

European Materials Societies Sponsor Conference on Advanced Materials and Processes

The first European Conference on Advanced Materials and Processes, a conference of the Federation of European Materials Societies, will be held November 22-24, 1989 in Aachen, West Germany. Organization of EUROMAT'89 is being undertaken by the Deutsche Gesellschaft für Metallkunde, The Institute of Metals, Société Française de Métallurgie, and Schweizerischer Verband für Materialtechnik in cooperation with numerous other materials-oriented societies and groups in Europe.

General topics to be highlighted at the conference include advanced processing, special materials, high technology applications, basic phenomena, and innovative analysis methods. Specific areas will be featured in each of these general topics, including

- Near net shape processing with optimized microstructures via casting, forging, and powder technology;
- High temperature materials and biomaterials;
- Materials science in electronic packaging and device technology;

- Interfacial reactions; and
- Recent developments in microscopy with special emphasis on materials applications of tunneling and acoustic scanning microscopy.

Leading specialists will present plenary talks to introduce the audience to the topics, and invited speakers will present overviews of the state-of-the-art in the conference topics. Contributed papers and posters will discuss recent technical developments and review scientific achievements. Ample time is planned for discussions.

For more information or to register, contact: EUROMAT'89 Conference Secretariat, Deutsche Gesellschaft für Metallkunde, Adenauerallee 21, D-6370 Oberursel, W. Germany; telephone 06171/4081, fax 06171/52554.

4th International Symposium on the Physical Metallurgy of Cast Iron to be Held in Tokyo

The Fourth International Symposium on the Physical Metallurgy of Cast Iron will be held September 4-6, 1989 at Arcadia Ichigaya situated in the center of Tokyo. The meeting is being sponsored by the Japan Council for the Promotion of Science, and the chair of the organizing committee is G.

Ohira, professor emeritus, Tohoku University.

The symposium will feature keynote speeches on the major topics as well as exhibits and demonstrations. Both theoretical and practical aspects of the following subjects will be discussed:

- Mechanism and modeling of cast iron solidification, including computer simulation, defect prediction, etc.;
- Formation of graphite and carbides in cast iron;
- Mechanical properties of cast iron, including fatigue strength, fracture, wear, etc.;
- Novel processing methods, including rapid cooling laser melting, etc.; and
- Inspection and evaluation of cast iron products.

The proceedings from this symposium will be published by the Materials Research Society as part of its Conference Proceedings series.

For information or to register, contact: Secretariat, 4th International Symposium on the

Physical Metallurgy of Cast Iron (SCI-4)
c/o Simul International, Inc.
Kowa Bldg. No. 9
8-10, Akasaka 1-chome
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CALL FOR CONTRIBUTED PAPERS

Symposium on Ceramics Research:

CHEMISTRY AND CERAMICS

October 6, 1989

University of New Mexico, Albuquerque, NM

The focus of this symposium is Chemistry and Ceramics. Contributed, original papers are solicited in research areas including material synthesis, surface and interfacial chemistry, and structure-property relationships. The program will include both oral presentations and a poster session. Fifteen minutes will be allotted for oral presentations, with an additional five minutes for discussion. One page abstracts (8 1/2" x 11" with 1 1/2" borders) in 10-pitch type, with headings that include the authors' names, affiliations, and addresses should be submitted to R.K. Brow at the address below. Abstract deadline is **July 15, 1989**.

The abstracts will be reproduced and made available at the symposium

Submit abstracts to:

R.K. Brow, Symposium Chairman, Ceramics Development Division 1845, Sandia National Laboratories, P.O. Box 5800, Albuquerque, NM 87185

This symposium is sponsored by the New Mexico Sections of the Materials Research Society and the American Ceramic Society.



1-9-8-9
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November 27-December 2, 1989
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Abstract Deadline:
July 1, 1989

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Beam-Solid Interactions: Physical Phenomena

James A. Knapp, Sandia National Laboratories, (505) 844-2305
Ray A. Zuhr, Oak Ridge National Laboratories, (615) 576-6722
Peter Borgesen, Cornell University, (607) 255-5190

In-Situ Patterning: Selective Area Deposition and Etching

Robert Rosenberg, IBM T.J. Watson Research Center, (914) 945-1888
Anthony F. Bernhardt, University of California, (415) 423-7801
Jerry G. Black, Massachusetts Institute of Technology, (617) 981-4721

Atomic Scale Structure of Interfaces

R.D. Bringans, Xerox Palo Alto Research Center, (415) 494-4156
R.M. Feenstra, IBM T.J. Watson Research Center, (914) 945-2492
J.M. Gibson, AT&T Bell Laboratories, (201) 582-5952

