

## UPCOMING: Fifth Conference on Low Energy Ion Beams, April 3-6; Sixth Oxford Conference on Microscopy of Semiconducting Materials, April 10; MRS Spring Meeting in San Diego, April 24-28

To list an event in the Calendar, contact J. Dininny, Materials Research Society, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237; (412) 367-3036; fax (412) 367-4373.

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

See MRS BULLETIN Vol. XIV No. 2 for Calendar events from March 1 through March 31, 1989.

### APRIL 1989

- 1-6  
Second World Congress on Superconductivity  
Houston, TX  
C. Burnham, P.O. Box 27805, Houston, TX 77227-7805; (713) 895-2500; fax (713) 623-3103
- 3-6  
**[MRS]** Fifth Conference on Low Energy Ion Beams  
Guildford, United Kingdom  
Meetings Office, The Institute of Physics, 47 Belgrave Sq., London SW1X 8QX, United Kingdom; 01-235-6111
- 4-7  
Science and Engineering of 1- and 0-Dimensional Semiconductors  
Cadiz, Spain  
S.P. Beaumont, Dept. of Electronics and Electrical Engineering, Univ. of Glasgow, G 12800 Glasgow, United Kingdom, fax 041 3304907; or R. Garcia Rojas, Dept. Química Orgánica, Fac. Ciencias, Universidad de Cádiz, Apt. 40, Puerto Real, Cadiz, Spain
- 4-7  
Fifth National Space Symposium  
Colorado Springs, CO  
U.S. Space Foundation, P.O. Box 1838, Colorado Springs, CO 80901; (719) 550-1000
- 4-7  
British Crystallographic Association Spring Meeting  
Oxford, United Kingdom  
M. Glazer, Dept. of Physics, Clarendon Laboratory, Parks Road, Oxford, OX1 3PU, United Kingdom; 0865-272290
- 4-7  
Electrochemical Processing of Semiconductors  
Berlin, W. Germany  
W. Pieth, Free University of Berlin, Institute of Physical Chemistry, Takustrasse 3, D-1000 Berlin 33

- 5-7  
SCANNING 89/EM West  
Long Beach, CA  
D.G. Howitt, Dept. of Mechanical Engineering, Univ. of California, Davis, CA 95616; (916) 752-0580
- 6-7  
NATO Workshop on Modeling in Crystal Growth from the Melt  
Parma, Italy  
G. Müller, Institut für Werkstoffwissenschaften 6, Martensstrasse 7, D-8520 Erlangen, W. Germany  
(See related article in Vol. XIII No. 7.)

- 9-14  
American Chemical Society Meeting  
Dallas, TX  
American Chemical Society, 1155 16th St. NW, Washington, DC 20036; (202) 872-4600

- 10-13  
**[MRS]** Sixth Oxford Conference on Microscopy of Semiconducting Materials  
Oxford, United Kingdom  
A.G. Cullis, Royal Signals and Radar Estab., St. Andrews Rd., Malvern, Worcester WR 14 3PS, United Kingdom; 684-892733  
(See related article in Vol. XIII No. 9.)

- 17-21  
International Conference on Metallurgical Coatings  
San Diego, CA  
B.D. Sartwell, Naval Research Lab., Code 4675, Washington, DC 20375; (202) 767-4800; fax (202) 767-5301

- 21  
**E-[MRS]** Fourth BACG Photochemical Processing Workshop  
London, United Kingdom  
J. Haigh, British Telecom Research Labs, Martlesham Heath, Ipswich IP5 7RE, Suffolk, United Kingdom  
(See related article Vol. XIV No. 2)

- 23-27  
91st Annual Meeting and Expo of the American Ceramic Society  
Indianapolis, IN  
American Ceramic Society, 757 Brooksedge Plaza Dr., Westerville, OH 43081-6136; (614) 890-4700; fax (614) 899-6109

- 23-28  
12th World Conference on Nondestructive Testing  
Amsterdam, Netherlands  
12th WCNDT '89, B. de Jong, RAI Organisatie Bureau Amsterdam bv, Europaplein 12, 1078 GZ Amsterdam, Netherlands; (31) 20-549-12-12; fax (31) 20-46-44-69

- 24-28  
**[MRS]** Materials Research Society Spring Meeting  
Town and Country Hotel, San Diego, CA  
M. Geil, Materials Research Society, 9800 McKnight Rd., Suite 327, Pittsburgh, PA 15237; (412) 367-3003; fax (412) 367-4373

- 24-28  
Conference on Lasers and Electro-Optics (CLEO '89)  
Baltimore, MD  
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-0920

- 24-28  
Second International Congress on Optical Science and Engineering  
Paris, France  
SPIE, P.O. Box 10, Bellingham, WA; (206) 676-3290

