

Industry News & Educational Activities



Roland G. F. Chase and Harry Manley, both former Presidents of BKSTS (and members of the SMPTE), in conversation with Donald Breidt, SMPTE Executive Director, and Robert M. Smith, SMPTE President.



Roland Zavada, SMPTE Engineering Vice-President, is greeted by Lord Willis of Chislehurst who, in association with the BKSTS, organized a reception in the Cholmondeley Room at the House of Lords.



Frederick M. Remley, SMPTE Engineering Vice-President, accepting a plaque from the National Academy of Television Arts and Sciences in recognition of the SMPTE Type C videotape format.

SMPTE Honored by Television Academy

The SMPTE is the recipient of a plaque from the National Academy of Television Arts and Sciences honoring the Society "for the standards work associated with the compatible one-inch Type C videotape format." The plaque was presented during ceremonies held 17 September in New York City. SMPTE Vice-President for Television Affairs Frederick M. Remley, Jr., of the University of Michigan, accepted the award for the SMPTE. In his acceptance address to the audience, Remley recognized members of the SMPTE committees and the companies who were responsible for accomplishing the industry-wide agreement of Type C videotape standards. The plaque was presented to Remley by Robert Wussler, Chairman of the Board of the Academy.

Also honored by the Academy for their roles in Type C development were Ampex Corp. and Sony Video Products Co., each of whom was presented with an Academy statuette. Donald V. Kleffman, Vice-President and General Manager of the Audio-Video Systems Division, accepted the Emmy for Ampex. Masahiko Morizono, Managing Director of the Video Products Division, accepted the Emmy for Sony. This was the fourth Emmy award for Ampex and the third for Sony.

While helical scan video technology dates back to the early 1960s, helical recorders that produce broadcast quality pictures did not appear on the market until 1976. That year, Ampex introduced the VPR-1 helical VTR and Sony introduced the BVH-1000. The two systems were similar but were not compatible. The SMPTE then formed its Committee on Non-Segmented Helical Recording and, working with representatives of Ampex, Sony, and other interested parties, reached agreement on the Type C format in December 1977. The new format set mechanical and electrical specifications for non-segmented helical VTRs and provided for complete interchangeability between Type C machines.

Peggy Sullivan - 25 Years

Peggy Sullivan (Mrs. Paul Murnane) was the guest of honor at a party held in SMPTE Headquarters on 7 September, the occasion being her 25th year with the SMPTE. It was a joyous party attended by the Headquarters staff, SMPTE President Robert M. Smith, and Engineering Vice-President Roland J. Zavada. The high point of the gathering was

Film 79

Film 79, the sixth Biennial International Film and Television Technology Conference and Exhibition organized by the British Kinematograph, Sound and Television Society, was held 2-6 July 1979 at the Royal Lancaster Hotel in London. The meeting opened with a welcoming address by BKSTS President R. F. Ebbetts, followed by Kenneth Mason's presentation of "The Film Story: Yesterday, Today and Tomorrow" (See *Journal*, p. 738, Oct. 1979). Stressing that it is an outright fallacy to think that the future of film and videotape is an "either-or" proposition, he noted that there are certain applications where one or the other has clear-cut superiority. This illuminating and thought-provoking presentation was illustrated by more than 100 slides.

Mason's presentation was followed by a paper by Peter Rainger and Harold G. Anstey entitled "Trends in Television Production Techniques."

The following session, The Industry — Today's Techniques, organized by Session Chairman David Samuelson, covered a wide range of topics related to the production, distribution, and exhibition of motion-picture films for both cinema and television release.

Session 3 on Film Technology was organized by session Chairman, A. J. Iles. The program reflected the diversity and continuous quest for improvement in all aspects of film-

making. In the film origination field, papers were presented describing a new camera, a new negative film, and time code editing. Papers on process work included the latest techniques on optical trick cinematography, video transfers to film, and time code editing. Concern for quality standards was shown by three papers: one on film exposure, the second on the psychological basis of evaluation, and the third on image quality transfer through film and television.

