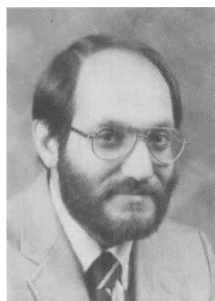


MRS Committee Goals

Awards, Corporate Participation, External Affairs, Long-Range Planning, Membership, and Publications Committees Outline 1986 Objectives



E.N. Kaufmann



J.M. Phillips



F.W. Young, Jr.



R.C. Ewing



D.R. Campbell

In the January/February issue of **MRS BULLETIN**, MRS President Gordon E. Pike announced appointments of the 1986 chairs of the Society's 11 committees. Below is a summary of the goals and activities of six of the committees as defined by the committee chair. The next issue of the **BULLETIN** will contain a summary of activities of the Education, Finance, Nominating, Program, and Public Relations Committees.

The work of the committees sustains the myriad of professional services offered to the membership. As the Society continues to experience a high level of growth in numbers of members and variety of interests and needs, the Committees play an important role in instituting new dimensions in existing projects and recommending changes in policies and procedures to the MRS Council. MRS members are encouraged to contact committee chairs to offer advice, suggestions and assistance with any of the areas described below.

Awards Committee

Chair: Elton N. Kaufmann, Lawrence Livermore National Laboratory; Livermore, CA; telephone (415) 423-2640

As required by MRS By-Laws, the Awards Committee is chaired by the immediate past president of the Society. The committee solicits nominations for the Von Hippel Award as well as nominations for the Graduate Student Awards conferred at both the Spring and Fall Meetings of the Society. This year the committee will continue to provide Council with nominees and monitor the Council balloting for the Von Hippel Award. It will promote and review applications for the Graduate Student Awards program. The Committee will establish the monetary award level for the Graduate Student Award winners and

oversee preparation of the commemorative plaques associated with each MRS award. In conjunction with the Long-Range Planning Committee, the Awards Committee will explore the need for new and/or modified awards and other forms of recognition appropriate for the Society.

Corporate Participation Committee

Chair: J.M. Phillips, AT&T Bell Laboratories, Murray Hill, NJ; telephone (201) 582-4428.

The Corporate Participation Committee is the interface between MRS and its Corporate Affiliates. The Corporate Affiliates play a vital role in the Society 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 the activities of the MRS, for seeking their advice on topics to be addressed at its meetings, and for broadening the base of support for the MRS and its activities in the corporate sector.

MRS corporate participants number more than 100 and the Committee plans to step up activities to spread the awareness of the program and its benefits to the corporate world. The Committee has recently prepared an updated information sheet which outlines the newest Corporate Affiliate benefits. The Committee will work closely with the Program Committee to ensure that materials technology topics important to the Corporate Affiliates are considered in programs of upcoming MRS meetings.

External Affairs Committee

Chair: F.W. Young, Jr., Oak Ridge National Laboratory, Oak Ridge, TN; telephone (615) 574-5501

The External Affairs Committee was established in 1985 to respond to the growing involvement of the Society in materials science activities in industry, education and government, and international liaisons with professional groups with similar interest. The complex scientific, societal and political aspects of materials research activities requires responsible advice and cooperation from a variety of organizations, including MRS. The goal of the Society is to foster interdisciplinary materials research. Toward this end, the External Affairs Committee will focus on the following areas in 1986: (1) international relations with MRS scientific organizations in Europe, Asia and elsewhere; (2) interactions with other societies serving specific aspects of materials science; (3) interaction with policy-making bodies for materials science, such as the National Academy of Science and the National Academy of Engineering; (4) participation in various national and international studies involving materials science issues as they arise; and (5) solicitation of editorials for the **MRS BULLETIN** to reflect a broad range of views and opinions on timely materials issues as background for the membership.

