

**Upcoming: MRS Spring Meeting, April 5-9, Reno, Nevada**

To list an event in the Calendar, contact Julia Phillips, AT&T Bell Laboratories, 600 Mountain Avenue IE-431, Murray Hill, NJ 07974; telephone (201) 582-4428.

**MRS** indicates the meeting is sponsored by or affiliated with the Materials Research Society.

See MRS BULLETIN Vol. XIII No. 1 & 2 for Calendar events from March 15 through April 30, 1988.

**MAY 1988**

1-5  
American Ceramic Society  
Annual Meeting  
Cincinnati, OH  
American Ceramic Society, 757  
Brooksedge Plaza Dr., Westerville,  
OH 43081-2821; (614) 890-4700

9-11  
**MRS** Processing and  
Applications of High  $T_c$   
Superconductors: Status and  
Prospects (1988 TMS Northeast  
Regional Meeting)  
New Brunswick, NJ  
B. Kamperman, The Metallurgical  
Society, 420 Commonwealth Dr.,  
Warrendale, PA 15086;  
(412) 776-9050  
(See related article in Vol. XII No. 7.)

9-13  
Eighth European Photovoltaic  
Solar Energy Conference  
Florence, Italy  
WIP, Sylvanstrasse 2, D-8000  
Munich 70, W. Germany

12-13  
Controlled Release: Science and  
Technology 1988  
Melbourne, Australia  
R.C. Oppenheim, Victorian  
College of Pharmacy Ltd., 381  
Royal Parade, Parkville, Victoria  
3052, Australia; 61-3-387-7222

15-20  
Spring Meeting of the  
Electrochemical Society  
Atlanta, GA  
Electrochemical Society, 10 S.  
Main St., Pennington,  
NJ 08534-2896

15-21  
NATO Advanced Study Institute  
on Heterostructures on Si  
Corsica, France  
Y.I. Nissim, CNET Bagneux, 196,  
Avenue H Ravera, 92220 -  
Bagneux, France

16-19  
Frontiers of Electron Microscopy:  
Surfaces and Interfaces  
Oak Brook, IL  
The Metallurgical Society, 420  
Commonwealth Dr., Warrendale,  
PA 15086; (412) 776-9050

19-20  
Symposium on Control of  
Polymer Interface Properties  
Storrs, CT  
Y.H. Chudy, Institute of Materials  
Science, U-136, University of  
Connecticut, 97 N. Eagleville Rd.,  
Storrs, CT 06268; (203) 486-3582

21-25  
American Physical Society  
Meeting  
New Orleans, LA  
W. Havens, 335 E. 45th St., New  
York, NY 10017; (212) 682-7341

30-1  
Topical Meeting on Three-  
Dimensional Integration  
Miyagi, Japan  
Y. Hayasaka, Research &  
Development Association for  
Future Electron Devices, Fukide  
Bldg. No. 2, 4-1-21 Toranomon,  
Minato-ku, Tokyo, 105 Japan; 81-  
03-434-3871

30-3  
**MRS** International Meeting on  
Advanced Materials  
Tokyo, Japan  
M. Doyama or S. Sōmiya, Nikkan  
Kogyo Shimbun Ltd. Planning  
Bureau, 8-10, Kudan Kita,  
1-chome, Chiyoda-ku, Tokyo 102,  
Japan; telex: NIKKANKOJ29687;  
U.S. Coordinator: R.P.H. Chang,  
Dept. of Materials Science &  
Engineering, Northwestern  
University, Evanston, IL 60208

31-3  
**E-MRS** E-MRS Meeting  
Strasbourg, France  
P. Siffert, Centre de Recherches  
Nucleaire, Laboratoire PHASE,  
67037 Strasbourg Cedex, France;  
88 28 65 43

31-3  
TECH'MAT 88 International  
Exhibition of Advanced Materials  
Paris, France  
SEPF1, 8 rue de la Michodière,  
75002 Paris, France;  
33-1-47-42-92-56

**JUNE 1988**

1-3  
Fifth Conference on Semi-  
Insulating III-V Materials  
Malmö, Sweden  
P. Omling, Dept. of Solid State  
Physics, University of Lund, Box  
118, S-221 00 Lund, Sweden;  
46-46-107000

