

did a find job with the multitude of slides and motion pictures; and Jim Pettus and John Stork handled the public address and recording duties in a most helpful manner.

With the excellent facilities of the Ambassador Press Room at their disposal Marty Waldman, Sue Grotta and Mrs. Alan Gundelfinger fed quantities of information on the program to the trade papers, wire services and Los Angeles dailies. Interviews with many of the speakers provided the press boys with additional timely stores on industry developments.

Always available to lend a hand where needed was Administrative Assistant Herb Farmer.

For the ladies the program included a trip to Disneyland, tea at the Beverly Hills Hotel and lunch and a tour of the Warner Bros. studios in Burbank. Arrangements were made by co-hostesses Mrs. John G. Frayne and Mrs. Norwood Simmons.

One of the most important events of the convention was the 1956 SMPTE award presentation ceremonies. The planning and coordination of arrangements for this session were done by Eric Howse. The citations and awards are published in a separate story.—S.G.

## Society Awards

One of the high points of this and every Fall Convention is the Awards Session. One of the most rewarding obligations of the Society as a whole is that of selecting from its members those who are most deserving of the special recognition embodied in the awards granted for outstanding achievements within particular categories.

The 80th Convention's Award Session, October 9, 1956, was, in many respects, a solemn occasion. The David Sarnoff Award was granted posthumously to Robert E. Shelby and Honorary Membership was granted to the then gravely ill Dr. Alexander Ernemann whose death occurred five days later (obituary p. 621). The Award was accepted in his absence by his friend, Dr. Eduard S. Schneider, German Consul General for Los Angeles. The posthumous Award to Robert E. Shelby was accepted by his widow.

### Honorary Members

*Dr. Eduard C. Schneider, German Consul General for Los Angeles, accepted the Award Certificate for Dr. Alexander Ernemann. The name of Dr. Ernemann, who died October 1-1, will be added to the Society's Honor Roll. Loren L. Ryder read the following citation:*

This is one of the greatest honors that this Society can bestow upon a man and once so honored, this honor stays with him through life.

While most of us in the United States are familiar with the developments which have originated in our country, the record shows that much of the development work in motion pictures took place on the other side of the Atlantic.

Today we are honoring a man who can look back and recall clearly the introduc-

tion of motion pictures. His age is 80. His home is in Stuttgart, Germany. Independently of the early work which was done in motion pictures in the United States, he developed one of the first motion-picture projectors. Through the years he has continued to design and develop projectors through Stahl Projector to today's Ernemann X. Dependability, performance and fine workmanship have given Alexander Ernemann an excellent reputation in the industry. He developed the first projector with enclosed gears and full lubrication. He was also the first to use air and water for cooling.

Dr. Ernemann's achievements will live forever and we of the Society are happy that we can honor him today.

### Fellows

*Herbert Barnett, Chairman of the Fellow Awards Committee, presented Award Certificates with the following citation to the sixteen members who were given the grade of Fellow:*

One of the more satisfying responsibilities within the Society is assigned to the Fellow Award Committee. It is through this committee and by approval of the Board of Governors, that members of this Society are elevated to the grade of Fellow.

To achieve this distinction one has, by his proficiency and contributions, attained to an outstanding rank among engineers or executives of the motion-picture or television industries. Each year the Committee, composed of all the Society Officers, Section Chairmen and Chairmen of all engineering committees carefully examines candidates' names compiled from nominations emanating from many sources. Recommendations are then passed to the Board of Governors who approve, modify or expand the selections arrived at by the Committee.

