

Education, Industry News

The two-week conference on color television held in Vienna ended April 7 with the question of a single system for worldwide use "tableted" until 1966 when discussions will continue at Oslo. The frequently acrimonious discussions centered mainly around the question of which of three proposed systems to adopt—the U.S.A. NTSC, the German PAL, or the French SECAM. It was reported with little doubt that the NTSC system is now technically superior but, according to some reports, political rather than technical considerations accounted for the failure of the 45-nation conference to come to any agreement on a single standard. Earlier (on March 22) France and the USSR signed an agreement to use exclusively the French SECAM. Color television is expected to be available in the USSR before 1970.

There is, as yet, no color television in Europe except for experimental sets. However, Great Britain is ready to go ahead with commercial production of color television and is in favor of the NTSC system. The Vienna conference was brought about mainly at the instigation of British industry with the aim of deciding on an all-Europe system. Failure of the conference to agree is expected to result in British adoption of the NTSC system.

Following announcement of the French-USSR agreement, a statement was issued by the Radio Corp. of America which said, in part, "We intend to continue energeti-

cally advocating the adoption of the NTSC system by the European nations. We are confident it will have the continuing support of many of these countries who believe as we do that the NTSC system represents the best solution to the problem of providing high-quality color television service on the most economical basis for the people of Europe."

Maurice Ponte, President of CFT-Compagnie Française de Télévision, and D. M. Gvichiani, Vice-Chairman of the State Commission for the coordination of Scientific Research of the USSR, signed on March 27, in Paris, an agreement to implement, in the industrial field, the general agreement signed by the French and Soviet governments for the adoption of the SECAM color television system. SECAM receivers will use the new French picture tube being developed jointly by CFT and the Italian company, SELIT-Società Elettronica Italiana S.p.A.

The involvement of television with politics and the ramifications thereof have been highlighted in the recent Vienna conference on color television but an even more direct cause-and-effect event occurred in the Netherlands when a move to introduce commercial radio and television was credited with bringing about the downfall of Premier Victor Marijnen's coalition Cabinet of Liberal, Protestant and Catholic parties. A "special" from the Hague to the New York Times (March 3, 1965) reported that Queen Juliana had asked Norbert

Schmelzer, leader of the Roman Catholic People's party to attempt to resolve the future of Dutch television with the hope that the problems surrounding the introduction of commercial radio and television would not be insoluble. It was expected at that time that if a compromise solution could be brought about that Mr. Marijnen's Cabinet would return.

A Directory of colleges and universities throughout the United States offering summer courses and workshops in 1965, including courses in motion picture and television, has been compiled by the Educational Media Council, 250 W. 57 St., New York, N.Y. 10019. About 350 educational institutions are listed, including 63 institutes sponsored and supported by the U.S. Office of Education in accordance with the provisions of the National Defense Education Act (NDEA). These offer advanced study courses for media specialists and librarians.

The 1965 Directory is the second such directory published by the EMC. This directory contains nine regional charts for the convenience of students interested in courses available in any particular part of the country. The listings are concisely coded so that a prospective student, or any interested person can tell at a glance exactly what study areas are covered in courses available in any specific college or university. These are: (1) under *Instruction: Theory, Utilization, Materials and Techniques, Administration*; and (2) under *Production and Practice: Radio, Television,*

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There's so much new about RCA's PM-80 film recording system. New solid state circuitry. New styling. Compact design. New conveniences for easier operation.

