

## MRS Committees Announce 1989 Goals

This is the first in a series of articles in which the 1989 MRS Committee chairs discuss their objectives and activities for the year. If you have an opinion regarding any of the goals or other objectives that you would like MRS to pursue, send your comments to one of the committee chairs or to the Materials Research Society, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237; telephone (412) 367-3003; fax (412) 367-4373.

### Awards Committee

Chair, John E.E. Baglin, IBM Almaden Research Center, K34/802, 650 Harry Road, San Jose, CA 95120-6099; telephone (408) 927-2280; fax (408) 927-2100

The Awards Committee oversees three special activities, each under a subcommittee:

- The Von Hippel Award subcommittee solicits nominations for MRS's most prestigious award and evaluates the nominations received (deadline July 1). The subcommittee then works with the MRS Council to determine the winner.

- The Student Awards subcommittee receives applications for awards and organizes the judging and award presentation. During the upcoming Fall Meeting, judging will explicitly involve the student's presentation itself, and the new logistics for this process will be developed by the subcommittee.

- The New Awards subcommittee is responsible for developing a series of new and significant Awards and identifying sponsor support for them. This will be a new MRS initiative, and it will require thoughtful and careful planning.

### Continuing Education Committee (CEC)

Chair, Carol M. Jantzen, E.I. du Pont de Nemours & Co., Savannah River Laboratory, Aiken, SC 29808; telephone (803) 725-2374; fax (803) 725-1259

The Continuing Education Committee's (CEC) primary mission is to develop the MRS Short Course Program as a dynamic, complementary forum for technical information exchange at MRS meetings. The Short Course Programs at the MRS Fall and Spring Meetings were developed to respond to the needs of the materials science community for continuing education in certain areas of emerging technology. An outgrowth of these programs has been the On-Site Short Course Program whereby existing short courses in the MRS

portfolio can be presented at the site of any requesting organization, on an instructor-available basis.

On-Site Courses have been presented and tailored for industry, government laboratories, and several professional societies. The On-Site Program can respond to specific requests for new courses in technical areas not currently being addressed by the short course programs of other societies, professional educational organizations, or universities.

The Continuing Education Committee and the Short Course Program will focus on the following objectives:

- Structuring the Short Course Program to complement the technical program at the MRS Spring and Fall meetings;

- Servicing the materials science community by offering unique interdisciplinary courses which focus on technical themes rather than just being a "collection" of courses;

- Continually developing quality courses which respond dynamically to the needs of the materials science community;

- Assisting the academic community by offering scholarships to students to attend the short courses and by encouraging student involvement in MRS.

To meet these goals the CEC is assisting in the development of short course curricula based on materials science themes, and also developing specialized courses focused on symposia presented at MRS meetings. The themes being pursued include materials characterization, materials preparation and fabrication, the effects of materials preparation and fabrication on materials properties, and utilization of materials.

In addition, the CEC helps develop specialized topics of current interest on a timely basis. The Short Course Program attempts to develop courses which are unique and are not being presented in other forums. Courses are presented at all levels of technical exchange, ranging from overviews of a technique or field to in-depth treatment of highly specific subjects. Some of the courses are technologically oriented, while others are scientifically oriented. This not only allows newcomers to a field to find a course of interest, but also allows experts to hear the latest developments in their specific area. One unique objective of this approach is to provide materials scientists with the opportunity to become acquainted with a new area of interest and/or new developments in a short period of time.

The CEC will continue to develop new courses that will become part of the Short Course Program portfolio. One major objective is to group new and existing courses into a curriculum format so that the technical focus and depth of each course can be readily assessed by the materials science community. The second major objective is to further develop the On-Site Program for industrial and academic groups; the third is to assist qualified advanced students to benefit from the Short Course Program by offering a limited number of scholarships in all courses. Enhanced interactions with the Academic Affairs Committee, MRS Student Chapters, and with the academic community in general will be pursued so that materials science students are aware of these opportunities.

