

107th Technical Conference and Equipment Exhibit

April 26 – May 1

Drake Hotel

Chicago

Television Film Symposium

The Society is again holding a two-day symposium as the latter part of a conference program, now scheduled for the 107th Technical Conference in Chicago. The symposium on Production, Control and Use of Color Television Film will feature a number of tutorial papers and discussions covering the entire area of films relating to television.

Symposium Chairman, Daan Zwick, Research Laboratories, Eastman Kodak Co., Rochester, announced that a number of authors have inquired about presenting papers. "Due to the success of the last symposium in Los Angeles," Mr. Zwick said, "there is a high interest level among authors and also those planning to attend the Conference." Additional details of the Symposium will be published as they become available.

The first portion of the Conference is being organized by Program Chairman Leonard F. Coleman, Eastman Kodak Co., Oak Brook, IL, and his Topic Chairmen. Many of the papers on the program have been re-



Daan Zwick

ceived and are now going through the usual procedures for reviewing and preprinting. Titles of papers to be presented will be published in future issues of the *Journal* and a complete program will appear in the *March Journal*.

Equipment Exhibit

The Exhibit Chairman for the 107th Conference is Matt Herman, Geo. W. Colburn Labs, Chicago.

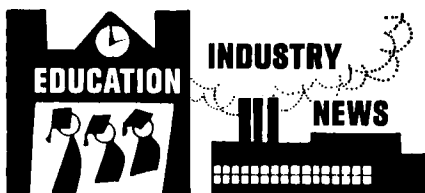
The Exhibit will be held concurrently with the 107th Technical Conference. The opening ceremony will take place on April 27 at 5:00 pm with the official ribbon-cutting ceremony, followed by an Open House for conference registrants and holders of exhibit passes.

Equipment papers and demonstrations can be given at the Equipment Papers Sessions on Wednesday morning, April 29.

Fifty-two booths will be available for Exhibitors. Booths will go on sale this month on a first-come-first-served basis. Prices for booths are \$500 (\$400 for SMPTE Sustaining Members). For further information on the Exhibit, contact: Matt Herman, Exhibit Chairman, Geo. W. Colburn Labs., 164 N. Wacker Dr., Chicago, IL. 60606.



The Drake Hotel



CINE (Council on International Nontheatrical Events) presented Golden Eagle Awards to 156 producers of nontheatrical films at the 12th annual awards and exhibition program held November 14 in Washington, DC. A total of 205 films selected from 769 entries received Golden Eagles and 28 films made by amateurs were awarded the CINE Eagle — a special recognition for nonprofessional filmmakers. In addition, 65 major prizes from 60

foreign festivals were presented. Special diplomas or certificates were presented to producers of 106 motion pictures honoring their selections for programing at overseas events. Top winners of Golden Eagles were Bailey Film Associates, a CBS educational subsidiary in Hollywood, NBC News in New York and Wexler Film Productions of Hollywood. *Why Man Creates*, a film made by Saul Bass for Kaiser Aluminum and Chemical Corp., was cited for receiving the most significant awards in international film festivals in 1969. It received top awards in five festivals (Cork, Moscow, Trieste, Venice Golden Mercury and Venice Documentary) and diplomas or certificates in four others (Edinburgh, Melbourne, Nyon and Vancouver).

Eighty-five motion pictures were shown for a total of 21 screening hours during the three-day event. Highlights of the program included a symposium called "To-

ward a World Audience." Chairman of the symposium was John Flory. A special luncheon honored young filmmakers whose numbers are increasing each year. The luncheon was presided over by CINE President, Reid H. Ray. Mr. Ray was recently made a professor in the College of Graphic Arts and Sciences, Rochester Institute of Technology. As head of Reid H. Ray Film Industries in St. Paul, he personally produced more than 1000 films.

A Founders Luncheon to honor the founders of the Society of Photographic Scientists and Engineers will be a highlight of Image '70, the 23rd annual conference of the SPSE (*Journal*, p. 892, Oct. 1969) to be held May 18-22 in New York. Other recently announced events include a special underwater photography program to be held on the night of May 20. The program will be in recognition of the In-

Society Publications

Motion-Picture Projection and Theatre Presentation Manual

This manual, edited by Don V. Kloepfel of DeLuxe General, Inc., contains 21 chapters, appendixes and index in 190 pages. Thirty-three contributors, each a recognized authority, discuss basic approaches and practical considerations for projection and theater presentation. The manual is intended to further mutual understanding concerning all aspects of the entire field, including theater owners, projectionists and technicians. The book contains 130 illustrations. It is a book in 8½- by 11¼-in format and hardbound with library cloth binding.