Session 4 was on Television Technology. The Session Chairmen were C. B. B. Wood and G. B. Townsend. The Session Organizers were P. D. Manns and A. B. Palmer. Session 5 was on Sound Technology; Organizer and Chairman, Dennis Craven. Session 6 was on Education and Training, Session Chairmen, Iain Muspratt and Walter Kemp; Session 7, Audiovisual, Organizer and Chairman, George Jarrett; and Session 8, Laboratory Technology, Organizer and Chairman, Paul D. Read.

In addition to the Papers Program there was an Outside Visit Program giving delegates opportunities to visit studios, laboratories, television stations, equipment manufacturers, and other places of interest. There was also a Social Program which included receptions, screenings of recently released films, and other social events. A July 4th party honoring delegates from the U.S. was held at the Royal Garden Hotel, and the banquet was held 6 July at the London Hilton.



At the BKSTS Banquet guests of honor include SMPTE President Robert M. Smith (center), Kenneth M. Mason (far left), and SMPTE Executive Director Donald Breidt (second from right).



the presentation of a plaque reading: "A Certificate of Appreciation to Peggy Sullivan Murnane for her loyalty and dedication during twenty-five years of distinguished service," signed by President Robert M. Smith and Executive Director Donald F. Breidt.

Peggy joined the SMPTE staff on 9 September 1954 as Secretary to Staff Engineer Henry Kogel. She remained in the Engineering Department and is now National Standards Coordinator, assisting Alex E. Alden, Manager of Engineering Services.

Peggy is of Irish descent. Both her parents were born in County Kerry, Ireland, and St. Patrick's Day is duly honored by Peggy. Every year on 17 March, Peggy bakes huge loaves of Irish soda bread with which she regales the members of the staff. Over the years, there has been little if any absenteeism on St. Patrick's Day.

In the photograph above, President Smith is presenting the plaque to Peggy, with Zavada at the right.

AFI Director George Stevens, Jr., and actress Lillian Gish appeared this summer before a Congressional subcommittee chaired by Rep. Richardson Preyer to advocate increased funding to save historical newsreel material. Preyer's subcommittee, which has oversight of the National Archives and Records Service, heard Stevens declare that "the records of our first one hundred years of this country existed primarily on paper until this highly flammable and quite remarkable device called motion-picture film was invented. It seems that if the Congress could encourage, by way of appropriation, a direct financial application to the problem of preserving film, then we would do a great service to our country and to agencies which have the substantial responsibility of safeguarding and preserving this material." Stevens concluded that the preservation of the record of our life and history is predicated on sufficient funds being made available for the transfer of endangered film from nitrate stock to safety stock.

Gov. William G. Milliken signed an executive directive on 15 August, establishing a Film and Television Service Advisory Council in the Michigan Dept. of Commerce. The 11-member council will promote Michigan as a site for film, commercial, and television productions. In addition, the council will issue annual reports to the director of the Commerce Dept., William F. McLaughlin, on the economic impact of the state's efforts to attract film and television production. Robert J. Scott, a Detroit Free Press photographer, will direct the council's promotional efforts.

An **IR-100 award** for the development of the spectrum efficient network unit (SENU) in satellite communication has been conferred upon the Advanced Technology Laboratory of

the Westinghouse Defense and Electronic Systems Center, Baltimore, Md., in conjunction with the Defense Communications Agency, Reston, Va., and the U.S. Army Satellite Communications Agency, Fort Monmouth, N.J., by *Industrial Research Magazine*. The magazine, annual sponsor of the IR-100 award, judged SENU one of the 100 significant new technology advances in 1979.

Installed in the Earth Terminal Complex of the Strategic Defense Satellite Communication System, SENU can handle up to 15 independent channels simultaneously. It provides efficient utilization of channels by limiting the bandwidth access to the satellite, thereby increasing the number of usable channels available in earlier systems. SENU can be used in other existing satellite link systems.

Modern radiographic techniques are helping a University of Manchester research team gain new insights into ancient Egyptian culture, living conditions, and diseases. The unwrapping of a mummy, entombed at about the time of Moses, capped a five-year investigation which resulted in many dramatic findings.