Again, this year we have a distinguished list of engineers and executives whom, I am sure, you will agree are well worthy of this honor. I take pleasure in announcing the names of those achieving grade of Fellow for 1956:

Willy Borberg	Fred Hynes
Jasper S. Chandler	Warren R. Isom
John W. DuVall	Walter I. Kisner
Edward Furer	Frank L. Marx
Edouard P. Genock	John B. McCullough
Herman M. Gurin	Richard O. Painter
Wilton R. Holm	Michael Rettinger
Robert G. Hufford	John G. Streiffert

### Progress Medal

*In the absence of Dr. Otto Sandvik, Chairman of the Progress Medal Award Committee, Gordon Chambers read the citation. Presentation was made to Barton Kreuzer who accepted on behalf of the recipient, Dr. Alfred Norton Goldsmith who was unable to be present. Mr. Kreuzer read Dr. Goldsmith's acceptance speech:*

The Society of Motion Picture and Television Engineers has selected Dr. Alfred Norton Goldsmith as the recipient of its Progress Medal Award for 1956.

The Progress Medal is being awarded to Dr. Goldsmith for his many contributions to the progress of many phases of sound motion-picture and television engineering, particularly for his early recognition of the

importance of a tricolor kinescope and his concept of means for accomplishment.

Dr. Goldsmith was graduated from the College of the City of New York with a Bachelor of Science degree. He received his Doctor of Philosophy degree in science from Columbia University where he studied under the eminent scientist, Professor M. I. Pupin. Later he received honorary Doctor of Science degree from Lawrence University.

Since his early academic career at the College of the City of New York, where he became Professor of Electrical Engineering, Dr. Goldsmith has held many prominent positions in the industrial field.

He has been active in research and invention and over two hundred patents have been issued to him, including the very basic patent on the aperture mask phosphor-triad color kinescope tube.

Dr. Goldsmith continues to be active in motion-picture and television engineering and is a Past-President of SMPTE and IRE.

He is a fellow of many learned societies including the SMPTE, the IRE, the American Institute of Electrical Engineers, and the American Physical Society. He has received many awards including the Medal of Honor and the Founders Award of the Institute of Radio Engineers, the National Pioneers Award and The Radio Pioneers Award.

For his contributions to the science and technology of sound motion-picture and television engineering, Dr. Alfred Norton Goldsmith is awarded the Progress Medal of the Society of Motion Picture and Television Engineers.