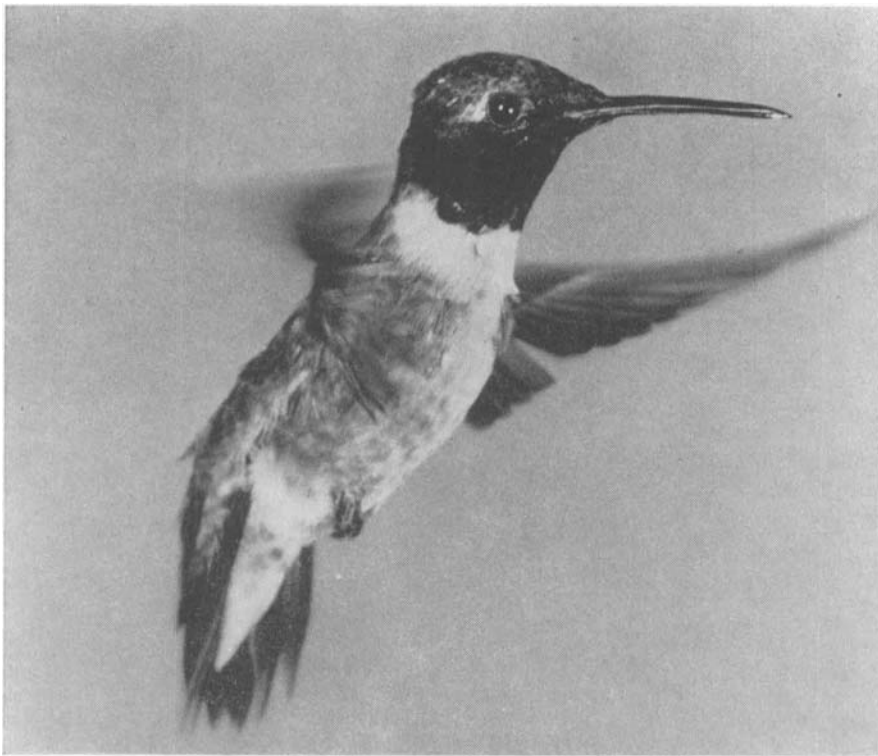
In all respects, a better value than ever in film recording. Yet, the most important feature of this new film recording system is that it continues to reflect RCA's traditional leadership in film recording — leadership built on superior reliability and long-term performance perfection — your assurance of quality.

You can buy the PM-80 with full assurance that it incorporates latest "state-of-the-art" features, that it is carefully built to stringent quality standards, that it will fulfill the most demanding recording requirements.

For details on the PM-80 and RCA's full range of quality recording equipment, write: Dept. 806, RCA Broadcast & Communications Products Division, 2700 West Olive Avenue, Burbank, California, or 36 West 49th Street, New York City.



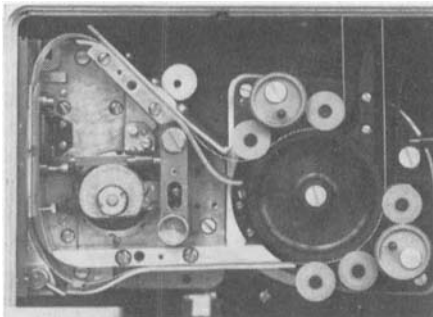
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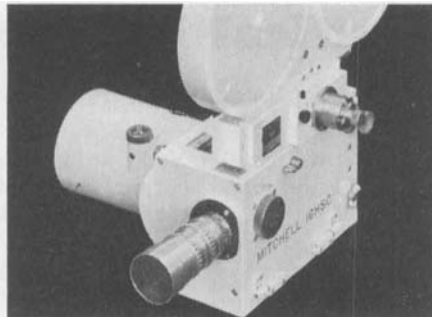
His wings beat five times slower than the Mitchell 16HS exposes frames!

The fastest hummingbird wings whir in an 80-beat-per-second blur. Yet the high-speed Mitchell 16HS can take *five in-motion frames during each wing beat* with perfect frame-to-frame registration . . . at 400 fps! That typifies the way the extraordinary Mitchell 16HS is being used for unmatched accuracy in studio, research, documentary, and instrumentation applications. This advanced, high-speed 16mm instrument features the Mitchell precision pin-registered movement and transport mechanism, with frame-to-frame stability equalling that of Mitchell 24-fps movements. And over its entire speed range, variable from 16 to more than 400 fps, total frame-to-frame registration exceeds the perforation tolerances of any known film. All the renowned Mitchell features are preserved: dissolve mechanism, rackover through-the-lens viewing, focusing, four-lens turret, and special adapters. The camera accepts a wide variety of lenses and motors, making it adaptable for all high-speed, precision motion applications. Send for complete technical information.



