

Industry News & Educational Activities

Academy Awards

The Academy of Motion Picture Arts and Sciences presented two Class II Scientific/Technical Awards and three Class III Awards at ceremonies held 24 March.

Class II Awards

Consolidated Film Industries and the *Barneby-Cheney Company* for the development of a system for the recovery of film-cleaning solvent vapors in a motion-picture laboratory. The system recovers exhaust vapors and makes them completely reusable. The process also prevents contaminants from being discharged into the atmosphere and makes the ultrasonic cleaning process economically feasible.

William L. Graham, Manfred G. Michelson, Geoffrey F. Norman and *Siegfried Seibert* of Technicolor for the development and engineering of a Continuous, High-Speed, Color Motion-Picture Printing System. The Technicolor high-speed continuous printer is capable of printing 35mm color positive film at 1000 ft/min utilizing a microcomputer to supply printer-light and frame-cuing information. Innovative 2000/ft elevators are used for the picture and sound negatives which are continuously cleaned during the operation.

Class III Awards

Photo Research Division of Kollmorgen Corp. for the engineering and manufacture of the Spectra TriColor Meter. The Kollmorgen TriColor Meter is employed to measure the color temperature of light sources. It is a precise tool for the cinematographer to determine correct filters for desired color balance in motion-picture photography.

Carl Zeiss Company for the design and development of a series of super-speed lenses for motion-picture photography. The Zeiss super-speed series of lenses provide superior image resolution by reduction of lens aberrations to improve motion-picture photography of night exteriors.

Hiroshi Suzukawa of Canon and *Wilton R. Holm* of the AMTP Motion Picture and Television Research Center for the design and development of a series of aspheric super-speed lenses for motion-picture photography. The Canon aspheric super-speed series of lenses provide superior image resolution by reduction of lens aberrations to improve motion-picture photography of night exteriors.

Panavision Inc. for the adaptation of single-lens, reflex-type high-speed lenses to the Panavision motion-picture cameras. The adaptation of a series of high-speed, still-camera lenses to the Panavision cameras provides the capability of improved motion-picture photography of night exteriors.

Fred Bartsher of Kollmorgen Corp. for the design and development of a single-lens magnifier for motion-picture projection lenses. The magnifier is a supplementary lens which may be attached to a projector lens and which provides variable adjustment to accommodate various motion-picture formats.

An internationally-oriented television research foundation has been established in Hamburg by the German Physicist, Eduard Rhein (the Eduard Rhein Foundation). The Foundation will award an annual prize to scientists and technicians who have achieved outstanding results in research aimed at the further development of improved picture quality, particularly in the area of slimline design of television screens. An Advisory Council, composed of internationally known scientists headed by Prof. Dr. Walter Bruch will choose each year's winner. Other members of the Advisory Council are: James Hillier (RCA David Sarnoff Research Center, U.S.A.); Joseph Polonsky (Thomson-CSF, France); F. Willem de Vrijer, (N. V. Philips, Holland); and Karl Tetzner (Editor of *Funkschau*, Munich, Germany). Further information is available from Board of Governors of the Eduard Rhein Foundation, Klöpperstieg 3, 2000 Hamburg 67, Federal Republic of Germany.

The Olympics Radio and Television Organization of the Canadian Broadcasting Corp. closed 31 March having spent about \$7.4 million less than originally budgeted, it was announced by Executive Vice-President, Pierre DesRoches. He explained that such results could not have been achieved had it not been for the effective role played by ORTO, headed by Marcel Deschamps and by the Corporate Olympic Committee (COC) composed of senior CBC executives. Chairman of the committee was Alphonse Ouimet, former President of the Corporation and now Chairman of the Board of Directors of Telesat Canada.

ORTO was established after COJO (Organizing Committee of the Olympic Games) approached CBC in 1973 to set up a special division to act as host for Canada and the many nations needing television and radio coverage during the Games. ORTO, in turn, supplied all radio and television services and equipment, including sound and picture, for Canadian and world-wide coverage. A film of ORTO's story was made and a copy of the ORTO Final Report was made available to newsmen. More than 3000 broadcasters assigned to Montreal transmitted coverage to an audience numbering more than one billion.

Warner Cable Corp., 75 Rockefeller Plaza, New York, NY 10019, has announced development of a new cable television service involving multichannel programming and two-way communications between subscriber homes and computer-equipped studio facilities. The equipment includes a computerized, interactive cable communications system including a home console (terminal device) to be connected to the subscriber's television set. By pressing buttons on the console, subscribers will be able to receive 30 channels of video and other information, select programs, play interactive games, take tests, instantly register their opinions and actually participate at home in television programs and events. The system was developed by Warner

engineers in collaboration with Pioneer Electronic Corp. of Tokyo.