Long-Range Planning Committee

Chair: Elton N. Kaufmann, Lawrence Livermore National Laboratory, Livermore CA; telephone (415) 423-2640

This Committee is chaired by the immediate past president of MRS, as required by MRS By-Laws. The Committee is charged with examining issues concerning the future directions necessary for the Society to take to continue its rapid growth and response to the needs of the materials

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science community. Some of the issues to be addressed by the Committee are a five-year projection of the type of activity to be emphasized by the Society through 1991, the balance of effort and expenditures to be exerted on major Society programs, expansions and physical location of MRS headquarters, MRS's role in developing an "MRS International" concept, potential new sources of revenue in support of Society programs, and collaborative activities with other technical societies. Each issue will be addressed by individual subcommittees of the Long-Range Planning Committee. For further information on subcommittee activities and subcommittee chair appointments on the Long-Range Planning Committee, see "MRS Long-Range Planning Committee Outlines 1986 Tasks" in this issue of the **BULLETIN**.

Membership Committee

Chair: R.C. Ewing, University of New Mexico, Albuquerque, NM; telephone (505) 277-4163

The primary responsibility of the Membership Committee is to see to the needs of the MRS membership. It is chaired by the Secretary of the Society as required by MRS By-Laws. Important services that are provided to members include publication of the MRS Membership Directory and the direction of the MRS Job Placement Center that is offered at the Spring and Fall Meetings. During 1985, the following MRS sections were approved by Council: Northern California, Research Triangle-North Carolina, New Mexico, Southern California, North Texas, and Western New York. In 1986, the Committee will continue its efforts to establish local MRS sections around the country and support growth in membership and types of activities important to the local section members. Prior to the Fall Meeting in 1985 MRS had 3,545 members worldwide. A vigorous membership promotion campaign will be launched to foster broader awareness of the Society's purpose and membership benefits toward increasing participation in the Society.

On the recommendation of the Membership Committee, the Council approved a constitutional amendment that makes the student members, who currently number 400, regular voting constituents of the Society. During 1986, the Committee will review student benefits and prepare additional proposals for Council to enable the Society to continue to be responsive to the needs of the membership. The Committee foresees an active year with a substantial increase in membership.

Publications Committee

Chair: D.R. Campbell, IBM East Fishkill Facility, Hopewell Junction, NY; telephone (914) 894-3075

The Publications Committee will continue to expand MRS's publishing activities in

three areas: *Journal of Materials Research*, book publications, and the **MRS BULLETIN**. A subcommittee on journals, chaired by Ross Lemons, Los Alamos National Laboratories, will oversee the continued editorial growth of *Journal of Materials Research* and work toward expanding library subscriptions worldwide for this unique new archival journal. The subcommittee on books, chaired by Peter Pronko, Universal Energy Systems, Inc., will continue to monitor the quality of the MRS Symposia Proceedings series and ensure accelerated publication of upcoming volumes in the series. It will also investigate and recommend new types of books to add to the book publishing program.

MRS BULLETIN, under the direction of Elton Kaufmann, Lawrence Livermore National Laboratory, who serves as chairman of the **BULLETIN** editorial board, will concentrate on expanding its editorial offerings by soliciting technical review articles, more thorough news coverage, and editorial contributions. The editorial board will work toward making the **BULLETIN** the international voice on trends and developments in materials research.

For further details on what the Publications Committee is doing to accomplish these goals, see "Publications Committee Expands Scope in 1986" in this issue of the **BULLETIN**.

Publications Committee Expands Scope in 1986

*D.R. Campbell, Chair,
MRS Publications Committee*

The MRS Publications Committee continues to foster the growth of three large activities in 1986: *Journal of Materials Research*, book publications, and **MRS BULLETIN**. The duties for these three major activities are guided by Ross Lemons, Los Alamos National Laboratories, who serves as chair of the subcommittee on journals, Peter Pronko, Universal Energy Systems, Inc., serving as chair of the subcommittee on books, and Elton Kaufmann, Lawrence Livermore National Laboratory, as chairman of the **BULLETIN** editorial board.