Elliptical pull-down path design eliminates film damage from sawing motion of pull-down claw. Pin-registered movement and variable (0° to 140°) shutter assure resolution accuracy at all speeds, with no vibration increase even at 400 fps.

85% of all films shown in theaters throughout the world are filmed with Mitchell cameras.



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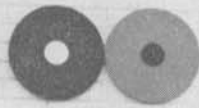
Still Photography, Graphics, Motion Pictures, Programed Instruction, NDEA Institutes. The charts also indicate whether a specific course is for undergraduate or graduate students, or available to both graduates and undergraduates.

Information contained in the directory was compiled from responses to an EMC questionnaire returned by the colleges and universities listed. A copy of the directory is available from the Educational Media Council upon request accompanied by a stamped, self-addressed, standard #10 business envelope.

An in-depth study of motion picture and television at institutes in three European countries will be conducted June 14–August 31 by Boston University's School of Public Communication for a limited number of students. The tour will include visits to film institutes and theaters in Great Britain, France and Italy and will feature seminars, discussions and lectures. A highlight of the tour will be attendance at the Edinburgh Film Festival, August 23–31. The first event of the tour will be a symposium on the position of film as an art of today to be held June 14–25 at Vence, France, sponsored by the International Institute for Advanced Studies in Cinema in cooperation with the Foundation M. & A. Maeght. A study session with film showings, lectures and visits to the Museo del Cinema will be held July 5–11 at Turin, Italy. Further information on the tour may be obtained from Prof. Alvin Fiering or Prof. Anthony Hodgkinson, Boston University School of Public Communication, Film Dept., 640 Commonwealth Ave., Boston, Mass. 02215.

The British Industrial Film Association will hold its 1965 National Awards Competition June 15–16 in London under the auspices of the Federation of British Industries and the British Employers' Confederation. Purposes of the Competition are, mainly, to provide an opportunity for viewing industrial activities and progress; to explain the position of industry in modern society and its relation to social problems; to stimulate production of industrial films of the highest standard; and to make national awards for the best British films and a special award for the film best calculated to promote British exports. Information about the Competition is available from the Secretary, British Industrial Film Association, 30 Queen Anne's Gate, London, S.W.1, England.

The Society of Photo-optical Instrumentation Engineers (National Offices, 205 Ave. I, P.O. Box 288, Redondo Beach, Calif. 90277) will hold its 10th Annual Technical Symposium August 16–20 in San Francisco. An important feature of the program will be a papers session on underwater electro- and photooptical instrumentation and an underwater workshop. Plans also include a display in the hotel swimming pool of various types of underwater electro- and photooptical equipment.



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The Film Festival Coordinating Committee, established last year to ensure the best possible American representation at foreign film festivals, has announced procedures for selection of feature films. Distributors and producers who wish to submit films for consideration for the major festivals should write to: Office of the Director, International Motion Picture Service, U.S. Information Agency, 1776 Pennsylvania Ave., N.W., Washington, D.C. 20547. The first major festival for which selections will be made is the 18th International Film Festival to be held May 12-27 at Cannes. Short subjects and documentary films to be exhibited at festivals will continue to be selected by CINE (Council on International Nontheatrical Events).