### Corporate Participation Committee

Chair, L. Michael Quick, Engelhard Corporation, Menlo Park, CN 28, Edison, NJ 08818; telephone (201) 321-5590; fax (201) 321-0334

The Corporate Participation Committee is the interface between MRS and its Corporate Affiliates, who currently number over 150. The Corporate Affiliates play a vital role in MRS by ensuring that the Society's technical programs are responsive to the interests of the corporate materials research community. The Committee is responsible for keeping the Corporate Affiliates abreast of MRS activities, for seeking their advice on topics to be addressed at its meetings, and for broadening the base of support for MRS and its activities in the corporate sector.

The 1989 Committee has set several objectives including: increasing participation of companies, especially those who exhibit at the Spring and Fall Meetings; and formulating and implementing a new strategy for the General Support fund.

### Finance Committee

Chair, J. Francis Young, University of Illinois, 202A Ceramics Bldg., 105 S. Goodwin, Urbana, IL 61801; telephone (217) 244-6210; fax (217) 244-7705

The Finance Committee works closely with the Treasurer and the Director of Finance in preparing the Society's annual budget and in monitoring actual income and expenditures during the year. The Committee also works with the Treasurer to develop fiscal policy and procedure recommendations for Council. This year the Society's investment policy is being revised and a proposal for a cash reserve is being developed.



J.E.E. Baglin



L.A. Boatner



C.M. Jantzen



L.M. Quick



J.F. Young

As the Society grows in size, it is necessary to periodically review the pattern of income and expenditure in order to ensure the Society is operating in an efficient and fiscally prudent manner. Such a review is being undertaken this year as a joint project with Director of Finance Regis Ebner and other headquarters staff members. We expect this review to result in a better assessment of the true cost of services to members, operation of meetings, short courses, etc.

### Long Range Planning Committee

Chair, John E.E. Baglin, IBM Almaden Research Center, K34/802, 650 Harry Road, San Jose, CA 95120-6099; telephone (408) 927-2280; fax (408) 927-2100

The Long Range Planning Committee will focus on developing a 10-year plan for the Society, which should provide a strategic basis for the future growth and development of MRS. The Committee will prepare an outline of goals for Council to consider in the Spring, and will develop a report on options, recommendations and implementation strategy for Council discussion at the 1989 Fall Meeting. In this process, opinions and comments will be sought widely from MRS members and from other professional sources where possible. Topics for the plan will be addressed under the broad headings of technical communications, technical education, community relations, member services and membership, finance and management, with special reports from a task force on electronic options. The plan is intended never to be a straightjacket; rather, it is intended to make sure that MRS is well positioned to move quickly and surely to best serve the burgeoning field of materials research in the fast-paced environment of the future.

### Membership Committee

Chair, Lynn A. Boatner, Oak Ridge National Laboratory, Solid State Division, Building 2000, Mail Stop 056, Oak Ridge, TN 37831; telephone (615) 574-5492; fax

(615) 574-4143

The MRS Membership Committee carries out activities that deal with two major issues: (1) programs directed toward increasing MRS membership through membership drives and related activities, and (2) development and enhancement of member services.

Regarding membership development, the Committee continues to solicit new membership from lists of appropriate prospective members. These lists are continually being developed by the Committee. Membership recruitment relies heavily on direct mail contacts in which the MRS membership brochure and other MRS information is sent to prospective members. The Membership Committee is, in effect, engaged in a marketing activity whose goal is to sell the benefits of MRS membership to individuals who are not currently members. It is clear, simply from the numbers involved, that numerous scientists who are currently members of other "specialized" scientific societies could benefit from membership in MRS—an organization that, by definition, draws its members from a wide range and combination of scientific disciplines. The Membership Committee is making these individuals aware of the many benefits of MRS membership in order to make the MRS grow.

The MRS Membership Committee's second area of activity is the development of member services. Current MRS membership benefits include, among others: subscriptions to *Journal of Materials Research* (an interdisciplinary archival journal that has rapidly become a premier outlet for the highest quality research in the materials science field) and the *MRS BULLETIN* (an informative and contemporary periodical with topics covering the entire materials science community), announcements of upcoming MRS meetings and symposia plus program and abstract booklets, the MRS Membership Directory, voting rights in the election of MRS officers and Councillors, and discounts on other technical publications.

