



The 1966 American Film Festival organized by Educational Film Library Assn. (EFLA), 250 W. 57 St., New York, N.Y. 10019, will be held May 11-14 at the Biltmore Hotel in New York. Pre-Festival tours, conducted by New York Film Council and EFLA will be held May 10. Tour highlights will include a demonstration of color video tape at Reeves Sound Studio; a tour of Precision Film Laboratories and of the sound stages in the new MPO Videotronics building. Among the speakers will be Roger L. Stevens, Chairman of the National Foundation on the Arts and Humanities. The Blue Ribbon Award ceremonies will take place on May 13. Announcement of the votes of Festival juries will climax three days of competitive screenings of 16mm films and 35mm filmstrips in 44 subject categories.

Photography as a Tool for the Engineer is the subject of a two-day seminar to be held May 26-27 at the Marriott Twin Bridges Motel, Washington, D.C., under the auspices of the Washington, D.C., Chapter of the Society of Photographic Scientists and Engineers (SPSE). Purpose of the seminar is to present basic concepts of photographic science and engineering applications especially for the benefit of engineers in other fields who may need to use photography. General subject categories to be discussed include: Photographic Systems; Photographic Fundamentals; Materials and Processes; and Engineering Applications.

The 7th UNIATEC Congress and the 2d Interkamera Symposium will be held jointly June 13-17 in Prague, Czechoslovakia. Chairman of the Congress is František Pilát, Československý Film, Jindřichská 34, Praha 1, Czechoslovakia. Theme of the Congress will be Evolution and Working Conditions of Recording and Reproduction Equipment and the Preservation of Audiovisual Information. The working languages of the Congress are English, French, German and Russian. Papers and discussions will be interpreted simultaneously into all four working languages. Specific areas to be covered by papers and discussions are:

(1) Lighting equipment in film and TV studios and possibilities offered by new light sources.

(2) Conditions for recording and editing films for educational television; comparative advantages of 35mm, 16mm and 8mm films; recent modification of frame sizes and corresponding technical equipments.

(3) Present position of recorded photographic and magnetic sound in regard to practical conditions of distribution and projection.

(4) Methods of preservation of pictures transmitted by television; conditions for

the choice between photographic and magnetic recording and the various non-conventional methods.

(5) Comparison of the distribution of recorded pictures and sound by circulation of film copies and by wire or wireless transmission of modulated waves, both from the technical and economic points of view.

(6) Comparison of continuous and intermittent film feeding; performances and future development of mechanical parts of the taking, recording, printing and projection apparatus.

(7) Bases for establishing the criteria of the quality of picture and sound recording and reproduction; admissible tolerances on products, equipments and processing methods.

Filmed Data and Computers will be the subject of a seminar-in-depth to be held June 13-14 in Boston. The seminar will be held under the auspices of the Society of Photo-Optical Instrumentation Engineers (SPIE), P.O. Box 288, Redondo Beach, Calif. 90277. It will be co-sponsored by the U.S. Air Force Electronic Systems Division. Subject areas will include Computer Associated Densitometry and Microdensitometry; Computer Associated Comparators; Automated Film Scanning and Digitizing; Computer Controlled Film Readers; Real Time Editing of Computer Displayed Data; Hard Copy Reproduction From Computer Displays; On Line Analyst-Computer Interactions in Data Reduction; and Computer Generated Stereo Displays.

Underwater Photo-Optics is the subject of a seminar-in-depth to be held October 10-11 at the Miramar Hotel, Santa Barbara, Calif., under the auspices of the Point Mugu Chapter of the Society of Photo-Optical Instrumentation Engineers (SPIE). The seminar will be co-sponsored by the U.S. Naval Missile Center. (SPIE National Offices are located at 205 Avenue I, Redondo Beach, Calif. 90277.)

The seminar will be devoted to the fundamentals and the design of underwater optical systems and their application in science and industry. Choice of the subject of the seminar reflects a growing concern by science and engineering with the best means to approach the many opportunities and the many problems which confront man as he investigates our planet's "hydro-space." Subject areas to be discussed are expected to include: Underwater Physics; Underwater Vision; Illumination; Optical Design; Photographic and Video Systems; and Instrumentation Position/Orientation Control.

Seminar Chairman is Dr. Alexis Dember, U.S. Naval Missile Center, Box 61, Pt. Mugu, Calif. Co-Chairman is Wesley

R. Lambert and Technical Program Chairman is John A. Clemente.

The 12th Robert Flaherty Film Seminar will be held September 3-9 at Arden House, Harriman, N.Y. Announcement was made by International Film Seminars, Inc., 1125 Amsterdam Ave., New York, N.Y. 10025. At these seminars filmmakers from all over the world meet for a week of intensive viewing and discussing of films. Last year's 78 films were examined by 97 participants from three continents. Long and short films in 35mm or 16mm are shown. Although current work is featured, a few classics are included for added perspective.