2-4  
Topical Meeting on High-  
Temperature Superconducting  
Electron Devices  
Miyagi, Japan  
K. Mizusawa, Research &  
Development Association for  
Future Electron Devices, Fukide  
Bldg. No. 2, 4-1-21 Toranomon,  
Minato-ku, Tokyo, 105 Japan;  
81-03-434-3893

5-8  
48th Annual Conference on  
Physical Electronics  
Upton, NY  
J.W. Davenport, Physics  
Department, Bldg. 510A,  
Brookhaven National Lab, Upton,  
NY 11973; (516) 282-3789

5-11  
American Chemical Society  
Annual Meeting  
Toronto, Ontario  
American Chemical Society, 1155  
16th St. NW, Washington,  
DC 20036; (202) 872-4600

6-17 (cont'd August 15-19)  
Short Course in X-Ray Spectrometry  
Albany, NY  
H. Chessin, State University of  
New York, Dept. of Physics, 1400  
Washington Ave., Albany,  
NY 12222; (518) 442-4512

7-10  
Seventh International Conference  
in Ion Implantation Technology  
Kyoto, Japan  
T. Takagi, Kyoto University,  
Sakyo-ku, Kyoto 606, Japan

12-17  
**MRS** Sixth International  
Conference on Ion Beam  
Modification of Materials  
Tokyo, Japan  
K. Gamo, Dept. of Electrical  
Engineering, Osaka University,  
Toyonaka, Osaka 560, Japan

13-15  
**MRS** JSAP-MRS International Con-  
ference on Electronic Materials  
Tokyo, Japan  
T. Kamiya, Dept. of Electronic  
Engineering, University of Tokyo  
7-3-1, Hongo, Bunkyo-ku, Tokyo  
113, Japan; telex: 2722111 FEUT J.  
U.S. Coordinator: R.P.H. Chang,  
Dept. of Materials Science &  
Engineering, Northwestern  
University, Evanston, IL 60208

13-17  
Basic Short Course on Scanning  
Electron Microscopy and X-ray  
Microanalysis  
Bethlehem, PA  
J.I. Goldstein, Dept. of Materials  
Science and Engineering, Lehigh  
University, Bethlehem, PA 18015;  
(215) 758-5133

14-16  
Second Electronics Materials and  
Process Conference  
Seattle, WA  
SAMPE, 843 West Glentana,  
Box 2459, Covina, CA 91722;  
(818) 331-0616

19-24  
11th International Symposium on  
the Reactivity of Solids  
Princeton, NJ  
M.S. Wittingham, P.O. Box 669,  
Ridgefield, CT 06877-0669;  
(203) 431-5419  
(See related article in Vol. XII No. 7.)

20-23  
Short Course on Advanced  
Topics in Scanning Electron Micro-  
scopy and X-ray Microanalysis  
Bethlehem, PA  
J.I. Goldstein, Dept. of Materials  
Science and Engineering, Lehigh  
University, Bethlehem, PA 18015;  
(215) 758-5133

20-24  
Seventh Penn State Read  
Conference on Electrodeposition  
University Park, PA  
H.W. Pickering, Pennsylvania  
State University, 326 Steidle  
Bldg., University Park, PA 16802;  
(814) 863-2640

20-24  
Workshop on Ion Beam  
Technology and Equipment 1988  
Shanghai, China  
S.C. Tsou, Shanghai Institute of  
Metallurgy, Shanghai, China

20-29  
Workshop in Advanced Electron  
Microscopy  
Berkeley, CA  
M. Moore, Lawrence Berkeley  
Laboratory, Bldg. 72,  
Berkeley, CA 94720

20-1  
Short Course in X-Ray Powder  
Diffraction  
Albany, NY  
H. Chessin, State University of  
New York, Dept. of Physics, 1400  
Washington Ave., Albany,  
NY 12222; (518) 442-4512

20-September 9  
Research Workshop in  
Condensed Matter, Atomic &  
Molecular Physics  
Trieste, Italy  
ICTP, P.O. Box 586, Miramare,  
Strada Costiera 11, 34100 Trieste,  
Italy; 39-40-2240-1