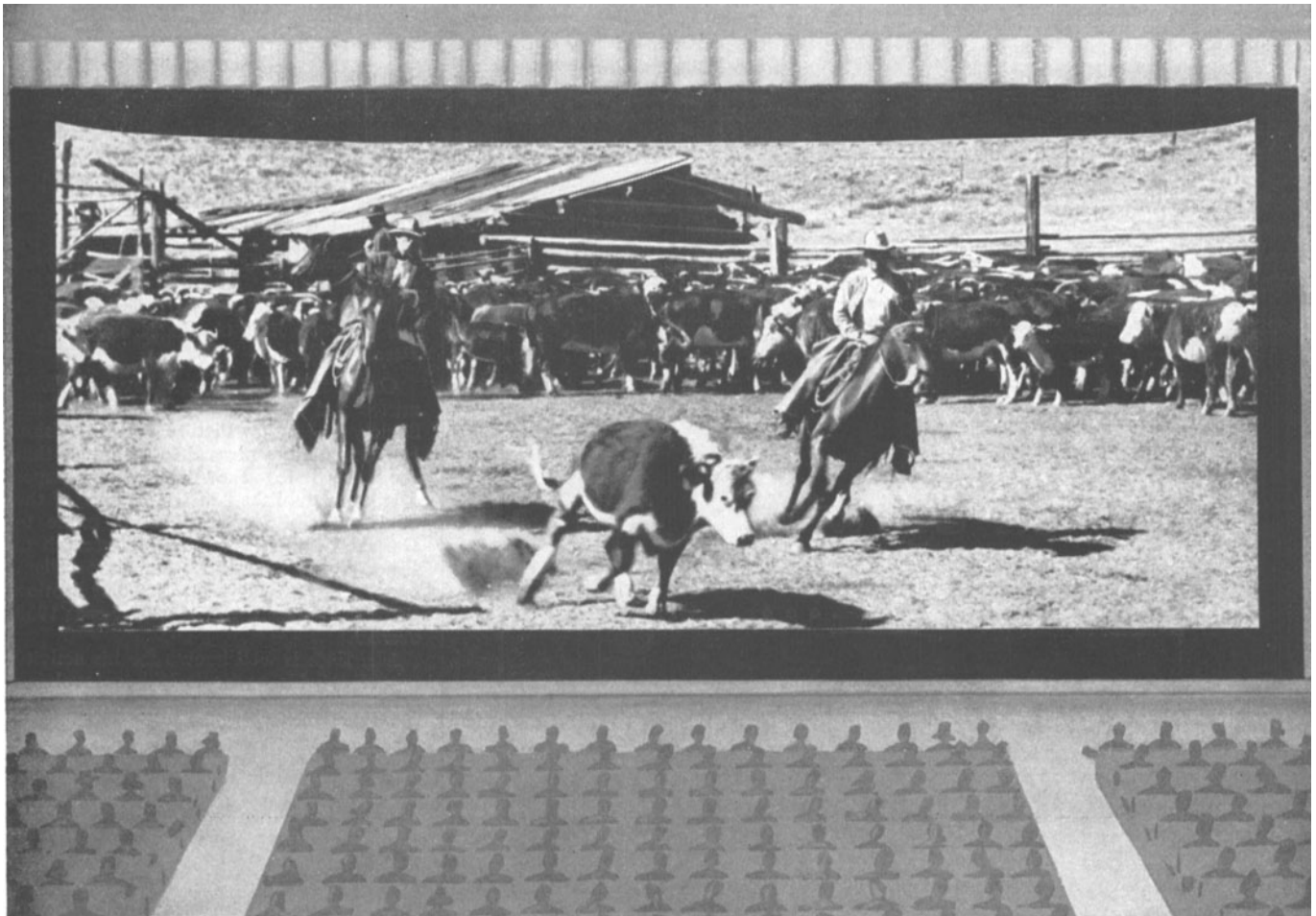
### Acceptance Address for Progress Medal Award

There are good reasons why I should regard this meeting as a highlight occasion for me. It includes, in fact, a rare combination of what I may paraphrase as "the time, the place, and the Society." The time is one when the video and audio arts and sciences are fully blossoming, to the great satisfaction of those of us who have been privileged to be workers in so luxuriant a vineyard. The place is this great Metropolis of the Pacific which saw the birth, growth and fruition of the recorded picture in motion. And the Society is one which has fittingly grown and prospered together with the industries which its membership have so capably served and developed.

Seldom, in fact, could there have been so happy a combination of accompanying circumstances as that which marks my presence before you today. And this is particularly so since I have had the honor in the past of acting as the President of this Society, and as a Board and Committee member and chairman for many years. Most appropriately, I wish first to express my deep gratitude to the Awards Committee and to the Board of Governors which have conferred a great honor upon me. And I am pleased that the Progress Award has been granted to me for so wide and varied a group of contributions in the several fields of engineering in which this Society is active.

Yet this occasion would not be complete nor pertinent implications clear unless I emphasized one particular aspect of the conditions surrounding this Award—namely, that dealing particularly with the

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invention of the basic tricolor picture tube. In this regard, I feel an extremely close unity with a group of splendidly ingenious and tenacious scientific workers and inventors in the Radio Corporation of America who were responsible for the actual physical embodiment of the color kinescope and who repeatedly showed most unusual resourcefulness and capability in planning, devising, designing, developing and commercially producing this complex final product. For them I here gladly express great admiration and esteem. And I take this welcome opportunity to pay tribute to some of their representative leaders individually, though with necessarily brief mention of their outstanding accomplishments. These leaders then include:

*A. C. Schroeder*, who suggested the use of a triple gun in conjunction with a shadow mask, the three beams being deflected by a single deflecting system;

