

work. This marks a major expansion of stereo service inaugurated by the network in 1986. In the past three years, CBS has transmitted selected programs in stereo, including the miniseries *If Tomorrow Comes*, the primetime series "The Twilight Zone," and some theatrical films.

Rupert Neve Inc. has opened new sales and service offices in New York City and Nashville, Tenn. The address of the office in New York is 260 W. 52nd St., New York, NY 10019. The Nashville facility is at 1221 16th Ave. So., Nashville, TN 37212. Neve, headquartered in Bethel, Conn., manufactures audio production and post-production consoles for the motion-picture, television, and sound recording industries.

Daniel W. Castles has been appointed general manager of the Television Division of Tektronix, Inc., Beaverton, Ore. Castles has been with the company for ten years, serving first as controller in the

Television Division and then as manager for the TV Signal Processing Unit. Castles succeeds Larry Kaplan, who moves to Tektronix's Information Display Group as vice-president and general manager.

Edward Efron has been appointed vice-president of engineering and MAPO (Manufacturing and Advanced Products Organization), Walt Disney Imagineering. Efron joins Walt Disney from Control Business Systems, where he was vice-president and general manager of the company's worldwide computer operations. He has also held senior executive positions at Color Systems Technology, Inc., and IBM. In his new position, Efron will be responsible for all engineering, MAPO manufacturing, and research and development for



Walt Disney Imagineering, which designs and produces theme parks and leisure ventures for the parent Walt Disney Co.

Doyle Thompson has been named vice-president of engineering for The Weather Channel. He had been director of engineering since 1982. Thompson is credited with building the first live television station in North Carolina, WFMY-TV. The Weather Channel is a cable network in Atlanta, Ga., that provides international, national, and local weather information over affiliated cable systems 24 hours a day.

William Pay, former Secretary of the British Kinematograph, Sound and Television Society (BKSTS), has joined Quigley Publishing Co. as U.K. manager. Quigley, with headquarters in New York City, is the publisher of *Television and Video Almanac* and *Motion Picture Almanac*.

Obituaries

Reid H. Ray, Life Fellow and former President (1963-64) of the SMPTE, died on January 24, 1988, in Tucson, Ariz. He was 86 years old.

Ray was born on October 21, 1901, in Greenville, Ill. He grew up in Lincoln, Nebr., then moved with his family to Rock Island, Ill. During his boyhood, Reid Ray had a serious interest in motion pictures; by high-school age, he had purchased discarded 35mm theater equipment and was showing movies in his family's basement.

Ray entered the University of Iowa in 1919. At that time, Iowa was one of only two colleges in the country considering using films for football instruction. In his sophomore year, Ray was asked by Iowa's photographic department to photograph the team's games; by the time he graduated in 1923, the young filmmaker had photographed and edited more than 28 football games, plus many track and field events.

Ray received a B.S. degree in journalism from Iowa, then went on to produce films and newsreels. In 1926, he became president of Ray-Bell Films, Inc., St. Paul, Minn., and from 1947 to 1968 he was president of Reid Ray Film Industries, Inc., in St. Paul. During his lifetime, he produced, directed, or supervised more than 1000 motion pictures, as well as many training films for the U.S. Navy and U.S. Office of Education.

In 1969, Ray accepted a professorship

at the Rochester Institute of Technology's College of Photographic Arts and Sciences. He developed an outstanding filmmaking/television department in the college and was involved in the technical design of a motion-picture sound stage and a television control room.

Ray made many significant contributions to motion-picture engineering practice, among them the commercial adaptation of the bipack Cinecolor-Multicolor and Monopack color processes. He retired in 1975.

Ray joined the Society of Motion Picture Engineers (SMPE) in the 1930s and became an SMPTE Fellow in 1959. He



Reid H. Ray (1967)

served many SMPTE offices leading up to his election as president in 1963. He was also president of the Association of Cinema Laboratories (1959) and Council of International Nontheatrical Events (two terms: 1968-69 and 1969-70). Ray contributed numerous articles to the *Journal* and was the recipient of the 1978 SMPTE Eastman Kodak Gold Medal Award.