21-24  
Fifth Working Symposium on  
Applied Surface Analysis  
Julich, W. Germany  
H. Nickel, Institut für  
Reaktorwerkstoffe, KFA Julich  
GmbH, Postfach 1913, D-5170  
Julich, W. Germany

29-2  
Pallo Workshop on Molecular  
Structure, Dynamics and  
Recognition  
Siena, Italy  
N. Niccolai, Dept. of Chemistry,  
University of Siena, I-53100  
Siena, Italy

## JULY 1988

- 3-15  
International School of Materials Science and Technology 15th Course: Solid State Microbatteries Sicily, Italy  
M. Balkanski, Laboratoire de Physique du Solide, Université Pierre et Marie Curie, 4 Place Jussieu, 75230 Paris, Cedex 05, France; 43-36-2525, ext. 4501; U.S. Coordinator: J.R. Akridge, Eveready Battery Co., Inc. Technology Laboratory, P.O. Box 43035, Westlake, OH 44145; (216) 835-7734
- 11-14  
Risk Assessment of Chemicals in the Environment  
Guildford, United Kingdom  
J.F. Gibson, Royal Society of Chemistry, Burlington House, London W1V 0BN, United Kingdom
- 18-21  
Fourth International Conference on the Structure of Non-Crystalline Materials  
Oxnard, CA  
C.N.J. Wagner, Dept. of Materials Science and Engineering, 6531 Boelter Hall, UCLA, Los Angeles, CA 90024-1595; (213) 825-6265
- 18-21  
Symposium on Carbon Fibers and Composites  
Buffalo, NY  
D.D.L. Chung, Dept. of Mechanical & Aerospace Engineering, SUNY, Buffalo, NY 14260; (716) 636-2520
- 18-21  
16th International Conference on Quantum Electronics  
Tokyo, Japan  
IOEC '88 Secretariat, OITDA, 20th Mori Bldg., 7-4, Nishi-Shimbashi 2-chome, Minato-ku, Tokyo 105, Japan; 813 508 2091
- 19-22  
19th Annual Meeting of Fine Particle Society  
Santa Clara, CA  
Fine Particle Society, L-117 Keplinger Hall, University of Tulsa, Tulsa, OK 74104; (918) 587-6150
- 21-22  
Short Course on the Fabrication of Carbon Fiber Polymer-Matrix Composites  
Buffalo, NY  
D.D.L. Chung, State University of New York, Dept. of Mechanical & Aerospace Engineering, Buffalo, NY 14260; (716) 636-2520
- 25-29  
International Conference on Magnetism  
Paris, France  
ICM88, Office de Tourisme de Paris, Cmt. Parisien des Congres, 127 Ave. des Champs-Elysees, F-75008, Paris Cedex, France

- 31-5  
Advances in Cement Manufacture and Use  
Henniker, NH  
Engineering Foundation, 345 East 47th St., New York, NY 10017; (212) 705-7835