The subcommittee on journals will continue to seek out important manuscripts for *Journal of Materials Research* at both the 1986 MRS Spring and Fall Meetings. A team, under the direction of Lemons, has been assembled to cover each symposia at the Spring Meeting in Palo Alto, and will nominate exceptional papers for consideration for publication in *JMR*. In general, manuscripts originally prepared for publication in an MRS proceedings volume are not appropriate for *JMR*; however, complete and finalized accounts of research efforts which often stem from MRS symposia

presentations are sought for documentation in this exciting new archival journal. (See "Journal of Materials Research Seeks Manuscripts for Upcoming Issues" in this issue of the **BULLETIN**.) The subcommittee on journals will also concentrate on increasing subscriptions to *JMR* in technical libraries throughout the world. The journal has already drawn a tremendous response from scientists worldwide. The Publication Committee wants to ensure that this important archival publication is widely available to the professional community.

The subcommittee on books will focus on two aspects of this activity: (1) ensuring the ongoing rapid publication of high-quality MRS proceedings volumes from the symposia reports from the Spring and Fall Meetings, and (2) investigating the possible expansion of the book publishing operations to encompass proceedings from other important scientific meetings, technical monographs, and educational materials. During the past year, MRS has succeeded in promptly producing its proceedings volumes from the Spring and Fall Meetings. The collective talents and expertise of MRS membership makes logical extension of the book publishing program possible.

The **MRS BULLETIN**, which has grown fourfold over the past year, will continue to expand in many directions. This year the editorial board, under the direction of Elton Kaufmann, will concentrate its efforts on soliciting technical review articles on forefront materials research areas, expanding national and international news coverage of research programs, and offering members of the Society and other materials research professionals the opportunity to voice opinions and ideas.

The MRS publications program is now at a multidirectional crossroads, with exciting opportunities at virtually every turn. There is much work to be done in this activity of the Society and members are encouraged to contribute their ideas and services in any of these areas.

Long-Range Planning Committee Outlines 1986 Tasks

Just about every organization has one and on a day-to-day basis it goes largely unnoticed. It's the long-range planning job which generally involves concentrated deliberations, evaluation of options, and making educated guesses about the future environment of the organization, five, ten, or even 20 years into the future.

"In the fray of dealing with the exigencies of the present, planning a deliberate course for the out years can be neglected," accord-

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ing to MRS Past President Elton Kaufmann of the Lawrence Livermore National Laboratory. Kaufmann is 1986 Chair of the MRS Long-Range Planning Committee, a position assumed by each MRS past president as required by the Society's By-Laws.

Kaufmann noted that, "this year the committee will tackle a dozen different questions, some of which are new and some continuing from last year's committee directed by Woody White. A subcommittee comprised of from three to five members including a chairperson will focus on each issue. Kathy Taylor (MRS first vice president) of General Motors will lead the effort to update the Society's "Five-Year Projection," a task which involves estimating the type and volume of activity in which MRS will be involved through the year 1991. Judging the future trends in the context of balance among the several Society programs (such as topical symposia, short courses, publishing, etc.) will be the task of a group chaired by Clyde Northrup (1982 MRS president) of Sandia National Laboratories.

"Woody White will spearhead the continuation from last year of the development of options for the expansion of MRS headquarters facilities and its possible relocation. Forecasting of the role to be played by the U.S.-based MRS in the developing "MRS International" and defining the present directions which will lead to that role falls to a subcommittee led by David Biegelsen

of Xerox PARC, who has just completed a magnificent job as a meeting chair for the annual MRS Fall Meeting in Boston. Dave will coordinate his efforts very closely with the MRS External Affairs Committee which oversees our international relations on an on-going basis."

Kaufmann explained that he will personally chair the subcommittee which will examine the question of new and/or modified awards and other forms of recognition which the Society may confer on individuals and groups in the materials research community. He emphasized, "In this way the long-range plans and the current work of the MRS Awards Committee, which is also chaired by the past president, will be closely coordinated."