It has been announced by advertisement beginning in the November 1969 *Journal*, page 1037. The price is \$7.50, less 20% for SMPTE members. The contents are:

1. Introduction
2. Motion-Picture Films
3. Physical Aspects of Projection Rooms
4. General Rules for Good Projection
5. Measuring Instruments
6. The Basic Motion-Picture Projector
7. Operational Maintenance and Repair of Projectors
8. Projector Performance Testing
9. Projection Light and Light Sources
10. DC-Power Supplies for Projection Light Sources
11. Projection Lenses and Optics
12. Motion-Picture Theatre Screens
13. Motion-Picture Sound Systems
14. Theatre Construction and Design
15. Theatre Seating
16. Theatre Carpeting and Drapery
17. Theatre Automation — Automatic Programming
18. Drive-In Theatres
19. The Theatre Supply Dealer
20. The Competent Projectionist
21. Problems in Projection — Case Histories

Appendixes

- Manufacturers Honoring SMPTE Request Cards
 - Index to SMPTE-Sponsored USA Standards and Recommended Practices
 - List of SMPTE Publications
 - Test Film Catalog
- Index

ternational Decade of Ocean Exploration which begins in 1970. According to Frank Scott, SPSE Vice-President of Engineering, program titles and program leaders for the conference's engineering sessions are: The Development of a Customer System — Super 8 Motion Pictures, J. L. Boon; An Advanced Design Approach to Color Reflection Densitometry, A. J. Blanc; A Data Reduction System for Photographic Records, C. W. Wyckoff; Digital Hologram/Kinoforms, L. B. Lesem; and An Underwater Photographic System, G. T. McNeil. The special underwater photography program will include the showing of a new film and exhibits of equipments used in underwater photography. Announcement of the special program was made by William Towns, Co-Chairman of Image '70. SPSE Headquarters are at 1330 Massachusetts Ave., N.W., Washington, DC 20005.

Super 8 Films Symposium Proceedings

The *Proceedings* of the Symposium on the super 8 film format, which was held in four sessions on October 2-3, 1969, in Los Angeles, will soon be available. The publication includes fourteen invited tutorial and survey papers on various aspects of super 8 film quality, standardization, printing systems, comparison with 16mm, educational use and projection cartridges. Authors represent Eastman Kodak Co., Bell & Howell Co., Fairchild Camera and Instrument Corp., Consolidated Film Industries, DeLuxe General, Inc., Technicolor Corp., other companies and the U.S. Dept. of Defense. The introduction is by Society Vice-President for Motion-Picture Affairs Dr. Richard J. Goldberg, Symposium Chairman. The price of the *Proceedings* is \$15.00, less 20% for SMPTE members.

Color Television: Selections From the Journal

This book will contain reprints of selected papers from the *Journal*. It has been prepared by a special committee under Richard S. O'Brien, Vice-President for Television Affairs. Irving S. Rosner is Chairman of the Committee. Committee members are Robert W. Byloff, D. Lisle Conway, Richard E. Putman, Rodger J. Ross and James Wilson.

The volume contains 23 papers grouped in five sections: Basic Color; Color Television Systems; Color Film; Subsystems and Special Components and Broadcast Facilities. Also included is a list of Standards and Recommended Practices and a Bibliography of additional papers on color television that have appeared in the *Journal*. The publication date is to be announced.

A Directory for Members

The Directory for Members containing a complete and up-to-date list of members of the Society is published biennially. The next *Directory* will appear as Part II of the July 1970 issue of the *Journal*. In alternate years a Directory containing a list of officers and governors of the Society, reports, sustaining members and other relevant information is published.

The U.S. Industrial Film Festival has announced that entries for the 3rd annual event should be submitted before March 1. Awards will be presented on April 30 in the Palmer House Hotel in Chicago. Entries are limited to 16mm industrial motion pictures and 35mm filmstrips. Entries are separated into four groups according to the type of production: Commercial, Government, In-Plant and University. Subject categories are identical for the four groups: Advertising, Sales Promotion; Art, Culture; Documentary; Fund Raising; Industrial and Technical Processes; Medicine, Health; Public Relations; Recreation, Sports, Hobbies, Travel; Religion, Ethics; Safety, Welfare; Sales; Sciences, Research; World Peace, Understanding, Brotherhood; and Miscellaneous. Further information is available from J. W. Anderson, Chairman, U.S. Industrial

Film Festival, Film Center Bldg., Suite 216, 161 East Grand Ave., Chicago, IL 60611.

The 1969 annual meeting of the Optical Society of America was held October 21-24 in Chicago. Topics covered in the technical sessions included Lens Design; Atmospheric Optics; Lasers — Radiometry and Photometry; Optical Materials; Thin Films and Interferometry; Information Processing, Holography and Coherence; Aeronautic and Space Optics; Spectroscopy; Color and Vision. Some 200 papers were presented, thirteen of which were invited papers. Titles and authors of the invited papers are: "YAG Lasers; Present and Future" by J. E. Geusic; "Ion Lasers Today" by William B. Bridges; "Deep-Blue and μv Helium-Cadmium Glow Discharge Lasers" by John P. Goldsborough; "Glass Lasers Today" by C. G. Young; "The Role of Holography in Image Processing" by J. W. Goodman; "Fourier Methods in Vision Research" by D. H. Kelly; "The Nature of the Stimuli for Fixation, Vergence and Tracking Eye Movements" by Derek H. Fender; "The Signal Code in Human Rods" by W. A. H. Rushton; "Lens Design Using Small Computers" by Janusz S. Wilczynski; "Acoustic-Bragg Reflection of Light" by Robert Adler; "Practical Holography" by Juris Upatnieks; "Meteorological Application of Geosynchronous Satellites" by Tetsuya T. Fujita; and the Ives Medal Address, "Stimulated Phenomena in Laser Physics" presented by the 1969 Ives Medalist, David A. Rank of Pennsylvania State University.