*H. B. Law*, who experimentally verified and extended the principles of operation of the tube, developed its basic technology as a whole, and constructed the first working model;

*H. Rosenthal*, who developed the silk-screening technique for deposition of the phosphor dots;

*E. W. Herold*, who organized exploratory work on numerous types of color kinescopes leading to the decision to adopt the shadow-mask type;

*D. W. Epstein*, who was active in the colorimetric and electron-optical aspects of the tube, and led the applied research on it;

*D. D. Van Ormer* and *Miss H. C. Moody*, who worked out the engineering design of the tube; and

In the color Kinescope Operations Department. *H. R. Seelen*, manager; *C. P. Smith*, Chief Engineer; and *K. M. McLaughlin*, Plant Manager, who jointly constituted the team responsible for the institution and management of high-efficiency mass production of color kinescopes.

Let me again thank those in this society who have so generously recognized my various contributions. And may I assure them that this Award will, as it should, strongly stimulate me to renewed and enhanced effort over the years.

### Journal Award

*In presenting the Journal Award, Armin Hill, Chairman of the Journal Award Committee, read the following citation. Acceptance was made by Axel G. Jensen on behalf of Donald G. Fink:*

On behalf of the Journal Award Committee and the Board of Governors of the Society of Motion Picture and Television Engineers, I am pleased to announce that the award for the outstanding paper originally published in the *Journal* of the Society for the year, 1955, is made to Donald G. Fink, Director of Research of the Philco Corporation, for his excellent paper, "Color Television vs. Color Motion Pictures," published in the June 1955 *Journal*.

Mr. Fink is well known for his activity in several fields, particularly those involving electronics and television. A graduate of the Massachusetts Institute of Technology and of Columbia University, he has served on the editorial staff and as Editor-in-Chief of *Electronics*, as Editor of the Proceedings of the National Television System Committee, and since January 1956 as Editor of the *Proceedings of the Institute of Radio Engineers*. He has served as a member of several important national and international committees in radio and television work, and has been particularly active in standardization work in these fields. As Director of Research of the Philco Corporation he now administers research activities in radio, television and electric appliance fields.

His interest in color television stems, of course, from his long professional association with problems in that field, though he claims that his interest in color motion pictures is purely an amateur one. When he wished to make a fair comparison of these two media, he found so much essential data lacking that he undertook his own study. He was so successful that when his associates saw the results, they pressed him to prepare his material for publication in the *Journal*.

Papers for this award are selected on the basis of technical merit and importance of subject matter, originality and breadth of interest, and excellence of presentation. This paper rated very high in each of these categories in the opinion of each committee member. Especially, however, the committee felt that the readable, informal style of presentation made it an outstanding contribution, well worthy of this award.

