

MRS**MATERIALS
RESEARCH
SOCIETY**

CALL FOR PAPERS

**November 27–
December 2, 1989****Boston, Massachusetts****Boston Marriott Hotel
and Westin Hotel
Copley Place****Abstract
Deadline:
July 1, 1989**

Papers are being solicited for the following 24 topical symposia scheduled for the 1989 Fall Meeting of the Materials Research Society to be held November 27 to December 2 in Boston, Massachusetts. The symposia will share a common goal of discussing new materials developments, new characterization methods, or new process technologies. Each symposium will provide a forum for exchanging ideas at the forefront of research by experts in the field. Topics will be treated at a sophisticated level, in an interdisciplinary way, so all possible physical, chemical, and engineering insights can be considered.

For complete details about topics and submission of abstracts, see the Call for Papers booklet mailed to all MRS members. Copies of the Call for Papers can also be obtained from the Materials Research Society
9800 McKnight Road, Suite 327
Pittsburgh, PA 15237
telephone (412) 367-3003
fax (412) 367-4373.

Symposium A—Beam-Solid Interactions: Physical Phenomena

Organizers: James A. Knapp, Sandia National Laboratories, (505) 844-2305, fax (505) 846-2009; Ray A. Zuhr, Oak Ridge National Laboratory, (615) 576-6722, fax (615) 574-4143; Peter Borgesen, Cornell University, (607) 255-5190, fax (607) 255-2365

Symposium B—In-Situ Patterning: Selective Area Deposition and Etching

Organizers: Robert Rosenberg, IBM T.J. Watson Research Center, (914) 945-1888, fax (914) 945-2141; Anthony F. Bernhardt, Lawrence Livermore National Laboratory, (415) 423-7801, fax (415) 422-7309; Jerry G. Black, Massachusetts Institute of Technology, (617) 981-4721

Symposium C—Atomic-Scale Structure of Interfaces

Organizers: R.D. Bringans, Xerox PARC, (415) 494-4156, fax (415) 494-4105; R.M. Feenstra, IBM T.J. Watson Research Center, (914) 945-2492, fax (914) 945-2141; J. Murray Gibson, AT&T Bell Laboratories, (201) 582-5952, fax (201) 582-2451

Symposium D—Layered Structures: Heteroepitaxy, Superlattices, Strain and Metastability

Organizers: Leo J. Schowalter, Rensselaer Polytechnic Institute, (518) 276-6435, fax (518) 276-2732; Fred H. Pollak, Brooklyn College of SUNY, (718) 780-5356, fax (718) 951-7440; Brian W. Dodson, Sandia National Laboratories, (505) 844-5459, fax (505) 846-2009; Jack E. Cunningham, AT&T Bell Laboratories, (201) 949-8236, fax (201) 949-6010

Symposium E—Properties of II-VI Semiconductors: Bulk Crystals, Epitaxial Films, Quantum Well Structures, and Dilute Magnetic Systems

Organizers: Jan F. Schetzina, North Carolina State University, (919) 737-3314, fax (919) 737-7331; Fil J. Bartoli, Jr., Naval Research Laboratory, (202) 767-3276, fax (202) 767-4102; Herb F. Schaake, Texas Instruments, (214) 995-5842, fax (214) 995-5539

Symposium F—Diamond, Boron Nitride, Silicon Carbide and Related Wide Bandgap Semiconductors

Organizers: Jeffrey T. Glass, North Carolina State University, (919) 737-7216, fax (919) 737-3419; Russell Messier, Pennsylvania State University, (814) 865-1174, fax (814) 865-3704; Naoji Fujimori, Sumitomo Electric Industries, Japan, (0727) 71-0621, fax (0727) 70-6727

Symposium G—Impurities, Defects and Diffusion in Semiconductors: Bulk and Layered Structures

Organizers: J. Bernholc, North Carolina State University, (919) 737-3126, fax (919) 737-7331; E.E. Haller, University of California at Berkeley, (415) 486-5294, fax (415) 486-5401; D.J. Wolfard, IBM T.J. Watson Research Center, (914) 945-2553, fax (919) 945-1436

Symposium H—Materials Issues in Microcrystalline Semiconductors

Organizers: Philippe M. Fauchet, Princeton University, (609) 452-4416, fax (609) 987-6744; Kazunobu Tanaka, Electrotechnical Laboratory, Japan, 0298-54-5243, fax (81) 0298-585344; Chuang C. Tsai, Xerox PARC, (415) 494-4515, fax (415) 493-6349

Symposium I—Characterization of Plasma-Enhanced CVD Processes

Organizers: Gerald Lucovsky, North Carolina State University, (919) 737-3301, fax (919) 737-7331; Dennis W. Hess, University of California at Berkeley, (415) 642-4862, fax (415) 642-8369; Dale E. Ibbotson, AT&T Bell Laboratories, (201) 582-2838, fax (201) 582-2913

Symposium J—Neutron Scattering for Materials Science

Organizers: Stephen M. Shapiro, Brookhaven National Laboratory, (516) 282-3822, fax (516) 282-2739; Simon C. Moss, University of Houston, (713) 749-2840, fax (713) 747-4527; James D. Jorgensen, Argonne National Laboratory, (312) 972-5513, fax (312) 972-3308

