

CALENDAR

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
Universtat Munster Wilhelm-
Klemm Strasse 10, D-4000
Munster, W. Germany

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,
Universitat Duisburg,
Kommandantenstr. 60 D-4100
Duisburg 1, W. Germany;
49-203 3 79 34 06

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

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

6-10

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

7-10

36th National Vacuum Symposium
Phoenix, AZ
N. Hammond, American Vacuum
Society, 335 E. 45th St., New York,
NY 10017

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

CLASSIFIED

Positions Available

POSTDOCTORAL RESEARCH University of Florida

The Department of Materials Science and Engineering has several postdoctoral positions in processing of ceramic-matrix and metal-matrix composites for structural and electronic applications. Positions require extensive experience and background in one or more of the following areas: (1) fabrication of reinforcing fibers, (2) colloidal or sol-gel processing of fibers, coatings, or bulk materials, (3) solidification or powder processing of intermetallics, (4) CVD, CVI of powders, coatings, or fiber composites, (5) plasma processing of powders or coatings. Send resume, three letters of reference to: M. Sacks, 157A Rhines Hall, University of Florida, Gainesville, FL 32611.

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UNIVERSITY OF CALIFORNIA

A number of temporary positions (research engineering, postdoctoral scholars, lecturers) may be available in the following areas: materials science, ceramics, composite materials, metallurgy. PhD or equivalent experience. Send resume to B. Dunn, Chairman, Materials Science and Engineering Department, 6531 Boelter Hall, University of California, Los Angeles, CA 90024-159510.

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POSTDOCTORAL POSITION Interface Science

Applications are invited for a postdoctoral position in theoretical interface science. The position involves computer modeling of solid/solid interfaces in a joint program between Carnegie Mellon and Sandia Livermore. U.S. citizenship and a PhD in Physics or Materials Science are required. Salary \$22,000/annum. Send resume and names of three references to Dr. Paul Wynblatt, MEMS Dept., Carnegie Mellon University, Pittsburgh, PA 15213.

See the list of Advertisers in this issue, p. 46

Positions Available

DIRECTOR
Institute für Neue Materialien

The Institut für Neue Materialien and the Universität des Saarlandes invite applications for the position of Director of the Institute für Neue Materialien Gem. GMBH, Saarbrücken. The director will be simultaneously appointed Full Professor (C4) in the Faculty of Mathematics and Science, Department of Materials Science, Universität des Saarlandes. The position of Director includes the scientific responsibility for one of the departments of the Institute. The research work of the successful candidate should be concentrated on the production of new materials and/or the characterization of such substances.

Applicants should be scientifically qualified in one or more of the following fields: metallic materials, ceramic materials, or semiconductors.

The Institut für Neue Materialien is a research facility of the Saarland and cooperates with the Universität des Saarlandes in both research and graduate education as well as with other research institutions and industrial enterprises.

Applications (resume, scientific background and bibliography) should be submitted by **November 15, 1988**, to the Managing Director, Institut für Neue Materialien GmbH, Prof. Dr. H. Gleiter, Universität des Saarlandes, Gebäude 2, D-Saarbrücken, W. Germany.

MATERIALS SCIENCE FACULTY

MIT Department of Materials Science and Engineering has searches for tenure track assistant professorships available involving teaching and research in the areas noted below:

- **Electronic Materials**
- **Physical Ceramics**
- **Chemical Synthesis/Processing of Materials**
- **Materials Science and Engineering**

Doctorate required and experience desirable. Salaries and benefits competitive. Positions will be filled only if exceptional candidates are found. Appointment to a more senior position is possible based on experience and accomplishments. **Send resume (including citizenship and/or visa status), publications list and references to Professor Merton C. Flemings, Head, Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, MA 02142. MIT is a non-smoking environment.**

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A COMMUNITY AT WORK.



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Full-time position for one year starting January 1, 1989 with possibility to extend (depending on available funds) to assist faculty investigator in the supervision of a semiconductor sample preparation laboratory for transmission electron microscopy. Duties include independent work in crystal orientation by x-ray techniques, cutting and polishing of semiconductor materials and preparation of cross-section samples from electronic devices, use of a scanning electron microscope and preparation of electron micrographs. Master degree in engineering or equivalent, experience with crystallography, semiconductor sample preparation and dark room work are required. Salary depends on the experience.