The International Broadcasting Convention will be held September 7-11, 1970, at Grosvenor House, Park Lane, London W.1. Sponsors besides the SMPTE are Electronic Engineering Assn., Institution of Electrical Engineers, Institute of Electrical and Electronic Engineers, Institution of Electronic and Radio Engineers and the Royal Television Society. The scope of the technical sessions will include material on all aspects of television and sound broadcasting, including Operational Experience; Studio Design; Origination Equipment; Recording; Signal Distribution (including Wire Relay); Transmitters and Transposers; Aerials; Receivers; Propagation and Service Planning; Films; Satellites; Automation Aspects of Broadcasting; Digital Techniques in Broadcasting and Technical Management. The Convention will include an exhibition of the latest broadcasting equipment. Further information is available from The Secretariat, International Broadcasting Convention, c/o IEEE, Savoy Place, London W.C.2, England.

Temple University has announced a graduate-level film seminar to be held July 6 through Aug. 15 at the British Film Institute in London, England. The seminar will be conducted by Raymond Fielding, Professor of Communications at Temple. The seminar will consist of lectures and discussions by British film directors, writers, critics, government officials and others, plus field trips to film studios, archives, museums and governmental offices. The class will be limited to 20 graduate students and the course may be taken for

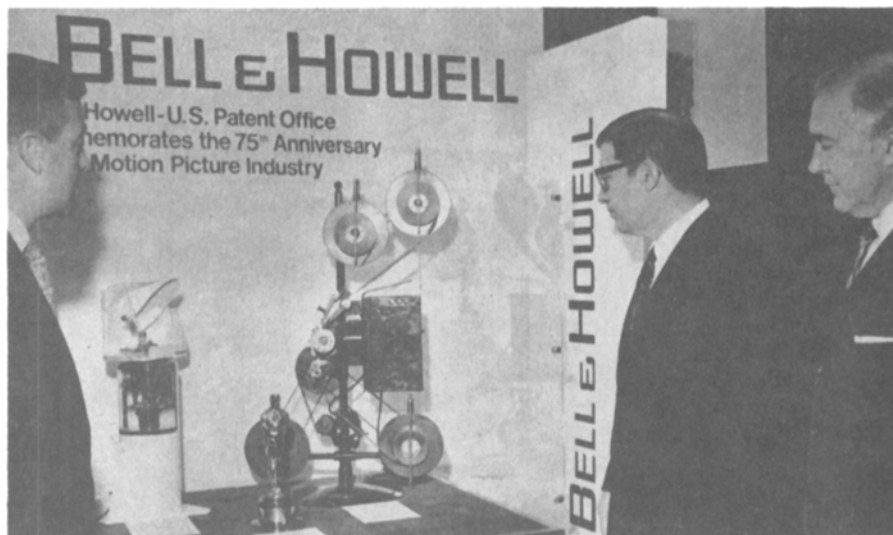
credit or audited. Further information is available from Dr. Raymond Fielding, School of Communications and Theater, Temple University, Philadelphia, PA 19122.

Photo Data Institute, Box 529, Necnah, WI 54956, has announced three short courses on high-speed photography and flash x-rays to be held during February and April. The first of the three-day courses will be held in Rockford, IL, February 24-26. The second course will be held in Cherry Hill, NJ, April 7-9; and the third course will be held in Hartford, CT; April 13-15. Subjects of the course are (first day) Photography as an Engineer's Tool; (second day) Ultra-High-Speed Photography and (third day) Flash X-Rays. The course was organized by William G. Hyzer. Lecturers include Morton Sultanoff, William G. Chace and David B. Eisendrath. Further information is available from Photo Data Institute.

A course in **Photographic Materials and Processes** (Engineering Extension Course X454.6) is being given at the University of California at Los Angeles. Classes began January 5 and will continue through March 23. The course consists of lectures and demonstrations on the theory of photographic materials. Subjects of discussion include light-sensitive systems (including silver halide, electrophotographic, photo-thermographic, photochromics, photopolymerization, diffusion transfer, diazonium salts and iron salts); developing agents, developers and processing solutions and color films and color processes. The textbook for the course will be *Photography, Its Materials and Processes* by C. B. Neblette. The Instructor will be Richard A. Walker who is a member of the Technical Staff of Hughes Research Laboratories.

COMEST (Communications European Satellite Team) is a new European international consortium composed of EASAMS and GEC-Elliott Space and Weapons System from the British GEC-Marconi Electronics Co.; ASEA from Sweden; Dornier-System from the Federal Republic of Germany; CGE-FIAR from Italy; Fokker-VSW from the Netherlands and Thomson-CSF from France. COMEST has proposed a European communications satellite which will carry sound and television programs within the Eurovision countries and Africa to be operated by the European Broadcasting Union (EBU). Also associated in this particular project are SABCA from Belgium, TERMA from Denmark, SENER from Spain and Contraves from Switzerland. The satellite system proposed by COMEST will allow the simultaneous exchange of two color TV programs and 10 sound channels between ground terminals situated in Europe and in Africa. Each of the stations will be able to use the satellite for both transmission and reception of programs.

