

# 1985 Boston Meeting:

## *Society Plans for 1986 Take Shape*



Graduate Student Award winners (left to right): John Joyce (Symposium E), John C. Barbour (Symposia E and I), Robert W. Fathauer (Symposium E), B.C. DeCooman (Symposia H and Q), Michael A. Parker (Symposium Q), Carolyn A. MacDonald (Symposium A), Kenneth Ting-Yuan Kung (Symposium C), Vladimir Dobrosavljevic (Symposium F), Chris G. Van de Walle (Symposium R), John D. Lennhoff (Symposium M), Peter H. Bischoff (Symposium S), Susanna Clement (Symposium L), and Karren L. More (Symposium A). Missing Aliko Collins (Symposium J).



The Journal of Materials Research booth in the Equipment Exhibit afforded scientists an opportunity to discuss upcoming issues of the Journal with Editor-in-Chief C.B. Duke.

The unique approach of the Materials Research Society to encouraging and reporting leading-edge developments in materials continued to gain momentum and support on a broad national and international level at the 1985 MRS Fall Meeting. The meeting, held December 1-6 in Boston, encompassed 22 technical symposia—surpassing last year's meeting by six—and included some exciting new topics: biomaterials, polymers, computer-based microscopic description of materials, and a unique forum for educators on trends in curricula and teaching methodology in materials-related fields. Some popular MRS symposia series (on beam-solid interactions, layered structure and epitaxy, fractals, thin films, cements, and fly ash) continued to grow, offering important developments.

And at this meeting, the traditional Symposium X, which provides tutorial reviews for non-specialists, for the first time served as the stage for the debut of a revolutionary new development in ceramics technology. A special symposium in honor of David Turnbull provided a thorough state-of-the-art review of phase transitions in condensed systems. (See summaries of each symposium in this issue.)

More than 2,300 scientists from around the world attended the meeting, which was conducted for the first time in two hotels. Technical sessions ran from 8:30 a.m.-5:00 p.m. Monday through Friday, with special extensions of some symposia into the evenings.

Other events included the Awards Ceremony on Monday evening, honoring John W. Cahn, National Bureau of Standards, as 1985 Von Hippel Award recipient. Dr. Cahn delivered an enthralling lecture telling the story behind the discovery of quasiperiodic crystals and their significance to current materials research. (See the text of his lecture in an upcoming issue of the BULLETIN.)

Fourteen Graduate Student Award winners were also introduced at the ceremony to recognize their work which spanned many of the research areas of interest to the members of the Society. The winners were: John Charles Barbour, Dept. of Materials Science and Engineering, Cornell University (Symposia E and H); Peter H. Bischoff, Dept. of Civil Engineering, Imperial College of Science and Technology, UK (Symposium S); Susanna Clement, Dept. of Physics, Universidad Complutense, Spain (Symposium L); Aliko Collins, Dept. of Materials Science, Massachusetts Institute of Technology (Symposium J); B.C. De Cooman, Dept. of Materials Science and Engineering, Cornell University (Symposium Q); Vladimir Dobrosavljevic, Dept. of Physics, Brown University (Symposium F); R.W. Fathauer, Electrical Engineering, Cornell University (Symposium E); John J. Joyce, Dept. of Chemical Engineering and Materials Science, University of Minnesota (Symposium E); Kenneth Y-Y. Kung, Dept. of Electrical Engineering and Computer Science, Massachusetts Institute of Technology (Symposium C); John D. Lennhoff, Dept. of Chemical Engineering, Worcester Polytechnic Institute (Symposium M); Carolyn A. Mac Donald, Applied Physics, Harvard University (Symposium A); Karren L. More, Dept. of Materials Engineering, North Carolina State University (Symposium A); Michael A. Parker, Materials Science Dept., Stanford University (Symposium Q); and Chris G. Van de Walle, Electrical Engineering, Stanford University (Symposium R).