Papers selected by the committee and

## A Print Fouled Up with Dirt and Oil...

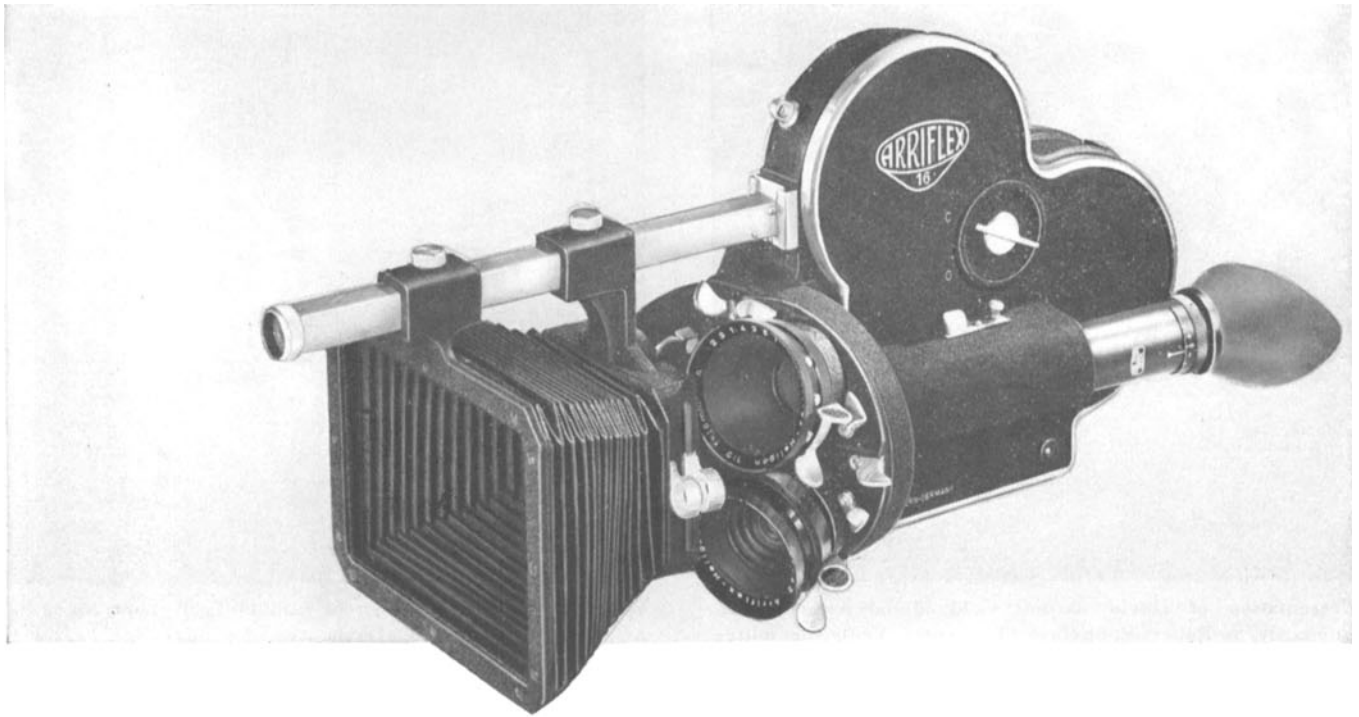
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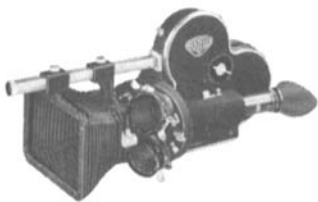
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"It was 11:15 p.m., about the time a normal day comes to an end," writes Charlie Sciorba, prominent Milwaukee newsreel photographer. "Suddenly, my police radio flashed . . . fire on Market Street . . . tenement section . . . big blaze. I arrived on the scene with the first fire engines—readied my Arriflex—and shot like crazy."

"The next day, 53 prints of the film were distributed to the major syndicates and services. The unedited version was submitted to the National Press Photographers Association competition a few hours before deadline. It received the top newsreel citation."

Charlie Sciorba is an Arriflex enthusiast from way back. He credits the unique mirror-shutter reflex viewing system, and the light weight portability for his outstanding scoops. "You'd expect a camera with the precision of an Arriflex," says Charlie, "to be a little too delicate for spot newsreel work—especially with the workout I give a camera. Yet my Arriflex has proved itself as rugged as it is versatile. Do I like the Arriflex . . . ? It's my bread and butter!"

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**Presentation of David Sarnoff Gold Medal Award, posthumously, to Robert E. Shelby: T. Gentry Veal, Committee Chairman; Mrs. Shelby and President John G. Frayne.**



**William Mueller, Chairman of Samuel L. Warner Memorial Award Committee; C. C. Davis, Award winner; and President John G. Frayne.**

approved by the Board of Governors for honorable mention are:

"Effect of Nitrogen Oxide Gases on Processed Acetate Film" by J. F. Carroll and John M. Calhoun, this being a well prepared and presented report on a very important aspect of film storage;

"Image Analysis in Photographic and Television Systems" by Otto H. Schade, a most timely and important paper in a series which gives a revolutionary approach to many of the problems of image transmission; and

"History of Sound Motion Pictures" by Edward W. Kellogg, a most valuable and comprehensive series of articles on the development of this important phase of motion-picture technology.