The Fourth Annual Symposium on the Physics of Failure in Electronics will be held November 16-18 in Chicago. The event is cosponsored by Rome Air Development Center. Emphasis will be on the application of the physics of failure concept, i.e., the identification of the fundamental physical and chemical processes contributing to the degradation of electronic parts and materials, and the interpretation and application of this knowledge to solution of the device reliability problem. Technical sessions will cover such topics as Principles and Applications; Test Analysis and Correlation; Surface Effects; Effects in Films; Bulk Effects; etc. Information is available from:

Morton Goldberg, Symposium Co-chairman, IIT Research Institute, 10 W. 35 St., Chicago, Ill. 60616, or Joseph M. Schramm, Symposium Co-chairman, Rome Air Development Center, Griffiss Air Force Base, Rome, N.Y. 13442.

The International Federation for Information Processing will hold its first meeting in the United States May 24-29 in New York. Designated IFIP Congress 65, scientists from some 50 countries engaged in the development of computers and information processing techniques are expected to report on their work. The congress will emphasize business data processing. Interdata 65, an exhibit of the latest processing systems will be held in conjunction with the congress. The exhibit will feature "third" generation digital computing systems and will include a film program and a lecture series. Further information is available from: Mrs. Grace Urrows, IFIP Congress 65, Room 504, 211 E. 43 St., New York, N.Y. 10017.

At the request of Senator Wayne Morse (D., Ore.), Chairman of the Senate Education Subcommittee, two special demonstrations of the use of films, filmstrips, overhead transparencies, language laboratories, television and other audio-visual systems were given in the auditorium of the new Senate Office Building in February. Arrangements for the demonstrations and exhibits were coordinated by Robert Snider of the Department of

Audio-Visual Instruction, National Education Association and Don White of the National Audio-Visual Association. Other participants included Richard B. Lewis, Director of the Audio-Visual Center of the San Jose (Calif.) State College; Bob Brown, Educational Consultant of Encyclopaedia Britannica Films; and Jack Tanzman of Central School District #4 at Plainview, N.Y.

Sidney P. Solow has been made an Honorary Life Member of American Cinema Editors, in recognition of "his numerous and outstanding contributions to the motion-picture and television industries." This is the second Honorary Life Membership granted by ACE. The first Honorary Life Member is Jack L. Warner. ACE President Gene Fowler made the presentation noting that: Mr. Solow, who is President of Consolidated Film Industries, began his career with that firm as chemist in the New Jersey plant. He transferred to the Hollywood offices in 1936 as Plant Manager and was subsequently promoted to General Manager. In 1954 he was elected Vice-President. In addition to his duties as CFI President he is engaged in a number of professional and community activities including an instructorship at the University of Southern California.

Harry W. Knop, Jr., has been appointed Field Sales Manager for Motion-Picture Products for the Western District Sales Office of the Photo Products Dept. of E. I. du Pont de Nemours & Company. His headquarters will be in Los Angeles. Prior to this appointment Dr. Knop held the post of Supervisor of Motion Picture Products at the Du Pont laboratory in Parlin, N.J. His successor is Robert E. Wayrynen. Mr. Wayrynen has been with du Pont since 1952, first as a research chemist and subsequently as a research supervisor.

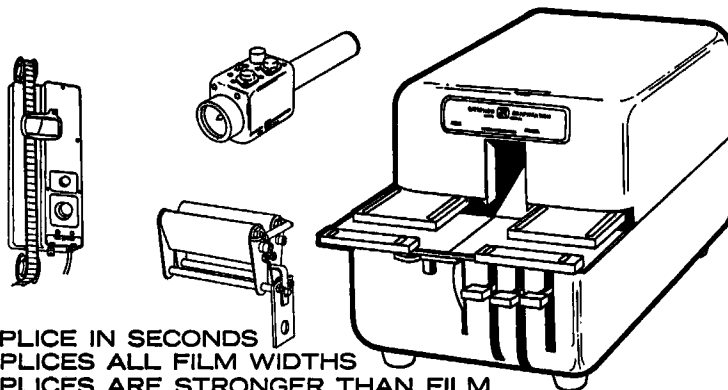
Andrew H. Persoon has been appointed Technical Director of the Magnetic Products Division of the 3M Company, 2501 Hudson Road, St. Paul, Minn. 55119. He succeeds R. A. von Behren who was recently appointed Technical Director of 3M's Revere-Minicom Division. Mr. Persoon has been with 3M since 1943. Since 1961 he has been Chemical Development Manager for the Magnetic Products Division where he has been responsible for research and development work on magnetic oxides and dispersions as well as for magnetic tape formulation changes. In his new post he will coordinate research activities involving "Scotch" Brand sound recording tapes, video tapes, magnetic film and computer and instrumentation tapes.

