

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. XIII No. 11 for Calendar events from December 1 through December 31, 1988.

JANUARY 1989

- 2-7
Second International Symposium on Solid State Physics
Kandy, Sri Lanka
Institute of Fundamental Studies, Hantana Rd., Kandy, Sri Lanka; (08) 32002; fax 0 83 2001
- 4-6
Short Course on X-Ray Diffractometry & Topography of Semiconducting Materials & Epitaxial Thin Films
San Diego, CA
North Eastern Analytical Corp., 17 Sherman Rd., P.O. Box 25, Millis, MA 02054; (508) 376-4132
- 9-12
Composites in Manufacturing 8
Anaheim, CA
K.A. Wilson, Society of Manufacturing Engineers, One SME Dr., P.O. Box 930, Dearborn, MI 48121; (313) 271-0777; fax (313) 271-2861
- 11-13
SC Global '89
San Francisco, CA
Superconductor Applications Association, 24781 Camino Villa Ave., El Toro, CA 92630; (800) 854-8263
- 15-18
13th Annual Conference on Composites and Advanced Ceramics
Cocoa Beach, FL
American Ceramic Society, 757 Brooksedge Plaza Dr., Westerville, OH 43081-6136; (614) 890-4700; fax (614) 899-6109
- 15-20
O-E/LASE '89: Optoelectronics and Laser Applications in Science and Engineering
Los Angeles, CA
SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290
- 23-24
Second Annual Cambridge Conference on Commercial Applications of Superconductivity
Boston, MA
World Tech Press, One Kendall Square, Suite 2200, Cambridge, MA 02139; (617) 661-0510

- 30-2
CeramTec '89
T.J. Whalen, Engineering Society of Detroit, Regional Conference Center, 24 Frank Lloyd Wright Dr., Suite C-500, Ann Arbor, MI 48105; (313) 995-4440; fax (313) 663-7835
- 30-4
Winter European Course on Amorphous Silicon
Folgoria, Italy
G. Thiels, Winter European Courses, TASK R&S S.r.l., Via Verbano 2, 21027 Ispra (VA), Italy; (0332) 78 17 68/71/77; fax (0332) 78 08 02
- 31-3
17th Australian Polymer Symposium, Polymers in a Hostile Environment
Brisbane, Australia
D.J.T. Hill, Chemistry Dept., University of Queensland, Brisbane, 4067, Australia
- 31-3
International Conference on Sintering of Multiphase Metal and Ceramic Systems
New Delhi, India
G.S. Upadhyaya, Convener ICSMC '89, Dept. of Metallurgical Engineering, Indian Institute of Technology, Kanpur-208 016, India; 240066, ext. 933

FEBRUARY 1989

- 6-8
Conference on Integrated and Guided-Wave Optics (IGWO) Topical Meeting
Houston, TX
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-0920
- 6-9
Conference on Optical Fiber Communication (OFC '89)
Houston, TX
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-0920
- 7-9
PCSI-16: Physics and Chemistry of Semiconductor Interfaces
Bozeman, MT
G.J. Lapeyre, Physics Dept., Montana State University, Bozeman, MT 59717; (406) 994-6153
- 7-9
Superconductive Electronics Short Course
UCLA, Los Angeles, CA
UCLA Extension, P.O. Box 24901, Los Angeles, CA 90024; (213) 825-1047

- 13-17
Fifth International Wire Chamber Conference
Vienna, Austria
M. Regler, Institut für Hochenergiephysik der OeAW Nikosdorfergasse 18, A-1050, Vienna, Austria
- 21-24
Fourth International Symposium on Recent Advances in Drug Delivery
Salt Lake City, UT
Kristine Knutson, University of Utah, Dept. of Pharmaceutics/CCCD, 421 Wakara Way, Suite 318, Salt Lake City, UT 84108; (801) 581-6654
- 27-1
Microphysics of Surfaces, Beams and Adsorbates Topical Meeting
Salt Lake City, UT
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-0920
- 27-2
TMS Annual Meeting
Las Vegas, NV
The Metallurgical Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050
- 27-3
Gordon Conference on Superconductivity
West Coast, USA
A. Sleight, Experimental Station 356/301, E.I. du Pont de Nemours & Co., Wilmington, DE 19898; (302) 695-3536