Image Devices Inc., 1825 N.E. 149 St., Miami, FL 33185, has been appointed sole United States importer, distributor and servicer of the entire line of Perfectone electronic products manufactured in Switzerland. The products include crystal motors for Eclair NPR and 35 Arriflex cameras, professional audio mixers, and sound-dubbing equipment.

Instrumentation Marketing Corp., 820 S. Mariposa St., Burbank, CA 91506, has been appointed exclusive international distributor of the Miletus motion-picture Film Data Recording Systems, according to a recent announcement. The systems feature CMOS technology that provides a low-powered (300 mW), virtually noise-free, miniaturized and self-contained unit that can be installed on 16mm, 35mm or 70mm cameras or can be used remotely. LED 7-segment numerals or BCD are contact-printed on the frame of the film.

United Audio Visual Corp., 1730 Mojave Rd., Las Vegas, NE 89104, has been appointed sole United States distributor for the ELF Digital Interlock System. The system is designed to provide precise interlock between any number and make projectors and any tape recorder for lip-sync recording and playback.

Fuji Photo Film U.S.A., Inc., 350 Fifth Ave., New York, NY 10001, has formed a new Magnetic Tape Division to market all of Fuji's magnetic tape products, both audio and video. John Dale, formerly manager of the Fuji Videotape division, has been named General Manager of the new division which was formed by combining the existing Audiotape and Videotape divisions into a new unit. Fuji Photo Film U.S.A. is the American marketing arm of Fuji Photo Film Ltd. in Tokyo.

American Broadcasting Co.'s Broadcast Operations and Engineering Division has put into full operation a \$1 million post-production facility equipped with three Ampex AVR-3 recorders/reproducers, according to a recent announcement. In addition to the new tape machines, the facility is equipped with the Ampex RA-4000 automated programmer/editor, an MM-1200 multichannel audio recorder and custom Grass Valley Group audio/video switching equipment designed to ABC specifications. Editors in the control room can program up to five quad videotape recorders, one slow-motion recorder and preset audio/video switcher transitions.

Photo Research, a division of Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91505, has appointed Pioneer Marketing Corp. as its exclusive world-wide distributor of the Spectra Film Gate Photometer and accessories. Pioneer Marketing Corp. manufactures and markets products for the laboratory and optical effects companies including PMA liquid gates and the PMA Focatron as well as a variety of other laboratory and optical effects equipment.

Camera Mart, Inc., 456 W. 55 St., New York, NY 10019, has been appointed the exclusive East Coast distributor for the Perf-Fix line of equipment and supplies, according to a recent announcement. Perf-Fix, a method of repairing worn or broken film, uses a special non-oozing, self-adhesive polyester tape that leaves picture and sound continuity intact.

William G. Dilley, founder of Spectra Sonics, 770 Wall Ave., Ogden, UT 84404, is the recipient of the Distinguished Engineering Alumnus Award of University of Colorado College of Engineering and Applied Science—the highest honor the College can bestow upon an alumnus. Dilley, who played a creative role in the American space vehicle development, founded Spectra Sonics for the manufacture of advanced electronic equipment. The firm designs and manufactures sound reinforcement equipment, recording studio equipment and electronic apparatus for testing and research.

Frank Reinking has been appointed Vice-President and General Manager of PSI Film Laboratory, Inc., 3011 Diamond Park Dr., Dallas, TX 75247, it was announced by Robert Redd, President. Reinking was with Eastman Kodak for about 20 years, most recently as Kodak's Southwest Region technical liaison with professional motion-picture customers. In 1969 he received a NASA Apollo Achievement Award for his assistance with the motion-picture photography involved in the Apollo 11 Moon landing in July 1969. PSI is a subsidiary of Tracy-Locke Company, a diversified communications company.

Eddy H. A. E. Zwaneveld has been appointed to the post of Laboratory Manager, Photo-Tech Laboratories, Hollywood Div., Stockdale Corp., 2211 West 2300 South, Salt Lake City, UT 84119. He was formerly Manager of Cineservice/Cambridge Film Lab, Melbourne, Australia, and earlier had served as Manager of the Cinecentrum-Cineco Film Laboratories of Hilversum/Amsterdam. He has also acted as a consultant, leading the team which designed and supervised the installation of Stockdale's

Photo-Tech Motion Picture and Custom Still Laboratories in Salt Lake City.

Robert N. Blair has been appointed National Marketing Manager for Hitachi Denshi America, Ltd., 58-25 Brooklyn-Queens Expwy., Woodside, NY 11377, it was announced by Y. Fujiyoshi, President. Blair was formerly Product Line Manager for Robert Bosch Corp.'s Fernseh Group. Earlier he had been associated with General Electric and with Philips.

Edmond G. Dyett, Jr. has been elected Executive Vice-President and a member of the Board of Directors of Super8 Sound, Inc., 95 Harvey St., Cambridge, MA 02140, it was recently announced by Robert O. Doyle, Super8 President. Dyett, who joined Super8 Sound in 1976, was previously Manager of Scott Instrument Laboratories.

