

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
Vimelro, 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.

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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

Positions Available

We're Arco Solar, Inc., a leading innovator in the field of photovoltaic energy. We currently have the following opportunity for a talented and driven professional:

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We are seeking an enthusiastic, detail-oriented individual with a BS or MS in Material Science, Electrical Engineering or Applied Physics, with a knowledge of electronic materials, semiconductor thin film processing and electronic devices. Requires hands on experience with vacuum deposition including physical or chemical vapor deposition. Responsible for mechanical scribing and laser ablation patterning, electronic analyses and conceptual modeling of thin film properties, PV junction and module performance. Knowledge of hazardous chemicals and excellent interpersonal skills desired.

Please send your resume to: **Sandra P. Singer, Professional College Recruiter, 4650 Adohr Lane, Camarillo, CA 93010, (805) 388-6325.** Equal Opportunity Employer

ARCO Solar, Inc. 
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**TECHNICAL EDITOR
Materials Research Society**

The Materials Research Society, headquartered in Pittsburgh, seeks a creative and assertive leader to serve as editor of a rapidly growing monthly magazine serving materials research professionals. Responsibilities include establishing issue themes, acquiring and evaluating technical overview articles, writing and directing the rewriting of articles, and soliciting and evaluating news from government, industry, and education. Masters degree in a technical field relevant to materials science and engineering required and knowledge of current developments in one or more major materials research areas desirable. Well-organized individual sought with strong writing and editing skills and prior experience in writing and editing for publications serving the technical community. Salary and benefits commensurate with experience. Send resume, samples of writing, names of two references, and relevant salary history to Chairman of Technical Editor Search Committee, Materials Research Society, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237.

To reply to Box Number write: Box _____
MRS BULLETIN
9800 McKnight Road
Suite 327
Pittsburgh, PA 15237

**RESEARCH ELECTRONICS
ENGINEER/PHYSICIST**

We are looking for candidates who have a BS or MS in Electrical Engineering, Materials Science, or Physics with experience in the electrical characterization of materials and a background in solid state physics as it pertains to their conductive and insulative properties. Additional experience in the areas of EMP or Lightning protection is a plus. Along with the technical skills, candidates must have some successful team leadership experience and must be a self-starting, strong work-ethic type person with good writing, communication, and interpersonal skills.

The successful candidate will report to the research organization's Chief Engineer and become part of a major electrical device manufacturer's research team that is developing strategic corporate technologies. This person will also work with a research technician and be responsible for hardware/software lab support for various other product development programs.

This position offers a great deal of potential in a growing organization that will ultimately be responsible for establishing manufacturing capabilities to deliver its new technologies to market.

This unique career position is in the Los Angeles/South Bay area and offers excellent compensation and benefits. Reply to Box BXIII-8 c/o MRS BULLETIN.

**POSTDOCTORAL RESEARCH POSITIONS
IN SUPERCONDUCTIVITY**

**Texas Center for Superconductivity
at the University of Houston**

The Texas Center for Superconductivity at The University of Houston (TCSUH) invites applications for a number of research positions in various aspects of superconductivity research. Positions are available for Physicists, Chemists, and Chemical, Electrical, and Mechanical Engineers. Broad problem areas in which research is in progress includes study of the physics and chemistry of high temperature superconducting (HTSC) and related materials. Search for new material, development of existing material for applications, bulk and film materials synthesis and characterization, devices design and development, etc.

TCSUH was established by an Act of the Texas State Legislature in June 1987. It is a multidisciplinary research consortium dedicated to basic and applied research technology development and transfer, and advanced education in the field of HTSC. The consortium will consist of other universities, industry, and government laboratories. TCSUH currently is funded by federal, state, University of Houston, and private sources at an annual budget of over \$10 million.

Applications should be sent to Prof. Paul Chu, Director, TCSUH, University of Houston, Houston TX 77204-5506. Deadline is open until positions are filled. Inquiries can be made to Dr. Pei Hor (713) 749-2841, Dr. Dan Luss (713) 749-3617, or Dr. Roy Weinstein (713) 749-4385.