Reid H. Ray is survived by his wife, Roxanne, of Tucson, Ariz.

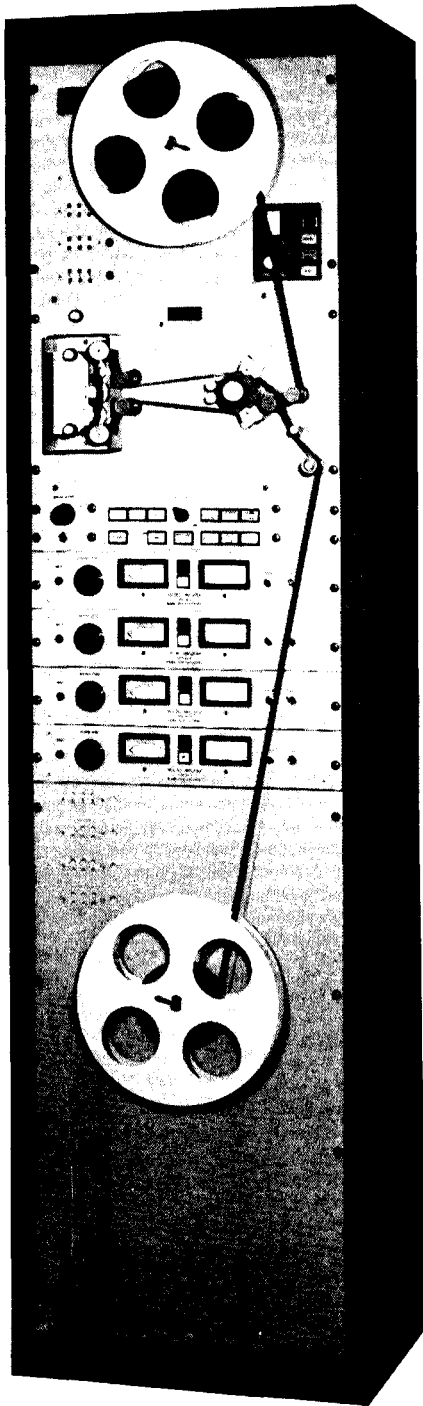
William S. Halstead

William S. Halstead, a Life Fellow of the SMPTE and a pioneer in the development of FM stereophonic broadcasting, died on July 7, 1987, in Woodland Hills, Calif. He was 84 years old.

Born on April 17, 1903, Halstead studied physics at Haverford College. By the time he received a B.S. degree in 1927, Halstead had already attained national recognition for engineering achievement. He and his fellow students at Haverford built and operated the college's radio station, WABQ, which was ranked among the 50 best radio stations in the U.S.

Between 1929 and 1931, Halstead worked as an engineer for the Chief Signal Officer in Washington, D.C. He then entered into private development work in the application of radio systems to highway and railroad traffic control. It was during this time that Halstead was granted a U.S. patent for a motion-picture sound localizing system, using photographic control tracks for positioning sound in the left, center, and right sections of a screen. It was one of more than 80 U.S. and foreign patents that Halstead received.

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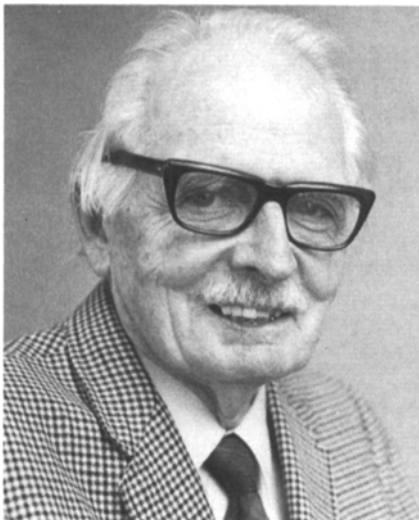
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William S. Halstead

velopment Corp., New York City, Halstead developed FM stereophonic broadcasting incorporating the multiplex technique.