- 24-28  
Fifth European Conference on Integrated Optics  
Paris, France  
D. Dowd, SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290

- 24-28  
Ninth European Symposium on Optoelectronics  
Paris, France  
D. Dowd, SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290

- 24-28  
X-Ray Instrumentation in Medicine, Biology, Plasma Physics, Astrophysics, and Synchrotron Radiation  
Paris, France  
D. Dowd, SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290

- 24-28  
Quantum Electronics and Laser Science Conference (QELS '89)  
Baltimore, MD  
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-0920

- 28-2  
Society for Biomaterials Annual Meeting  
Lake Buena Vista, FL  
A.S. Litsky, Ohio State Univ., S-2035 Davis Medical Research Ctr., 480 W. Ninth Ave., Columbus, OH 43210; (614) 293-4827

### MAY 1989

- 1-3  
Fifth Short Course on III-V Semiconductor Materials and Devices  
Palo Alto, CA  
E.R. Weber, Dept. of Materials Science, UC Berkeley, CA 94720; (415) 642-0205

- 1-4  
American Physical Society Spring Meeting  
Baltimore, MD  
American Physical Society, 335 East 45th Street, New York, NY 10017; (212) 682-7341

- 1-5  
Florida Catalysis Conference  
Tarpon Springs, FL  
R.S. Drago, Dept. of Chemistry, Univ. of Florida, Gainesville, FL 32611

- 3-5  
Protective Coatings: Processing & Characterization  
Hoboken, NJ  
TMS, Meetings Dept., 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050; fax (412) 776-3770

- 7-12  
Symposium on High T<sub>c</sub> Superconductor Technologies (HIT-ST2) at the 175th Meeting of The Electrochemical Society  
Los Angeles, CA  
S. Raider, IBM T.J. Watson Research Center, P.O. Box 218, Yorktown Heights, NY 10598; (914) 945-2203

- 7-12  
Third International Conference on Fundamentals of Adsorption  
Nürtingen, W. Germany  
DECHEMA, Abt. Tagungen, P.O. Box 970146, Theodor-Heuss-Allee 25, D-6000 Frankfurt am Main 97, W. Germany

- 8-11  
14th Annual Conference Course on Thermal Analysis in Research and Production  
Brooklyn, NY  
M.A. Tur, Polytechnic Univ., 333 Jay St., Brooklyn, NY 11201; (718) 260-2600; fax (718) 260-3136

- 8-11  
34th SAMPE International Symposium and Exhibition  
Reno, NV  
SAMPE, 843 West Glentana, P.O. Box 2459, Covina, CA 91722; (818) 331-0616

- 8-12  
11th Oak Ridge National Laboratory Symposium on Biotechnology for Fuels and Chemicals  
Colorado Springs, CO  
E. Greenbaum, Chemical Technology Div., Oak Ridge National Lab., 4500 N. MS 6194, P.O. Box 2008, Oak Ridge, TN 37831-6194; (615) 574-6835

- 9-11  
International Conference on Coatings and Sensors for Acoustic and Electromagnetic-Optical Applications  
University Park, PA  
V.K. Varadan, Pennsylvania State Univ., Dept. of Engineering Science and Mechanics, University Park, PA 16802; (814) 863-4210

- 15-16  
Scanning Tunneling Microscopy Spring Workshop  
Philadelphia, PA  
D.A. Bonnell, Univ. of Pennsylvania, Lab. for Research on the Structure of Matter, 3231 Walnut St., Philadelphia, PA 19104; (215) 898-6231

- 15-19  
21st Annual Short Course on Instrumentation for Motion Analysis  
Waterloo, Ontario, Canada  
S. Daicos, Photonics Analysis Ltd., 410 Conestogo Rd., Waterloo, Ontario, Canada, N2L 4E2; (519) 885-2159; fax (519) 885-4712

- 16-19  
Swift Heavy Ions in Matter  
Caen, France  
Symposium Secretary, SHIM 89/ CIRIL, BP 5133, 14040 Caen Cedex, France; 31 45 46 39; fax 31 45 46 65

- 16-19  
46th Annual World Conference; International Magnesium Association  
Dearborn, MI  
IMA, 7927 Jones Branch Dr., Suite 400, McLean, VA 22102; (703) 442-8888; fax (703) 821-1824

- 18-19  
Current Topics in Polymer Characterization  
Storrs, CT  
Y.H. Chudy, Institute of Materials Science, U-136, Univ. of Connecticut, 97 N. Eagleville Rd., Storrs, CT 06268; (203) 486-3582