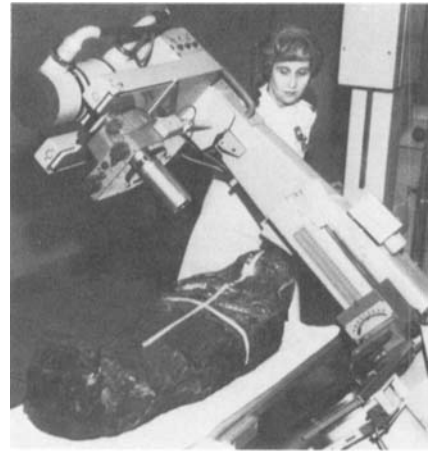
For the multi-disciplinary research effort, 17 human mummies in the Manchester Museum's Egyptology collection were examined with conventional radiographic and Mimer III orbiting equipment, used to produce tomographic cross-sections of bone and tissue as thin as two millimeters. An EMI-Scan unit was used for computerized tomography.

Radiologists utilize this equipment to pinpoint the exact location of pathological disorders by creating a series of tomographic "slices." The process works as follows: An x-ray tube is focused on a central point and moves in a predetermined arc. On the other side of the body, an intensifying screen and a sensitive film are simultaneously moved by the orbiting equipment in an identical arc in the opposite direction. The continuous exposure causes the screen to fluoresce, converting the x-ray energy to light and exposing the film. Because the film and x-ray tube move in tandem, all objects outside the purview of the selected plane are blurred.

In this instance, the orbiting equipment was linked to a television monitor, allowing the radiologists to decide the proper angles in which the selected planes could be imaged, without exposing any film. After the anatomical planes were marked, the Mimer III unit was used to produce permanent film images of much higher resolution than the preliminary video images. These techniques allowed the team to take a detailed look at the mummies' wrists, elbows, shoulders, disks, teeth, and other sections of bone which often show evidence of age, sex, dietary habits, disease processes, skeletal abnormalities, and causes of death.

One interesting finding related to paleopathology (the study of ancient diseases) was that 10 of the 17 mummies had abnormally dense disks. One known cause of such disk density is a recessive congenital disease called alkaptonuria. However, if this disease was as rare in ancient times as it is today, it could not possibly account for this number of victims.

Another startling discovery involved a guinea worm which had burrowed beneath the skin tissue of the mummy which was to be unwrapped. It was the first documented evidence that this parasitic worm existed in the period in which Moses lived. When these



worms enter a human body, the male dies; but the female, which grows to a length of several feet, survives. Seeking water in which to lay her eggs, she crawls through the soft tissues beneath the skin. Eventually, her head emerges through the skin of the foot. At this stage, the parasite is extirpated by slowly being wound on a stick, a few turns each day, until totally removed from the body.

The mummy selected for unwrapping was chosen on the basis of appearance. It was the least attractive one in the collection, but in some ways the most interesting. Radiographs revealed that the legs had been amputated. During the unwrapping, evidence was uncovered suggesting that the mummy had been damaged by water. Radiocarbon dating techniques also indicated that the content of the wrappings vary in age by 1000 years. The amputations appear to have occurred after death, with an embalmer's restoration providing the mummy with carefully molded clay legs, feet, and toes. It was also given a false phallus.

These inquiries led to the theory that the tombs were flooded and the mummy damaged, perhaps by alligators, which made the post-mortem amputation, prosthetics, and rewrapping necessary 1000 years after burial. More importantly, it reflected the seemingly undiminished importance that the ancient civilization placed on caring for the dead.

Centro de Grabacion, a new multi-million-dollar recording complex in Mexico City designed by and for the Sociedad de Autores y Compositores de Mexico (SACMEX) is an important segment of a complete cultural center in Mexico City. An innovative architectural approach to the recording center simulates the depth of sound of a band shell or concert hall, optimizes seating arrangements for large orchestras, and permits the musical director to maintain good visual contact with all performing musicians. In addition to the recording center and a school of music and technology, SACMEX will eventually include three theaters, four movie houses, publishing houses, archives for printed music and records, and a large commercial building. Equipment in the recording center includes 21 Atlas Sound Model SB-36W mobile boom stands and 16 Model MS-12C general purpose floor stands.

