



**Presentation of Herbert T. Kalmus Gold Medal to Merle L. Dundon, at left, by SMPTE President Kreuzer. The Citation was read by Herman H. Duerr (at right), Chairman of the Herbert T. Kalmus Gold Medal Award Committee.**

portantly, the ability to analyze the technical aspects of the problem, to develop and supervise a staff of scientists, experimenters, and engineers exploring and solving these problems in a well conceived and directed plan, traveling always toward the ultimate goal of natural color in a form practical for use in the motion-picture theater. It is seldom in the annals of technical development that the ability to direct the business, economic and technical aspects of a highly specialized enterprise have been successfully

carried out by a scientist whose ability reached equally into the fields of technology, economics and business."

The twenty years since these statements were made have continued to bear witness to Mr. Rickett's statements. Continued improvements in Technicolor's imbibition process of making three-color prints have provided theatergoers with natural color of the highest quality.

The abilities which enabled Dr. Kalmus to foresee the possibilities of a successful

color system and to lead his organization through the early uncertain years to success were due in part to his formal scholastic training and his early experiences in business. Dr. Kalmus was graduated from the Massachusetts Institute of Technology with the degree of Bachelor of Science in 1904. In 1907 he received the degree of Doctor of Philosophy at the University of Zurich. Following several years as research associate at MIT and a short period as professor of physics at Queen's College in Canada, he became a partner in the newly organized firm of consulting engineers of Kalmus, Comstock & Westcott, Inc. It was at this time, in 1916, that he first began active work on color photography, and organized the Technicolor Corporation.

Early Technicolor pictures were made by cementing together two film strips back to back, with dyed gelatin relief images on the outer surfaces. Later, by use of the Technicolor split-beam cameras for making two original negatives, and use of imbibition printing to provide a single image composite print with a silver soundtrack, the two-color imbibition process was developed. This was further developed to the three-color process by addition of a third film as a bipack in the split-beam cameras, and use of three matrix films for imbibition printing, with a light silver picture image and silver soundtrack.

Important as were the technical problems in the progress of Technicolor's growth, it was Dr. Kalmus' understanding of the economic problems and his creative business ability which enabled him to succeed in bringing full color to the theater many years before it otherwise would have been provided.

In conferring Honorary Membership to Dr. Herbert T. Kalmus, the Society of Motion Picture and Television Engineers welcomes a true pioneer whose contributions to the motion-picture industry have been unique and whose continued active interest is an inspiration to all who are associated with current motion-picture development.

#### Fellows

The following members were raised to the rank of Fellow. Certificates were presented by Dr. John G. Frayne, Past-President of the Society:

- |                 |                 |
|-----------------|-----------------|
| W. S. Ball      | C. W. Hauge     |
| P. M. Cowett    | S. E. Howse     |
| R. B. Dull      | K. B. Lewis     |
| L. G. Dunn      | D. L. MacAdam   |
| C. P. Ginsburg  | H. W. Pangborn  |
| T. B. Grenier   | B. F. Perry     |
| Louis Hagemeyer | Douglas Shearer |
|                 | C. S. Stodter   |

#### Journal Award

The Journal Award for 1958 was presented to George Lewin for his two papers on "The Infrared Transparency of Magnetic Tracks." Four other papers were chosen for Honorable Mention. Recipients of Honorable Mention and the papers are:

- Willy Borberg for "Effect of Gate and Shutter Characteristics on Screen Image Quality"  
 Armin J. Hill for "Analysis of Background Process Screens"  
 Donald Kirk, Jr., for "Economic Consider-

**NEW PRODUCTS FOR YOU FROM BIRNS & SAWYER**



**COOKE SPEED PANCHRO 18mm**

Newest of the fine Series II Cooke lenses for 35mm Arri cameras, Wide (18mm); Fast (f1.7) and Handsome, it is exclusive at Birns & Sawyer in the West.

Cat. No. 1310 **\$495**



**WIDEST WIDE-ANGLE FOR ARRI 16**

Widest and newest lens for the 16mm Arri is this 5.7mm, f1.8 lens with 113 degree coverage. Fast, sharp, it has incredible coverage. Exclusive at Birns & Sawyer in the West.

Cat. No. 1330 **\$499<sup>50</sup>**

**RENT OR BUY • WE SUPPLY**



**ARRI 35 CAMERA BARNEY**

Sound-muffling barney reduces camera noise 65%. Constructed of kapok, lead foil, flannel and foam rubber covered with heavy duty green duck, barney covers camera, 480-ft. magazine and either wild or sync motor. Made in Hollywood to Birns & Sawyer specifications. Pictures show front and back views.

Cat. No. 1450 **\$99<sup>50</sup>**



**BIRNS & SAWYER**

8910 Santa Monica Blvd., Los Angeles 46 • OLeander 5-6970