- 22-25  
Fifth International Symposium on Graphite Intercalation Compounds  
Berlin, W. Germany  
F.W. Froben, Fachbereich, Physik, Freie Universität Berlin, Arnimallee 14, D-1000 Berlin 33, W. Germany; (030) 838 42 35/55 66

- 22-26  
Acoustical Society of America 117th Meeting  
Syracuse, NY  
Acoustical Society of America, 335 East 45th St., New York, NY 10017; (212) 661-9404

- 30-2  
E-**[MIRS]** 1989 European Materials Research Society Spring Meeting  
Strasbourg, France  
P. Siffert, Centre de Recherches Nucléaire, Laboratoire PHASE, F-67037, Strasbourg Cedex, France; 88 28 65 43
- 30-2  
E-**[MIRS]** Course on High Tech Biomaterials  
Strasbourg, France  
D. Muster, L.E.E.D. Biomateriaux, CHRU-BP 426, F-67091 Strasbourg Cedex, France  
(See related article in Vol. XIII, No. 11.)
- 31-2  
11th Symposium on Applied Surface Analysis  
Cleveland, OH  
J. Grant, Research Institute, 300 College Park, Dayton, OH 45469-0001; (513) 255-5125 or G. Chottiner, Dept. of Physics, Case Western Reserve, Cleveland, OH 44106; (216) 368-4024
- 31-2  
Third International Conference on Systolic Arrays  
Killamey, Ireland  
J.V. McCanny, Queen's Univ. of Belfast, Dept. of Electrical and Electronic Engineering, Ashby Building, Stranmillis Rd., Belfast BT9 5AH, United Kingdom; (0232) 661111; fax (0232) 247895
- JUNE 1989**
- 5-6  
Eighth Annual Symposium Electronic Materials, Processing, and Characterization  
Richardson, TX  
M. Bennett-Lilley, Eighth Annual Symposium, P.O. Box 830914, Richardson, TX 75083-0914; (214) 995-0821
- 12-14  
Alloy 718 Metallurgy & Applications  
Pittsburgh, PA  
TMS, Meetings Dept., 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050; fax (412) 776-3770
- 12-15  
International Conference on Narrow Gap Semiconductors and Related Materials  
Gaithersburg, MD  
D.G. Seiler, Semiconductor Electronics Div., National Institute of Standards and Technology, Gaithersburg, MD 20899; (301) 975-2074
- 12-16  
Basic Course in SEM and X-Ray Microanalysis  
Bethlehem, PA  
J.I. Goldstein, Dept. of Materials Science and Engineering, Lehigh Univ., Bethlehem, PA 18015; (215) 758-5133
- 12-16  
Florida Advanced Materials Chemistry Conference  
St. Augustine, FL  
R.S. Drago, Dept. of Chemistry, Univ. of Florida, Gainesville, FL 32611
- 13-14  
Symposium on Nonlinear Optical Polymers for Soldier Survivability  
Natick, MA  
T. Skarsky, U.S. Army Natick RD&E Center, STRNC-EMP, Natick, MA 01760-5014; (508) 651-4687
- 14-17  
High Energy and Heavy Ion Beams in Materials Analysis  
Albuquerque, NM  
J. Tesmer, MS K 765, Los Alamos National Laboratory, Los Alamos, NM 87545; (505) 667-6370; fax (505) 665-2992
- 15-29  
Advances in Nonradiative Processes-NATO Advanced Study Institute  
Erice, Italy  
B. DiBartolo, Dept. of Physics, Boston College, Chestnut Hill, MA 02167; (617) 552-3575
- 18-23  
First European Ceramic Society Conference  
Maastricht, Netherlands  
L.M.J. Bos, P.O. Box 1630, 6201 BP Maastricht; (043) 83 83 83; fax (043) 83 83 00
- 19-21  
49th Annual Conference on Physical Electronics  
Seattle, WA  
Conference Management, Univ. of Washington Extension, GH-22, 5001 25th Ave. NE, Seattle, WA; (206) 543-2300  
(See related article Vol XIV No. 2)
- 19-22  
Courses on: Semiconductor Device Characterization by SEM, Advanced Imaging Techniques in SEM, and X-Ray Microanalysis of Bulk, Particle, and Thin Film Specimens  
Bethlehem, PA  
J.I. Goldstein, Dept. of Materials Science and Engineering, Lehigh Univ., Bethlehem, PA 18015; (215) 758-5133
- 19-23  
Analytical Electron Microscopy  
Bethlehem, PA  
J.I. Goldstein, Dept. of Materials Science and Engineering, Lehigh Univ., Bethlehem, PA 18015; (215) 758-5133
- 20-22  
SAMPE-Third International Electronics Conference  
Los Angeles, CA  
M. Smith, Business Director, SAMPE, P.O. Box 2459, Covina, CA 91722; (818) 331-0616
- 21-23  
Electronic Materials Conference  
Cambridge, MA  
The Minerals, Metals & Materials Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050
- 25-30  
Transducers '89: Fifth International Conference on Solid-State Sensors and Actuators & Eurosensors III  
Montreux, Switzerland  
COMST, Avenue de la Gare 52, P.O. Box 415, 1001 Lausanne 1, Switzerland; (021) 23 48 86; fax (021) 234 972