The acquisition of VAMCO, Tulsa, Okla., by a new group of investors, was recently announced. VAMCO's new management includes Donald L. Maly, President, formerly an executive with Computer Image Corp., and Gene Sud-

duth, Vice President of Marketing, formerly with Ampex Corp. VAMCO manufactures and markets electronic products in the broadcast and closed-circuit television field and, according to the announcement, has pioneered electronic timers for quad VTRs, 1-in videotape machines, and 3/4-in helical scan machines. In the custom switcher area, it developed a microwave touch-tone control, on-card cross-point switching status, and reverse audio for talkback to point of origin.

The Los Angeles Community College District has ordered RCA equipment and installation services valued at more than \$1 million for a complete on-campus television studio at Los Angeles City College. The studio, consisting of two RCA TK-46 color cameras, a TK-28 telecine island, 1-in videotape recorders, as well as switching, audio, and monitoring systems, will be used for training students in all aspects of television program production and equipment operation and maintenance.

The American Film Institute has announced the election of **George Stevens, Jr.**, as Co-Chairman of the AFI Board of Trustees. Stevens, who has been Director of the AFI since its founding in 1967, will be spending more of his time on long-range planning and pursuing outside projects of particular interest to him. He will continue to serve as AFI Director until a replacement is found.

New members of the AFI Board of Trustees are Producers **Joseph E. Levine**, **Mace Neufeld**, and **Samuel Goldwyn, Jr.**; Film Professor **Jeanine Basinger**; Associated Film Enterprises owner **Steve Brody**; and Fans of the AFI Chairman **Ina Ginsburg**. Re-elected to the Board were **Gordon Stulberg** and **David Brown**.

Howard LaZare was appointed Vice-President, Chief Engineer of Consolidated Film Industries, 959 Seward St., Hollywood, CA 90038. LaZare will assume full responsibility for the administration of the Engineering Dept., directing and coordinating all of its functions. LaZare replaces **Eddie Reichard** who assumes the position of Vice-President, Technical Planning, a new position that will be concerned with long-range technical and operational requirements, such as facilities planning, evaluation of production trends, and evaluation of long-term technical developments.

Joerg D. Agin has been appointed Marketing Director, Motion Picture and Audiovisual Products, Business Marketing Planning for Eastman Kodak Co. He has been with Eastman Kodak since 1967, his most recent post being that of Regional Sales Manager, Motion Picture and Audiovisual Markets Division, Pacific Northern Region in San Francisco.

John H. Maynard retired from Eastman Kodak Co. on 1 July 1979 as Regional Director in the New York City Region in the United States and Canadian Photographic Division, a post he had held since 1976. He had been with Eastman Kodak since 1936 when he joined the cine processing laboratory in Hollywood, where he held various supervisory positions. In 1963 he was appointed Sales Manager, Midwestern Region for motion-picture products, and in 1970 he was appointed Regional Sales Manager, Motion-Picture and Audiovisual Markets Division.

Books, Booklets, Brochures

A new publication, entitled *Watch, Television in the Eighties*, will be a four-color magazine covering the creation and distribution of programming. The magazine will emphasize cohesive, in-depth analyses of all facets of programming for broadcast, cable, satellite, videocassette and videodisk, over-the-air subscription television (STV), and multipoint distribution outlets. The magazine, published by Titsch Publishing, Inc., 1139 Delaware St., Box 4305, Denver, CO 80204, will premiere in November, and regular monthly issues will be published beginning in February 1980.

A quarterly professional journal entitled *Media History Digest* is scheduled for early 1980 publication by a group of Philadelphia journalists and journalism professors. It will deal with the heritage of both print and electronic media. Each issue of the two-color quarterly will contain at least one investigative article, one or more human interest stories, and historical articles dealing with various functions of publishing and broadcasting, such as newsgathering, feature production, editorial writing, book reviews, guest editorials, short subjects, and biographical sketches on great editors, writers, and broadcasters.

The Waves of Change: A Technico-Economic Analysis of the Data Processing Industry by Charles P. Lecht (194 pp. paperback) contains detailed discussions of such topics as future developments in hardware and software; probable competitive positions of manufacturers in the future; the impact of the burgeoning micro-mini families of computers; and the problems faced by corporate management in assessing various methodologies and systems. The book is available from the publisher, McGraw-Hill Book Co., 1221 Ave. of the Americas, New York, NY 10020, at a price of \$9.95.

