

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	13-17	13th International Conference on Defects in Semiconductors Coronado, CA
1-3	3rd International Conference on MBE San Francisco, 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
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	13-17	International Conference on Luminescence Madison, WI W. H. Yen, Dept. of Physics, 1150 Univ. Av., Madison, WI 53706
2-3	Spectroscopy of Shallow Centers in Semiconductors UC Berkeley, CA	13-18	8th European Conference on Electron Microscopy Budapest, Hungary Congress Bureau, MOTESZ, Budapest, POB32, H-1361, Budapest, Hungary
4-14	27th International Geological Congress Moscow, USSR Sec., 27th Int. Geological Cong., Inst. of Lithosphere, Academy of Sciences, 22 Staromonetny, Moscow 109180, USSR	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
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	15-22	17th International Conference on Low Temperature Physics Karlsruhe, FRG H. Hirsch, LT-17 Conf. Sec., Kernforschungszentrum, Postfach 3640, 7500 Karlsruhe, FRG
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	19-22	AIChE Summer National Meeting Philadelphia, PA AIChE, Meetings Dept., 345 E. 47 St., New York, NY 10017 (212) 705-7320
13-16	1st International Conference on the Structure of Surfaces Berkeley, CA M. A. VanHove, Dept. of Chem., Univ. of CA, Berkeley, CA 94720	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
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	26-29	International Topical Meeting on Fuel Reprocessing and Waste Management Jackson Hole, WY W. McClure, PO Box 3807, Idaho Falls, ID 83401
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	21-26	5th International Meeting on Radiation Processing San Diego, CA J. Silverman, PO Box 3060, Woburn, MA 01888
4-7	International Conference on Fatigue Birmingham, England	29-2	Optical Society of America Annual Meeting San Diego, CA Optical Society of America, 1816 Jefferson Pl., NW, Washington, DC 20036
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	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
10-14	5th International Titanium Conference Munich, West Germany	31-2	4th International Conference on Ferrites San Francisco, CA
12-13	Symposium on Solidification Fundamentals Cleveland, OH J.F. Wallace, Dept. of Metallurgy & Materials Science Case Western Reserve University Cleveland, OH 44106	<i>A dozen meetings added Since the last BULLETIN issue</i>	
13-14	Kinetics and Mass Transport of Silicate & Oxide Systems London, UK R. Freer, Dept. Electrical & Electronic Eng., North Staffordshire Polytech., Beaconsfield, Stafford ST18 OAD	NOVEMBER 1984	
17-20	TMS-AIME Conference Detroit, MI	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
17-21	International Conference on Surface Modification of Metals by Ion Beams Heidelberg, West Germany	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
17-21	9th European Conference on Thermophysical Properties Manchester, UK Mtg. Officer, IOP, 47 Belgrave Sq., London SW1X 8QX, UK	25-30	AIChE Annual Meeting San Francisco, CA AIChE, Meetings, Dept., 345 E. 47 St., New York, NY 10017 (212) 705-7320
17-21	7th International Conference on Textures of Materials The Netherlands Conf. Sec., PO Box 390, NL 3330 AJ Zwijndrecht, The Netherlands	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
23-28	International Conference on the Science of Hard Materials Rhodes, Greece	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
25-28	Energy Pulse Modification of Semiconductors & Related Materials Dresden, GDR H. U. Jager, Centralinstitut fur Dernforschung, Rossendorf, 8051 Dresden, Postfach 19, GDR	OCTOBER 1984	
7-12	Fall Meeting of the Electrochemical Society New Orleans, LA The Electrochemical Society 10 S. Main St, Pennington, NJ 08534-2896	4-7	31st National Vacuum Symposium Reno, NV N. Hammond, 335 E. 45 St., New York, NY 10017
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	
JANUARY 1985		20-24	American Physical Society/AAPT General Meeting Toronto, ONT

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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.

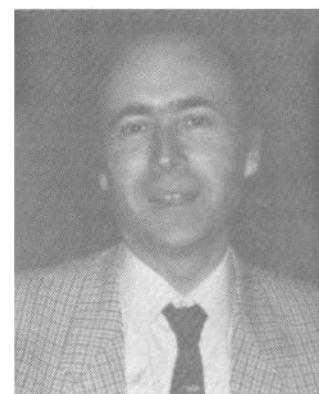
A new field with an increasing interest is the study of the distribution of light ions and foil destruction after implantation of organic polymers. The research appears particularly important for lithography in the fabrication of semiconductor devices, where the lateral dimensions are pushed down to 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.

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

P. Mazzoldi
Padova, Italy

CALENDAR

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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