

---

---

# Affiliates

---

## Five companies join support roster

Five Corporate Affiliates have joined the Materials Research Society since the most recent issue of the BULLETIN appeared: AT&T Bell Laboratories, Brush Wellman, Inc., Combustion Engineering, Inc., Imperial Chemicals Industries PLC, and Stauffer Chemical Company. This brings the current roster of Affiliates to 73, the greatest level of institutional support the Society has yet enjoyed.

The Society's Corporate Affiliates have never been so visible as they will be at this year's Annual Meeting in Boston, observes Cliff W. Draper, Chairman of the Corporate Participation Committee. Among the benefits they receive are substantial discounts on advertising in the Society's publications and participating in the MRS Equipment Show, which premieres at this year's meeting.

"This visibility will benefit our Corporate Participation program and thereby help us contribute to a financially stronger professional society," Draper concludes.

### Roster of Affiliates

The current roster of the Materials Research Society's Corporate Affiliates includes the following:

Air Products and Chemicals  
Allied Corporation  
Aluminum Company of America  
Applied Materials  
ARCO Metals Company  
ARCO/Solar, Inc.  
AT&T Bell Laboratories  
AT&T Technologies (The Engineering Research Center)  
Branson, IPC  
Brimrose Corporation of America  
Brush Wellman, Inc.  
Chevron  
Coherent  
Combustion Engineering, Inc.  
Drytek, Inc.  
DynaVac  
E.I. DuPont de Nemours & Company  
Eastman Kodak Company  
Eaton Corporation  
EG&G ORTEC  
Elborg Technology Company  
Elsevier North-Holland  
Energy Conversion Devices, Inc.  
Exxon Research and Engineering Company  
GCA Corporation  
General Electric Company  
General Ionex Corporation  
General Motors Research Laboratories  
GTE Laboratories  
Harshaw/Filtrol  
Helionetics

Hitachi Scientific Instruments  
Imperial Chemicals Industries PLC  
Instruments SA, Inc.  
International Business Machines Corporation  
Jeol USA  
Lam Research  
Lambda Physik  
Lanxide Corporation  
Lawrence Livermore National Laboratory  
LFE Corporation

---

*Corporate sponsorship of the MRS  
Has never been greater, nor have  
Affiliates been so highly visible*

---

Los Alamos National Laboratory  
Lumonics  
Martin Marietta Laboratories  
Materials Research Corporation  
Microscience, Inc.  
Monsanto  
Perkin-Elmer  
Philips Electronic Instruments, Inc.  
Portland Cement Association  
Plasma-Therm Systems, Inc.  
Quantronix Corporation  
Questek, Inc.  
Sandia National Laboratories  
Schlumberger-Doll Research  
Shell Development Company  
Sohio Chemicals and Industrial Products Company  
Solarex  
Spectra Physics  
Spire Corporation  
Standard Oil Company of Indiana  
Stauffer Chemical Company  
TRW  
Tegal Corporation  
Union Carbide Corporation  
United Technologies Research Center  
UOP  
Varian/Extrion  
W.R. Grace & Company  
Westinghouse Electric Corporation  
Xerox Corporation  
XMR  
Zymet

---

## California group eyes local chapter

---

As the BULLETIN went to press, a group of scientists in northern California were planning a half-day topical seminar on silicon wafer materials quality, at which they were to discuss the formation of a regional MRS Chapter. A report on the seminar will be included in our next issue.

Michael I. Current, Xerox Palo Alto Research Center, reports a group that includes himself, Devendra Sadana, Signetics/PRLS, Michael Strathman, Charles Evans & Associates, and Nathan Cheung, University of California, Berkeley, "have put together a proto-Chapter of the MRS."

"Our intention is to form a local group which can serve as a forum for information transfer and group activities in the field of materials analysis and device processing," he says.

The group's meeting was scheduled for Nov. 5 at the Xerox research center. The purpose of the seminar was to address current materials problems relating to silicon wafer quality, including discussions of analytical techniques used to evaluate wafer quality. Scheduled speakers were: John Carruthers, Intel; "Device-quality

Silicon"

Marjorie Balazs, Balazs Analytical Labs, "Chemical Trace Analysis Techniques"

Hubert Dohmen, Monsanto, "Silicon Materials Quality Trends"

Jack Williams, Siltec, "Wafer Flatness Measurements"

Joe Berger, VLSI Standards,

"Contamination Measurements and Standards"

Mr. Current adds: "We hope to have a good sense of the level of local interest by the time of the Boston meeting. An active local Chapter would also be useful in contributing to interest in the San Francisco meeting next April."

---

## MRS-NC elects officers

---

The gain to California's developing Local Chapter of the Society of Devendra Sadana comes as a loss to the North Carolina Chapter, where he had been a founding member and officer. It's President, Weikan Chu, University of North Carolina at Chapel Hill, reports that Robert Reeber, Army Research Office, and Michael Paesler, North Carolina State University, have been slated as vice president and secretary, respectively. James H. Crawford Jr., also at Chapel Hill, is treasurer of the

Chapter.

In addition to these officers, the ad-hoc committee organizing the Chapter include Richard B. Fair, James Hutchby, Jagdish Narayan, Carlton M. Osbourn, George Rozgonyi, and Jim J. Wortman.

Mr. Chu says the Chapter plans a number of events in the coming year, including two workshop/short courses, a banquet, 10 to 15 student meetings/seminars, and a national workshop/short course.

---

## Meeting set in Sweden on radwaste

---

The MRS has agreed to co-sponsor the Ninth International Symposium on the Scientific Basis for Nuclear Waste Management, to be held in Stockholm, Sweden, Sept. 9-11, 1985. The MRS joins with the Swedish Nuclear Fuel and Waste Management Co., SKB, in this endeavor, which is a continuation of past MRS activity in the nuclear waste field.