A Microprocessor Course by Mark E. Fohl (218 pp. + 76 illus.) is available from McGraw-Hill Book Co., 1221 Ave. of the Americas, New York, NY 10020. Some of the topics examined are binary number operations, basic digital logic, adder and arithmetic logic, central processing, internal data handling, memory concepts and devices, basic I/O operations and interfaces, software development methods and tools, and trends in the computing field. Tables, charts, and sample problems are included to amplify and clarify the various discussions. The price is \$15.00.

Lipton on Filmmaking, by Lenny Lipton, a 223-page handbook on super-8 filmmaking techniques, is available from Fireside Books, Simon and Schuster Bldg., 1230 Ave. of the Americas, New York, NY 10020. Topics include Polavision; comparisons of super 8 and videotape; 3-D movies; and the future of super-8 filmmaking. The book is often interspersed with informal effusions whose merits rest on the reader's subjective values. The price is \$7.95.

Safe Handling of Photographic Chemicals, a 32-page guide, is available from Eastman Kodak Co., IPD Customer Services, 343 State St., Rochester, NY 14650, at a price of \$4.50. Subjects range from airborne contaminants to contact dermatitis. Extensive advice is given on ventilation in photographic workrooms and on chemical storage. Other portions cover cleanup

of chemical spills, protective equipment, first aid, and the use of photographic materials in the home.

Esselte Video, Inc., 600 Madison Ave., New York, NY 10022, is distributing a fully revised, second edition of *The Video Guide*, by Charles Bensinger. The guide contains 15 chapters ranging from the history of television to available 1/2- and 3/4-in video systems and accessories. *The Video Guide* contains 400 illustrations, photographs, and charts and is priced at \$14.95.

Copyright It Yourself, Ed. E. G. Hirsch, a 464-page, 8 1/2 x 11 book, is available from the publishers, Whitehall Co., 1200 S. Willis Ave., Wheeling, IL 60090, at a price of \$15 for the paperback edition. The book includes the new copyright law (PL 94-553); official regulations and circulars of the Copyright Office, Library of Congress; samples of all copyright forms now in use with filled-out examples of the ones used most; and a special perforated order form section to get official copyright application forms free from the Copyright Office, Library of Congress.

Handbook of Electronic Formulas, Symbols and Definitions by John R. Brand is available from Van Nostrand Reinhold, 135 W. 50th St., New York, NY 10020. The book covers passive circuits including series circuit formulas and parallel and complex circuit formulas. Comprehensive information is presented on susceptance, bandwidth, capacitance, voltage, frequency, conductance, and much more. The 368-page handbook is priced at \$15.95.

E.B.U. Review - Technical (No. 175) has devoted its June issue to Eurovision. Among the articles are the following: Birth and Growth of Eurovision, Technical Progress and the Growth of Eurovision, Quality Control of the Eurovision Permanent Vision Network; The New Eurovision Control Centre. In addition, the issue contains a reference table of 22 pages entitled, "Twenty-Five Years of Eurovision through the Pages of the E.B.U. Review - Technical."

Kodak Services for LPOOC Accredited Press Photographers at the 1980 Winter Olympic Games is available from Eastman Kodak Co., Corporate Information, 343 State St., Rochester, NY 14650. The 20-page, multilingual brochure details Kodak film processing services that will be provided without charge to professional photographers accredited by the LPOOC to cover the event.

A product data sheet (6-694) describing the Model 2820C environment resistant, self-contained, television camera has been released by Cohu, Inc., Electronics Div., Box 623, San Diego, CA 92112. The Model 2820C features unattended, continuous duty, automatic operation; 40,000 to 1 light range; internal camera heaters allowing operation down to -40°C; and underwater operation in depths of 200 ft.

A short form catalog describing Cohu's current line of broadcast television products is available from Cohu, Inc., Electronics Div., Box 623, San Diego, CA 92112. The broadcast television product line contains the new model 1550B telecine system, model 8500 color encoder, DM series monochrome monitors, and model 2810B matting camera. The 8-page catalog also includes processing and accessory equipment.