Symposium K—Advanced Electronic Packaging Materials

Organizers: A. Barfknecht, Lawrence Livermore National Laboratory, (415) 422-7702, fax (415) 422-7309; Che-Yu Li, Cornell University, (607) 255-4349, fax (607) 255-2365; J. Partridge, IBM T.J. Watson Research Center, (914) 945-3113, fax (914) 945-2141; C. Julian Chen, IBM T.J. Watson Research Center

Symposium L—Chemical Vapor Deposition of Refractory Metals and Ceramics

Organizers: Theodore M. Besmann, Oak Ridge National Laboratory, (615) 574-6852, fax (615) 574-4913; Bernard M. Gallois, Stevens Institute of Technology, (201) 420-5263, fax (201) 420-1606

Symposium M—High-Temperature Superconductors: Fundamental Properties and Novel Materials Processing

Organizers: Jagdish Narayan, North Carolina State University, (919) 737-7874, fax (919) 737-7642; Paul Chu, University of Houston, (713) 749-2842, fax (713) 747-4527; David Christen, Oak Ridge National Laboratory, (615) 574-6269, fax (615) 574-4143; Lynn Schneemeyer, AT&T Bell Laboratories, (201) 582-5318, fax (201) 582-2783

Symposium N—Tailored Interfaces in Composite Materials

Organizers: Carlo G. Pantano, Pennsylvania State University, (814) 863-2071, fax (814) 865-2917; Eric J.H. Chen, E.I. duPont de Nemours & Co., (302) 695-3030, fax (302) 695-1717

Symposium O—Polymer-Based Molecular Composites

Organizers: Dale W. Schaefer, Sandia National Laboratories, (505) 844-7937; fax (505) 846-2009; James E. Mark, University of Cincinnati, (513) 556-9292

Symposium P—Optical Fiber Materials and Processing

Organizers: James W. Fleming, AT&T Bell Laboratories, (201) 582-4499; fax (201) 582-2913; George H. Sigel, Rutgers University, (201) 932-4729; fax (201) 932-3258; S. Takahashi, NTT Corporation, Japan; P.W. France, British Telecom Research Laboratory, United Kingdom

Symposium Q—Electrical, Optical, and Magnetic Properties of Organic Solid State Materials

Organizers: Long Y. Chiang, Exxon Research & Engineering Company, (201) 730-2565, fax (201) 730-3042; Paul Chaikin, Princeton University, (609) 452-4338; fax (609) 452-6360; Dwaine Cowan, Johns Hopkins University, (301) 338-7425

Symposium R—Materials Synthesis Utilizing Biological Processes

Organizers: Peter C. Rieke, Battelle Pacific Northwest Laboratory, (509) 375-2833, fax (509) 375-2059; Mark Alper, University of California at Berkeley, (415) 486-6581, fax (415) 486-4995; Paul D. Calvert, University of Arizona, (602) 322-2960, fax (602) 322-2993

Symposium S—Multi-Functional Materials

Organizers: Donald R. Ulrich, AFOSR, (202) 767-4963, fax (202) 767-4977; Alan J. Buckley, Hoechst Celanese Research Co., (201) 522-7788, fax (201) 522-3913; Frank Karasz, University of Massachusetts, (413) 545-4783, fax (413) 253-5295; George Gallagher-Daggitt, Ministry of Defense, United Kingdom, (011) 44-218-0550

Symposium T—Fractal Aspects of Materials

Organizers: J.H. Kaufman, IBM Almaden Research Center, (408) 927-2477, fax (408) 927-2100; James E. Martin, Sandia National Laboratories, (505) 844-9125, fax (505) 846-2009; P.W. Schmidt, University of Missouri, (314) 882-8241

Symposium U—Scientific Basis for Nuclear Waste Management XIII

Organizers: Virginia M. Oversby, Lawrence Livermore National Laboratory, (415) 423-2228, fax (415) 422-3360; Paul W. Brown, Penn State University, (814) 865-5352, fax (814) 865-2326

Symposium V—Macromolecular Liquids

Organizers: Cyrus R. Safinya, Exxon Research & Engineering Company, (201) 730-2887, fax (201) 730-3042; Samuel Safran, Exxon Research & Engineering Company, (201) 730-2886, fax (201) 730-3042; Philip A. Pincus, University of California, Santa Barbara, (805) 961-4685

Symposium W—Fly Ash and Coal Conversion By-Products: Characterization, Utilization and Disposal VI

Organizers: F.P. Glasser, University of Aberdeen, Scotland, (0) 224 27 2906; Robert L. Day, University of Calgary, (403) 941-3438

Symposium X—Frontiers of Materials Research

Organizer: Rustum Roy, Pennsylvania State University, (814) 865-3421, fax (814) 865-2326

For general information on the technical program for the meeting, contact any of the 1989 Fall Meeting Chairs:

Gary L. McVay
Pacific Northwest Laboratories
P.O. Box 999
Richland, WA 99352
Telephone (509) 375-3762
Fax (509) 375-2059

James C. Mikkelsen, Jr.
Electronics & Imaging Laboratory
Xerox Palo Alto Research Center
3333 Coyote Hill Road
Palo Alto, CA 94304
Telephone (415) 494-4917
Fax (415) 494-4502

Robert J. Nemanich
Department of Physics
North Carolina State University
Box 8202
Raleigh, NC 27695-8202
Telephone (919) 737-3225
Fax (919) 737-7331