### David Sarnoff Gold Medal

*The 1956 Sarnoff Medal was awarded posthumously to Robert E. Shelby. Presentation was made to Mrs. Shelby by T. Gentry Veal, Chairman of the David Sarnoff Gold Medal Award Committee, who read the following citation:*

On December 8, 1955, Robert E. Shelby died unexpectedly of a heart attack. Although death has deprived us of a very dear friend and associate, Mr. Shelby was chosen by his colleagues in the television industry to receive posthumously the David Sarnoff Award of this Society.

Mr. Shelby was born in Austin, Texas, on July 20, 1906. He was graduated from the University of Texas, where he received the degree of Bachelor of Science in Electrical Engineering, and a Bachelor and Master of Arts.

Mr. Shelby had a close interest in radio for 35 years and was actively engaged in television work for 24 years. He joined the National Broadcasting Company in 1929 after graduation from the University of Texas. In 1931 he was placed in charge of NBC's first experimental television installation on top of the Empire State

Building. Among the positions he subsequently held with NBC were Director of Technical Development and Director of Technical Operations for the television network, and Director of Color Television System Department. In July of 1954, he was made Vice-President and Chief Engineer of NBC.

In the early days of black-and-white television, Mr. Shelby devoted much of his time to industry committees. This work eventually led to the adoption of the present signal specifications for commercial television. Similarly, Mr. Shelby played an important role in the formulation of the signal specifications for compatible color television which were eventually adopted by the Federal Communications Commission. He was a Fellow of the Institute of Radio Engineers, a Fellow of the American Institute of Electrical Engineers, and held a Fellowship in this Society which he received last fall at Lake Placid.

Mr. Shelby is the author of many technical articles and is the holder of many U.S. patents, the most notable being that concerning an electronic modulator for constant-frequency variable dot transmission.

Mr. Shelby was a major contributor to the formulation of the NTSC Signal Specification through his endless work serving as chairman and member of the many NTSC and RETMA committees. As was stated by one of Mr. Shelby's very close colleagues, "I know of no one who labored longer or with more good will in the cause of television broadcasting than did Bob."

### Samuel L. Warner Memorial

*William Mueller, chairman of the Samuel L. Warner Memorial Award Committee, presented the award to C. C. Davis and read the following citation:*

Mr. Davis joined the staff of Electrical Research Products Inc. in 1928 as a theater installation engineer. He was transferred in 1935 to the Apparatus Design Division

of the same company. In World War II he served as a field engineer in the Radar Field Service Organization of the Western Electric Co. Since 1945 he has been continuously engaged in developments and improvements of sound recording and reproducing mechanisms. As part of this sound program he developed in 1945 an improved film transport mechanism now widely used in sprocket-type studio equipment, and which is universally referred to as the Davis Drive. He received an Academy Award for this development in 1948. He later extended this same principle to professional disk recording drives. In 1950 Mr. Davis developed a multitrack magnetic head with extremely low crosstalk. He has received ten patents in the United States and numerous others in foreign countries covering his inventions in the field of sound recording.

### Herbert T. Kalmus Gold Medal

*The first recipient of the new SMPTE Award, the Herbert T. Kalmus Gold Medal, Dr. Wesley T. Hanson, Jr., was introduced by William F. Kelley who read the following citation in the absence of Dr. Deane R. White, Chairman of the Committee:*

The Society of Motion Picture and Television Engineers has selected Dr. Wesley T. Hanson, Jr., of the Eastman Kodak Company as the recipient of its Kalmus Award for 1956. It is the purpose of this award to do honor to the recipient and to the Society by recognizing outstanding contributions in the development of color films, processes, techniques or equipment useful in making color motion pictures for theater or television use.