Mr. von Behren has been with 3M since 1948 and has held various managerial positions. In his new post he will coordinate the research activities of the Revere-Minicom Division. Manufacturing facilities of the division are located in Chicago and in Camarillo, Calif.

Robert A. Matthews has been appointed Sales Specialist for sound recording, professional and video tape products in the

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TAPE SPLICES FOR CONTINUOUS FILM PROCESSING
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The song of a bird, the sound of a wave, the cry of a child. The endlessly changing din of a large city. The hundred or more instruments of a symphony orchestra. Capture them all with Gevasonor magnetic sound films.

In countless film studios all over the world, Gevasonor magnetic sound film has proved to be an invariably high class film which guarantees faithful reproduction, even of notes of the highest frequency. Polished Gevasonor film is suited for all recording equipment including yours!

Gevasonor sound film is supplied in many types, including:

Type 2.01: the standard magnetic sound film, fully coated with an iron oxide layer; available in 35, 17,5 and 16 mm widths.

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Type 2.21: with magnetic track and balance stripe for the synchronisation of 35 mm film productions.

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In the U.S.A:
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In Canada:
Photo Importing Agencies Ltd.
29 Gurney Crescent, Toronto, Ontario

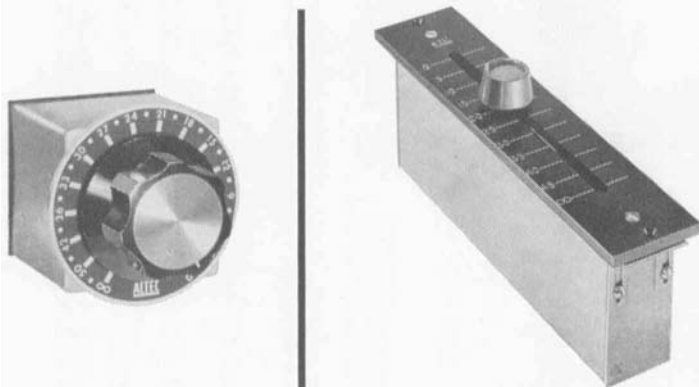
GEVAERT

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MORE NEW STUDIO EQUIPMENT FROM ALTEC

LATEST ATTENUATOR LINE ACHIEVES LESS THAN 1 MILLIOHM CONTACT RESISTANCE, LOWER NOISE, EASIER UPKEEP, LONGER LIFE



The hoped-for possibility has developed into working reality—we've managed to come up with the finest attenuators yet developed. More than 300 types are available with either solder terminals or as plug-ins, either rotary or straight-lines, and in such categories as mixers, calibrated controls, calibrated grid control pots, VU range extenders, decade attenuators, impedance matching networks, decade resistors, faders, and stereo pan potentiometers. And they're all listed in the new Altec Attenuator Catalog which we've printed as a convenient reference for your aid.

A LITTLE ABOUT A LOT OF IMPORTANT IMPROVEMENTS

You might like to know how some of these improved attenuators were engineered. For instance, "coin" silver, which is normally used to make brushes, contains copper and is subject to oxidation—reducing conductivity and raising noise level, among other things. So we've made our brushes of "fine" (pure) silver because it doesn't oxidize—it sulfides. Silver sulfide does not reduce conductivity; in fact, it actually has a helpful lubricity. We use dual brushes on all our attenuators—both rotary and straight-line models. They are independently sprung and so guided as to eliminate "stumble" from contact to contact.