An experimental Speech Recognition System that may lead to direct voice control of machines such as typewriters, telephones and computers has been developed by the Radio Corp. of America for the U.S. Air Force. The system is based on electronic circuits which are said to work functionally like living nerve cells. The Speech Recognition System identifies phonemes, i.e., variants of speech sound such as the "p" of "pin" and the "f" of "fin." Phonemes vary according to phonetic conditions (such as neighboring sounds, stress, intonation, etc.). The experimental recognition system identifies phonemes by abstracting their more salient features using circuits called "analog threshold logic elements" which operate functionally in a manner similar to neurons.

The machine presently recognizes 28 of the 40 phonemes in the English language. The key features abstracted from speech by the machine to identify phonemes are regions of increasing and decreasing energy. These frequency-energy relationships varying with time are largely independent of individual inflections and accents and thus enable the machine to identify a particular phoneme. In its present configuration, the equipment recognizes the initial consonant and the following vowel in a word such as "mad."

The Air Force is interested in the project because of the possibility that voice conversations may be transmitted from a spacecraft to Earth with a small fraction of the power presently required.

Tahoe Systems, a Nevada corporation with headquarters at 8762 No. Lake Blvd., Kings Beach, Calif. (Mailing address, P.O. Box 815, Kings Beach, Calif. 95719) is a new firm specializing in CATV systems and services, recently established by Lorin D. Grignon. Mr. Grignon, who is president of the new firm, stated that the idea for the project came to him in 1961 while vacationing in the Lake Tahoe region. The area seemed suitable for the installation

a portable
16/16 Interlock
for previews?

yes!

MODEL 2000 16/16



SIEMENS 2000 16/16 projector
from 16mm magnetic deck side.



SIEMENS SIXTEEN/SIXTEEN

Hard to believe—this suitcase-size "studio" makes 16/16 interlock quick and easy—gives your previews **theatre-impact** — without costly, cumbersome, electrical interlocks. Now you can have professional quality previews in your own studio—or on the run—in client's office, plant, or wherever.

The 16/16 Siemens 2000 is a quality 16mm optical/magnetic sound projector, mechanically interlocked with fine 16mm magnetic deck. Its versatility is virtually unlimited. Whether it's to be your only projector or a supplement to existing equipment, the unique Siemens 2000 16/16 is the time saving, money saving answer to dozens* of sound film problems.

* Operates as a single system or double system projector * Record on 200 mil track of the 16mm magnetic-deck * Record on 100 mil magnetic striped 16mm picture film * Mix * Transfer * Playback optical or magnetic sound * And more

EXCLUSIVE U.S. DISTRIBUTOR

WRITE FOR COMPLETE LITERATURE

ARRIFLEX

CORPORATION
OF AMERICA

25-20 BROOKLYN-QUEENS EXPRESSWAY WEST
WOODSIDE, NEW YORK 11377

of a cable TV system and in 1962 two franchises, covering about 30 miles of shoreline in Nevada and California, were granted. In 1964, when Mr. Grignon retired from 20th Century-Fox, preliminary work on the new project, including system design, had been completed. In September 1964 a relatively small plant supplying subscribers with five TV channels (four of the channels via microwave) had been completed. According to Mr. Grignon, the estimated five-year potential is 7,000 subscribers, which means that about 75 miles of cable, split into two separate systems, would be required. At present, Tahoe Systems specializes in CATV, but other types of engineering services are planned for the future.

A TV camera system described as "the most sensitive ever sent into space" is aboard the NASA Orbiting Astronomical Observatory (OAO). The camera was built by RCA's Astro-Electronics Div., Princeton, N.J., for the Grumman Aircraft Engineering Corp., prime contractor for OAO. The Astro-Electronics Div. also built the camera systems for the Ranger, Tiros and Nimbus space programs. The OAO camera is the only television "eye" on the spacecraft. It is designed to study ultraviolet, x-ray and gamma regions of the electromagnetic spectrum with the purpose of adding to the sum total of human knowledge about the origins and destinations of the universe.

The 3,900-lb satellite is essentially a large telescope with vidicon and photo-multiplier tubes sensing what the telescope sees. This information is transmitted to the Earth in digital "language" and is fed to computers for processing. The camera employs a grid pattern on the 1-in. specially designed vidicon to give extremely high pointing precision with a relatively low number of scanning lines. When the telescope focuses a star field on the camera, certain stars are blocked out by dots in the grid reticle of the vidicon. The dots represent 30 seconds of arc and the stars approximately 8 seconds of arc. Identification of the blocked-out target or reference stars by the surrounding star field establishes the pointing accuracy of the spacecraft to within approximately eight one-thousandths of a degree.

As support to the main guidance system, the camera operates on command from the ground for about 5 min during each 100-min orbit. With a picture taking

rate of 1/s, it can transmit some 300 pictures to the ground during each orbit for evaluation of satellite attitude.