During the early 1950s, while a research associate at Crosby Laboratories of Hicksville, N.Y., Halstead assisted in the planning of Nippon TV Network Corp. (NTV), the first commercial television network in the Far East. He was invited by the government of Turkey to analyze the effectiveness of that country's telecommunications and broadcast facilities. Later he served as television systems-planning consultant to the governments of Jordan, Uganda, and Nigeria.

Halstead had always dreamed of a global communications network; he felt that improved communications between peoples of all nations would contribute to greater understanding and the preservation of world peace. Toward that end, he served as chairman of the Unitel International Foundation, a nonprofit organization devoted to developing support for an international communications satellite called UNISAT.

Halstead was the author of many technical papers on electronic telecommunications, several of which were published in the *SMPTE Journal*. In 1959, he was awarded the Popov Medallion for his contributions in that field. Halstead was a Fellow and Life Member of the Audio Engineering Society, a Fellow of the Radio Club of America, and a Life Senior Member of the Institute of Electrical and Electronics Engineers.

George H. Brown

Dr. George H. Brown, the former engineering executive at RCA Corp. who spearheaded that company's effort to develop the technology for color television, died on December 11, 1987, in Princeton, N.J. He was 79.

Brown joined the Radio Corp. of America in 1933. During his early years with the company, he was involved in the design of transmitting antennas and filter devices. Later Brown advanced to the position of executive vice-president, where he was responsible for RCA's research, engineering, patenting, and licensing operations. He retired from that position and from the company's board of directors in 1972.

Dr. Brown was a member of the National Academy of Engineering, and a Fellow of the Radio Club of America, Institute of Electrical and Electronics Engineers, and Royal Television Society, Great Britain. He was a holder of 80 U.S. patents and wrote more than 100 technical papers. His autobiography, *And Part of Which I Was*, was published in 1982.

Among his many industry honors and awards was the 1986 Engineering Achievement Award from the National Association of Broadcasters. Brown spoke before the SMPTE membership at the 128th Technical Conference in New York City.

Dr. Brown's survivors include his wife, Elizabeth, and two sons.

Joseph F. Fisher

Joseph F. Fisher, a Life Member of the SMPTE, died on February 18, 1988, in Wynnewood, Pa. He was 76 years old. A longtime employee of Philco, Fisher was the designer of the largest television system used at the NASA Manned Space Flight Control Center.

Born in Philadelphia, Fisher studied electrical engineering at Drexel University. He worked for Philco, Philco-Ford, Ford Aerospace and Communications Co., and Ford Electronics between 1929 to 1976. It was at Philco-Ford's Houston operation where Fisher, from 1963 to 1965, designed the television system for NASA. It is used by flight controllers and support personnel for all of the U.S. manned space flights.

Fisher was a pioneer in the development of black-and-white and color television. He served on numerous technical committees responsible for developing standards for color television, and administered a design study of a television system for the U.S. Joint Chiefs of Staff.

Joseph Fisher was granted five U.S. patents for innovative work in radio and television communications systems, wrote 15 technical publications, and presented numerous technical papers. He was a Life Fellow of the Institute of Electrical and Electronics Engineers (IEEE), which honored him in 1976 for his important pioneering contributions and leadership in the industry.

Surviving are his wife, Josephine; a daughter, Anne Evans; and a son-in-law, Nick.

William Szabo

William Szabo, a Life Member of the SMPTE, died on December 29, 1987, at the age of 70.

Szabo was born on May 1, 1917. He attended the City College of New York, earning degrees in social science, economics, and electrical engineering. Szabo was general manager for the Dubbing Co. and for Allentown Record Co., sales engineer and manager of the Disc Division of W. L. Maxson Corp., and general manager of the Disc Division of Reeves Soundcraft Corp. As a vice-president for Reevesound Corp., he was responsible for designing the company's A/V facility.

In the early 1960s, Szabo formed Will Szabo Associates Ltd., an engineering consulting firm that specialized in planning and designing A/V facilities, studios, motion-picture auditoriums, and screening rooms. The firm also designed A/V facilities at exhibitions and fairs around the world.

Szabo, who was a registered professional engineer and also a Lieut. Colonel in the U.S. Air Force, had membership in the Audio Engineering Society and the Institute of Electrical and Electronics Engineers. His articles have been published in the *SMPTE Journal*.