ADDED DEVELOPMENTS

Our new attenuator line is designed so that we'll be able to gang up to 8 of them in tandem, enabling you to operate the whole group with one control. We've produced rotary attenuators that will give you more steps in less space. How? Instead of putting them in the conventional round cans—we're building ours in square ones. And we're using the corners (space that previously went to waste) for the wiring.

DON'T FORGET THE CATALOG

The new Altec Attenuator Catalog we mentioned above has all the technical characteristics and other relevant data on the new line. We'll be delighted to send it to you. So write today, Dept. J-4.



ALTEC LANSING
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ANAHEIM, CALIFORNIA

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New York metropolitan area for Reeves Soundcraft Div., Reeves Industries, Inc. His headquarters will be in the firm's New York Sales Office at 302 E. 44 St. He will be responsible for the firm's full line of sound recording products.

In a separate announcement Reeves Soundcraft reported appointment of E. S. Gould Sales Co. of Montreal, Canada, as its representative in Canada for all sound recording products. The firm of Applied Electronics, Ltd., with headquarters in Toronto will act as representative in Canada for professional sound recording products.

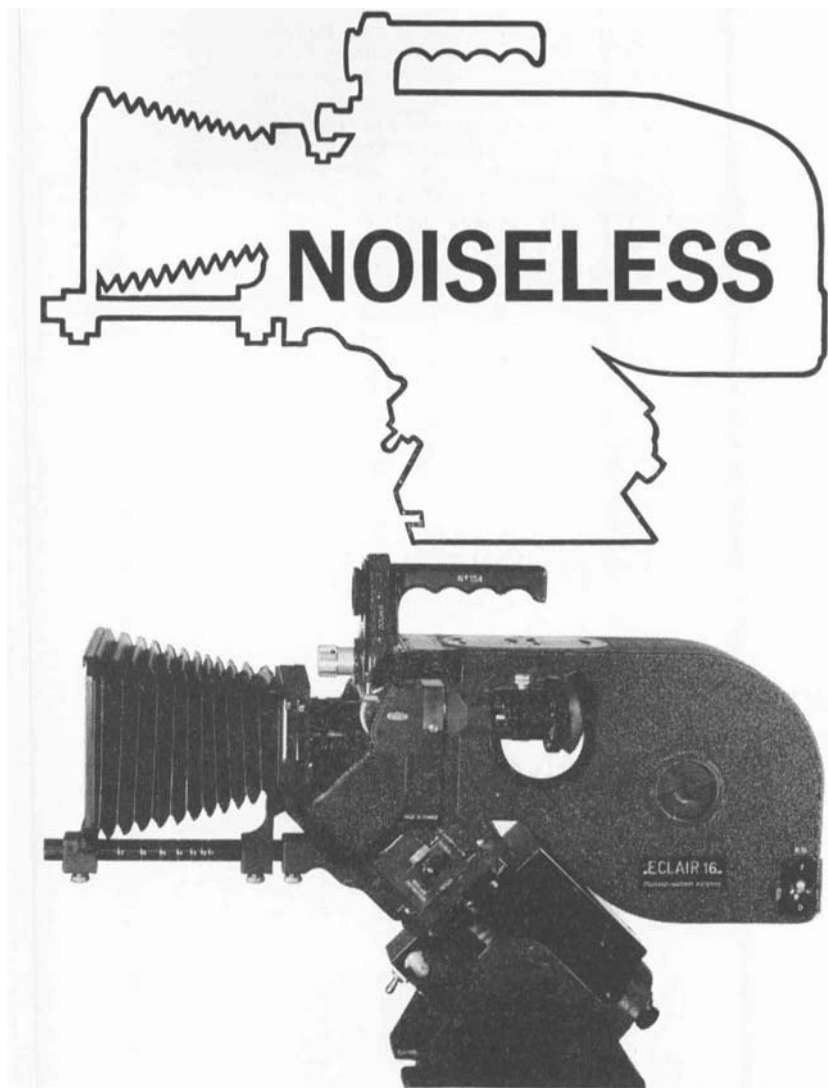
Michael Sloun has been appointed Office Manager for S.O.S. Photo-Cine-Optics, Inc., 387 Park Ave. South, New York, N.Y. 10016. Mr Sloun has been with S.O.S. since 1957 and previously held the post of Sales Engineer. Mr. Sloun began his career as a film technician in Israel. Later he went to Santiago, Chile, where he owned and operated his own motion-picture import and export business.