Dr. Hanson was selected to be the first recipient of this award because of the contributions he has made in connection with materials for use in professional color motion-picture photography. While it is to be understood that such success as these films have attained in the field of color

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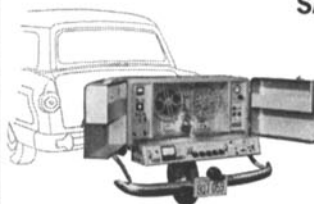
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*Bill Stutz*

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*D. J. White*

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*Jim Green*

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motion-picture photography is the result of important contributions, inventions and discoveries by a considerable group of people, Dr. Hanson has personally been responsible for several of the basic ideas and concepts upon which the production of Eastman Color Negative films, Eastman Color Internegative films and Eastman Color Print films are based. His contributions have been numerous and have extended over a period of several years.

His invention of the use of colored couplers appears as outstanding in its importance; his analysis of the photographic characteristics and color requirements for the group of films to be used in professional color motion-picture photography has been very significant in their

evolution; his contribution to the processing of such colored films has been of definite importance. Dr. Hanson also made a contribution through his perception in the selection of ideas which were presented by others during the development stage and his judgment in the use of these ideas.

Dr. W. T. Hanson, Jr., is now head of the Color Photography Division of the Kodak Research Laboratory in Rochester, N. Y. He entered the service of the Eastman Kodak Company in 1934 after he received the Ph.D. degree in chemistry. While with the company he has devoted years of effort to color photography, though those efforts were interrupted during World War II by assignment to another post of responsibility.

## SMPTE Elections

Early in August ballots were circulated to the 2300 voting members of the Society to elect Society and Section Officers for terms beginning January 1, 1957. Section ballots were counted by the section boards of managers prior to the 80th Convention and Society ballots were counted by a panel of tellers under M. A. Hankins on October 6 in Los Angeles.

The results of the Society election were announced by President John G. Frayne at the Get-Together Luncheon which officially opened the Convention. Dr. Frayne introduced the new officers and Governors who were elected for two-year terms. Barton Kreuzer, Director of Product Planning for the Radio Corporation of America, was elected President to succeed Dr. Frayne; and Norwood L. Simmons, Chief Engineer, West Coast Division of the Eastman Kodak Co. Motion Picture Film Dept., was elected Executive Vice-President. Other elected officers are Glenn E. Matthews, Eastman Kodak Co., Editorial Vice-President; G. Carleton Hunt, General Film Laboratories, Convention Vice-President; and Wilton R. Holm, E. I. du Pont de Nemours & Co., Secretary.

Six new Governors were also selected, including two each from the East Coast, Central and West Coast Areas. They are: Howard A. Chinn of CBS; Gerald G. Graham of the National Film Board of Canada; James L. Wassell of Bell & Howell; W. Wallace Lozier, National Carbon Co.; Edwin W. Templin, Westrex Corp.; and Ub Iwerks, Walt Disney Productions. Mr. Graham is the first member to be elected to the Board from outside the United States.

The following Section Chairmen and Secretary-Treasurers were elected for one-year terms and Members of the Boards of Managers for two years, except where otherwise indicated:

### Atlanta Section

Chairman, Charles W. Wood  
 Secretary-Treasurer, Earl R. Ruckdeschel  
 Managers 1957-58, Charles D. Beeland, Jr.  
 C. F. Daugherty  
 L. H. Kelley  
 Managers 1957, B. M. Loden  
 C. Louie Strickland  
 Frank H. Willard, Jr.

