

MATERIALS TECHNOLOGY FOR COMPETITIVE ADVANTAGE

St. Petersburg Beach, FL * November 20-24, 1993

Saturday, November 20, 1993

5:00-7:00 PM Registration
7:00-9:00 Welcoming Reception

Sunday, November 21, 1993

7:30 AM Breakfast

Session: **Electronic, Photonic, & Optical Materials**
Chairman: Dr. Murrae Bowden, Bellcore

8:45 Introductory Remarks
9:00 **Dr. John Rabolt**, IBM
"Challenges and Opportunities for
Polymers in Microelectronics"
9:45 **Dr. Samuel Stupp**, University of Illinois
"Advanced Materials & Molecular
Objects: 2-Dimensional Polymers"
10:30 Break
10:50 **Dr. Robert Grubbs**, California Institute of
Technology
"Polymer Synthesis Using
Transition Metal Initiators"
11:35 **Dr. Sukant Tripathy**, University of
Massachusetts-Lowell
"Non-Linear Optical Materials for Photonic
Technologies"
12:20 PM **Dr. Bruce Booth**, Dupont
"Polymeric Optical Interconnects"

Plenary Panel: **"Technology Gaps & Implementation
Opportunities"**

Moderator: **Dr. Judith L. Benham**, 3M

4:30 **Dr. M. George Allen**, Sr VP of R&D, 3M
Dr. James Economy, Professor
University of Illinois
Dr. Curtis Frank, Professor,
Stanford University
Dr. Mary Good, UnderSecretary of
Technology, Department of Commerce
Dr. John Gudas, Program Manager
Advanced Materials, ATP, NIST
Dr. William Harris, Asst Dir for Mathematical
& Physical Sciences, NSF
Dr. John Rabolt, Staff Scientist, IBM

6:30 Mixer

Monday, November 22, 1993

7:30 AM Breakfast

Session: **Biomaterials**Chairman: **Dr. Shalaby Shalaby**, US Surgical

9:00 Introductory Remarks
9:10 **Dr. Donald Gibbons**, 3M
"Challenges in Commercialization
of Biomaterials"
9:55 **Dr. Nicholas Peppas**, Purdue University
"Developments in Biomedical
Research Polymers"
10:40 Break
11:00 **Dr. Allan Hoffman**, University of
Washington
"Polymer Biomolecule Conjugates"
11:45 **Dr. David Tirrell**, University of
Massachusetts - Amherst
"Biocatalytic Synthesis of New
Materials"

4:30

Dr. Buddy Ratner, University of
Washington
"Plasma Deposited Thin Films:
Surface Characterization & Biomedical
Applications"

5:15

Dr. Matthew Hermes, University of
Wyoming
"Good, Fast, & Cheap: Critical
Decisions in the Development Cycle"
Posters: "Interdisciplinary Initiatives"

6:00

Tuesday, November 23, 1993

7:30 Breakfast

Session: **Adhesives/Adhesion**Chairman: **Dr. Vince Hughes**, Exxon

9:00 Introductory Remarks
9:10 **Dr. Ray Dickie**, Ford Motor Co
"Technological Imperatives for
Automotive Adhesive Bonding"
9:55 **Dr. James McGrath**, Virginia
Polytechnic Institute & State University
"Recent Integrated Efforts in Polymeric
Adhesives"
10:40 Break
11:00 **Dr. Richard Talbott**, 3M
"Novel Branched Block Polymers"
11:45 **Dr. Jeffrey Koberstein**, University of
Connecticut
"Use of Polymer End Groups for
Adhesion Promotion"

Session: **Academic & Industrial Connections**Chairman: **Dr. Lawrence Clemens**, 3M

5:00 **Dr. Alexander MacLachlan**, Sr VP of
R&D, DuPont
"Challenges in Partnering Between
Academia & Industry"
6:00 Reception
7:00 Banquet

Wednesday, November 24, 1993

7:30 Breakfast

Session: **Adhesives/Adhesion**Chairman: **Dr. Alphonsus Pocius**, 3M

8:20 Introductory Remarks
8:30 **Dr. Paul Hergenrother**, NASA Langley
Research Center
"Structural Adhesives for the Aerospace
Industry--The Impact of Foreign
Competition"
9:15 **Dr. Judy Riffle**, Virginia Polytechnic
Institute & State University
"High Temperature Polymer
Particulates"
10:00 Break
10:20 **Dr. Joseph Kennedy**, University of Akron
"Investment Opportunities by Cationic
Polymerization: Novel Engineering and
Biomaterials"
11:05 **Dr. Manoj Choudhury**, Lehigh University
"Self-Assembling Monolayers and their
Application to Adhesives and
Adhesion Science"
11:50 Closing Remarks - Judith Benham

ACS Division of Polymer Chemistry
MATERIALS TECHNOLOGY FOR COMPETITIVE ADVANTAGE
St. Petersburg Beach, FL * November 20-24, 1993

SCHEDULE CHANGE

Sunday, November 21, 1993

3:00 Plenary Panel: "Technology Gaps and Implementation Opportunities"

5:00 Mixer