Satellite Film Service, P.O. Box 6476, San Jose, CA 95150, is a new firm formed to provide complete filmstrip services, sync resolving, film editing, music scoring, video-tape recording, tape duplication and other services. The firm has been formed by two brothers, Warren and Fred Berney.



The 75th anniversary of the motion-picture industry was recently commemorated by Bell & Howell Co. in conjunction with the U.S. Patent Office exhibit entitled "Progress of Industry Through Patents." The exhibit, one of a series depicting the development of American industry through the U.S. Patent system, was on display in the lobby of the Patent Office, Arlington, VA, during October. Bell & Howell was one of 12 companies asked to participate in the exhibit and the display featured company highlights in relationship to the motion-picture industry. The Bell & Howell exhibit displayed one of the

first 35mm printers; a working model of the camera lens used in the Surveyer series of moon shots which transmitted the first pictures back to earth; the new Filmosound 8 lip-synchronous movie system and an Oscar awarded to the company for its contribution to the motion-picture industry. Shown above is lens used in the Surveyer, the Oscar and the early 35mm printer. Looking at the exhibit are William J. Pictenpol, Vice-President, Corporate Development, Bell & Howell; Rocco C. Siciliano, UUnder-Secretary of Commerce; and William E. Schuyler, Commissioner of Patents.

Warren was formerly with the Army Missile Command at Redstone Arsenal and Fred was formerly a sound engineer for W. A. Palmer in San Francisco.

Broadcast Systems International (BSI) is a new service organization set up by Television Equipment Associates, Box 1391, Bayville, NY 11709. BSI, which is located outside of Washington, DC, will specialize in the development and installation of total systems or special projects such as remote truck assembly or custom audio consoles.

The newly established **Bell & Howell Video Center**, 7235 N. Liner Ave., Skokie, IL 60076 has announced availability of closed-circuit TV services including full-color, three-camera studio rental, production services from complete program production to dubbing and transfer, and consultation. The Video Center also contains the former School of Instructional Technology. Four courses are offered in closed-circuit technical training and two courses are offered in program production.

Victor Duncan, Inc., has established a new branch at 2659 Fondren, Dallas, TX 75206. In addition to rentals and equipment leasing, the Dallas branch will provide portable quartz lighting equipment for location use. The firm was established in Detroit in 1959 and a branch was opened in Chicago in 1963. General Manager of the Dallas branch is Joe Pope. Robert Burrell is Chief Engineer.

Recla Film Laboratories, 65 N.W. Third St., Miami FL 33128, has announced a new

facility for loading 8mm films into motion-picture cartridges. The facility will be used to load Technicolor movie cartridges and it is capable of loading cartridges of other major manufacturers.

Eastman Kodak Co. has announced the move of five divisions formerly located in the regional offices at 1334 York Ave., New York, to a recently completed building at 1133 Avenue of the Americas, New York, NY 10036. The five divisions are Consumer Markets; Professional, Commercial and Industrial Markets; Radiography Markets; Business Systems Markets and Sales Promotion Specialists Group.

Formation of the new AVICOM Division of Bell & Howell has been announced by the Electronic Instrumentation Group, 360 Sierra Madre Villa, Pasadena, CA 91109. The new division incorporates the former Airline Products Div. and the New Business Div. Product areas of AVICOM include airline entertainment systems and 16mm automated small theater systems. President of the new division is Eugene J. Moscarel. John W. Lang is Vice-President of Design and Development Engineering.

The name of **Jack Pill's Camera Equipment** has been changed to Jack Pill and Associates to conform to a recent reorganization of the company. The Associates are Frank Kelly, Sales Manager, and Bob Lovelace, Manager of the Rental Department, together with two new staff members, Ed Engel, former Director of Sales at F&B/Ceco, and Roy B. Low, former Vice-

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New FR-10 will still be "new" when other makes are obsolete.

Only this system gives you every one of the latest operational features. And packs 'em all into a low-profile, space-saving cabinet that fits flat against the wall — in fewer square feet of floor space than any previous system. And, FR-10 alone is ready now for tomorrow's automated accessories.

FR-10 combines everything you've ever wanted in a magnetic film recording system.

Like dual design, for example. Lets you switch from 16 to 35mm — and back again — in seconds, thanks to RCA's unique plug-in sprocket and head assemblies. Speed and equalization changeover are automatic, with only one interlock system needed.

Like silent, selective head switching — so you can update any section of any track without re-recording the whole reel. And exclusive "Unilogic" motor control system lets you choose between using either manual or automatic control.

Like automatic loop setter. It lets you thread up much faster and more easily. FR-10 rewinds — through the sprocket — at 1000 feet per minute, while handling up to 3000-foot reels. And you get complete metering for each channel, too, with up to six tracks available.

On top of all that, FR-10 delivers reliability even beyond what you've come to take for granted from RCA. Along with matchless sound quality, of course. For information, write: RCA Film Recording, 2700 West Olive Avenue, Burbank, California 91505, or 1133 Avenue of Americas, New York, NY 10036. • RCA Ltd., 1001 Lenoir Street, Montreal 207, Quebec, Canada. • RCA Ltd., Lincoln Way, Windmill Road, Sunbury-on-Thames, Middlesex, England. • RCA Ltd., 11 Khartoum Road, North Ryde NSW, Australia 2113.

lescence.

