

CALL FOR PAPERS

Materials Research Society 1988 Fall Meeting

November 28-December 3, 1988

Boston Marriott Hotel and Westin Hotel/Copley Place
Boston, Massachusetts

ABSTRACT DEADLINE: June 10, 1988

Papers are being solicited for the following 25 topical symposia scheduled for the 1988 Fall Meeting of the Materials Research Society to be held November 28 to December 3 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 — Processing and Characterization of Materials Using Ion Beams

Organizers: Lynn E. Rehn, Argonne National Laboratory, Materials Science Division (312) 972-5021; Joe E. Green, University of Illinois, Coordinated Science Laboratory (217) 333-0747; Fred Smidt, Naval Research Laboratory (202) 767-4800

Symposium B — Laser and Particle-Beam Chemical Processes on Surfaces

Organizers: A. Wayne Johnson, Sandia National Laboratories (505) 844-8782; Gary Loper, Aerospace Corporation (213) 336-7418; Tom W. Sigmon, Stanford University Electronics Laboratories (415) 723-0426

Symposium C — Thin Films: Stresses and Mechanical Properties

Organizers: J.C. Bravman, Stanford University, Department of Materials Science and Engineering (415) 723-3698; D.M. Barnett, Stanford University, Department of Materials Science and Engineering (415) 723-4143; W.D. Nix, Stanford University, Department of Materials Science and Engineering (415) 725-2605; David Smith, IBM T.J. Watson Research Center (914) 945-2512

Symposium D — Advanced Methods for Characterizing the Surfaces/Interfaces of Materials

Organizers: I.E. Wachs, Lehigh University, Department of Chemical Engineering (215) 758-4274; A. Madhukar, University of Southern California Department of Materials Science (213) 743-6929; R. Nuzzo, AT&T Bell Laboratories, Materials Science Research and Engineering (201) 582-5486

Symposium E — Chemical Perspectives of Microelectronic Materials

Organizers: Mihal E. Gross, AT&T Bell Laboratories (201) 582-4504; Joseph Jasinski, IBM T.J. Watson Research Center (914) 945-1245; John T. Yates, University of Pittsburgh, Department of Chemistry (412) 624-8320

Symposium F — Preparation and Materials Properties of High Temperature Superconductors

Organizers: Roger H. Koch, IBM T.J. Watson Research Center (914) 945-2393; Simon Foner, Massachusetts Institute of Technology, National Magnet Laboratory (617) 253-5572; John Clarke, University of California-Berkeley, Department of Physics (415) 642-3069

Symposium G — Multicomponent Ultrafine Microstructures

Organizers: Donald E. Polk, Office of Naval Research (202) 696-4401; Bernard H. Kear, Rutgers University, Department of Mechanics and Materials Science (201) 932-2245; Richard W. Siegel, Argonne National Laboratory (312) 972-4963

Symposium H — High Temperature Ordered Intermetallic Alloys

Organizers: Carl Koch, North Carolina State University, Materials Engineering Department (919) 737-2377; N.S. Stoloff, Rensselaer Polytechnic Institute, Materials Engineering Department (518) 266-6436; C.T. Liu, Oak Ridge National Laboratory, Metals and Ceramics Division (615) 574-4459; A.I. Taub, GE Corporate R&D (518) 387-6234

Symposium I — Liquid Crystal Polymers

Organizers: Samuel I. Stupp, University of Illinois at Urbana-Champaign, Department of Materials Science and Engineering (217) 333-4436; Claudine Noel, Ecole Supérieure de Physique et Chimie Industrielles, France (33) 14-337-7700; Robert W. Lenz, University of Massachusetts, Department of Polymer Science and Engineering (413) 545-1375

Symposium J — Materials Science and Engineering of Rigid Rod Polymers

Organizers: W.W. Adams, Air Force Materials Lab, Polymer Branch (513) 255-9148; Donald McLemore, Dow Chemical Company (517) 636-8243; Ronald Eby, Johns Hopkins University, Department of Materials Science and Engineering (301) 338-7142

Symposium K — Materials Science of Mineralized Biological Tissues

Organizers: Wendell S. Williams, Case Western Reserve, Department of Materials Science and Engineering (216) 368-6485; George V.B. Cochran, Helen Hayes Hospital, Biomechanics Laboratory (914) 947-3000