William Szabo is survived by his wife, Grace Szabo.

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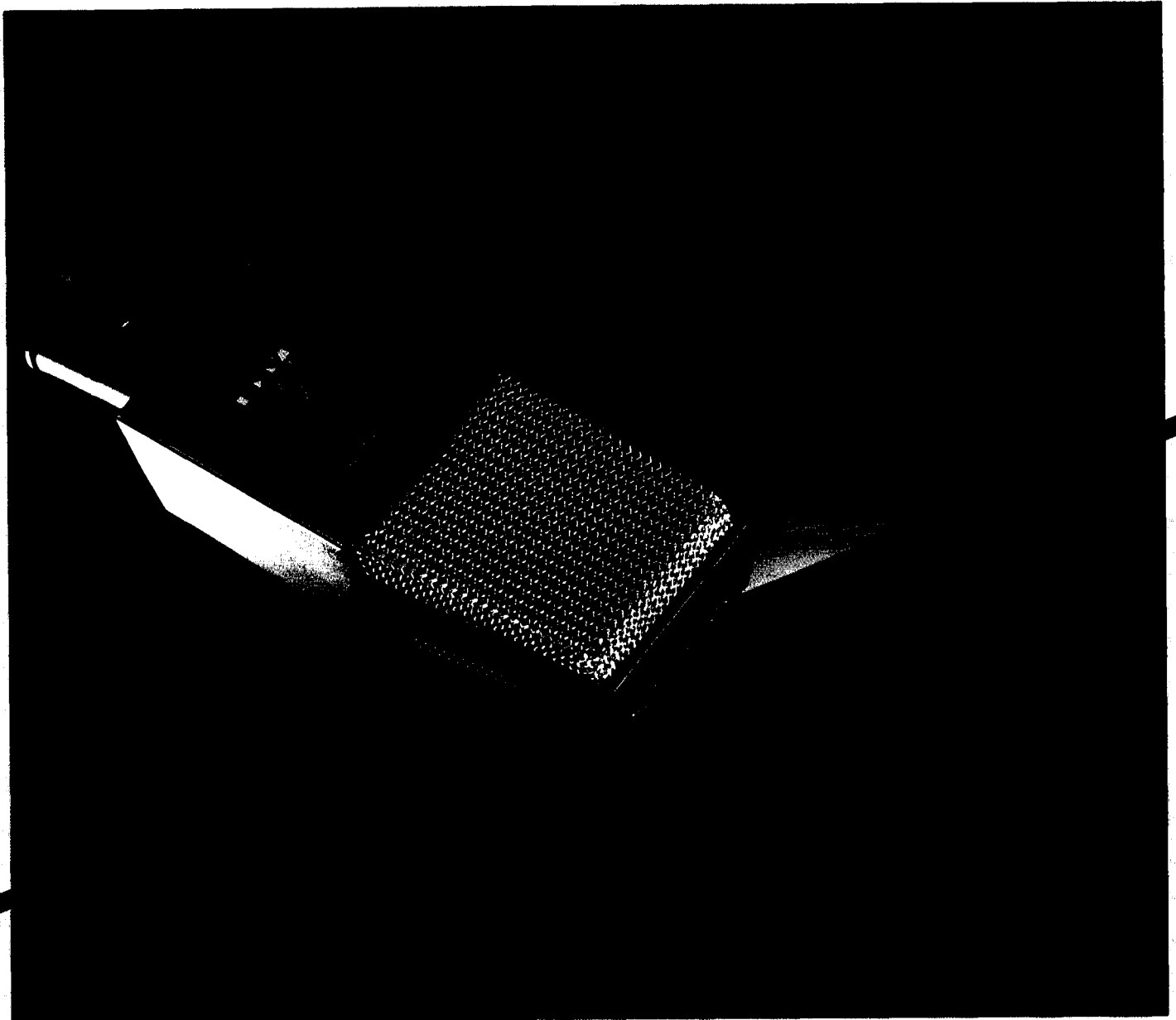
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