- 26-28  
Coherence and Quantum Optics Conference  
Rochester, NY  
L. Mandel, Univ. of Rochester, Dept. of Physics, Rochester, NY 14627; (716) 275-4361
- 26-30  
Ion Beam Analysis Conference  
Kingston, Ontario, Canada  
J.F. Ziegler, Box 66, Hanover St., Yorktown, NY 10598
- JULY 1989**
- 3-5  
MicroProcess '89  
Kobe, Japan  
S. Namba, Business Center for Academic Societies Japan, Conference Dept., 3-23-1 Hongo, Bunkyo-ku, Tokyo 113, Japan; 81-3-817-5831; fax 81-3-817-5836
- 3-7  
International Conference on Martensitic Transformations  
Sydney, Australia  
N. Kennon, Dept. of Metallurgy and Materials Engineering, Univ. of Wollongong, Wollongong NSW 2500 Australia; 61 42 270457; fax (042) 270477
- 10  
Bonding and Repair of Composite Materials  
Birmingham, United Kingdom  
J. Herriot, Composites, Butterworth Scientific Limited, P.O. Box 63, Westbury House, Bury St., Guildford GU2 5BH, United Kingdom; 0483 300966
- 10-14  
International Conference on Ion Sources  
Berkeley, CA  
W. O'Connor, Lawrence Berkeley Lab., 508-2270, Berkeley, CA 94720; (415) 486-6386; fax (415) 486-7000
- 10-14  
Fourth International Conference on Electron Spectroscopy  
Honolulu, HI  
G.E. McGuire, Microelectronics Center of North Carolina, P.O. Box 12889, Research Triangle Park, NC 27709; (919) 248-1800; or C.R. Brundie, IBM Almaden Research Center, 650 Harry Rd., San Jose, CA 95120; (408) 927-2444
- 12-14  
Solid State Lasers Topical Meeting/Sino-Japanese Joint Meeting on Optical Fiber Science and Electromagnetic Theory '89  
Beijing, China  
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-0920
- 17-21  
Fourth International Conference on Modulated Semiconductor Structures  
Ann Arbor, MI  
MSS-4 Conf. Secretary, Extension Service, Conference Dept., Univ. of Michigan, 200 Hill St., Ann Arbor, MI 48104-3297
- 17-21  
Ninth International Conference on Vacuum Ultraviolet Radiation Physics  
Honolulu, HI  
C.S. Fadley, Dept. of Chemistry, Univ. of Hawaii, 2545 The Mall, Honolulu, HI 96822; (808) 948-6401
- 18-21  
Seventh International Conference on Integrated Optics and Optical Fiber Communication  
Kobe, Japan  
Secretariat, IOOC '89, c/o Business Center for Academic Societies Japan, Conference Dept., Yamazaki Bldg. 4F, 2-40-14, Hongo, Bunkyo-ku, Tokyo 113, Japan
- 23-24  
International Symposium on Computer-Aided Materials Characterization  
Charlotte, NC  
R. Biederman, Worcester Polytechnic Institute, Worcester, MA 01609; (508) 831-5453/5346
- 23-28  
International Conference on Materials and Mechanisms of Superconductivity; High Temperature Superconductors (HTSC-M-S)  
Stanford, CA  
J. Higgins, Meeting Planning Associates, 883 Santa Cruz Ave., Menlo Park, CA 94025; (415) 326-7781; fax (415) 326-3945
- 23-29  
American Crystallographic Association Annual Meeting  
Seattle, WA  
American Crystallographic Association, P.O. Box 96, Ellicott Station, Buffalo, NY 14205-0096; (716) 856-9600 ext. 321
- 24  
Short Course on Quality and Reproducibility of Image Analysis Data  
Charlotte, NC  
I. LeMay, Metallurgical Consulting Services, Ltd., P.O. Box 5006, Saskatoon, Saskatchewan, Canada S7K 4E3; (306) 244-4535
- 24-26  
Second International Conference on Vacuum Microelectronics  
Bath, England  
Meetings Officer, Institute of Physics, 47 Belgrave Square, London SW1X 8QX, England, 01-235-6111; fax 01-259-6002
- 24-26  
Second Micro-Optics Conference/Eighth Topical Meeting on Gradient-Index Optical Imaging Systems  
Tokyo, Japan  
K. Iga, Tokyo Institute of Technology, Research Laboratory of Precision Machinery and Electronics, 4259 Nagatsuta, Midori-ku, Yokohama 227, Japan
- 24-28  
Cryogenic Engineering Conference and International Cryogenic Materials Conference  
Los Angeles, CA  
D. Hustvedt, CEC/ICMC Secretariat, Dept. of Chemical Engineering, BH 5405, Univ. of California, Los Angeles, CA 90024-1592
- 24-28  
Gordon Research Conference on Solid State Ionics  
Meriden, NH  
J. Bates, Solid State Div., Oak Ridge National Lab., P.O. Box 2008, Oak Ridge, TN 37831-6030; (615) 574-6280
- 25-26  
International Conference on Computer-Aided Microscopy and Quality Control  
Charlotte, NC  
J. Braun, EG&G Mound Applied Technologies, Miamisburg, OH 45343-0987; (513) 865-3829

