

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. 7 for Calendar events from August 1 through August 31, 1988.

## SEPTEMBER 1988

- 4-9  
International Symposium on Metal-Hydrogen Systems Fundamentals and Applications Stuttgart, W. Germany  
E. Fromm, Max Planck für Metallforschung, Institut für Wirkstoff Wissenschaften, Seestrasse 92, D-7000 Stuttgart 1, W. Germany
- 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;  
A. Gras Marti, Universidad de Alicante, LCLFCA, Apt. 99, E-03080, Alicante, Spain
- 5-7  
International Conference on Interfacial Phenomena in Composite Materials (IPC88) Sheffield, United Kingdom  
J. Herriot, Butterworth Scientific Ltd., P.O. Box 63, Westbury House, Bury St., Guildford, Surrey GU2 5BH, United Kingdom; 0483 300966; fax: 0483 301563
- 6-8  
Boundary Element Method Conference Southampton, United Kingdom  
L. Newman, Computational Mechanics Institute, 52 Henstead Rd., Southampton, S01 2DD, England; 44-703-221398
- 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  
Course on Biomaterials Degradation Oporto, Portugal  
M.A. Barbosa, Dept. of Metallurgy, Faculty of Engineering, Rua dos Bragas, 4099 Porto Codex, Portugal
- 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
- 12-16  
18th Rare Earth Research Conference Lake Geneva, WI  
L. DeLong, Dept. of Physics and Astronomy, Univ. of Kentucky, Lexington, KY 40506
- 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, 1-10125 Torino, Italy
- 18-23  
Carbon '88 Conference Newcastle upon Tyne, United Kingdom  
Conference Secretariat, Carbon '88, Society of Chemical Industry; 14/15 Belgrave Sq., London SW1X 8PS, United Kingdom; 44-01-235-3681
- 19-21  
Tech Transfer Symposium on Influence of Interfaces on Materials Synthesis and Properties Richland, WA  
D.R. Baer, Battelle Pacific Northwest Laboratory, P.O. Box 999, Richland, WA 99352; (509) 375-2375
- 19-21  
Workshop on Interfaces in Materials—Synthesis and Properties Richland, WA  
D.R. Baer, Battelle Pacific Northwest Labs, P.O. Box 999, Richland, WA 99352; (509) 375-2375

- 19-23  
International Congress on Optical Science and Engineering Hamburg, West Germany  
SPIE, P.O. Box 10, Bellingham, WA 98227-0010; (206) 676-3290
- 19-23  
International Conference on Plasma Surface Engineering Garmisch-Partenkirchen, W. Germany  
Conference Secretariat, Deutsche Gesellschaft für Metallkunde e.V., Adenauerallee 21, D-6370 Oberursel, W. Germany
- 20-22  
International Conference on Microlithography—Microcircuit Engineering '88 Vienna, Austria  
H. Loschner, Conference Secretary ME88, Erwin Schrodinger Association for Microsciences, Schreygasse 3/3, A-1020 Vienna, Austria
- 22-23  
Workshop on the Oxidation of High-Temperature Intermetallics Westlake, OH  
G.M. Michal, Dept. of Materials Science & Engineering, Case Western Reserve University, 10900 Euclid Ave., Cleveland, OH 44106
- 24-30  
World Materials Congress Chicago, IL  
ASM International, Metals Park, OH 44073; (216) 338-5151
- 25-29  
TMS Fall Meeting Chicago, IL  
B. Kamperman, The Metallurgical Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050
- 25-30  
Polymers in Information Storage Technology Los Angeles, CA  
K.L. Mittal, IBM-Corporate Technical Inst., 500 Columbus Ave., Thornwood, NY 10594; (914) 742-5747
- 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

- 26-29  
Short Wavelength Coherent Radiation Topical Meeting North Falmouth, MA  
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-8130
- 26-30  
1988 Congress on Materials Processing in Space 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
- 26-30  
20th Europhysics Conference on Macromolecular Physics and 3rd Lausanne Polymer Meeting: Physical Mechanisms in Polymer Failure Lausanne, Switzerland  
K.H. Kausch, Lab. de Polymeres, 32 Chemin de Bellerive, CH-1007 Lausanne, Switzerland; 41-021-47-2847
- 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
- 27-29  
1988 Materials, Applications and Services Exposition Chicago, IL  
P. Carlson, The Metallurgical Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9040

