



SMPTE New York Section members and guests tour the Hard News Center, CBS's ambitious newsgathering and broadcast facility.

Imagineering Ltd., the first of five guest speakers in the program, introduced the subject. In his general overview, Montana, the manager of Imagineering's Studio Systems Division, explained the performance features and advantages of CCD broadcast cameras. He described interline-transfer, frame-transfer, and frame interline-transfer CCD designs and their unique applications. He concluded

by noting the technical challenges faced by CCD camera manufacturers, namely their need to eliminate picture artifacts and to improve resolution and signal-to-noise performance.

Phil Godfrey of Ikegami U.S. presented two of his company's cameras, the HL-379A and CCD-770. The former utilizes an interline-transfer CCD, and the CCD-770 is developed with an MOS imager

device. Godfrey, who directs Ikegami's engineering and development operations, said at the end of his presentation that CCDs would eventually replace tubes.

The third speaker was Doug Spears, representing Sony of Canada Ltd. Spears outlined some of the improvements that Sony has made in the BVP-50. The camera features an electronic shutter and a newly developed frame-interline transfer mechanism that virtually eliminates vertical streaking.

Frank Coleman of BTS described his company's new LDK-90, an ENG camera that uses full-frame transfer with a mechanical shutter. He talked about the benefits of shuttering as well as the ergonomic design of the camera body.

Peter Conner, manager of Professional and Broadcast Products, Hitachi Denshi Ltd., closed the program. He discussed how CCD camera picture resolution can be improved and aliasing minimized by spatial offset methods. Conner stated, however, that improvements in the design, engineering, and manufacture of tubes should keep the tube camera in the studio for several years to come. Following Conner's presentation, the five speakers answered questions from meeting attendees and from viewers at the satellite receive sites. — Fred Lemmin (Secretary/Treasurer), PFA Motion Picture and Video Laboratories, 330 Adelaide St. W., Toronto, Ont. M5V 1R4, Canada.

News

Chicago Section to Hold All-Day Meeting

The SMPTE Chicago Section will hold its 12th annual all-day meeting on Saturday, May 14, 1988. The site is the Eastman Kodak Co. in Oak Brook, Ill. Presentations will be given on center-track time code, computer-aided design, non-linear editing, test signal measurements, advanced audio finishing, and the MIDI/SMPTE interface. The meeting will also include a luncheon and special keynote address. Registration begins at 8:00 a.m.

For additional information on the meeting, contact Jack Behrend, Behrend's/Cyclops Productions, 219 W. Carpenter Ave., Chicago, IL 60607, tel. (312) 243-8074; or Donald W. Henderson, Eastman Kodak Co., 1901 W. 22nd St., Oak Brook, IL 60521, tel. (812) 654-5335.

SMPTE-Sponsored Engineering Courses Slated for May

The Univ. of Southern California and Pasadena City College, in cooperation

with the SMPTE, will conduct engineering short courses for students and working professionals.

The course at the Univ. of Southern California, named Sound Mixing and Recording in the Production Environment, will be held on Saturday, May 14, and Sunday, May 15, 1988, in USC's Norris Hall. Designed for the working professional and the graduating student, the workshop will cover a range of topics, including electronic acoustics, synchronization, the impact of sound on post-production equipment, and transfers. Presenters will include specialists in the sound mixing and recording industry. Ray Dolby will give the keynote speech.

The cost of the course is \$75.00. For additional information, please call the university at (213) 743-7469.

Graduating film and video engineering students now facing the job market will find the course at Pasadena City College very beneficial. Getting Started in Film and Video, to be offered on Saturday, May 7, 1988, in the college's Forum, will equip the student with many important

job-search techniques and skills. Personnel consultants and human resources specialists will discuss everything related to the job-search campaign: preparing for a career, writing the resume, winning job offers. The workshop will include a panel discussion.

The course fee is \$15.00. For additional information, please call Pasadena City College at (818) 578-7216.

The Institute of Electrical and Electronics Engineers, Inc., has announced a meeting on professional certification programs. The meeting, to be held on June 16, 1988, at the New York City Technical College in Brooklyn, will include presentations by representatives from the Society of Broadcast Engineers, National Association of Business and Educational Radio, and National Association of Radio and Telecommunications Engineers. Handouts, membership information, and certification applications will be available. The meeting will begin at 6:30 p.m., preceded by refreshments at 5:30 p.m. For further information, call Mike Hayden at (212) 246-2350, Ext. 278.

The CBS Television Network, beginning this fall, will broadcast all its programs in stereo, it was announced recently by Thomas F. Leahy, president of the net-

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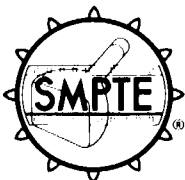


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work. This marks a major expansion of stereo service inaugurated by the network in 1986. In the past three years, CBS has transmitted selected programs in stereo, including the miniseries *If Tomorrow Comes*, the primetime series "The Twilight Zone,"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

In 1950, as president of Multiplex De-