Dr. Gerold Yonas, chief scientist, Strategic Defense Initiative Organization, provided an overview of materials research activities and objectives of SDI at the Wednesday evening Plenary

# The Biggest, Best Yet

session (The text of his address will appear in an upcoming issue of the **BULLETIN**.) This session also focused attention on an important area of growth for the Society in 1985. Six new Student Chapters and four new Sections were formally recognized during the Plenary session.

An equipment exhibit, featuring over 110 booths, drew large enthusiastic crowds Tuesday through Thursday, where the latest scientific instruments for materials research studies were demonstrated. The job placement center, also open for these three days, provided many opportunities for confidential discussions between scientists and prospective employers. Both the exhibit and job placement center were managed for the Society by the American Institute of Physics which reported that both activities were expanded this year, reflecting the overall growth and interests of the meeting in general.

## Stage is Set for 1986

Numerous meetings of special-interest groups, MRS committees, and the MRS Council were held during the week setting the groundwork for activities coming in 1986. Planning meetings were held for the 1986 Spring and Fall Meetings, European-MRS representatives met to report developments in their Society and announce the program of the 1986 E-MRS Meeting to be held in Strasbourg in June, and leaders of the materials science community from Asia reported on their plans to implement MRS-style activities. In addition final editorial details for the premier issue of *Journal of Materials Research* were resolved by the journal's principal editors, clearing the way for the upcoming debut of the Society's official journal. Finally representatives from large and small research laboratories met face to face to exchange views on how the community as a whole might work closer together to offer a more unified picture of national materials research priorities.

## Achievements and Aspirations

The Fall Meeting embodied the technical achievements of the past year as well as the technical, economical, and societal issues facing the materials research community in the coming year. This issue of the **BULLETIN** reports what the community as a whole has been working toward, as demonstrated at the Fall Meeting, and shows what it aspires toward.

See these articles about the Fall Meeting:

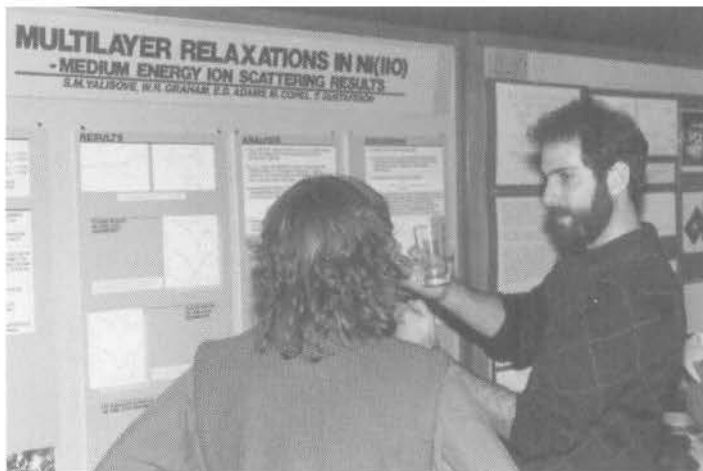
- Symposia Summaries: 1985 Fall Meeting
- Formation of Icosahedral Aluminum-Manganese by Electron, Laser, and Ion Beams
- Carbon in Crystalline Silicon
- Special-Purpose Computer for Molecular Dynamics
- Von Hippel Award Presented to John W. Cahn
- International Groups Meet at Fall Meeting
- Materials Research Facilities Dialogue
- New Sections and Chapters Receive Charters
- Leamy Receives 1985 Woody Award

See these articles on upcoming activities in 1986:

- 1986 Spring Meeting Preview
- 1986 E-MRS Meeting Preview
- Journal of Materials Research* Premier Issue Nears Completion
- Chang, Jantzen, Roberto Steer 1986 Fall Meeting



Gerold Yonas, Plenary Session speaker.



Poster Session.



Fall Meeting Program Chairs (left to right): John Baglin, John Fan, and Dave Biegelsen.