Richard D. Thompson has been appointed to the newly created position of Theatre Div. Manager of Lighting & Electronics, Inc., Brooklyn, N.Y. 11201. Mr. Thompson was formerly with the Theatre Dimmer Division of Ward Leonard Electric Co., Mount Vernon, N.Y., and has had ten years of experience in theater and television lighting design and application. In addition to professional lighting equipments, Lighting & Electronics produces equipments suitable for amateur use and small theater groups.

Robert J. Harrington has been made Vice-President of Belock Instrument Corp., 112-03 14th Ave., College Point 56, N.Y. In addition to special corporate assignments, Mr. Harrington has been General Manager of the André Debrie Division for several years. Prior to his association with Belock, Mr. Harrington was Treasurer and General Manager of ITI Electronics, Inc., a Clifton, N.J., manufacturer.

Les Brown has been appointed to the newly created position of Chief Engineer, Cine Products, for Beckman & Whitley, Inc., San Carlos, Calif. He was formerly Chief Engineer for Mitchell Camera Corp., Glendale, Calif. In his new post Mr. Brown will report to Lawrence R. Teeple, Manager of Cine Products, and he will direct the engineering of all motion-picture products. His major initial responsibility will be the CM16 newsfilm camera (*Journal*, p. 744, Aug. 1964). In addition to cine products, Beckman & Whitley manufactures ultra-high-speed streak and framing cameras and time resolved spectrograph equipment.

Richard M. Blanco has been appointed General Manager, Technicolor Operations, at the Kennedy Space Center, Cocoa Beach, Fla. Mr. Blanco has been associated with Technicolor Corp. for more than 30 years where he has held various managerial positions. During World War II he served for four years as a Navy combat photographer on Adm. Kincaid's



THE ECLAIR NPR 16

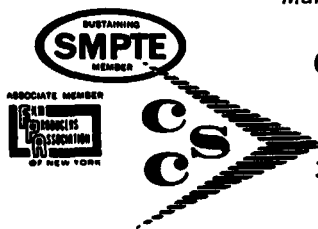
A truly remarkable camera . . . noiseless / portable — may be hand held / rotating eyepiece / quick change magazines / built-in sync pulse signal / registration pin movement / reflex viewing / rugged construction.

- | | | | |
|---|-----------|---|----------|
| ● Camera head, complete | \$2396.00 | ● Carrying cases, deluxe custom metal for camera and access | \$ 75.00 |
| ● Magazines, 400' coaxial | 788.00 | ● Carrying cases, deluxe custom metal for magazines | 40.00 |
| ● Motors, 24 fps synchro w/60 cycle generator | 666.00 | ● Zoom lenses, 12/120mm, f:2.2 | 740.00 |
| ● Batteries, 12V nickel cadmium w/charger | 200.00 | ● Zoom lens supports | 30.00 |
| ● Matte box/Filter holder | 125.00 | | |

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staff, 7th Fleet. Prior to his present appointment he was Director of Sales for New York—Motion Picture Division and Military Sales Division.

Thirty-five years of motion-picture industrial history was recognized by the City of New York by the presentation of a special citation to Saul Jeffee, President and founder of Movielab, Inc. Movielab, founded in 1930, is now engaged in a major expansion of plant and facilities. The citation, signed by Mayor Robert F. Wagner, commends Mr. Jeffee for his participation in "New York City's diverse and expanding economy."