- OCTOBER 1988**
- 2-6  
American Physical Society Fourth International Laser Science Conference Atlanta, GA  
L. Borders, Iowa Laser Facility, University of Iowa, Iowa City, Iowa 52242-1294; (319) 335-1299
- 2-7  
35th National Vacuum Symposium Atlanta, GA  
N. Hammond, American Vacuum Society, 335 E. 45th St., New York, NY 10017; (212) 661-9404

4-6  
Workshop on Tungsten and Other Refractory Metals for VLSI Applications IV  
Albuquerque, NM  
L. Reid, Continuing Education in Engineering, University Extension, 2223 Fulton, St., Berkeley, CA 94720; (415) 642-4151

9-12  
17th Annual Conference of the North American Thermal Analysis Society  
Lake Buena Vista, FL  
M.M. Steiner, Lockheed R&D Division, 0/93-50, B/204, 3251 Hanover St., Palo Alto, CA 94304; (415) 424-2581

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  
H. Fuchs, Hahn-Meitner Institut, Berlin GmbH, Glienicke Strasse 100, D-1000 Berlin 39, W. Germany; (30) 8009-2291

10-19  
European School on III-V Compound Microelectronics, 3rd Session  
Paris, XI Orsay and Bordeaux, France  
A.M. Ruiz Jimenez, Spain, 341 80 71 613; H. Henke, W. Germany, 49 241 80 77 50; S. Rigo, France, (1) 69 41 72 66  
(See related article in Vol XIII No. 7.)

16-18  
Science and Technology Seminar Santa Clara, CA  
M. Calcaterra, Catalytica Studies Division, 430 Ferguson Dr., Building 3, Mountain View, CA 94043; (415) 960-3000

16-18  
Superconductors in Magnetics Commercialization Workshop  
San Francisco, CA  
Advantage Quest, 1110 Sunnyvale-Saratoga Rd., Suite C2, Sunnyvale, CA 94087-2515; (408) 733-0818; fax (408) 749-1230

18-19  
U.S.-Sweden Joint Symposium on Materials Futures: Strategies and Opportunities  
Philadelphia, PA  
U.S.-Sweden Joint Symposium, R.B. Pipes, College of Engineering, Univ. of Delaware, Newark, DE 19716; (302) 451-8302  
(See related article in this issue.)

19-21  
Second Conference on Crystal Growth of the American Association of Crystal Growth Eastern Region  
Atlantic City, NJ  
E. Porbansky, Allied-Signal Inc., P.O. Box 1021R, CTC-1, Morristown, NJ 07960; (201) 455-6879

21-23  
Hydrogenated Amorphous Silicon Rd., Devices and Technology  
Yorktown Heights, NY  
J. Kanicki, IBM T.J. Watson Research Center, P.O. Box 218, Yorktown Heights, NY 10598; (914) 945-3885

23-26  
41st Pacific Coast Regional Meeting, Northern California Section, American Ceramic Society  
San Francisco, CA  
G. Selvaduray, Dept. of Materials Engineering, San Jose State Univ., San Jose, CA 95192; (408) 924-3874

Symposium on Nonlinear Optical Materials, American Ceramic Society  
San Francisco, CA  
E.M. Vogel, Bellcore, 3Z-283, 331 Newmann Springs Rd., Red Bank, NJ 07701; (201) 758-3261

23-26  
**MRS Symposium on Advanced Characterization Techniques for Ceramics** (American Ceramic Society Regional Meeting)  
San Francisco, CA  
W.S. Young, 715 Concord Pl., Gilroy, CA 95020; (408) 256-4394

30-31  
APS Division of Plasma Physics Meeting  
Hollywood, FL  
American Physical Society, 335 East 45th St., New York, NY 10017; (212) 682-7341

31-4  
Florida Advanced Materials Chemistry Conference  
St. Augustine, FL  
R.S. Drago, Dept. of Chemistry, Univ. of Florida, Gainesville, FL 32611

31-4  
Optics '88: OSA Annual Meeting  
Santa Clara, CA  
Optical Society of America, 1816 Jefferson Pl. NW, Washington, DC 20036; (202) 223-8130

## NOVEMBER 1988

7-8  
SIMOX Workshop  
Guildford, United Kingdom  
B. Dore, Dept. of Electronic & Electrical Engineering, University of Surrey, Guildford, GU2 5XH, United Kingdom; (0483) 571281, ext. 2270

(See related article in Vol. XIII No. 7.)