MARCH 1989

- 6-8
Fourth International Seminar on Lithium Battery Technology and Applications
Deerfield Beach, FL
S.P. Wolsky, Ansum Enterprises, 950 De Soto Rd., Suite 3B, Boca Raton, FL 33432; (407) 391-3544
- 6-9
MRS Industry-University Advanced Materials Conference
Denver, CO
F. Smith, Advanced Materials Institute, Colorado School of Mines, Golden, CO 80401; (303) 491-8657
(See related article in Vol. XIII No. 5.)
- 6-9
Ninth General Conference, Condensed Matter Division, EPS
Nice, France
J.P. LaHeuorte, Lab. de la Metiere Condensee, Univ. de Nice, F-06034 Nice, Cedex, France
- 8-9
Molecular Chemistry for Solid-State Electronics
London, United Kingdom
The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG, United Kingdom

- 12-25
NATO Advanced Study Institute: Diffusion in Materials
Aussois, France
A.L. Laskar, Dept. of Physics and Astronomy, Clemson Univ., Clemson, SC 29631; (803) 656-5310; fax (803) 656-4040
- 20-22
European Workshop on Refractory Metals and Silicides
Houthalen, Belgium
R. De Keersmaecker, IMBE, Kapeldreef 75, B-3030 Leuven, Belgium; (32) 16 281 211
(See related article in Vol. XIII No. 7.)
- 20-24
American Physical Society Meeting
St. Louis, MO
W.W. Havens, American Physical Society, 335 E. 45th St., New York, NY 10017; (212) 682-7341
- 27-31
1989 Technical Symposia on Aerospace Sensing including Symposium on Infrared Applied Science & Engineering and Symposium on Optics, Electro-Optics, & Sensors
Orlando, FL
SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290; fax (206) 647-1445
- 29-31
Neutron and X-Ray Scattering Complementary Techniques
Canterbury, United Kingdom
R.J. Newport, Physics Lab., University of Kent, Canterbury CT2 7NR, United Kingdom

- 30-31
Colorado Microelectronics Conference
Colorado Springs, CO
CMC '89 Conference Secretary, Microelectronics Research Laboratories, Univ. of Colorado, Colorado Springs, CO 80933-7150; (719) 593-3488
- 30-10
NATO Advanced Study Institute: International Advanced Course on Frontiers of Laser Spectroscopy of Gases
Vimetro, Portugal
J.M. Hollas, Dept. of Chemistry, University of Reading, Reading RG6 2AD, United Kingdom
- 30-14
Experimental Workshop on High T_c Superconductors
Trieste, Italy
International Centre for Theoretical Physics, HP.O. Box 586, I-34100 Trieste, Italy; (0-40) 224241; fax 22 4531

APRIL 1989

- 1-6
World Congress on Superconductivity
Houston, TX
R.D. Kane, P.O. Box 27805,
Houston, TX 77227-7805;
(713) 895-2500
- 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
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
- 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
Administrator, Royal Microscopical Society, 37/38 St. Clements, Oxford OX4 1AJ, United Kingdom;
44(0)-865-248768
(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

- 23-27
91st Annual Meeting and Expo of the American Ceramic Society
Indianapolis, IN
American Ceramic Society, 757 Brookside 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
Quantum Electronics and Laser Science Conference (QELS '89)
Baltimore, MD
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-0920

MAY 1989

- 1-4
American Physical Society Spring Meeting
Baltimore, MD
American Physical Society, 335 East 45th Street, New York, NY 10017; (212) 682-7341
- 7-12
Symposium on High T_c Superconductor Technologies (HiT_cST2) 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
Nurrigen, W. Germany
DECHEMA, Abt. Tagungen, P.O. Box 970146, Theodor-Heuss-Allee 25, D-6000 Frankfurt am Main 97, W. Germany
- 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 University, Dept. of Engineering Science and Mechanics, University Park, PA 16802;
(814) 865-2410
- 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
- 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-MRS 1989 E-MRS Spring Meeting
Strasbourg, France
P. Siffert, Centre de Recherches Nucléaire, Laboratoire PHASE, F-67037, Strasbourg Cedex, France; 88 28 65 43
- 30-2
E-MRS 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

JUNE 1989

- 15-29
Advances in Nonradiative Processes-NATO Advanced Study Institute
Institute
Erice, Italy
B. DiBartolo, Dept. of Physics, Boston College, Chestnut Hill, MA 02167; (617) 552-3575
- 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 Metallurgical Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050
- 26-28
Coherence and Quantum Optics Conference
Rochester, NY
L. Mandel, University of Rochester, Dept. of Physics, Rochester, NY 14627;
(716) 275-4361