## AUGUST 1988

- 2-4  
International Metals and Metals Processing Conference—Space Age Metals and Technology  
Dayton, OH  
SAMPE, 843 West Glentana, Box 2459, Covina, CA 91722; (818) 331-0616
- 8-12  
Fifth Trieste Semiconductor Symposium and Fourth International Conference on Superlattices, Microstructures and Microdevices  
Trieste, Italy  
G. Dohler, University of Erlangen, Erwin-Rommel-Str. 1, 852 Erlangen, W. Germany; 49-9131-857294
- 14-19  
32nd Annual International Technical Symposium on Optical Optoelectronic Applied Science and Engineering  
San Diego, CA  
SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290
- 15-19  
12th International Liquid Crystal Conference  
Freiburg, W. Germany  
H. Stegemeyer, Institut für Physikalische Chemie der Universität-GH-Paderborn, Warburger Strasse 100, D-4790 Paderborn, W. Germany
- 15-19  
19th International Conference on Physics of Semiconductors  
Warsaw, Poland  
J. Kossut, Institute of Physics, Polish Academy of Science, Al. Lotnikow 32/46, 02-668 Warsaw, Poland
- 22-25  
Nonlinear Optical Properties of Materials  
Troy, NY  
Meetings Dept., Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036
- 23-26  
Eighth European Symposium on Polymer Spectroscopy  
Budapest, Hungary  
A. Rockenbauer, Central Research Institute for Chemistry, P.O. Box 17, H-1525 Budapest, Hungary
- 24-26  
Workshop on Quantum Aspects of Molecular Motions in Solids  
Turku, Finland  
P. Ingman, Wihun Physical Laboratory, University of Turku, SF-20500, Turku, Finland
- 24-26  
International Conference on Solid State Devices and Materials  
Tokyo, Japan  
Business Center for Academic Societies Japan, Yamazaki Bldg. 4F, 40-14, Hongo 2-chome, Bunkyo-ku, Tokyo 113, Japan; 03 817 5831
- 26-31  
International Summer School on Crystal Growth  
Tokyo, Japan  
T. Hishinaga, Dept. of Electrical Engineering, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan
- 28-10  
Structure-Property Relationships in Surface Modified Ceramics, Theory and Applications  
NATO Advanced Study Institute  
Pisa, Italy  
C.J. McHargue, Metals and Ceramics Division, Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, TN 37831-6118; (615) 574-4344  
(See related article in Vol. XII No. 5.)
- 29-1  
11th IEEE International Semiconductor Lasers Conference  
Boston, MA  
R.T. Wangeman, IEEE-LEOS, 345 East 47th Street, New York, NY 10017; (212) 705-7943
- 29-2  
International Conference on Defects in Insulating Crystals  
Parma, Italy  
R. Capelletti, Dept. di Fisica, Via M. D'Azeglio 85, 43100 Parma, Italy
- 29-2  
E-MRS Polycrystalline Semiconductors '88 - Physical Properties of Grain Boundaries and Interfaces  
Malente, W. Germany  
H.J. Möller and H.P. Strunk, Technische Universität Hamburg-Harburg, Eissendorfer Strasse 42, 2100 Hamburg 90, W. Germany
- 29-2  
Symposium on Electronic Structure and Properties of Molecules and Crystals  
Dubrovnik, Yugoslavia  
Z.B. Maksic, Ruder Boskovic Institute, P.O. 1016, 41001 Zagreb, Yugoslavia

## SEPTEMBER 1988

- 4-9  
Ninth European Congress on Electron Microscopy  
York, United Kingdom  
Congress Secretariat, The Royal Microscopical Society, 37-38 St., Clements, Oxford OX4 1AJ, United Kingdom

- 4-16  
NATO Summer School on Plasma Surface Interactions and Processing of Materials  
Alicante, Spain  
O. Auciello, North Carolina State University, Dept. of Nuclear Engineering, Raleigh, NC 27695-7907; (919) 737-7662
- 6-9  
International Symposium and Exhibition on Fiber Optics, Optoelectronics, and Laser Applications in Science and Engineering  
Boston, MA  
SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290
- 12-16  
International Conference on Surface Modification of Metals by Ion Beams  
Riva Del Garda, Italy  
Secretary, IRST, 38050 Povo, Trento, Italy; 39-0461-810-105
- 12-16  
International Conference on Teaching Solid State Physics  
Munich, W. Germany  
K. Luchner, Universität Munich, Sektion Physik, Schellingstr. 4, D-8000 Munich 40, W. Germany
- 13-15  
Third Specialty Polymers Conference  
Cambridge, UK  
M. Heald, Butterworth Scientific Ltd., P.O. Box 63, Westbury House Bury St., Guildford, Surrey, GU2 5BH, UK; 44-0483-31261
- 13-16  
Structure and Reactivity of Solids  
Trieste, Italy  
C. Morterra, Istituto de Chimica Fisica, Corso Massimo d'Azeglio 48, I-10125 Torino, Italy
- 19-23  
International Congress on Optical Science and Engineering  
Hamburg, West Germany  
SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290
- 25-29  
TMS Fall Meeting  
Chicago, IL  
B. Kamperman, The Metallurgical Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050
- 26-27  
Symposium on Titanium Materials' Surfaces and Interfaces, in conjunction with TMS Fall Meeting  
Chicago, IL  
G. Welsch, Case Western Reserve University, Dept. of Materials Science and Engineering, 516 White Bldg., 10900 Euclid Ave., Cleveland, OH 44106-1712; (216) 368-4236

26-29  
European Gallium Arsenide Conference  
St. Helier (Jersey), United Kingdom  
Meeting Officer, Institute of Physics, 47 Belgrave Square, London SW1X 8ZX, United Kingdom

