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beam tube to overcome many of the existing problems. This work culminated in the Orthicon tube a description of which was published in 1939.

Pursuing this line during and following World War II, Dr. Rose led a research group in the development of the Image Orthicon which incorporated major advances resulting from studies in which he had been engaged during the preceding decade. Introduced in 1946, the Image Orthicon provided television for the first time with the answer to its need for a camera that might "see wherever the human eye could see." Since its introduction the Image Orthicon has been the eye of the television broadcast industry.

Subsequent study by Dr. Rose in the area of photoconductivity provided the basic contribution to the development of the Vidicon tube by the research group under his direction. The Vidicon has made possible a simple and economical link between the motion-picture and television arts, permitting the direct pickup and transmission of filmed program material.

Although others have contributed important features to the Orthicon, Image Orthicon, and Vidicon, Dr. Rose's continuing vision, scientific guidance, and stimulating leadership have been essential in the successful conclusion of all three projects.

Samuel L. Warner Memorial Award

The following citation, which had been prepared by the Samuel L. Warner Memorial Award Committee under the chairmanship of Gordon F. Sawyer, was read by Axel G. Jensen, Engineering Vice-President:

It is my privilege to announce that George Lewin, Chief of Pictorial Engineering for the Army Pictorial Service and a Fellow of our Society, is to be this year's recipient.

The Samuel L. Warner Memorial Award is given to the individual who, in the opinion of a special committee, was responsible for an invention or method likely to have the most beneficial effect on the recording and reproduction of sound and picture.

In their search for a worthy recipient the committee members are charged with the responsibility of reviewing inventions and methods concerned with sound recording and reproduction for the previous five years.

George Lewin entered the sound recording field in 1928 and has been constantly working for its betterment ever since. It was the unanimous opinion of our committee that Mr. Lewin's discovery and research on the phenomenon of transparency of magnetic coatings to infrared light sources and its application to dual sound reproduction from either the magnetic track or the underlying optical track was an invention of significance and method with great potential application.

In addition to this invention, George Lewin has made many practical contributions, both in equipment design and techniques employed in "dubbing."

In accepting the Award, Mr. Lewin said:

I welcome this opportunity to express my appreciation to the many people at the Army Pictorial Center who gave me the opportunity and helped me in the work

which has been recognized by this Award. I would like especially to mention three people who have since passed away: William Raycroft who did some of the circuit design involved in much of our original conversion from photographic to magnetic recording; Steve Szeglin who did much of the mechanical design involved in our "reversible" system for narration recording and the "magnetic loop" system of lip-synchronizing; and John W. Butler who, as Chief of our Studio Division at that time, encouraged the work we were doing.

Among the living, I wish to extend full credit to James Kennedy who supervised all of the work, contributed ideas of his own and was mainly responsible for putting into actual practice many of the ideas which may have originated with me but could very well have remained merely as ideas had it not been for Mr. Kennedy's energetic and conscientious efforts bringing them to successful culmination. I also greatly appreciate the efforts of Colonel Al Dillinger as former Chief of Sound Branch and later Chief of Studio Division, and Ed Dreyer as present Chief of Recording Section, in energetically encouraging the application of the new methods to actual production use in the face of the natural reluctance of many old-timers to adopt new methods. And above all, I appreciate the encouragement of this Society's Executive Secretary, Colonel Stodter, who was Commanding Officer of the Army Pictorial Center and later Chief of Army Pictorial Service Division, and Colonel Lindsay and Colonel McCrary who succeeded him during the period when these various projects were being developed.

With regard to my work in the use of $\frac{1}{2}$ in. synchronous tape, I must point out that the real pioneering work was done by Col. R. H. Ranger of Rangertone and W. D. Fling, who was at that time Chief Engineer of Fairchild Recording Company. I am proud to have had an opportunity to participate in some of the early tests of their systems and to have been instrumental in encouraging some of the first applications of their equipment to certain of our activities at the Army Pictorial Center.

Education, Industry News

John B. Olsson has been appointed Assistant Sales Manager for Beattie-Coleman Inc., 1000 N. Olive, Anaheim, Calif. For the past seven years he has been with Houston Fearless Corp. where he has served as Sales Engineer, Advertising Manager, and Laboratory Contact Representative for the firm's color film laboratories in Burbank, Calif. He has also acted as chief civilian contracting officer for photographic equipment purchased for the Army, Navy and Air Force at Wright Patterson AFB. He has also been Chairman of the SMPTE Exhibit Committee for the past two Los Angeles Conventions.

K. D. Shamberg, film and TV engineer, is now engaged as an independent producer, associated with City Film Center, 66-40 69th St., Middle Village, L.I., N.Y. City Film Center is working on new formats for television, attempting a "different" type of entertainment.

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