Books, Booklets and Brochures

The **TF 2370 Spectrum Analyzer** and other instruments are described and illustrated in color in a short form catalog available from Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. Features of the TF2370 include frequency cover from 30 Hz to 110 MHz; 100 dB displayed range; 0.1 dB and 5 Hz resolution; digital storage of spectral information; built-in sweep generator; and many other features.

Patching and switching equipment and components are listed and illustrated in a 48-page catalog available from Trompeter Electronics, Inc., 8936 Comanche Ave., Chatsworth, CA 91311. The items listed in the catalog are intended to provide standard system interface

patching and switching so that many end equipments available from other manufacturers could be interconnected with a minimum of engineering, space and costs.

The **Odeta Old Delft Transfer Analyzer** is described and illustrated in color in an 8-page brochure available from N.V. Optische Industrie, De Oude Delft, Delft, Holland. The device was designed to measure the performance of optical elements, complete systems, image transfer tubes, TV systems, fluorescent screens, etc. in terms of their Modulation Transfer Functions. Photographs of the Odeta and its components and a diagram showing how it operates are included.

Various types of electronic instruments are illustrated and described in a short form catalog available from Ballantine Laboratories, P.O. Box 97, Boonton, NJ 07005. Instruments shown in the catalog include portable oscilloscopes and recorders; RMS digital and analog voltmeters; wideband ac analog voltmeters and digital multimeters; ac/dc transfer standards calibration devices and sources; frequency counters and counter timers; digital panel meters and new instruments.

The **Vishay in-plant resistor** manufacturing facility, a system for manufacturing high-accuracy Bulk Metal® resistors is illustrated and described in a 4-page brochure available from Vishay Resistive Systems Group, 63 Lincoln Hwy., Malvern, PA 19355. The brochure notes that the equipment needed to set up a Vishay In-Plant Facility is minimal. Procedures and processes are designed for use by production line personnel with training time usually about four hours for a technician and less than two days for an inexperienced operator.



Dallas/Fort Worth, 2 Mar. — The meeting was held at Eastman Kodak's facilities in Dallas with an attendance of 29 members and guests. Frank Reinking of Eastman Kodak presented a very informative paper entitled "The New Eastman Kodak Ektachrome Video News Film Type 7250." The film can be used at very low light levels. It is a color reversal film primarily designed for news, nighttime sporting events and high-speed photography. It is a stock balanced for 3200 tungsten light with an ASA rating of 400 but it can be used with an ASA of 250 in daylight by using an 85B filter. Reinking explained that the stock could be pushed two or three stops to a 3200 ASA value when necessary but some loss in quality could be expected. The film was designed for direct projection; however, duplicates may be made using type 7399 print film processed in VNF-1 as used for the original. A screening presentation of the film stock was made showing many typical low light scenes including scenes at zero foot candles. The images in all cases were remarkable. During the question and answer period it was noted that this

stock should be considered not only for television newsgathering but also as a viable production stock. For this reason, Eastman offers it on spools for high-speed use and with or without magnetic stripe, in addition to the regular formats. This prompted many other questions on possible applications from the audience. — Paul F. Brown (Secretary-Treasurer), Southern Baptist Radio and TV Commission, 6350 W. Freeway, Fort Worth, TX 76116.

Detroit, 23 Mar. — The meeting was held at the University of Michigan's Dental School in Ann Arbor with an attendance of 35 members and guests. The host and principal speaker was Charles Wallace, Technical Manager of the Department of Educational Resources. Wallace gave an overview of the department, which consists of 40 technical and creative personnel dedicated to providing a learning opportunity to small groups of students enabling them to advance to their degree objectives at individual rates. The method is called the Pilot Program in Dentistry and is made possible by a highly spe-

cialized television production facility with special distribution and display systems. More than 800 titles have been produced in color and are available for playback over the school network.

Recording, editing and dubbing techniques and equipment were discussed by Walter Gembrowski, Chief Engineer. A large proportion of the program material consists of interoral videography. Problems involved with recording the procedures without interfering with the actual operations are solved by a boom/mirror/reflection lighting arrangement bracketed to a PC 70 camera with a 16:1 zoom lens; in some cases fiber optics are used. Close control of colorimetry is necessary because of the importance of tissue coloration to diagnosis. An LDH-1 fitted to a microscope, a film chain, a time base corrector and a 10-unit U-cassette dubbing system round out the equipment of this impressive facility.

Engineers Larry Manderville and Joe Raznik presented papers on the computer interface for switching, logging and scheduling. A Hazeltine computer terminal provides the information and display used to set up the 15 in-40 out routing switcher that makes the vast library of program material available to the students at their own time and pace. An auditorium fitted with color monitors, wireless headphones and an interpreter's booth provides a theater for the display of live or recorded operations with multilingual lecture capability.

Per Kjeldsen reviewed the methods used to produce the art and text visuals. Of particular interest was his technique of color burn-in on