Symposium L — Graphite Intercalation Compounds: Science and Applications

Organizers: M.S. Dresselhaus, Massachusetts Institute of Technology (617) 253-6864; G. Dresselhaus, Massachusetts Institute of Technology (617) 253-6867; M. Endo, Shinshu University, Japan (81) 0262-26-4101

Symposium M — Solid State Ionics

Physical Chemistry Department (313) 986-0737; Duward Shriver, Northwestern University, Department of Chemistry (312) 491-5655; Robert Huggins, Stanford University, Department of Materials Science and Engineering (415) 725-2608; P.J. Wu, Materials Research Laboratories, Industrial Technical Research Institute, Taiwan.

Symposium N — Fractal Aspects of Materials: Disordered Systems

Organizers: David A. Weitz, Exxon Research & Engineering (201) 730-3536; Benoit B. Mandelbrot, IBM T.J. Watson Research Center (914) 945-1712; Len Sander, University of Michigan, Department of Physics (313) 764-4471

Symposium O — Fly Ash and Coal Conversion By-Products: Characterization, Utilization and Disposal V

Organizer: E.E. Berry, Ontario Research Foundation, Canada (416) 822-4111

Symposium P — Pore Structure and Permeability of Cementitious Materials

Organizers: L.R. Roberts, W.R. Grace & Co., Construction Products Division (617) 876-1400; Jan P. Skalny, W.R. Grace & Co., Washington Research Center (301) 531-4597

Symposium Q — Characterization of the Structure and Chemistry of Defects in Materials

Organizers: Bennett C. Larson, Oak Ridge National Laboratory, Solid State Division (615) 574-5506; David N. Seidman, Northwestern University, Department of Materials Science (312) 491-4391; Manfred Ruhle, University of California-Santa Barbara, Materials Department (805) 961-8275

Symposium R — High Resolution Microscopy of Materials

Organizers: William Krakow, IBM T.J. Watson Research Center (914) 945-1759; Fernando A. Ponce, Xerox Palo Alto Research Center (415) 494-4199; David J. Smith, Arizona State University, Center for Solid State Science (602) 965-4540

Symposium S — New Materials Approaches to Tribology: Theory and Applications

Organizers: Larry E. Pope, Sandia National Laboratories (505) 844-5041/8778; Ward O. Winer, Georgia Institute of Technology, School of Mechanical Engineering (404) 894-3270; Larry Fehrenbacher, Technology Assessment & Transfer, Inc. (301) 261-8373

Symposium T — Atomic Scale Calculations in Materials Science

Organizers: Jerry D. Tersoff, IBM T.J. Watson Research Center (914) 945-3138; David H. Vanderbilt, Harvard University, Lyman Laboratory of Physics (617) 495-7977

Symposium U — Nondestructive Monitoring of Materials Properties

Organizers: John H. Holbrook, Battelle Columbus (614) 424-4357; Jean Bussiere, National Research Council Canada (514) 641-2280

Symposium V — Synchrotron Radiation in Materials Research

Organizers: John Weaver, University of Minnesota, Department of Chemical Engineering and Materials Science (612) 625-6548; Roy Clarke, University of Michigan, Department of Physics (313) 764-4466; John Gland, Exxon Research & Engineering (201) 730-2748

Symposium W — Advances in Materials, Processing and Devices in III-V Compound Semiconductors

Organizers: Devendra K. Sadana, IBM T.J. Watson Research Center (914) 945-2423; Lester Eastman, Cornell University, Department of Electrical Engineering (607) 255-4369; Russell Dupius, AT&T Bell Laboratories (201) 582-4075

Organizers: Rustum Roy, Pennsylvania State University, Materials Research Laboratory (814) 865-3421

Symposium Y — Selected Topics in Electronic Materials

Organizers: B.R. Appleton, Oak Ridge National Laboratory, Solid State Division (615) 574-6283; David K. Biegelsen, Xerox Palo Alto Research Center (415) 494-4137; Walter L. Brown, AT&T Bell Laboratories (201) 582-3941; James A. Knapp, Sandia National Laboratories (505) 844-2305

For general information on the technical program for the meeting, contact any of the 1988 Fall Meeting Chairs:

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