TCSUH is an Affirmative Action/Equal Opportunity Employer

Positions Available

Scientists—Corrosion Sciences

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FROM FIRST PRINCIPLES**

Few challenges today come with ready-made answers. Add the complexity of high technology and the possibilities multiply. As the central research facility for Martin Marietta Corporation, Martin Marietta Laboratories is solving some of the toughest problems around.

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To qualify you need a PhD and 0-5 years experience (or an MS and 5-10 years) in materials science, corrosion, and/or electrochemistry. A familiarity with the techniques of experimental electrochemistry and materials analysis (STEM, TEM, XRD, XPS) and excellent oral and written communications skills are also required.

Scientific excellence is our top priority . . . and your chance for real-world involvement. Plus we're located between Baltimore, MD and Washington, D.C., America's fastest-growing technological corridor. For more information, please contact

Beth Snyder Jones
Personnel Recruiter
Martin Marietta Laboratories
1450 South Rolling Road
Baltimore, MD 21227
(301) 247-0700, ext. 2331

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MARTIN MARIETTA

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FACULTY POSITION
Advanced Ceramic Materials

The University of Toronto is seeking applications for a tenure stream position at the level of assistant professor. The applicant should have a PhD and teaching/research experience in the structure, properties and processing of advanced ceramics, preferably with specialization in industrial ceramics or optoelectronic materials. This position is a cross appointment between the Departments of Chemical Engineering and Applied Chemistry and Metallurgy and Materials Science.

The appointee would be expected to teach and to maintain an active research program. Please submit a resume, a statement on research and teaching interests, and the names and addresses of 3 references to Prof. W.A. Miller, Chairman, Department of Metallurgy and Materials Science, University of Toronto, Toronto, Ontario, M5S 1A4, Canada. The application deadline is November 1, 1988 or until a suitable candidate is chosen. The appointment date is on or after January 1, 1989.

This is an international search; applications are encouraged from qualified persons without regard to citizenship. The University encourages both women and men to apply.

FACULTY POSITION
University of Pittsburgh

A faculty position is open in the tenure stream in the Department of Materials Science and Engineering. Applicants should have strong interests in the Materials Science of Ceramics, preferably in electromagnetic ceramics and/or in electron microscopy of ceramic materials. Other ceramic specializations will be considered. Preference will be given to an experienced leader in the field. Duties will include teaching graduate and undergraduate courses in ceramics and materials, and initiating and actively engaging in graduate research. Applicants should have a PhD in ceramics, materials science, or a related discipline and a successful research record.

Curriculum vitae and references should be submitted before October 1, 1988 to:

Ceramic Search Committee
Materials Science and
Engineering
University of Pittsburgh
848 Benedum Hall
Pittsburgh, PA 15261
Attn: J.R. Blanchere

The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
**Statistical Mechanics/
Simulation of Interfaces**

A postdoctoral position is available at the University of Michigan in a project combining statistical-mechanical density-functional theory and atomistic computer simulations to study grain boundaries and other solid-solid interfaces. Interested individuals with a background in statistical mechanics, density-functional theory, atomistic computer simulations, and/or interfacial structures should contact: Prof. David Srolovitz, Dept. of Materials Science and Eng., University of Michigan, Ann Arbor, MI 48109.

Equal Opportunity, Affirmative Action Employer

**RESEARCH SPECIALIST -
ELECTRON MICROSCOPY**

Applications are invited for a research specialist in the Center for Solid State Science at Arizona State University. The successful applicant will primarily be responsible for maintenance of two electron microscopes, as well as training and assistance of users. There will be some opportunity for participation in local on-going research programs. Prefer candidate with MS or equivalent in physical/materials science with prior experience of analytical electron microscopy and microscope maintenance. Salary commensurate with qualifications and experience. Application, vita and three letters of reference should be sent to Mrs. Nancy L. Higgins, Center for Solid State Science, Arizona State University, Tempe, AZ 85287-1704 by August 31, 1988.

Arizona State University is a committed Equal Opportunity/Affirmative Action Employer.