

MATERIALS CALENDAR

*The Complete Guide To Technical Meetings
Of Interest To The Materials Science Community*

Exclusively in the MRS BULLETIN, notices of all major technical meetings of interest to the materials community have been brought together into a single, comprehensive calendar by the Materials Research Society. Prepared by Julia Phillips of AT&T Bell Laboratories, the calendar is continuously updated and appears in every issue of the BULLETIN.

Meetings sponsored by or affiliated with the Materials Research Society appear in boldface type.

AUGUST 1984

- 1-3 The Physics of VLSI
Palo Alto, CA
K. Saraswat, McCullough 118, Stanford Univ., Stanford, CA 94305
(415) 497-2956
- 1-3 3rd International Conference on MBE
San Francisco, CA
- 1-4 Topical Conference on Optical Effects in Amorphous Semiconductors
Salt Lake City, UT
W. W. Havens, Jr., 335 E 45 St., New York, NY 10017
(212) 661-9404
- 2-3 Spectroscopy of Shallow Centers in Semiconductors
UC Berkeley, CA
- 4-14 27th International Geological Congress
Moscow, USSR
Sec., 27th Int. Geological Cong., Inst. of Lithosphere, Academy of Sciences, 22 Staromonety, Moscow 109180, USSR
- 6-10 International Conference on the Physics of Semiconductors
San Francisco, CA
R. Z. Bachrach, Xerox Palo Alto Res. Ctr., 3333 Coyote Hill Road, Palo Alto, CA 94304
- 12-17 Meeting of the Electron Microscopy Society of America
Detroit, MI
C. E. Lyman, Central Research & Development Dept., E. I. DuPont, Experimental Sta., Wilmington, DE 19898
(302) 772-4887
- 13-16 1st International Conference on the Structure of Surfaces
Berkeley, CA
M. A. VanHove, Dept. of Chem., Univ. of CA, Berkeley, CA 94720
- 13-16 International Conference on Superlattices, Microstructures and Microdevices
Champaign-Urbana, IL
J. D. Dow, Dept. of Phys., Univ. of Notre Dame, Notre Dame, IN 46556
(219) 239-6407
- 13-17 13th International Conference on Defects in Semiconductors
Coronado, CA
- 13-17 6th International Conference on Thin Films
Stockholm, Sweden
S. Berg, ICTF-6, Inst. of Tech., Uppsala Univ., Box 534, 751 21 Uppsala, Sweden
- 13-17 International Conference on Luminescence
Madison, WI
W. H. Yen, Dept. of Physics, 1150 Univ. Av., Madison, WI 53706
- 13-18 8th European Conference on Electron Microscopy
Budapest, Hungary
Congress Bureau, MOTESZ, Budapest, POB32, H-1361, Budapest, Hungary
- 15-17 International Conference on Progress in Optical Physics
ICO-Australian Acad. of Science
Melbourne, Australia
I. J. Wilson, CSIRO Div. of Chem. Phys., PO Box 160, Clayton, Vic., Australia 3168
- 15-22 17th International Conference on Low Temperature Physics
Karlsruhe, FRG
H. Hinsch, LT-17 Conf. Sec., Kernforschungszentrum, Postfach 3640, 7500 Karlsruhe, FRG
- 19-22 AIChE Summer National Meeting
Philadelphia, PA
AIChE, Meetings Dept., 345 E. 47 St., New York, NY 10017
(212) 705-7320
- 20-24 International Conference on Defects in Insulating Crystals
Salt Lake City, UT
F. Luty, Dept. of Phys., Univ. of Utah, Salt Lake City, UT 84112
(801) 581-7446
- 26-29 International Topical Meeting on Fuel Reprocessing and Waste Management
Jackson Hole, WY
W. McClure, PO Box 3807, Idaho Falls, ID 83401
- 26-31 188th National Meeting of the American Chemical Society
Philadelphia, PA
American Chem. Soc., 1155 16th St., NW, Washington, DC 20036
- 27-31 3rd International Conference on Solid Films and Surfaces
Sydney, Australia
D. J. Miller, Sch. of Phys., Univ. of New South Wales, POB 1, Kensington, NSW 2033 Australia
- 27-31 6th General Conference of the European Physical Society
Prague, Czechoslovakia
Phys. Sec., Union of Czech. Mathematicians & Physicists, Na Slovance 2, 182 00, Prague 8, Czech.
- 29-31 3rd International Symposium on Physical Metallurgy of Cast Iron
Stockholm, Sweden
Secretariat, Symposium on Cast Iron CI 3,
Materials Research Center,
Royal Institute of Technology
S-100 44 Stockholm, Sweden**

