

Mr. Loughlin was born in New York City on May 19, 1917. He received a degree of Bachelor of Electrical Engineering from Cooper Union in 1939 and a degree of Master of Science from Stevens Institute of Technology in 1946. He has been employed by the Hazeltine Corporation since June 1939. In his early days there, he made notable advances in the development of frequency modulation and in the design of television receivers. More recently his work has been in the field of color television.

Mr. Loughlin has made many contributions to the science of color television. The most outstanding of these, probably, is the understanding that the optimum method of transmitting a compatible color picture is by the transmission, by normal standards, of a black-and-white picture to which the color information is added. This concept

simplified and clarified the process and ultimately resulted in the great advance which the art has made.

Another major contribution of Mr. Loughlin's is the fundamental of "constant luminance." By this principle the monochrome signal carried all of the luminance and the added color signals contribute only to chromaticity. This allows a minimum of color information present in the complete color signal, thereby improving compatibility.

The author of many technical articles and the holder of 36 granted U.S. patents, he had 31 pending applications, many of these pertaining to color television. Mr. Loughlin has also been a major contributor to the formulation of the NTSC Signal Specification through his work on many of the NTSC and RETMA committees.

Samuel L. Warner Memorial

The winner of the Samuel L. Warner Memorial Award for 1955, Dr. Harry F. Olson, was introduced by William A. Mueller, Chairman of the Warner Award Committee. Mr. Mueller stated:

The Society of Motion Picture and Television Engineers has selected Dr. Harry F. Olson of the Radio Corp. of America as the recipient of its Samuel L. Warner Memorial Award for 1955.

The Warner Award is given to a candidate who has done outstanding work in the field of sound motion-picture engineering and in the development of new and improved methods or apparatus design for sound motion pictures. Dr. Olson was selected for the results of his productive career in audio engineering, including his work on the velocity microphone, the ducone speaker for high-fidelity sound reproduction, and his contributions to the development and improvement of phonograph pickup and recording equipment, underwater sound equipment, and sound motion-picture and public address systems.

Dr. Olson, who is today Director of the RCA Acoustical and Electro-mechanical Research Laboratory, Princeton, N.J., joined that company in 1928. He holds more than 60 patents on devices and systems in the acoustical field and is also the author of more than 70 articles and papers in professional journals, as well as several books including *Applied Acoustics*, *Dynamical Analogies*, *Elements of Acoustical Engineering*, and *Musical Engineering*.

Herbert T. Kalmus Gold Medal

Following presentation of the Fellow award certificates Dr. Frayne announced "the establishment of a new Medal Award. This medal, presented to the Society by the Technicolor Motion Picture Corp., is to be known as the Herbert T. Kalmus Gold Medal Award. It will be available for award annually for outstanding contributions in the development of color films, processes, techniques or equipment useful in making color motion pictures for theater or television use."

SMPTE Test Films

A new catalog of the test films available from the Society has recently been printed and may be had upon application to the headquarters office. These films, which are planned by the Society's technical committees, now include many that have application in the television field—35mm and 16mm alignment and resolution films, and some very recent 35mm and 16mm color test films and slides. Ten 35mm magnetic four-track CinemaScope films provide a full series of sound and picture tests for wide-screen use, and there are focus-and-alignment, travel ghost and jump-and-weave tests for regular 35mm film. In the 16mm field there are films made to AFA specifications and for testing magnetic azimuth alignment and for multi-frequency tests, as well as a wide range of other films covering all kinds of sound and picture tests. The Society intends these films to be helpful to designers and manufacturers in setting up performance objectives and as standard tools of inspection.

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