A comprehensive membership survey is being planned in the coming year. Its pur-

pose will be to determine what current and new member services are most important to the membership. The MRS membership will have the opportunity to express their attitudes regarding topics such as the desirability of adding a new class of MRS Fellowship to recognize members who have made outstanding contributions to materials science in general or to MRS.

The activities of the MRS Sections also come under the purview of the Membership Committee. This year the Committee will be working to better define the role of the Sections and to ensure that these entities work together to strengthen the Society as a whole. M.J. Kelley of the E.I. du Pont de Nemours Company has agreed to act as the chair of a special subcommittee devoted to the activities of MRS Sections and, accordingly, this facet of MRS is due to receive increased attention.

Obviously the task of the Membership Committee is very large, and the committee needs the help of every MRS member—particularly in recruiting new members. Accordingly, the Committee asks that every current member set a personal goal of signing up at least one new member during the present year. Contact MRS headquarters for copies of the new MRS membership brochure and application.

### Nominating Committee

Chair, John E.E. Baglin, IBM Almaden Research Center, K34/802, 650 Harry Road, San Jose, CA 95120-6099; telephone (408) 927-2280; fax (408) 927-2100

The Nominating Committee is responsible for constructing a well-balanced slate of candidates for the positions of Officer or Councillor of MRS, a slate which Council must endorse before the annual election is held during the summer. It is always this Committee's goal to seek excellent, enthusiastic and capable people, and also to maintain within the Council and Executive Committee a healthy representation of the disciplines of our members and to maintain sound representation from academia, industries, and government laboratories.

**MRS**



# On-site Short Course Program

The Materials Research Society has a series of technical and scientific short courses on materials science topics available to organizations for on-site presentation at their facility:

To obtain a copy of the MRS catalogue of short courses, to discuss the special needs of your organization, or to schedule an on-site course, contact:

Vivienne Harwood Mattox  
MRS Short Course Manager  
440 Live Oak Loop  
Albuquerque, NM 87122  
(505) 294-9532  
FAX (505) 298-7942

## Advanced Materials

- M-01: Crystalline Polymers
- M-03: Superconductive Materials and Applications
- M-04: Optoelectronic Materials, Processes, and Devices
- M-05: Fabrication, Characterization, and Applications of High-Temperature Superconducting Materials
- M-06: Growth and Characterization of Diamond and Diamond Films
- M-07: Polymers for Electronic and Photonic Applications
- M-08: Nature of Solid Lubricants and Their Applications

## Preparation

- P-01: Liquid Phase Epitaxy
- P-02: Molecular Beam Epitaxy
- P-03: Vapor Phase Epitaxy
- P-04: Film Formation, Adhesion, and Surface Preparation
- P-05: Plasma Enhanced Chemical Vapor Deposition of Thin Films for Microelectronic Fabrication
- P-06: Ion Implantation, Diffusion, Defects, and Rapid Thermal Processing
- P-07: Sol-Gel Processing of Glass
- P-10: Metallorganic Chemical Vapor Deposition
- P-11: Rapid Thermal Processing
- P-12: Photon-Controlled Processing for Microelectronics
- P-13: Silicon Epitaxy: Present and Future
- P-15: Ohmic Contacts to Compound Semiconductors
- P-16: Epitaxial Growth of Compound Semiconductors: MBE, LPE, VPE
- P-18: Surface Preparation for Thin Film Deposition

## Fabrication

- F-01: Film and Coating Deposition Techniques
- F-02: Plasma Etching for Microelectronic Fabrication
- F-03: Ion Beam Processes for Materials Modification
- F-04: Microelectronic Packaging: Materials, Processing, and Reliability
- F-06: Technology and Metallurgy of Fusion Welding
- F-07: Fundamentals and Applications of Ion Plating