- 29-31 Conference on the Mechanical Characterization of Load Bearing Fiber Composite Laminates
Brussels, Belgium
Prof. A. Cardon, Faculty of Applied Science
Telephone: 32-2-641-2923
- 9-12 37th Gaseous Electronics Conference
Boulder, CO
W. W. Havens, Jr., 335 E. 45 St., New York, NY 10017
(212) 661-9404

SEPTEMBER 1984

- 3-7 5th International Conference on Rapidly Quenched Metals
Wurzburg, FRG
RQ 5, Postfach 2253, D-6450 Hanau, FRG
- 4-7 International Conference on Fatigue
Birmingham, England
- 10-13 8th International Symposium on Chemical Reaction Engineering
Edinburgh, Scotland
Dept. ISCRE, Conference Section, The Institution of Chemical Engineers, 165-171 Railway Terrace, Rugby, Warwickshire CV21 3HQ, England
- 10-14 5th International Titanium Conference
Munich, West Germany
- 12-13 Symposium on Solidification Fundamentals
Cleveland, OH
J.F. Wallace, Dept. of Metallurgy & Materials Science
Case Western Reserve University
Cleveland, OH 44106
- 13-14 Kinetics and Mass Transport of Silicate & Oxide Systems
London, UK
R. Freer, Dept. Electrical & Electronic Eng.,
North Staffordshire Polytech., Beaconside, Stafford ST18 0AD
- 17-20 TMS-AIME Conference
Detroit, MI
- 17-21 International Conference on Surface Modification of Metals by Ion Beams
Heidelberg, West Germany
- 17-21 9th European Conference on Thermophysical Properties
Manchester, UK
Mtg. Officer, IOP, 47 Belgrave Sq., London SW1X 8QX, UK
- 17-21 7th International Conference on Textures of Materials
The Netherlands
Conf. Sec., PO Box 390, NL 3330 AJ Zwijndrecht,
The Netherlands
- 23-28 International Conference on the Science of Hard Materials
Rhodes, Greece
- 25-28 Energy Pulse Modification of Semiconductors & Related Materials
Dresden, GDR
H. U. Jager, Centralinstitut fur Derrnforschung, Rossendorf,
8051 Dresden, Postfach 19, GDR
- 29-2 Optical Society of America Annual Meeting
San Diego, Ca
Optical Society of America, 1816 Jefferson Pl., NW,
Washington, DC 20036
- 29-2 Meeting of the Division of Plasma Physics of the American Physical Society
Boston, MA
W.W. Havens, 335 E. 45th St., New York, NY 10017
- 31-2 4th International Conference on Ferrites
San Francisco, CA

*A dozen meetings added
Since the last BULLETIN issue*

NOVEMBER 1984

- 12-14 8th Conference on the Application of Accelerators in Research and Industry
Denton, TX
J. L. Duggan
Physics Dept., North Texas State Univ., NT Box 5368,
Denton, TX 76203
(817) 565-3252
- 13-15 International Conference on the Applications of Lasers and Electro-Optics
Boston, MA
Laser Institute of America
5151 Monroe St., Ste. 118W, Toledo, OH 43623
- 25-30 AIChE Annual Meeting
San Francisco, CA
AIChE, Meetings, Dept., 345 E. 47 St., New York, NY 10017
(212) 705-7320
- 26-30 **MATERIALS RESEARCH SOCIETY ANNUAL MEETING**
Boston Marriott Hotel/Copley Place
Boston, MA
J.B. Ballance, Executive Director
Materials Research Society
9800 McKnight Road, Suite 327
Pittsburgh, PA 15237 (412) 367-3003
- 27-30 30th Annual Conference on Magnetism and Magnetic Materials
San Diego, CA
J.T. Scott, AIP, 335 E. 45th St., New York, NY 10017

OCTOBER 1984

- 7-12 Fall Meeting of the Electrochemical Society
New Orleans, LA
The Electrochemical Society
10 S. Main St, Pennington, NJ 08534-2896
- 9-11 Conference on Advances in Materials Technology for the Process Industries
Atlanta, GA
Dale Miller, Deputy Executive Dir. for Public Affairs,
Natl. Assoc. of Corrosion Engineers, PO Box 218340,
Houston, TX 77218