RCA Film
Recording

President, Marketing, of Alan Gordon Enterprises. The reorganization is part of an expansion program.

Westinghouse Information Systems Laboratory has installed a specially designed closed-circuit television system in their new computer systems training center. The trainees can thus get clear views of what is happening at the terminal keyboard while at the same time they can take notes from the screen and from the instructor. Eight TV monitors have been mounted below the desk tops in the training center. When the system is not in use the monitors are out of sight. When the system is activated, the monitors emerge automatically as the desk top lifts back. The TV camera is mounted on a telescoping boom that can be moved from one end of the center to the other. This makes it possible to monitor the activity at any one of a variety of terminal keyboards located along one wall. The camera has a high-resolution vidicon tube and a 55mm lens. It is 10 in long and 3 in in diameter. When in use the camera is positioned just over the terminal operator's shoulder to give each trainee a clear view of each symbol and word as it is typed.

Kodak Brasileira Industria e Comercio Ltda. has begun building a new factory in Sao Jose dos Campos, State of Sao Paulo. The new plant will represent an initial investment of about \$18 million during the next two years, according to the announcement from Eastman Kodak. By mid-1971, according to present plans, the plant will employ between 300 and 400 Brazilians, many of whom will receive extensive technical training. The new factory, combined with Kodak Brasileira's existing plant in the Santo Amaro district of Sao Paulo will produce a broad line of black-and-white and color photographic papers for use in Brazil and for export to other countries in the Latin American Free Trade Association. The new plant will be located on a 200-acre site about three miles from the center of Sao Jose.

Conversational Computing Institute, Northglenn, CO, will convert lectures on computer programming to EVR cartridge format, it was announced by Robert E. Brockway, President, CBS Electronic Video Recording Div. and Michael J. Pedelty, President, Conversational Computing, Inc. The first lecture series offered by Conversational Computing on EVR cartridges will be a course entitled BASIC (Beginners All-Purpose Symbolic Instruction Code) developed at Dartmouth College in 1964.

Movielab, Inc., 619 W. 54 St., New York, NY 10019, has announced that the optical division which it had acquired in its recent purchase from Berkey Photo has been sold to Brilliant Optical, Inc.

A method of projecting three-dimensional (3-D) motion pictures to be shown in theaters without the need for special glasses has been developed by Dennis Gabor, staff scientist for CBS Laboratories, a division of Columbia Broadcasting System. The method uses holographic techniques and

lasers to project motion pictures in 3-D onto a curved viewing screen in color or black-and-white. The screen is coated with a photosensitive material and is made in a hollow curve to reflect to all parts of the theater. The process uses holographic mirrors created by superimposing two holograms. The 3-D technique uses two projectors aimed at the photosensitive screen to reflect separate images to the right and left eyes. The holographic mirrors and laser beams reflect the image in vertical zones, each the width of normal eye spacing. These images are combined by the eye to produce a stereoscopic effect. Actually half the screen is blank, but this is not noticed by the viewer because the eyes instinctively aim into the viewing zone where the stereoscopic effect is seen.

Three-dimensional (3-D) scenes in motion can be viewed on some closed-circuit TV facilities with a new live-transmission technique devised at Bell Telephone Laboratories. A 3-D scene is transmitted as a series of slightly different 2-D images that convey depth information. At the receiving end of the system, the 2-D images are combined to reconstruct the original 3-D scene. No special glasses are required to see the 3-D scene. The new method uses a pair of spherical mirrors called varifocal mirrors. Because they are made of flexible mylar, their centers can be made to move rapidly in and out, from concave to convex shapes.

As the mirror at the transmitting end moves, it reflects portions of the 3-D scene to a short focal length lens. The lens then focuses these different views, or "depth planes," one at a time so that they can be shown on a rear-projection screen, recorded by a TV camera and transmitted. At the receiving end, a TV monitor displays the 2-D images. An observer views them as they are reflected from a second moving mirror which is placed in front of the monitor. The mirror forms an image of each successive view, instantaneously placing it in the correct depth position to reconstruct the original 3-D scene. The new technique is expected to have applications for 3-D data transmission in specialized scientific and medical fields.

Improved phosphors that can convert invisible infrared radiation into green, red and blue lights or change them through a rainbow of colors have been developed at Bell Telephone Laboratories. Previously, solid-state light sources were available in only one or two primary colors. The new phosphors are excited by infrared radiation which is longer in wavelength than the visible radiation they emit. The source of infrared energy is a gallium arsenide diode. The new phosphors employ rare earth elements in crystals. The phosphors can be painted on the infrared gallium arsenide diodes to provide multicolored light sources. Green or red light is produced by certain crystals containing the rare earth elements erbium or holmium. Blue light is produced when the rare earth thulium is employed. In one of the phosphors an observer can see colors gradually shifting from green to yellow to off-white, orange and finally to red as power is increased.

William O. Baker, Vice-President for Research and Patents at Bell Telephone Laboratories, is the 1970 recipient of the Industrial Research Institute Medal awarded annually for "outstanding accomplishment in, or management of, industrial research which contributes broadly to the development of industry or the public welfare." The Industrial Research Institute, 100 Park Ave., New York, NY 10017, was founded in 1938.

