrick T. Cahalan**, Medtronic, Inc.
"Processes for the Modification of Biomedical Devices"
10:00 AM Break
10:30 AM **Roger E. Marchant**, Case Western Reserve Univ.
"Surface Modification and Immobilization Techniques on Biomaterials"
11:15 AM **Robert C. Eberhart**, Univ. of Texas Southwestern Medical Center
"Modified Surfaces and the Regulation of Thrombosis"
12:00 Noon Lunch
1:25 PM Discussion Leader: **Peter J. Tarcha**, Abbott Laboratory
1:30 PM **Peter C. Johnson**, University of Pittsburgh
"Surface Blockade of Adhesive Ligands to Reduce Polymer Thrombogenesis"
2:15 PM **Jeffrey A. Hubbell**, The Univ. of Texas at Austin
"Peptide Modified Surfaces"
3:00 PM Break
3:30 PM **Howard P. Greisler**, Loyola University
"Polymer Design for Vascular Prosthesis Biological Response"
4:15 PM **James M. Anderson**, Case Western Reserve Univ.
"Inflammatory Cell Interactions with Biomedical Polymers"
5:15 PM Poster Session
Discussion Leader: **Judy S. Riffle**, Virginia Polytechnic Institute and State University

Friday, November 20, 1992

8:25 AM Introductory Remarks: **Bill Culbertson**, Ohio State University
Discussion Leader: **William Johnson**, Baxter Healthcare Corp.

(Friday schedule continued on other side)