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THE SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

HIGH-SPEED **photography**

VOLUME 5

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FOREWORD

• This volume, consisting of all appropriate papers published in the Society's monthly Journal since the issuance of Volume 4 of this series, is largely related to the First International Symposium on High-Speed Photography held in Washington, D.C., in October 1952. The Second International Symposium is to be held in Paris, September 22-28 of this year.

The first International Symposium on High-Speed Photography was a great occasion. It represented the culmination of daydreams over a number of years, while we watched the progressive development of high-speed photography. It was a meeting long overdue.

There were gathered at this meeting: camera designers, scientists, educators, photographers and engineers; there were in attendance the theorist and the hard-headed practitioner, representing our own country, countries across the sea and across our borders. Though there may have been a language barrier, there was no barrier to scientific knowledge and friendliness. It was hoped that, after this meeting, the mingling and exchange of views among all these people would prove to be the greatest advancement to the science of high-speed photography that had ever occurred.

There were presented papers which covered the gamut of the photography of motion from the days of Muybridge, Mach, Marey and Cranz, down to Edgerton, Miller, Brixner, Sultanoff, Schardin, O'Brien, Tuttle and others too numerous to mention. Papers were presented by those who design and build the workhorse high-speed cameras. There were papers which discussed techniques used in industry, research and the Armed Forces. There were papers by those who are using cameras in Europe and Canada, as well as in the United States.

Any theory of high-speed photography, to be of import, must succeed in practice. The problems surrounding the dissemination of high-speed photographic knowledge are complex. Since the first meeting of the Committee on High-Speed Photography at Bell Telephone Laboratories in January 1948, this problem has been seriously discussed. The most logical ways and means of securing liaison between professional societies, commercial organizations, government agencies and educational institutions have been examined as thoroughly as possible.

In the four years that the Committee has functioned, seven symposia (including this one) have been presented. Four volumes of reprints of the papers have been published by the Society, of which two are now out of print.

We wish to thank those members of the Committee on the First International Symposium who aided in securing papers for presentation. The committee members were: Carlos

[Continued on following page.]

Elmer, Naval Ordnance Test Station, Inyokern, California; Eugene Miller, Eastman Kodak Company, Rochester, New York; Edward Andres, Wright-Patterson Air Force Base, Dayton, Ohio; and Max Beard, Naval Ordnance Laboratory, White Oak, Silver Spring, Maryland. Kenneth Shaftan assisted on the overseas arrangements for Great Britain, and Eleanor Gerlach took care of the follow-up work on the West Coast. Dr. Alvin C. Graves and many others in agencies of the Atomic Energy Commission have recognized the importance of this meeting. It was through his cooperation that three papers for A.E.C. agencies were presented.

We are particularly indebted to Dr. Edgerton and Kenneth Morgan for editing and organizing guidance for this volume.

JOHN H. WADDELL, *Chairman*
First International Symposium
on High-Speed Photography

High-Speed Photography

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