"In addition, potential new sources of revenue for the support of MRS programs are to be studied under the direction of MRS Treasurer Clif Draper of AT&T Technologies and this is closely related to the work to be led by L. Ralph Dawson of Sandia National Laboratories concerning MRS relations with its program sponsors. Richard Schwoebel, also of Sandia, will bring his experience as a former MRS secretary and last year's chair of the External Affairs Committee to bear on the implications for MRS of the developing collaborative relationships MRS now enjoys and may enjoy in the future with other technical societies. The welcome increasingly active involvement of university

faculty in the affairs of the MRS will continue to be watched by a group led by Rustum Roy of Penn State, with an eye toward facilitating this healthy trend.

"The operational structures and procedures of the MRS Council and of MRS committees will be examined from the standpoint of their present efficiency and robustness for the future in an ever larger and more complex MRS. The Council and committees aspects will be studied by two different groups led respectively by Fred Young, Jr. of Oak Ridge National Laboratory and a Councillor himself, and by Woody White, also of ORNL and 1984 MRS president.

"Finally," Kaufmann concluded, "we are watching current organizational trends in electronically aided communication and data retrieval and will develop proposals for ways MRS might benefit from the implementation of such functions as telemail, bulletin boards, and data bases. Paul Peercy of Sandia, last year's MRS Program Committee chair, will lead this investigation. The full Long-Range Planning Committee has its work cut out. It will greatly benefit not only from the efforts of all of the subcommittee members, but also from insights on the future of our Society and of our field contributed by all of our members." Members interested in sharing their views in any of the above mentioned areas, should contact one of the subcommittee chairs or Elton Kaufmann.

Versailles Materials Project Moves Toward Independence

At the June 1982 Economic Summit of Versailles, seven heads of state and government, together with representatives of the European Community (EEC), proposed 18 separate technical projects to help summit members promote "the development of and trade in new technologies." In almost four years since that summit, the Versailles Project on Advanced Materials and Materials Standards (VAMAS) has grown into a \$2 million per year venture, becoming one of the most active summit-initiated technology-fostering programs. On January 30, the United States and France took the first step toward spinning VAMAS off from the Summit Working Group as an independent, cooperative venture. During a ceremony at the residence of the French ambassador in Washington D.C., representatives of the two nations penned the initial signatures on a "memorandum of understanding" that had been drawn up by the participating summit nations and EEC.

This memorandum of understanding goes into effect as soon as representatives of

Canada, West Germany, Italy, Japan, the United Kingdom and the EEC add their signatures—probably by May. Not only will this new structure make it easier for the European nations to secure funding for their participation, but it also ensures that VAMAS survives when the Heads of State formally divest themselves of responsibility for all 18 projects later this year, at their next economic summit, in Japan.

VAMAS's principal aims are to stimulate introduction of advanced materials into high-technology products and engineering structures, and to encourage international trade through agreement on codes of practice and performance. Basically, its thrust is to foster research on advanced-materials properties and test methods—before standards for these materials are developed. International cooperation in the development of these data and tests never existed before, points out Bruce W. Steiner of the National Bureau of Standards' (NBS) Institute for Materials Science and Engineering, and a member of VAMAS's steering com-

mittee. Ironically, he adds, until VAMAS existed, "those of us in the field were really unaware of how important the need for it had become."

Led jointly by the United States and United Kingdom, the Versailles materials project has already initiated research programs in 11 areas.

Wear Test Methods

Second only to corrosion as a costly source of materials deterioration, the Organization for Economic Cooperation and Development (OECD) estimates that industrialized countries suffer economic losses due to wear and wear-related phenomena amounting to between 1 and 2% of their gross domestic product. VAMAS's activities here will be focusing on improving the reproducibility and comparability of wear-test methods and characterizing how the wear behavior in "advanced" materials—primarily ceramics and inorganic coatings—

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