Applications must be received by **November 1, 1988**. Send resume and name/address of three references to:

Prof. Eicke R. Weber
Dept. of Material Sciences and Mineral Engineering
286 Hearst Mining Building
University of California
Berkeley, CA 94720

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POSTDOCTORAL POSITION
Computer Modeling of Mechanical Properties of Solid Interfaces
Argonne National Laboratory

The Materials Science Division has a postdoctoral opening in the area of "Modeling and Theory of Interfaces." The mechanical properties to be investigated at the atomistic level include elasticity, plasticity, and fracture of metal, alloy, semiconductor and ceramic bicrystals as well as composition-modulated superlattice materials. Methods applied involve molecular-dynamics, Monte Carlo, lattice-dynamics and lattice-statics atomistic simulation methods in close interaction with a variety of experimental programs. A PhD in theoretical mechanics, theory of elasticity, plasticity and/or fracture, solid state theory, or a related theoretical area is required. Only applicants within 3 years of the PhD degree date will be considered. For more technical information, contact Dr. D. Wolf, 312/972-5205. Resume should be forwarded to: Walter D. McFall, Box J-MSD-31181-2W, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439.

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Fax: (412) 367-4373

Positions Available



**MATERIALS CHEMISTRY
Named Full Professorship
Department of Chemistry
Ohio State University**

Nominations and applications are invited for a tenured and named full Professor faculty position in the area of Materials Chemistry. We are seeking a tenured, full Professor in the area of Materials Chemistry. Research areas that would best complement the present faculty efforts are: novel synthesis and/or characterization techniques of materials, interfacial chemical phenomena, and surface science. Other areas will also be considered.

Demonstrated excellence in research and a strong commitment to teaching at both graduate and undergraduate levels is essential. Candidates should send a vitae, list of publications, statement of teaching and research interests and a list of references. We will consult the candidate before soliciting letters of evaluation directly from the list of references.

Nominations and phone inquiries should be directed to Dr. Prabir Dutta, Chair of the Search Committee (614-292-4532), or to Dr. Devon W. Meek, Chairman of the Department of Chemistry (614-292-6723).

Completed files will require a resume, a summary of future research plans, and a list of at least 4 references. Review of nominations and applications will begin **November 1, 1988**, and continue until the search is successful.

The Ohio State University is an equal opportunity educator/employer which specifically invites and encourages applications from women and minorities.

**PACIFIC NORTHWEST LABORATORY
PROFESSORSHIP IN ELECTRONIC MATERIALS
Department of Materials Science and Engineering
University of Washington**

A faculty position at the level of full professor is available at the University of Washington in the area of electronic, magnetic and optical materials with a desired emphasis on electronic ceramics, including bulk, thin film and interface properties and characterization. This position is a tenured faculty position with partial funding provided by Battelle, Pacific Northwest Laboratories (PNL).

Applicants must have a doctorate and demonstrated record of research accomplishment in an area of emphasis encompassed by the above description. Candidates are expected to possess a distinguished record of international leadership with outstanding research publications, a proven record of research funding and an interest in teaching at both undergraduate and graduate levels. The successful candidate is expected to develop specific research relationships with PNL as a part of his/her ongoing program.

To apply, send a letter of application, current resume, list of publications and names of three references to:

Thomas G. Stoebe, Chairman
Department of Materials Science
and Engineering FB-10
University of Washington
Seattle, WA 98195
(206) 543-2600

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**MATERIALS SCIENTIST
SUPERCONDUCTIVITY**

Superconductor Technologies Incorporated has an immediate opening for a materials scientist to develop methods for the growth of epitaxial, superconducting oxide films. The successful candidate will participate with solid state physicists, chemists, ceramists, device engineers, and others in the creation of an organization and a technology at a true frontier. The position offers the opportunity for substantial interaction with eminent faculty at the University of California and the Institute for Theoretical Physics. Continuing pioneering research in this field is a requisite of the position. Equity participation is available for key contributors.

Characteristics of the successful applicant will include demonstrated innovative skills, comfort with the relevant chemistry and physics, and a willingness to take risks commensurate with rewards. A PhD or its equivalent in materials science, solid state chemistry, or an allied field is required. A record of outstanding performance will be weighed more heavily than the particulars of the candidate's experience.

Applicants may send resume to:

Dr. Robert B. Hammond
Superconductor Technologies Inc.
460 Ward Drive, Suite F
Santa Barbara, CA 93111-2310

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An Invitation to:

**Experienced Instructors in
Materials Science**

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ACS Short Courses

ACS Short Courses are two-to-five day programs, which are offered throughout the year, at various locations around the country. These courses are designed for practicing industrial and government chemical scientists and engineers and include concise lectures on state-of-the-art theory and applications of up-to-date technology.

We seek courses that include applications in materials science, technology, and processing. Topics of particular interest include, but are not restricted to, coatings, ceramics, superconductivity, materials for electronic applications, and high performance plastics.

Instructor Qualifications

- Recognized expertise in materials science
- Demonstrated excellence in teaching
- Relevant work experience in materials or polymer process industry
- Degree in materials or polymer science, chemistry, or engineering preferred



To request the ACS proposal kit, specify your topic and call or write: Mr. Carroll E. Fritts, Continuing Education Dept., American Chemical Society, 1155 Sixteenth Street NW, Washington, DC 20036, (202)872-4591.