30-4  
36th International Field Emission Symposium  
Oxford, England  
Conference Officer - IFES 1989,  
Royal Microscopical Society, 37-38  
St. Clements, Oxford OX4 1AJ,  
United Kingdom; (0865) 248768/  
721081; fax (0865) 791237

31-1  
Space Cryogenics Workshop  
Pasadena, CA  
P.V. Mason, 183-901, Jet  
Propulsion Lab., Pasadena, CA  
91109; (818) 354-2300

31-3  
Sixth International Meeting on  
Photoacoustic and Photothermal  
Phenomena  
Baltimore, MD  
J. Murphy, Johns Hopkins Applied  
Physics Lab, Johns Hopkins Rd.,  
Laurel, MD 20707;  
(301) 953-6214

31-4  
36th International Field Emission  
Symposium  
Oxford, United Kingdom  
Administrator, Royal Microscopical  
Society, 37/38 St. Clements,  
Oxford, OX4 1AJ, U.K.; 865-  
248768  
(See related article in  
Vol. XIII No. 11.)

31-4  
Application of X-Ray Analysis  
Denver, CO  
P.K. Predecki, Dept. of Engineering,  
Univ. of Denver, Denver, CO  
80208; (303) 871-3570;  
fax (303) 871-2623

## AUGUST 1989

2-7  
32nd International Union of Pure  
and Applied Chemistry Congress  
Stockholm, Sweden  
IUPAC, c/o Stockholm Convention  
Bureau, P.O. Box 6911, S-10239  
Stockholm, Sweden; 46 8  
230990; fax 46 8 348441

6-10  
Fifth International Workshop on  
Glasses and Ceramics from Gels  
Rio de Janeiro, Brazil  
M.A. Aegerter, Instituto de Fisica  
e Quimica, Universidade de Sao  
Paulo, Cx. Postal 369, 13.560-  
Sao Carlos (SP), Brazil; (0162)  
715755

6-11  
33rd Annual International  
Technical Symposium on Optical  
and Optoelectronic Applied  
Science and Engineering  
San Diego, CA  
D. Dowd, SPIE, P.O. Box 10,  
Bellingham, WA 98227-0010;  
(206) 676-3290

6-11  
47th Annual Meeting — Electron  
Microscopy Society of America  
San Antonio, TX  
E. Ruffing, Scherago Associates,  
1515 Broadway, New York, NY  
10036

7-9  
Second International Conference  
on Electrorheological Fluids  
Raleigh, NC  
A.F. Sprecher, Dept. of Materials  
Science & Engineering, North  
Carolina State Univ., Box 7907,  
Raleigh, NC 27695-7907;  
(919) 737-7278

13-26  
NATO Advanced Study Institute:  
High Tc Superconductors—  
Physics and Materials Science  
Bad Windsheim, W. Germany  
R. Kossowsky, Applied Research  
Lab., Pennsylvania State Univ.,  
P.O. Box 30, State College, PA  
16804; (814) 863-4481

20-23  
Materials for Biomedical Applica-  
tions: AIChE Summer National  
Meeting  
Philadelphia, PA  
R. Korsmeyer, Pfizer Inc., Groton,  
CT 06340; (203) 441-3088

20-25  
ICCG-9: Ninth International  
Conference on Crystal Growth  
Sendai, Japan  
S. Kimura, c/o InterGroup Corp.,  
Akasaka Yamakatsu Bldg., 8-5-32  
Akasaka, Minato-ku, Tokyo 107,  
Japan

28-1  
Third International Conference on  
Surface Modification Technologies  
Neuchatel, Switzerland  
The Minerals, Metals & Materials  
Society, 420 Commonwealth Dr.,  
Warrendale, PA 15086;  
(412) 776-9050