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

7-10  
**E-MRS 1988 E-MRS Fall Meeting**  
Strasbourg, France  
P. Siffert, Centre de Recherches Nucléaire, Laboratoire PHASE, F-67037 Strasbourg Cedex, France; 88 28 65 43

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

14-18  
116th ASA Meeting/Second Joint Meeting with Acoustical Society of Japan  
Honolulu, HI  
Acoustical Society of America, 335 East 45th St., New York, NY 10017; (212) 661-9404

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

21-23  
Hydrogenated Amorphous Silicon Devices and Technology  
Yorktown Heights, NY  
J. Kanicki, IBM T.J. Watson Research Center, P.O. Box 218, Yorktown Heights, NY 10598; (914) 945-3885

28-31  
**MRS Materials Research Society Fall Meeting**  
Boston, MA  
A. Wagner, Materials Research Society, 9800 McKnight Rd., Suite 327, Pittsburgh, PA 15237; (412) 367-3003

## DECEMBER 1988

14-16  
Seventh International Symposium on Ceramics  
Bologna, Italy  
J. Routbort, U.S. Dept. of Energy, Basic Energy Sciences, Div. of Materials Science, ER 131, M.S. G236, Washington, DC 20545

## JANUARY 1989

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

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

27-28  
TMS Annual Meeting  
Las Vegas, NV  
The Metallurgical Society, 420 Commonwealth Dr., Warrendale, PA 15086; (412) 776-9050

## 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

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.)

# CALENDAR

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

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  
International Advanced Course on  
Frontiers of Laser Spectroscopy  
of Gases  
NATO Advanced Study Institute  
Vimelo, Portugal  
J.M. Hollas, Dept. of Chemistry,  
University of Reading, Reading  
RG6 2AD, United Kingdom

## APRIL 1989

3-6  
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

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

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**  
San Diego, CA  
A. Wagner, Materials Research  
Society, 9800 McKnight Rd., Suite  
327, Pittsburgh, PA 15237;  
(412) 367-3003; fax (412) 367-4373

## MAY 1989

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

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

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

# CLASSIFIED

## Positions Available

### STAFF SCIENTIST III CERAMICS RESEARCH

As a group leader, perform original research with MCS D Investigators on the processing and mechanical testing of ceramics, ceramic composites and ceramic/metal laminates. Specific tasks will include experimental testing at low and very high temperatures (<1500°C) of such materials for creep crack growth and cyclic fatigue crack growth measurement, full characterization of microstructures and fracture surfaces using optical, scanning electron and Normaski microscopy and using Raman spectroscopy and x-ray diffraction. Must hot press and sinter ceramic materials, and prepare ceramic/metal interfaces for study, and run a mechanical testing laboratory, involving maintenance of servohydraulic testing machines, vacuum and high temperature furnaces, and development of sophisticated test methods for the evaluation of creep and fatigue in ceramics. Instruction and supervision of students using these facilities and assisting them in the interpretation of data.

Prefer PhD in Materials Science with specialization in ceramic materials. Knowledge of chemistry beneficial. Extensive experience in conducting original research in the fabrication, experimental testing and fracture of ceramic materials, preferably both monolithic and composite, with proven evidence of experimental expertise. Evidence of ability to publish original research in archival technical journals.

**Recruitment closes September 15, 1988. To apply, submit a resume to: Employment Office, Job A/4777, Lawrence Berkeley Laboratory, Bldg. 90-1012, #1 Cyclotron Road, Berkeley, CA 94720.**

*An Equal Opportunity Employer M/F/H.*

### RESEARCH FACULTY AND POSTDOCTORAL POSITIONS Vanderbilt University

The Materials Research and Applications Center at Vanderbilt University invites applications for Research Faculty/Postdoctoral positions starting approximately September 1988. The successful candidates will be expected to take strong roles in developing several NASA-approved materials science, fluid dynamics, and nonlinear acoustic experiments. Some of these experiments are expected to be flown on NASA Space Shuttle Missions. Desirable candidates are those with PhDs in any of the following: Condensed-Matter, Physical Acoustics, Materials Science, Fluid Mechanics, or Mechanical Engineering. This is a new center with opportunities for self-motivated individuals to perform pioneering work. Salary and ranking will be commensurate with qualifications and experience. Please send resume and three letters of recommendation to:

Prof. Taylor Wang  
Dept. of Mechanical &  
Materials Engineering  
Vanderbilt University  
Olin Hall, Room 101  
Nashville, TN 37235