Photosystems Corporation, of Plainview, L.I., N.Y., developer of high-speed and three-dimensional cameras, has been merged into Worldmark Press, Inc. The merged corporation will be known as Photosystems Corporation. Cameras developed by Photosystems include a camera to take three-dimensional photographs in color. The camera, automatic and electronically controlled, utilizes a system of micro-miniature lenses — about "3 hair widths in diameter," the announcement stated — to provide about five times the sharpness of a conventional camera lens. About 650 are used for each 3-D picture. The tiny lenses are also used in a high-speed camera said to be capable of taking from 100 to 1 million pictures/s. Worldmark Press publishes encyclopedias.

Photosystems does consultant work for the U.S. Government, United Aircraft and other organizations on advanced weapons systems. Through its marketing subsidiary, Dimensions Unlimited, the firm controls the rights to 47 U.S., Canadian and British patents pertaining to three-dimensional photography and lens manufacture. President of Photosystems Corp. is Richard A. Hayes. The firm will also continue to publish *Worldmark Encyclopedia of the Nations* through an exclusive license and royalty agreement with Moshe Y. Sachs, who originated the encyclopedia.

Allstate Film Lab., Inc., is a new firm created to supply such services as printing and processing of black-and-white prints for 16mm, double 8 and Super 8, including reduction prints, slitting and packaging film. Editing facilities are available for producers of 16mm and 8mm films. The firm is located at 933-935 E. 51 St., Brooklyn, N.Y. 11203, and occupies a newly constructed 4,000 ft² building. Equipments include high-speed printing and processing machines designed by Precision Laboratories, a division of Precision Cine Equipment Corp. President of the new firm is Irwin R. Sheldon. Secretary-Treasurer is Louis C. Peraino. Mr. Sheldon is also President of Precision Laboratories.

Saponin, a wetting agent extracted from Chilean soapbark (the inner bark of the

Quillaja Saponaria Molina tree) is used at Eastman Kodak Co. as an ingredient in light-sensitive emulsions. Saponin is used rather than a more common detergent because it is chemically inert in a photographic emulsion and has no deteriorating effect on the qualities of the film or paper. It is extracted from the soapbark by soaking the bark in water in which the saponin dissolves. A special chemical treatment removes impurities from the solution and, after drying, a whitish-yellow powder remains. A solution of this powder is then added to photographic emulsion to be coated on rolls of film or paper in extremely thin coatings, often less than one-tenth the thickness of a human hair.

Professional Cine Products has moved into new and larger quarters at 2959 Ladybird Lane, Dallas, Tex. The firm is owned and operated by Gordon Yoder. In the new building there will be a display room showing professional equipment for 16mm and 35mm as well as a line of sophisticated amateur cameras and equipment. A much larger stock of rental equipment will be maintained in the new building, including cameras, lighting equipment, power supplies amplifiers, recorders and other equipments, the announcement stated.

Edward H. Carman III has been appointed Director, Sales Development for Special Markets, Business Systems Markets Div., Eastman Kodak Co. He joined Kodak in 1946 as a product designer and manufacturing engineer at Kodak Park. Two years later he transferred to the Navy Ordnance Div. and in 1949 he moved to Kodak Office as a member of the general management staff. In 1958 he received an M.S. degree at Massachusetts Institute of Technology under a Sloan Fellowship in Industrial Management and in 1959 he returned to Kodak. In 1962 he transferred to the sales administration staff and two years later he joined the marketing executive staff as manager of marketing agreements.

Sylvia Jarvis has been appointed Vice-President of Motion Picture Enterprises, Inc., Tarrytown, N.Y. 10592. Miss Jarvis, who will soon celebrate her 20th year in the industry, retains her present position in charge of all M.P.E. domestic and foreign sales.

New SMPTE Sustaining Members

Association of Film Craftsmen-NABET, 1619 Broadway, Room 404, New York, N.Y. 10019.

After client conception, one NABET Contract covers any film production from inception (production breakdown) through production (complete production crew) to completion (final editing), via one telephone call to Local #15, the Association of Film Craftsmen, NABET (National Association of Broadcast Employees and Technicians). This single film production Local is subdivided into ten major craft categories; including Camera, Editing, Electric, Grip, Make-Up, Production, Prop, Set Craftsmen, Set Design, and Sound. The Local has established high professional standards, expecting to be instrumental in encouraging more and better east coast film production. Looking toward

this goal, they are now actively conducting training and upgrading courses in all craft categories, as is their Brother Local #531 in Hollywood.

Address inquiries to: Chmn. Information & Education, at the address above.

Lumen Christi Productions, 2099 Abington Rd., Cleveland, Ohio 44106

Lumen Christi Productions is a complete 16mm movie production facility with accents on mobility and an artistic approach to educational film-making. Its studio is located in Cleveland's University Circle, where postgraduate college students provide talent in art and communications. The latest in camera, sound, and lighting equipment are being employed in producing medical films, documentaries and travelogs anywhere in the world.

Address inquiries to: Robert J. Ward, Director, at the address above.