Layered Structures—Heteroepitaxy, Superlattices, Strain and Metastability

Leo J. Schowalter, Rensselaer Polytechnic Institute, (518) 276-6435
Fred H. Pollak, Brooklyn College of SUNY, (718) 780-5356
Brain W. Dodson, Sandia National Laboratories, (505) 844-5459
Jack E. Cunningham, AT&T Bell Laboratories, (201) 949-8236

Properties of II-VI Semiconductors:

Bulk Crystals, Epitaxial Films, Quantum Well Structures, and Dilute Magnetic Systems

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

Diamond, Boron Nitride, Silicon Carbide and Related Wide Bandgap Semiconductors

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Russell Messier, Pennsylvania State University, (814) 856-1174
Naoji Fujimori, Sumitomo Electric Industries, Japan (0727) 71-0621

Impurities, Defects and Diffusion in Semiconductors: Bulk and Layered Structures

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Materials Issues in Microcrystalline Semiconductors

Philippe M. Fauchet, Princeton University, (609) 452-4416
Kazunobu Tanaka, Electrotechnical Laboratory, Japan (0298)-54-5243
Chuang Chuang Tsai, Xerox Palo Alto Research Center, (415) 494-4515

Characterization of Plasma-Enhanced CVD Processes

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Dennis W. Hess, University of California at Berkeley, (415) 642-4862
Dale E. Ibbotson, AT&T Bell Laboratories, (201) 582-2838

Neutron Scattering for Materials Science

Stephen M. Shapiro, Brookhaven National Laboratory, (516) 282-3822
Simon C. Moss, University of Houston, (713) 749-2840
James D. Jorgensen, Argonne National Laboratory, (312) 972-5513

Advanced Electronic Packaging Materials

A. Barfknecht, Lawrence Livermore National Laboratories, (415) 422-7702
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J. Partridge, IBM T.J. Watson Research Center, (914) 945-3113
C. Julian Chen, IBM T.J. Watson Research Center

Chemical Vapor Deposition of Refractory Metals and Ceramics

Theodore M. Besmann, Oak Ridge National Laboratory, (615) 574-6852
Bernard M. Gallois, (201) 420-5263

High-Temperature Superconductors: Fundamental Properties and Novel Materials Processing

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Paul Chu, University of Houston, (713) 749-2842
David Christen, Oak Ridge National Laboratory, (615) 574-6269
Lynn Schneemeyer, AT&T Bell Laboratories, (201) 582-5318

Tailored Interfaces in Composite Materials

Carlo G. Pantano, Pennsylvania State University, (814) 863-2071
Eric J.H. Chen, E.I. duPont de Nemours & Company, (302) 695-3030

Polymer Based Molecular Composites

Dale W. Schaefer, Sandia National Laboratories, (505) 844-7937
James E. Mark, University of Cincinnati, (513) 556-9292

Optical Fiber Materials and Processing

James W. Fleming, AT&T Bell Laboratories, (201) 582-4499
George H. Sigel, Rutgers University, (201) 932-4729
S. Takahashi, NTT Corporation, Japan

P.W. France, British Telecom Research Laboratories, United Kingdom

Electrical, Optical, and Magnetic Properties of Organic Solid State Materials

Long Y. Chiang, Exxon Research & Engineering Company, (201) 730-2565
Paul Chaikin, Princeton University, (609) 452-4338
Dwayne Cowan, Johns Hopkins University, (301) 338-7425

Materials Synthesis Utilizing Biological Processes

Peter C. Rieke, Battelle Pacific Northwest Laboratories, (509) 375-2833
Mark Alper, University of California at Berkeley, (415) 486-6581
Paul D. Calvert, University of Arizona, (602) 322-2960

Multi-Functional Materials

Donald R. Ulrich, AFOSR/NC Bolling AFB, (202) 767-4963
Alan J. Buckley, Hoechst Celanese Research Company, (201) 522-7788
Frank E. Karasz, University of Massachusetts, (413) 545-4783
George Gallagher-Daggitt, Ministry of Defence, UK (011) 44-218-0550

Fractal Aspects of Materials

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

Scientific Basis for Nuclear Waste Management XIII

Virginia M. Oversby, Lawrence Livermore National Laboratory, (415) 423-2228
Paul W. Brown, Pennsylvania State University, (814) 865-5352

Macromolecular Liquids

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Samuel Safran, Exxon Research & Engineering Company, (201) 730-2886
Philip A. Pincus, University of California/Santa Barbara, (805) 961-4685

Fly Ash and Coal Conversion By-Products Characterization, Utilization and Disposal VI

F.P. Glasser, University of Aberdeen, Scotland, (0) 224 27 2906
Robert L. Day, University of Calgary, (403) 220-7489

Specialty Cements with Advanced Properties

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R. Huggins Stanford University	Evidence for verification of the Pons-Fleischmann results
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