DECEMBER 1984

- 4-7 31st National Vacuum Symposium
Reno, NV
N. Hammond, 335 E. 45 St., New York, NY 10017

JANUARY 1985

- 20-24 American Physical Society/AAPT General Meeting
Toronto, ONT

[Continued on Page 18]

DEFECTS IN INSULATORS

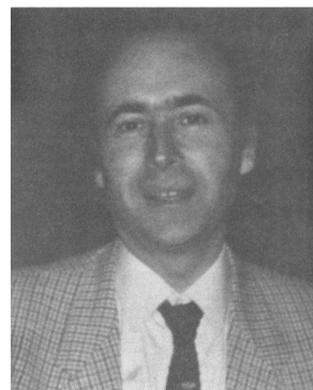
An MRS-Europe Symposium Report

The symposium on "Induced Defects in Insulators" covered many aspects of the interaction of radiation with insulating materials, with contributions from a broad scientific community. In all, 42 papers were presented, treating topics in an interdisciplinary manner.

A new field with an increasing interest is the study of the distribution of light ions and foil destruction after implantation of organic polymers. The research appears particularly important for lithography in the fabrication of semiconductor devices, where the lateral dimensions are pushed down to several Angstroms. The processes related to plasma erosion of non-metal first wall materials in fusion devices were reviewed and their relative importance was assessed, particularly for the problems connected with plasma contamination and mechanical or thermal stresses. It was also clear that radiation damage investigations in insulators assume a central role in nuclear waste management, because glass is a serious candidate material for waste disposal. A number of papers demonstrated the growing interest in optoelectronic materials for data processing, radiation effects in glass fiber cables, and electron-beam irradiation of electronic devices.

Several contributions were given on analysis techniques in insulators, such as nuclear techniques for hydrogen detection, ESR, AES, ESCA, and optical spectroscopy, emphasizing potential applications for defect characterization.

Ions or atoms with energies ranging from a few eV to MeV are formed in radiation belts, stellar winds, and cosmic rays, and as secondary particles from sputtering or knock-on processes. Their collisions may induce hot chemical reactions. Papers presented showed how laboratory simulations provide information on organic molecules in interstellar solids and on the potential abiotic formation of biomolecules in space.



P. MAZZOLDI

It is worth remarking that many of the contributions on topics described above arose from the pursuit of the interdisciplinary approach required to connect technological applications to the basic interactions of energetic ions with insulators.

This meeting was an ideal bridge between the second (Albuquerque 1983) and the planned Third International Conference on Radiation Effects in Insulators (REI '85), which will be held in July 1985 at Guildford, Surrey.

P. Mazzoldi
Padova, Italy

CALENDAR

[Continued from Page 9]

MARCH 1985

- 24-28 AICHe Spring National Meeting
Houston, TX
AICHe, Meetings Dept., 345 E. 47th St., New York, NY 10017
(212) 705-7320
- 25-29 American Physical Society General Meeting
Baltimore, MD
W. Havens, Jr., 335 E. 45 St., New York, NY 10017

APRIL 1985

- 15-18 MATERIALS RESEARCH SOCIETY SPRING CONFERENCE
San Francisco, CA
J.B. Ballance, Executive Director
Materials Research Society
9800 McKnight Road, Suite 327
Pittsburgh, PA 15237 (412) 367-3003

- 25-27 American Physical Society Spring Meeting
Washington, DC
W. Havens, Jr., 335 E. 45th St., New York, NY 10017

MAY 1985

- 12-17 Electrochemical Society Spring Meeting
Toronto, Ontario, Canada
The Electrochemical Society
10 S. Main St., Pennington, NJ 08534-2896
- 13-17 International Conference on Nuclear Data
for Basic and Applied Science
Santa Fe, NM
Phillip G. Young, Conference Chairman,
Mail Stop B243, Los Alamos National Laboratory,
Los Alamos, NM 87545

JULY 1985

- 23-25 Physical Interactions and Energy Exchange
at the Gas-Solid Interface
Hamilton, Ontario, Canada
Prof. J.A. Morrison
Institute for Materials Research
McMaster Univ., Hamilton, Ontario, Canada L8S 4M1