Dr. Baker's special interest has been that of coupling research with the needs of telecommunications and the Bell System. This is reflected in projects such as the TELSTAR satellite, diffusion and epitaxial growth in semiconductors, parametric amplifiers, computer applications to communications and the large-scale introduction of polymers into electronic and communications equipment.

William A. Manly has joined the research and development team at Magna-Tech Corp., 2300 Ampex Ave., Opelika, AL, according to a recent announcement. Mr. Manly is a physicist and in his new post he will be primarily concerned with methods of testing and evaluation in a research and development program aimed at producing a new and superior grade of magnetic oxide. He was formerly with Ampex Corp.

Richard H. Hodges has been appointed Vice-President, Marketing, Original Equipment Manufacturers, for miniature and other lamps and photolamps produced by Sylvania Electric Products Inc., 730 Third Ave., New York, NY 10017. Mr. Hodges joined Sylvania in 1953 as a sales engineer for semiconductor and microwave products. He joined the Photolamp Division in 1955. Prior to his present appointment he was Technical Marketing Manager.

Eastman Kodak Co. has announced two appointments in the Motion Picture and Education Markets Division. Vaughn C. Shaner has been appointed Regional Sales Manager, Pacific Northern Region. John M. Waner has been promoted to the post of District Sales Manager, Pacific Southern Region. Mr. Shaner joined Kodak in 1935 and was first employed in the Research Laboratories. He has held various supervisory posts, the most recent having been Supervisor, Sales and Engineering Service, Motion-Picture and Education Market Div., Pacific Southern Region. Mr. Waner has been with Eastman Kodak since 1947. He was first employed in the Color Process Development Dept. of Kodak Research Laboratories. He transferred to the West Coast Region as a chemist and color consultant in 1951 and in 1964 he became Chief Engineer, Motion-Picture and Education Markets Div., West Coast.

Francis J. Honey has been elected Vice-President of Engineering for Computer Image Corp., 2162 South Jason St., Denver, CO 80223, it was announced by Bruce L. Birchard, President. Mr. Honey is author of a paper presented at the Society's 106th Conference in Los Angeles, "Practical Computer Animation," in which he described the Scanimate, an animation de-

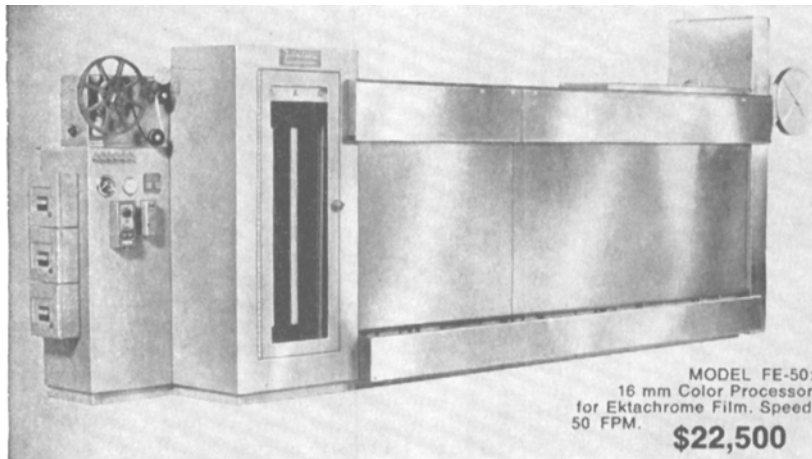
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FILMLINE'S professional color film processors for motion picture laboratories.

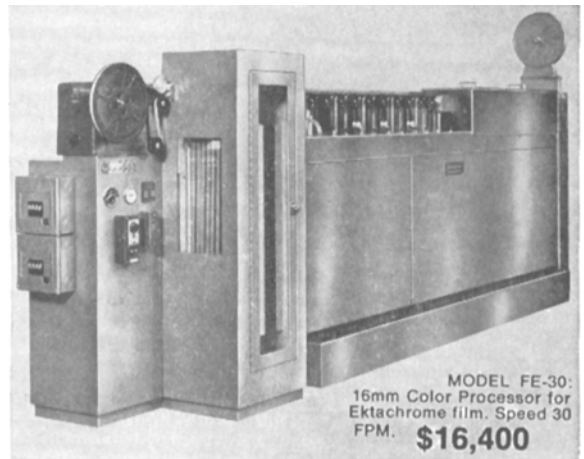
The Filmline Models FE-30 and FE-50 are fast, foolproof, troublefree and long-lasting. They turn out consistently superior work. The design is backed by Filmline's reputation as the world's leading manufacturer of film processors for the motion picture laboratory industry.

Now enjoy the benefits of professional equipment incorporating exclusive Filmline features that have paced the state-of-the-art in commercial, industrial and defense installations at a cost lower than processors offering less.