28-1  
Seventh World Round Table  
Conference on Sintering  
Herceg-Novi, Yugoslavia  
R.M. Spriggs, Center for  
Advanced Ceramic Technology,  
Alfred Univ., Alfred, NY 14802;  
(607) 871-2486 or D.P. Uskokovic,  
Serbian Academy of Science and  
Arts, Knez-Mihailova 35, 11000  
Beograd, Yugoslavia; 637-239

28-1  
Third International Conference on  
Surface Modification Technologies  
Neuchatel, Switzerland  
M. Karl, TMS, 420 Common-  
wealth Dr., Warrendale, PA 15086;  
(412) 776-9050;  
fax (412) 776-3770

28-1  
12th International Congress on  
X-Ray Optics and Microanalysis  
Kracow, Poland  
S. Jasienska, Academy of Mining  
and Metallurgy, Institute of  
Metallurgy, 30 059, Kracow,  
Poland

29-2  
International Symposium on  
Innovation and Perspectives in  
Solid Phase Synthesis  
Oxford, England  
R. Epton, School of Applied  
Sciences, Wolverhampton  
Polytechnic, Wolverhampton  
WV1 1SB, England

## SEPTEMBER 1989

4-6  
Fourth MRM Conference  
Rimini, Italy  
L. Pareti, Istituto Maspec CNR,  
Via Chiavari 18/A, 43100 Parma,  
Italy; 521-95811; fax 521-96315

4-8  
Third International Conference on  
Energy Pulse and Particle Beam  
Modification of Materials  
Dresden, E. Germany  
E. Richter, EPM '89, Zentralinsti-  
tut für Kernforschung Rossen-  
dorf, Postfach 19, Dresden,  
DDR-8051

4-8  
Macromolecules '89: Second  
Euro-American Conference on  
Functional Polymers and  
Biopolymers  
Oxford, England  
R. Epton, School of Applied  
Sciences, Wolverhampton  
Polytechnic, Wolverhampton  
WV1 1SB, England

5-7  
International Conference on  
Applications of Supercomputers  
in Engineering  
Southampton, United Kingdom  
L. Newman, Computational  
Mechanics Institute, 52 Henstead  
Rd., Southampton, SO1 2DD,  
England; 44-703-221398;  
fax 44-703-331020

5-7  
International Conference on  
Interfacial Phenomena in  
Composite Materials  
Sheffield, United Kingdom  
J. Herriot, Conference Organizer,  
Butterworth Scientific Ltd., P.O.  
Box 63, Westbury House, Bury  
St., Guildford, Surrey GU2 5BH,  
United Kingdom; 0483-300966

5-9  
First European Conference on  
Accelerators in Applied Research  
Technology (ECAART)  
Frankfurt am Main, W. Germany  
K. Bethge, Institut für Kernphysik,  
August-Euler-Str. 6, D-6000  
Frankfurt am Main 90; 069-7 98  
42 42/44

6-9  
European Magnetic Materials and  
Applications '89 Conference  
Rimini, Italy  
L. Pareti, Local Chairman EMMA  
'89, Istituto Maspec CNR, Via  
Chiavari 18/A, 43100 Parma, Italy;  
521-95811; fax 521-96315

6-15  
International School of Plasma  
Physics— Tritium and Advanced  
Fuels in Fusion Reactors  
Varenna, Italy  
E. Sindoni, International School of  
Plasma Physics, 16 Via Celoria,  
20133 Milano, Italy; 239 22 67;  
266 50 05; fax 223-66583

10-15  
198th American Chemical Society  
National Meeting  
Miami Beach, FL  
Meetings Dept., American  
Chemical Society, 1155 16th St.  
NW, Washington, DC 20036;  
(202) 872-4396

11-15  
European Conference on Optical  
Communication  
Gothenburg, Sweden  
ECOC '89 Secretariat, Chalmers  
University of Technology, Dept. of  
Electrical Measurements,  
Research Laboratory of Electro-  
Optics and Laser, S-41296  
Gothenburg, Sweden

12-20  
12th Biennial ASME Conference  
on Mechanical Vibration and  
Noise  
Montreal, Canada  
T.S. Sankar, Dept. of Mechanical  
Engineering, S-B 302, Concordia  
Univ., 1455 de Maisonneuve  
Blvd., Montreal, Quebec, Canada  
H3G 1M8; (514) 848-3130/3160

17-22  
Conference on Productivity and  
Technology in the Metallurgical  
Industries  
Cologne, W. Germany  
B. Kamperman, The Minerals,  
Metals & Materials Society, 420  
Commonwealth Dr., Warrendale,  
PA 15086; (412) 776-9050