## Characterization

- C-01: Modern Materials Analysis Techniques
- C-02: Electron Microscopy of Thin Films
- C-03: Surface and Thin Film Analysis
- C-04: Characterization of Films, Coatings, and Surfaces
- C-05: Application of RHEED to Epitaxial Growth
- C-06: Characterization of Semiconductors Using Deep-Level Transient Spectroscopy
- C-07: Amorphous Semiconductor Materials and Devices
- C-08: Ceramic and Metal Matrix Composites
- C-09: Fractals: Concepts and Applications in Materials Science and Engineering
- C-10: Computer-Assisted X-Ray Diffraction Analysis
- C-11: Characterization of Powders and Porous Materials
- C-12: IC Failure Mechanisms and Analytical Techniques
- C-13: Atom Probe Microanalysis: Principles and Applications to Materials Problems
- C-14: Fundamentals and Applications of Scanning Tunneling Microscopy
- C-15: Nuclear Magnetic Resonance Spectroscopy
- C-16: Scanning Electron Microscopy and X-Ray Microanalysis
- C-18: TEM Specimen Preparation in the Physical Sciences
- C-20: Optical Characterization of III-V Semiconductor Epitaxial Layers

## Techniques

- T-01: Hazardous Aspects of Semiconductor Device Processing
- T-02: Experimental Strategies for Optimizing Process Variables
- T-04: Contamination Control for the Microelectronics Industry
- T-05: Vacuum and Plasma Technology for Materials Processing
- T-06: Optical and Laser Diagnostics for Semiconductor Processing
- F-08: Chemical Aspects of Silicon Integrated Circuit Fabrication

# M<sup>2</sup>C

MASSACHUSETTS  
MICROELECTRONICS  
C E N T E R

The Massachusetts Microelectronics Center and the  
Materials Research Society invite you to attend our:

## Short Course Program

Westborough, Massachusetts  
June 7-9, 1989

# MRS

MATERIALS  
RESEARCH  
SOCIETY

*P-06: Ion Implantation, Defects, and Rapid Thermal Processing*  
Instructor: Thomas E. Seidel, SEMATECH Fellow

Wednesday, June 7  
\$325

*T-01: Hazardous Aspects of Semiconductor Device Processing*  
Instructor: G. Kenneth Herb, R&D Equipment and Process Manager, SEMATECH

Thursday, June 8  
\$325

*T-06: Contamination in High Technology Manufacturing Facilities*  
Instructor: Robert Martin, Program Manager (retired), IBM T.J. Watson Research Center

Friday, June 9  
\$325

*F-02: Plasma Etching for Microelectronic Fabrication*  
Instructor: G. Kenneth Herb, R&D Equipment and Process Manager, SEMATECH

Friday, June 9  
\$325

*C-12: IC Failure Mechanisms and Analytical Techniques*  
Instructor: Giorgio Riga, Riga Analytical Laboratory

Wednesday - Thursday, June 7-8  
\$485

*F-04: Microelectronic Packaging: Materials, Processing, and Reliability*  
Instructor: S.K. Prasad, Manager, IC Assembly and Packaging, Robert Bosch GmbH

Wednesday - Friday, June 7-9  
\$695

For information, contact: M2C Short Course Program, Massachusetts Microelectronics Center, 75 North Drive,  
Westborough, MA 01581, Telephone (508) 870-0312

# MATERIALS LETTERS

## At Special MRS Member Rates

MRS members can subscribe to Materials Letters at a special MRS personal\* subscription rate.

Volume VI, published in 1988, is still available for \$20. MRS members can subscribe to Volumes VII and VIII for \$25 each.

Contact: Materials Research Society, Publications Department, 9800 McKnight Road,  
Suite 327, Pittsburgh, PA 15237; telephone (412) 367-3012; fax (412) 367-4373.

\*Institutional subscriptions for libraries must be obtained through the publisher: Elsevier Science Publishers B.V., Journal Department, P.O. Box 211, 100 AE Amsterdam, The Netherlands.