Check the exclusive Filmline features below:



MODEL FE-50:
16 mm Color Processor
for Ektachrome Film. Speed
50 FPM. \$22,500



MODEL FE-30:
16mm Color Processor for
Ektachrome film. Speed 30
FPM. \$16,400

- **"FILMLINE OVERDRIVE FILM TRANSPORT SYSTEM"** This marvel of engineering completely eliminates film breakage, pulled perforations, scratches and operator error. The film can be deliberately stalled in the machine without film breakage or significant change of film footage in solutions. The heart of any film processor is the drive system. No other film drive system such as sprocket drive, bottom drive or simple clutch drives with floating lower assemblies can give you the performance capability of the unique Filmline Overdrive Film Transport System.
- **"TORQUE MOTOR TAKE-UP"** gives you constant film take-up and does not impose any stress or strain on the film itself. Completely independent of the film transport system. This FILMLINE feature is usually found in professional commercial processors but is incorporated on the FE-30 and

FE-50 models as standard equipment. Don't settle for less!

- **"TEMP-GUARD"** positive temperature control system. Completely transistorized circuitry insures temperature control to well within processing tolerances. Temp-Guard controls temperatures accurately and without the problems of other systems of lesser sophistication.
- **"TURBO-FLOW"** impingement dryer. Shortens dry-to-dry time, improves film results, and carefully controls humidity content of your valuable (and sometimes rare) originals. Immediate projection capability is assured because the film dries flat without the usual curl associated with other film processors.
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Additional Features included in price of machine (Not as extras).

Magazine load, daylight operation ■ Feed-in time delay elevator (completely accessible) ■ Take-up time delay elevator (completely accessible) ■ Red brass bleach tank, shafts, etc. Prehardener solution filter ■ Precision Filmline Venturi air squeegee prior to drybox entry ■ Air vent on prehardener ■ Solid state variable speed D.C. drive main motor ■ Bottom drains and valves on all tanks ■ Extended development time up to two additional camera stops at 50 FPM ■ Pump recirculation of all eight solutions thru spray bars ■ Temperature is sensed in the recirculation line ■ All solutions temperature controlled, no chilled water required ■ Built-in air compressor ■ Captive bottom assemblies assure you constant footage in each solution ■ Change over from standard developing to extended developing can be accomplished in a matter of seconds ■ Impingement dryer allows shorter put through time.

Partial listing of Filmline Color Installations: — NBC- New York, NBC- Washington, NBC- Cleveland, NBC- Chicago, CBS & ABC Networks, Eastman Kodak, Rochester.

Laboratories: De Luxe Labs, General Film Labs (Hollywood), Pathe-Labs, Precision Labs, Mecca Labs, Color Service Co., Capital Film Labs, Byron Film Labs, MGM, Movie Lab, Lab-TV, Technical Film Labs, Telecolor Film Labs, Guffanti Film Labs, A-One Labs, All-service Labs, NASA Cape Kennedy, Ford Motion Picture Labs.

TV Stations: WAPI-TV, WHP-TV, WMAL-TV, WXYZ-TV, WWL-TV, WMAR-TV, WJXT-TV, KETV-TV, WTOP-TV, WEAT-TV, WCKT-TV, WAVE-TV, WAVY-TV, KTVI-TV, WCPQ-TV, KTAR-TV, WSYR-TV.



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vice developed by Computer Image Corp. which converts flat, line artwork to a moving image to be filmed or video-taped. The firm also developed Animac, a computer which generates images internally. Mr. Birchard also announced the appointment of Rudolph F. Handel as National Sales Manager of the Hardware Division. Mr. Handel was formerly with Sony Corp. of America.

Grant Loucks, Senior Vice-President in charge of rentals for Alan Gordon Enterprises, Inc., 5362 N. Cahuenga Blvd., North Hollywood, CA 91601, will head the firm's Motion-Picture Equipment Sales Division which has been moved to 1430 N. Cahuenga Blvd. in Hollywood. He will continue to have charge of the rental division at the same address.



CAPE KENNEDY, June 28 — Norman S. Bean, Director of Engineering, WTVJ, Miami, FL, gave a very unique slide presentation and report on unidentified flying objects tracing the history of these reports back hundreds of years. From the questions after the presentation and the discussion at the social hour, it was apparent that the people at the meeting had or developed very strong opinions on the subject. Members and guests then enjoyed dinner in the main dining room of the Deauville Hotel. — Robert W. Hiltwine, *Secretary-Treasurer*, Miami, FL.

DENVER, Oct. 22 — Thirty-one members and guests of the **Denver Section** attended a tour of the United Airlines Flight Training Center at Stapleton Field, Denver, CO. Mr. Dale Lobsinger, Public Relations Director of the center and Edward Hoffman, Pilot Training Director, hosted the tour. The flight center represents a \$30,000,000 investment of which \$26,000,000 was expended for training equipment. Operating 18 hours per day, the center trains 700 United Pilots annually and 1,000 other pilots. A staff of 650 utilizes 18 simulators and 12 assigned jet aircraft to train pilots. The facilities will be ready to train pilots for the new SST, DC-10 and 747 when they make their appearance in the early 1970's. Of particular interest to section members were the new link simulators which can produce virtually every condition a 7247 pilot would encounter. Also a V.A.M.P. (70mm visual, anamorphic motion picture projection system) is used which allows the pilot to experience and fly into a 3 dimensional image of an airport approach. — Jackson R. Cravens, *Secretary-Treasurer*, Denver, CO.