17-22  
TMS Fall Meeting: Extractive and  
Process Metallurgy  
Cologne, W. Germany  
The Minerals, Metals & Materials  
Society, 420 Commonwealth Dr.,  
Warrendale, PA 15086;  
(412) 776-9050

17-22  
International Conference on the  
Science and Technology of Defect  
Control in Semiconductors,  
Yokohama 21st Century Forum  
Yokohama, Japan  
K. Sumino, Lab. Physics of  
Crystal Defects, Institute for  
Materials Research, Tohoku Univ.,  
2-1-1 Katahira, Sendai 980, Japan

18-22  
American Society for Precision  
Engineering Annual Meeting and  
Fifth International Precision  
Engineering Seminar  
Monterey, CA  
G. Swingle, ASPE/IPES,  
Conference Office, P.O. Box 808,  
L-292, Livermore, CA 94550;  
(415) 422-5447;  
fax (415) 423-2419

20-22  
Second International Conference  
on Structural Adhesives in  
Engineering II  
Bristol, United Kingdom  
J. Herriot, Conference Organizer,  
Butterworth Scientific Ltd., P.O.  
Box 63, Westbury House, Bury  
St., Guildford, Surrey GU2 5BH,  
United Kingdom; 0483-300966

22-25  
Third International Symposium on  
Defect Recognition and Image  
Processing for Research and  
Development of  
Semiconductors— DRIP III  
Tokyo, Japan  
T. Ogawa, Dept. of Physics,  
Gakushuin Univ., Mejiro, Tokyo  
171, Japan; 03-986-0221, ext.  
459; fax 03-590-2602

25-27  
Industrial Applications of  
Advanced Materials  
Staffordshire, United Kingdom  
J. Robson, Staffordshire Design  
and Technology Centre, Keele  
Science Park, Univ. of Keele,  
Staffordshire ST5 5BG; (0785)  
52331, ext. 5310

25-29  
16th International Symposium on  
GaAs and Related Compounds  
Karuzawa, Japan  
T. Katoda, Research Center for  
Advanced Science and Technol-  
ogy, Univ. of Tokyo, 4-6-1  
Komaba, Meguro-ku, Tokyo 153,  
Japan

25-29  
11th International Vacuum  
Congress (IVC-11) and 7th  
International Conference on Solid  
Surfaces (CSS-7)  
Cologne, W. Germany  
D.A. Benninghoven, Physikali-  
sches Institut Der Universitat  
Munster Wilhelm-Klemm Strasse  
10, D-4000, Munster, W. Germany

26-28  
21st International SAMPE  
Technical Conference  
Atlantic City, NJ  
SAMPE, 843 W. Glentana, P.O.  
Box 2459, Covina, CA 91722;  
(818) 331-0616

# CALENDAR

## OCTOBER 1989

- 1-5  
Symposium on Simulation and Theory of Evolving Microstructures and Textures, TMS Fall Meeting Indianapolis, IN  
M.P. Anderson, Exxon Research and Engineering Co., Rt. 22 East, Annandale, NJ 08801; (201) 730-2756
- 2-4  
Second European Conference on Electron and Optical Beam Testing of Integrated Circuits  
Duisburg, W. Germany  
E. Kubalek and L.J. Balk, Werkstoffe der Elektrotechnik, Universitat Duisburg, Kommandantenstr. 60 D-4100 Duisburg 1, W. Germany; 49-203 3 79 34 06
- 2-6  
European Space Power Conference  
Madrid, Spain  
J.-C. Larue, European Space Research and Technology Centre, XPG, Postbus 299, 2200 AG Noordwijk ZH, Netherlands; 31 (0) 1719 83973; fax 1719 17400

3-6  
American Society for Composites: Fourth Technical Conference on Composite Materials  
Blacksburg, VA  
M.W. Hyer, ESM Dept., Virginia Tech., Blacksburg, VA 24061; (703) 231-5372

9-13  
GADEST III: Third International Autumn Meeting on Getting and Defect Engineering in Semiconductor Technology  
Castle Garzau, E. Germany  
M. Kittler, Institute of Semiconductor Physics, Academy of Sciences of the GDR, POB 409, Frankfurt 1200, E. Germany

8-11  
Fourth Workshop on Organometallic Vapor Phase Epitaxy  
Monterey, CA  
B. Kamperman, The Minerals, Metals & Materials Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050; fax (412) 776-3770

16-18  
International Symposium on the Physical Chemistry of Powdered Metals Production and Processing  
St. Mary's, PA  
TMS, Meetings Dept., 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050; fax (412) 776-3770

15-20  
OSA Annual Meeting  
Orlando, FL  
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-0920

21-24  
Soil Dynamics & Earthquake Engineering IV Conference  
Mexico City, Mexico  
L. Newman, Computational Mechanics Institute, 52 Henstead Rd., Southampton, S01 2DD, England; 44-703-221398; fax 44-703-331020

22-28  
Second International Conference on Solid State & Integrated Circuit Technology  
Beijing, China  
Continuing Education in Engineering, University Extension, Univ. of

California, 2223 Fulton St., Berkeley, CA 94720; (415) 642-4151; fax (415) 643-8683  
(See related article in Vol. XIII No. 11.)