### Chicago Section

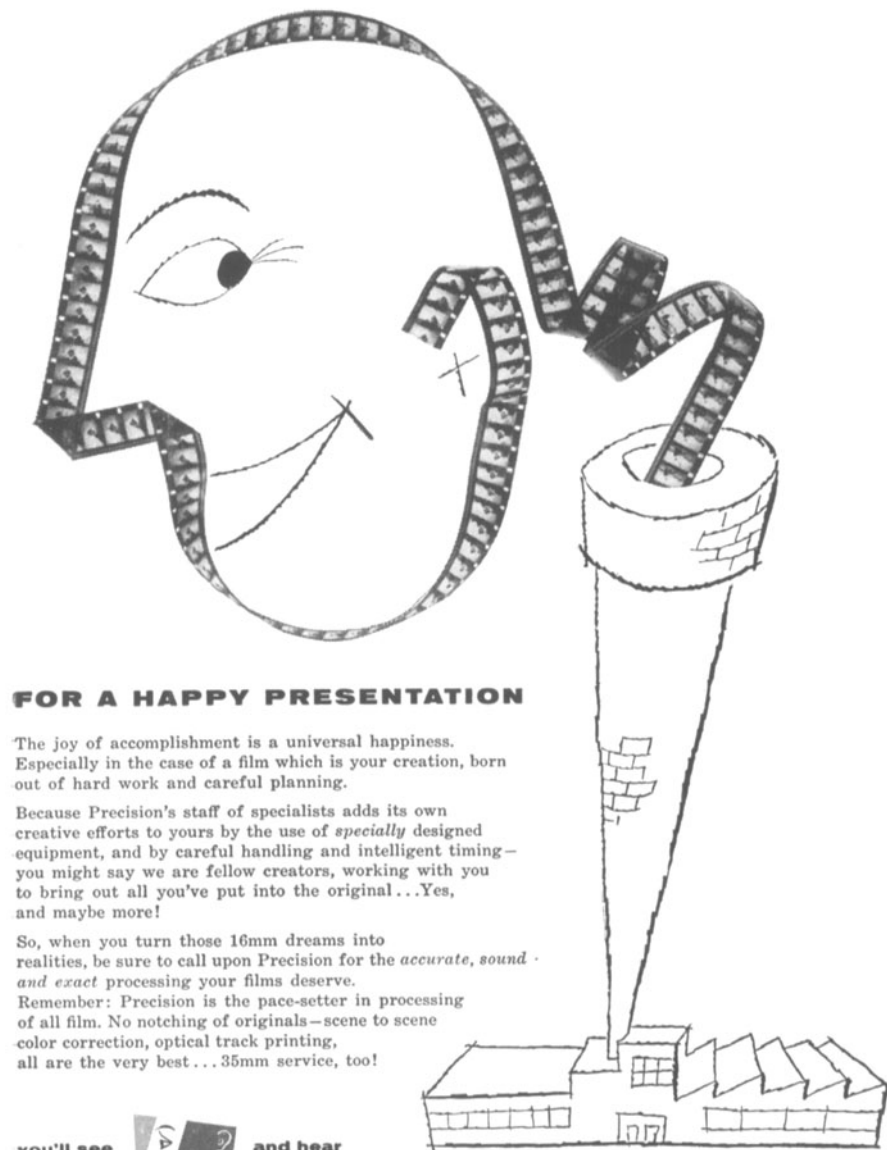
Chairman, Kenneth M. Mason  
 Secretary-Treasurer, Howard H. Brauer  
 Managers 1957-58, James A. Kellock  
 Frank H. Riffle  
 Ralph J. Sherry

### Dallas-Ft. Worth Section

Chairman, Bruce S. Jamieson  
 Secretary-Treasurer, Roddy K. Keitz  
 Managers 1957-58, Jerry A. Dickinson  
 Merl C. Hartung  
 Bruce Howard  
 Managers 1957, Jim Webb Cooper  
 Hervey Gardenhire  
 Erwin J. Pattist

### Los Angeles Section

Chairman, John W. DuVall  
 Secretary-Treasurer, Robert G. Hufford  
 Managers 1957-58, Lester H. Bowman  
 Louis H. Mesenkop  
 Harlan L. Baumbach



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