JULY 1989

- 10-14
International Conference on Ion Sources
Berkeley, CA
W. O'Connor, Lawrence Berkeley Lab., 50B-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. Brundle, 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
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
American Crystallographic Association Annual Meeting
Seattle, WA
American Crystallographic Association, 335 E. 45th St., New York, NY 10017; (212) 661-9404

23-28
International Conference on Materials and Mechanisms of Superconductivity; High Temperature Superconductors (HTSC-M²S)
Stanford, CA
J. Higgins, Meeting Planning Associates, 883 Santa Cruz Ave., Menlo Park, CA 94025; (415) 326-7781; fax (415) 326-3945

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 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 Nagasuta, Midori-ku, Yokohama 227, Japan

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

24-28
Cryogenic Engineering Conference and International Cryogenic Materials Conference
Los Angeles, CA
D. Hustvedt, CEC/ICMC Secretariat, Dept. of Chemical Engineering BH 5405, University of California, Los Angeles, CA 90024-1592

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 Vol. XIII No. 11.)

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

13-26
NATO Advanced Study Institute: High T_c 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

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

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
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, S01 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 (ECCART)
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

17-20
12th Biennial ASME Conference on Mechanical Vibration and Noise
Montreal, Canada
T.S. Sankar, Dept. of Mechanical Engineering, S-B 302, Concordia University, 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 Metallurgical Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050

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

18-22
American Society for Precision Engineering Annual Meeting and Fifth International Precision Engineering Seminar
Monterey, CA
G. Swingle, ASPE/IPES5 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

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

OCTOBER 1989

- 1-5
TMS Fall Meeting: Physical Metallurgy and Materials Indianapolis, IN
The Metallurgical Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050
- 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, Universität 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

- 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, University 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 of the AVW 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, Société Française du Vide, 19 rue du Renard, F-75004 Paris, France

NOVEMBER 1989

- 27-2
MRS 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., University of Queensland, St. Lucia, Queensland, 4067, Australia

TMS

Minerals • Metals • Materials

SHORT COURSES

February 25-26, 1989 • Las Vegas, Nevada
Held in conjunction with the 1989 TMS Annual Meeting & Exhibition

State-of-the-art techniques will be detailed in these 1-day courses sponsored by the Structural Materials Division.

FUNDAMENTALS OF FAILURE ANALYSIS

Saturday, February 25

Instructor: Dr. Andrew Madeyski, Westinghouse R&D

Step-by-step instruction for conducting failure analysis will be presented, focusing on methods, techniques and instruments, as well as possible pitfalls to avoid.

PRINCIPLES OF SURFACE MODIFICATION ENGINEERING

Saturday, February 25

Instructor: Prof. J. Michael Rigsbee, University of Illinois

Principles and applications of surface engineering, including conventional techniques such as carburizing, and evolving processes such as physical vapor deposition and laser hardening.

MATERIALS CHARACTERIZATION TECHNIQUES: IONS, PHOTONS & ELECTRONS

Saturday, February 25

Instructor: Prof. Ram Kossowsky, Penn State University

Three major classes of analytical techniques and instruments based on photon, electron or ion radiations will be presented, with emphasis on limitations, advantages, sensitivities, resolutions, and applications to the analyses of metals, ceramics and polymers.

DESIGN PRINCIPLES OF COMPOSITE MATERIALS

Sunday, February 26

Instructor: Prof. Maurice Amateau, Penn State University

Basic definitions, design principles and constituent properties of metal, ceramic and polymer composites, as well as special topics such as joining, mechanical performance, thermal effects and applications.

APPLICATIONS OF ARTIFICIAL INTELLIGENCE TO ENGINEERING

Sunday, February 26

Instructor: Dr. Jan Schreurs, Westinghouse R&D

Measures of intelligence, search strategies, heuristics, and knowledge representations will be discussed, as well as applications to problems in industry.

FUNDAMENTALS OF STRUCTURE & MECHANICAL PROPERTIES OF POLYMERS: A MATERIALS SCIENCE APPROACH

Sunday, February 26

Instructor: Prof. Stephen H. Carr, Northwestern University

The effect of microstructure on mechanical behavior of polymeric materials will be discussed, with emphasis on semicrystalline polymers, block copolymers, and polymer alloys.

All Courses: \$295 each

For information, contact: Continuing Education, TMS, 420 Commonwealth Drive, Warrendale, PA 15086 • Telephone (412)776-9011