23-27  
36th National Vacuum Symposium  
Boston, MA  
M. Churchill, American Vacuum Society, 335 E. 45th St., New York, NY 10017; (212) 661-9404

24-29  
European Conference on Applications of Surface and Interface Analysis (ECASIA 89)  
Antibes, France  
J. Fauvet, Societe Francais du Vide, 19 rue du Renard, F-75004 Paris, France

## NOVEMBER 1989

27-2  
[MIRIS] Materials Research Society Fall Meeting  
Boston Marriott and Westin Hotels/Copley Place, Boston, MA  
M. Geil, Materials Research Society, 9800 McKnight Rd., Suite 327, Pittsburgh, PA 15237; (412) 367-3003; fax (412) 367-4373

## DECEMBER 1989

14-26  
Royal Australian Chemical Institute PAC-Chem 89: International Congress of Pacific Basin Chemical Societies  
Hawaii  
D.J.T. Hill, Chemistry Dept., Univ. of Queensland, St. Lucia, Queensland, 4067, Australia

## MARCH 1990

12-16  
American Physical Society Meeting  
Anaheim, CA  
W.W. Havens, Jr., APS, 335 E. 45th St., New York, NY 10017

## APRIL 1990

16-20  
[MIRIS] Materials Research Society Spring Meeting  
San Francisco, CA  
M. Geil, Materials Research Society, 9800 McKnight Rd., Suite 327, Pittsburgh, PA 15237; (412) 367-3003; fax (412) 367-4373

22-27  
American Chemical Society Meeting  
Boston, MA  
American Chemical Society, 1155 16th St. NW, Washington, DC 20036; (202) 872-4600

# CLASSIFIED

## Positions Available

### FULL-TIME FACULTY POSITION Department of Mechanical Engineering Division of Materials Science and Engineering University of California, Davis

The Division of Materials Science and Engineering in the Department of Mechanical Engineering at the University of California, Davis invites applications for a full-time faculty position. The candidate should have a dedicated interest in teaching and in experimental research directed toward the properties, processing and characterization of electronic, optical, or dielectric materials. Qualifications must include an earned doctorate or equivalent degree in materials science and engineering, or a related field, experience in materials research in the stated area(s) and a commitment to teach at both the undergraduate and graduate levels. The level of appointment will be commensurate with the qualifications of the applicant.

The Division offers BS, MS, and PhD degrees in materials science and engineering and has a strong commitment to teaching and research. At present, five faculty, 30 graduate students, and 95 undergraduates participate in the programs of the Division.

Applications must be received by **April 30, 1989**. Send resume, which should include the names, addresses and phone numbers of five references to:

Materials Science Search Committee  
c/o Prof. Harry Brandt  
Department of Mechanical Engineering  
University of California  
Davis, CA 95616

Equal Opportunity/Affirmative Action Employer

### PART-TIME FACULTY POSITION Helsinki University of Technology-Finland

Helsinki University of Technology is the oldest and largest university of technology in Finland, having 10,000 students and a teaching and research staff of approximately 1,500 persons. The university is located on a modern campus 10 km west of Helsinki.

The University seeks a candidate for a new part-time professorship in MATERIALS SCIENCE AND ENGINEERING. The salary will be about 80,000 FIM per year, which corresponds to 1/3 of a full professorship. The successful candidate will be expected to spend at least a part of his time each year in Finland in order to initiate and conduct research, supervise postgraduate students and teach postgraduate courses. The contract can be made for a limited time from one to four years. Candidates are sought in all areas of materials science and engineering including preparation and/or processing of metals, electronic materials, polymers, ceramics and composites. Special emphasis will be placed on advanced materials and computer-aided modeling in materials processing. A doctorate in a relevant field and strong background in teaching and/or research are required.

Applicants are encouraged to respond as soon as possible. The position will be filled starting from September 1, 1989. Send a detailed resume with publication list and names of at least two references to Prof. Kaj Liljus, Chairman, Institute of Materials Technology, Helsinki University of Technology, Vuorimiehentie 2 A, 02150 Espoo, Finland; Telephone 3580-4512769, fax 3580-4512660.