26-30  
1988 World Materials Congress  
Chicago, IL  
V. Laxmanan, NASA Lewis Research Center, M.S. 105-1, Cleveland, OH 44135; (216) 433-3268

26-30  
Fourth International Colloquium on Welding and Melting by Electron and Laser Beams  
Cannes, France  
Commissariat a l'Energie Atomique, DTECHSTA, 91191 Gif-sur-Yvette Cedex, France; 33-1-6908-5825

27  
Annual Meeting of the Titanium Development Association  
Chicago, IL  
F.W. Rickenbach, 11 W. Monument Ave., Dayton, OH 45401; (513) 223-8008

27-29  
20th International Technical Conference - Materials and Processes: The Interceptor Point  
Minneapolis, MN  
M. Smith, SAMPE, 843 West Glentana, P.O. Box 2459, Covina, CA 91722; (818) 331-0616

## OCTOBER 1988

2-7  
35th National Vacuum Symposium  
Atlanta, GA  
N. Hammond, American Vacuum Society, 335 E. 45th St., New York, NY 10017

9-14  
Electrochemical Society Fall Meeting  
Chicago, IL  
Electrochemical Society, 10 S. Main St., Pennington, NJ 08534-2896

10-13  
**MRS** Scientific Basis for Nuclear Waste Management XII  
Berlin, West Germany  
M. Fuchs, Hahn-Meitner Institut, Berlin GmbH, Glienicker Strasse 100, D-1000 Berlin 39, W. Germany; (30) 8009-2291

23-26  
**MRS** Symposium on Advanced Characterization Techniques for Ceramics (American Ceramic Society Regional Meeting)  
San Francisco, CA  
W.S. Young, 7115 Concord Pl., Gilroy, CA 95020; (408) 256-4394

## NOVEMBER 1988

28-3  
**MRS** Materials Research Society Fall Meeting  
Boston, MA  
A. Wagner, Materials Research Society, 9800 McKnight Rd., Suite 327, Pittsburgh, PA 15237; (412) 367-3003

7-9  
Tenth Conference on Applications of Accelerators in Research and Industry  
Denton, TX  
J.L. Duggan, Physics Dept., North Texas State University, Denton, TX 76203; (817) 565-3253

9-11  
Perspectives on the New Superconductivity  
Boston, MA  
D. Berger, Nature Publishing Co., 65 Bleeker St., New York, NY 10012; (212) 477-9600

15-18  
Fifth International Conference on Quantitative Surface Analysis  
London, United Kingdom  
G.C. Smith, Division of Materials Applications, National Physical Laboratory, Teddington, Middx TW11 0LW, United Kingdom

## MRS International Meeting on Advanced Materials Sunshine City, Ikebukuro • Tokyo, Japan • May 30–June 3, 1988

This first multi-symposium MRS International Meeting on Advanced Materials will feature detailed and interdisciplinary coverage of:

- |   |   |
|---|---|
| <p>A – Composites<br/>B – Rapid Quenching<br/>C – Powder Preparation<br/>D – Superconductivity<br/>E – Superplasticity<br/>F – Joining of Metals &amp; Ceramics<br/>G – Corrosion/Coating of Advanced Materials<br/>H – Shape Memory Materials<br/>I – Hydrogen Absorbing Materials<br/>J – Structural Ceramics<br/>K – Multilayers<br/>L – Microstructure-Property Relationships in Magnetic Materials</p> | <p>M – Fracture Mechanics<br/>N – Biomaterials<br/>O – Catalytic Materials<br/>P – Ionic Polymers<br/>Q – Ordered Polymers for High Performance Materials<br/>R – Photoresponsive Materials<br/>S – Advanced Cements and Chemically Bonded Ceramics<br/>T – Biosensors<br/>X – Frontiers in Materials Science &amp; Engineering</p> |
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*See Calendar listing in this issue for names and addresses of Meeting Chairs in Japan.*

For complete details and registration forms call Mary E. Kaufold at the Materials Research Society: (412) 367-3036, fax (412) 367-4373.

**Advanced Materials & Engineering Exhibition**—Scheduled for May 23-30 at Harumi, Tokyo.