

SOCIETY ACTIVITIES AND AWARDS

AIP Governing Board

The American Institute of Physics has announced the election of seven new members to its Governing Board. James T. Bergen of Armstrong Cork Co. (elected by the Society of Rheology), replaces John D. Ferry of the University of Wisconsin; E. U. Condon, University of Colorado, and H. Richard Crane, University of Michigan (elected by the American Association of Physics Teachers), replace Leonard O. Olsen of the US Naval Postgraduate School and N. S. Gingrich of the University of Missouri; A. C. Helmholz of the University of California (elected by the Physical Society), replaces W. V. Houston of Rice University; and Seibert Q. Duntley, Scripps Visibility Laboratory, and A. I. Mahan, Johns Hopkins Applied Physics Laboratory (elected by the Optical Society), replace David L. MacAdam of the Eastman Kodak Co. (The Optical Society elected an additional Board member since the OSA membership has passed the 4000 mark, allowing the election of five directors.) One member-at-large, E. R. Piore of IBM, who replaces C. G. Suits of the General Electric Co., was elected by the Governing Board at its meeting on March 21.

Thin Film Division Formed

On October 16, 1963, a Thin Film Division of the American Vacuum Society was established with K. H. Behrndt of Bell Telephone Laboratories, Murray Hill, N.J., as chairman. The new Division is the first organization of people working or interested in this rapidly expanding field.

It is the intention of the Division to emphasize, in symposia and publications, the aspects of film formation and growth. These are the basic phenomena of importance for all films regardless of deposition method or purpose of fabrication. Thus, the Division aspires to serve as the common link between people of different interests. It is also intended to inform members of the Division of meetings and publications in the film

field and to participate actively in the publication of papers.

For further information, contact the chairman or the secretary-treasurer, M. H. Francombe, Scientific Laboratory, Philco Corp., Blue Bell, Pa.

High-Polymer Physics Prize

During its Philadelphia meeting in March, the American Physical Society presented its 1964 High-Polymer Physics Prize, sponsored by the Ford Motor Company, to Andrew Keller of the University of Bristol, England. The \$1000 prize was awarded to Dr. Keller "for his contributions to the studies of the growth and properties of polymer single crystals, and in particular, his discovery of molecular-chain folding".

Born in Budapest in 1925, Dr. Keller obtained a degree in chemistry from the University of Budapest in 1947. The following year, he left Hungary to take up employment with Imperial Chemical Industries at Manchester, England and in 1955 received a research appointment in the Physics Department of Bristol University, where he now heads a group engaged in polymer research. He was awarded his Ph.D. degree in physics in 1958.

Dr. Keller has made notable contributions to the study of spherulitic crystallization in polymer melts. He has investigated the growth kinetics and the optical properties of polymer spherulites, and his papers on molecular orientation in these spherulites are definitive publications in the field. His application of these various results to the interpretation of texture and preferred orientation in drawn and molded polymers marked an important development in applied polymer science.

He is best known, however, for the discovery that polymer molecules crystallize by folding back and forth on themselves. The recognition of this novel feature necessitated a drastic revision of concepts which had long been unchallenged. He has studied



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crystal habits and modes of growth of chain-folded polymer single crystals very extensively, and has elucidated in considerable detail the geometry of molecular folding. This work provided the foundation upon which current theories of crystallization in high polymers are based.

Officers

Lists of officers for this year have been announced by the Solid State Physics and Electron Physics Divisions of the American Physical Society, and by the Electron Microscopy Society of America, an affiliated society of the American Institute of Physics.

Officers in the APS Division of Solid State Physics include LeRoy Apker, *chairman*; H. B. Huntington, *vice chairman*; and W. V. Smith, *secretary-treasurer*. Those who were elected to membership on the Executive Committee of the Division were H. B. Callen, J. H. Crawford, G. C. Danielson, H. B. Huntington, and W. V. Smith.

The APS Electron Physics Division executive committee members are Gerhard L. Weissler (University of Southern California), *chairman*; Vernon Hughes (Yale University), *past chairman*; Wade L. Fite (Univer-