The symposium will deal with the scientific aspects of:

- Waste form characterization—spent fuel, HLW and transuranic waste
- Containers: materials, design, and performance
- Buffer, backfill, and sealing materials
- Near field characterization and processes
- Performance assessment
- Validation of models

Papers on the direct disposal of spent fuel and crystalline rock and clay host media are particularly solicited.

The program committee for the conference is composed of:

- P.-E. Ahlström, SKB, Stockholm (chairman)
- L.O. Werme, SKB, Stockholm (scientific secretary)
- L.A. Boatner, Oak Ridge National Laboratory, Oak Ridge, TN
- N.A. Chapman, British Geological Survey, Keyworth
- R.C. Ewing, University of New Mexico, Albuquerque, NM
- L.H. Johnson, WNRE, Pinawa
- W. Lutze, Hahn-Meitner Institut, Berlin
- G. de Marsily, Ecole National Supérieure des Mines de Paris, Fontainebleau
- I. Neretnieks, Royal Institute of Technology, Stockholm
- D.M. Strachan, PNL, Richland

The deadline for submission of abstracts is Feb. 15. Notification of acceptance will be made by April 1. Full papers must be received by June 15.

Correspondence, abstracts, and other questions regarding the conference should be sent to the Scientific Secretary of the Symposium:

L.O. Werme, SKB, Box 5864, S-10248 Stockholm, Sweden. Telephone, Int + 468679540; telex, 13108; telefax, Int + 468615719.

---

---

## preview

---

*[Continued from Page 20]*

experienced in 1984. However, we expect our membership roles will continue to swell and we will be devoting much time and energy to supporting and improving the many new member services alluded to above. We expect the addition of new local chapters and the establishment of new student chapters. A further expansion in our headquarters staff will help support our increased activity. The second annual Spring Meeting next April in San Francisco will comprise more symposia and fill more days with an excellent program put together by Susan Kelso, A. Wayne Johnson, and K. S. SreeHarsha. In the first week of December, the Annual Fall Meeting in Boston, currently in the planning stage under the guidance of John Baglin, John Fan, and David Biegelsen, will again provide an excellent technical program buttressed by more short courses, the Job Placement Service, and an expanded Equipment Exhibit.

We should also expect to see this BULLETIN expand in its coverage of Society activities and be upgraded in format. The recognition of the value of our technical programs to industrial researchers will very likely continue to be evidenced by the addition of new corporate sponsors in our Corporate Affiliate ranks. The mainstay of Society activities has always been the enthusiastic contribution of the time and talents of many volunteers. The various committees of the MRS have been extremely active over the past year and will continue their vital innovative work. We encourage members to indicate their interest in participating in these efforts by contacting any officer or the MRS headquarters.

### **The Members' Vital Role**

Members may also make valuable contributions to the direction the Society takes through their suggestions of topics to be covered at meetings and through evaluative comments on existing programs. With increasing frequency, the MRS has found it mutually beneficial to co-sponsor topical symposia in cooperation with other technical societies. Materials topics of interest to our members are often treated with different and, for the most part, complementary emphasis in the forums of these societies. Members of the MRS, who are often also members of one or more other societies, should be aware of the opportunity for joint efforts of this kind and bring such opportunities to the attention of the MRS program committee.

The coming year should prove to be an exciting and productive

one for the MRS and its members. I look forward to serving as your President. The membership has elected a superb group of new officers and councillors who begin their service in 1985. We all stand ready to help with your suggestions, questions, and concerns.

—E.N.K.

---

## Eastman

---

*[Continued from Page 16]*

existing facility was centers for cold neutron research. The committee estimated that implementation of all the recommendations over the next decade would cost \$600 million in constant dollars. These and the committee's other recommendations, along with the scientific and technological assessments used by the committee in setting these priorities, will be the topic of Dr. Eastman's talk at the Plenary Session.

"While limiting itself to its charge—i.e., setting priorities for major facilities—the committee cautioned against providing support for major facilities at the expense of smaller-scale research. This question of balance is, of course, uniquely pertinent to those involved in materials research because of the diverse nature and scope of individual materials research efforts. Thus each of us will be affected by the policies the federal government adopts, and Eastman's topic will be of continuing interest to ourselves and our Society for years to come."

### **Dean Eastman**

Dean Eastman brings extensive experience as an outstanding researcher and an equally outstanding research manager for one of the United States' largest corporations to the committee's task. His research has been in the area of condensed matter physics and surface science, where he pioneered the development of new photoemission spectroscopy techniques, including the use of synchrotron radiation. Currently he is Director of the Advanced Packaging Technology Laboratory and Senior Manager of the III-V Semiconductor Packaging Technology and Systems Department and GaAs Devices Technology Department at IBM Research.

In keeping with the Society's goal of encouraging every participant at the Annual Meeting to attend the Plenary Session, it will be held the first day, Monday, at 6 p.m. Ample time will be allowed for questions from the floor. A beer and pretzel reception will follow.

---

## Gail Oare named publications head

---

Gail Oare has been named director of publications for the Materials Research Society.

Most recently the managing editor of *Journal of Metals* and director of periodical publications for The Metallurgical Society of AIME, Gail has

broad experience in technical publishing, including a stint with the Instrument Society of America.

A graduate in English of Allegheny College, Meadville, Pa., Gail is interested and experienced in all aspects of publishing. She has studied business administration, and handled production, advertising and circulation, as well as editorial, responsibilities for The Metallurgical Society.

As the Society's director of publications, Gail will oversee book production and marketing, and serve as editor of the BULLETIN.



GAIL OARE