DENVER, Sept. 19 — Jim French of the Colorado State University staff introduced SMPTE members and guests to the University's "Modern Learning Center," by

Edward B. Shaw has been appointed Executive Vice-President in charge of motion-picture production for Tech Films Corp., 1484 Main St., Waltham, MA 02154. He will be head of the firm's new motion-picture laboratory. He was formerly with Westinghouse Broadcasting.

Bruce L. Birchard has been elected President and Chief Executive Officer of Computer Image Corp., Denver, CO. He was formerly Executive Vice-President of the company and before joining Computer Image he was a Vice-President of Sony Corp. of America. The Computer Image animation system is used to generate a variety of images and humanoid figures. It displays them on a cathode-ray tube off which motion-picture films are made.

way of explanatory remarks and a tour of the facility which includes such features as a rear screen projection set-up, a television facility for live and video-tape presentations and a graphics department with automated photo laboratory. — Jackson R. Cravens, *Secretary-Treasurer*, Denver, CO.

DETROIT, Sept. 16 — The first fall meeting of the **Detroit Section** convened at 7:30 P.M., in the 11th floor auditorium of General Motors Photographic. The chairman introduced the officers of the Detroit Section and then called upon Verne W. Weber, Faculty Advisor of the new student chapter at Eastern Michigan University, to talk briefly about the plans of the chapter. The chairman then asked Jim Bostwick of General Motors Photographic to introduce the opening film titled, "Something Old, Something New." The chairman then introduced the speaker of the evening, Dick Dubbe, Research Director of 3M Co. who spoke on "Electron Beam Recording," the presentation lasting approximately one hour was well received and the films shown amply demonstrated the excellent quality of film recorded by the process. The meeting was adjourned at 9:15 P.M. and afterward those present enjoyed refreshments through the courtesy of General Motors. —Richard O. Painter, *Chairman*, Detroit, MI.

DETROIT, Nov. 15 — Section members and guests were given a thorough and informative explanation of the Electronic Video Recording (EVR) system developed by CBS Laboratories. Demonstration material was reproduced on TV receivers using a production model of the EVR player. Don Mizaur, Motorola Corporation and William R. McIntyre, CBS Laboratories, made the presentation. They were asked many questions by the thoroughly interested audience, and gave detailed answers. — Frederick M. Remely, *Secretary-Treasurer*, Detroit, MI.

NASHVILLE, July 12 — An all day meeting was held at Rivermont Holiday Inn, Memphis, TN. This meeting was hosted by Motion Picture Labs. The meeting was opened with welcome from Frank McGuerry, President, MPL, and chaired by Blane Baker, Vice President, MPL. Papers were presented by the following: "16mm Color Negatives," by Phil Perkins, Eastman Kodak Co.; "New Film Equipment," by Jack Behrend, Behrend Co., Chicago; "New Arriflex Camera Radio Controlled Bleep," Anton Wilson, Arriflex Co., and Duane Muir, TRAFCO; "Multiscreen 16mm Interlock Projection," Robert Spittler, Chapman/Spittler. The speakers gave most interesting papers on their subjects. Lunch was served compliments of MPL and the meeting was adjourned at 4:30 p.m. The meeting attracted the largest gathering of the entire year. — Aaron Shelton, *Secretary-Treasurer*, Nashville, TN.

NASHVILLE, Sept. 20 — A most attentive audience of approximately forty people was on hand at the WSIX-TV studios, Nashville, for this meeting. Three papers were presented by representatives of the 3M Co.: "Care and Handling of Video-tape," by Arden R. Thompson; "New Video Products," by Fred Hodge; and "Electron Beam Recorder," by Art Barnes. Dr. Robert W. Benson, Acoustic consultant, Benitron Inc., gave a short paper outlining basic acoustic concepts and their importance in broadcasting and recording. A question and answer period was observed at the conclusion of each presentation. Refreshments were enjoyed during the coffee break. Business of the section was discussed after a luncheon of the board of managers. — Aaron Shelton, *Secretary-Treasurer*, Nashville, TN.

NEW YORK, Sept. 17 — Richard Nazger, Goddard Space Center, commented throughout silent film of Apollo mission. Included were some very exciting film shots taken from the Command Module and LEM, the latter showing actual landing and activity around LEM parked on the moon.

James Parker, CBS Television Network Engineering, described with slide and film pictures the setting up and operation of the portable earth station set up on the carrier Hornet to transmit color television pictures of the Apollo recovery via satellite to television viewers around the world.

Arthur Kaiser, CBS Laboratories, described and demonstrated a sequential color camera of the type developed for the Command Module on Apollo 10 and 11. He also described the earth-support system required to translate the signal for transmission to the networks. It was an excellent hour and three-quarters program that kept the audience completely absorbed to the end. There were no drop-outs. — Paul F. Wittlig, *Secretary-Treasurer*, New York.

NEW YORK, Oct. 15 — A program featuring selected presentations from the 106th Technical Conference in Los Angeles was well attended and well received. Phil Perkins, Eastman Kodak Co., New York, read a paper on, "A New Eastman Ektachrome Commercial Film," by P. H. Grigsby, F. Kent, J. M. McDonough, D. R.