Colorado Video, Inc., Box 928, Boulder, Colo. 80301, is a new company in the electronic communications and instrumentation field. Announcement was made by Glen Southworth, President. The new organization will place initial emphasis on specialized large-screen oscilloscopes, Mr. Southworth said. Later the firm is expected to undertake development and manufacture of a series of devices for industrial and educational use. Until recently Mr. Southworth was a research engineer for Ball Brothers Research Corporation in Boulder. While there he was responsible for the development of slow-scan television systems, digital television equipment and other video devices.

Perkin-Elmer Corp. has acquired Boller & Chivens, Inc., of South Pasadena, Calif., through an exchange of stock and has also acquired the firm's partnership assets, it was announced jointly by the two companies. Boller & Chivens produces astronomical telescopes and also makes specialized electromechanical devices with annual sales in excess of \$1 million. The firm will continue to operate under its present management and name as a unit of Perkin-Elmer's Electro-Optical Division.

Pathe Laboratories, Inc., of New York and Hollywood and Humphries Laboratories, Ltd., of London have agreed to form a new joint company operating in the United States and Great Britain; announcement was made by Paul Adorian, Chairman of Humphries Holding Ltd. and Lawrence I. Weisman, Chairman of Pathe Laboratories. There has been a close liaison between Pathe and Humphries for some years past, the announcement stated. The new company will continue the policy of Humphries (Film Financing) Ltd., which has provided backing for more than 20 independent films.

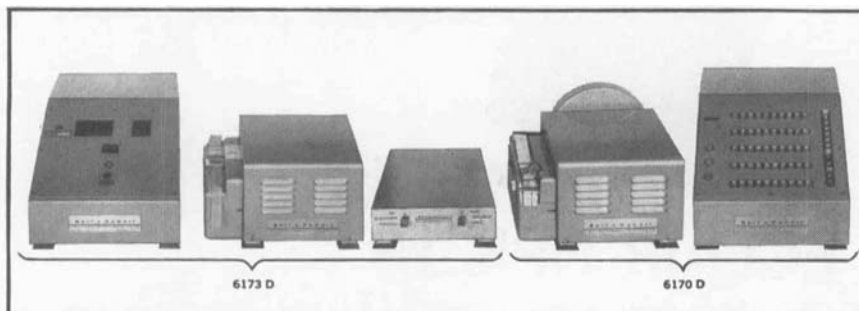
A new operations center combining warehousing and shipping operations has been established by North American Philips Co. at 30-10 Review Ave., Long Island City, N.Y., to provide faster delivery and service on Norelco projectors and sound equipment. The new center provides 100,000 sq ft of space at ground level plus 10,000 sq ft on the mezzanine for offices. The roof of the structure holds "one of the largest signs in the New York metropolitan area," the announcement stated. The trade name "Norelco" covers the expanse of the roof sign which weighs 56 tons, and measures 128 ft in length and 75 ft in height. In addition, time, temperature and product announcements are flashed in letters and numerals approximately 10 ft high.

Fiorelli Films, Inc., Research Drive, Stamford, Conn., is a new organization formed to produce documentary films for educational and public institutions and industry. The new company has announced availability of experienced writers, directors and editors to research and analyze each film project, write the script and cast it into fitting film format. The firm is equipped to handle the entire film production process from script to release print, or to produce from a script prepared by a client, in 16mm or 35mm, color or black-and-white, as well as filmstrips with or without sound.

Mitchell Camera Corp., 666 West Harvard St., Glendale, Calif. 91209, has announced expansion of their product line by the acquisition of Cinerama Camera Corp.'s line of photoinstrumentation equipments. Included are 600-frame/sec 16mm cameras and 300-frame/sec 35mm and 70mm cameras.

The Brooks Institute of Photography, Santa Barbara, Calif., has announced expansion of its Motion Picture Depart-

FAST COLOR CHANGES, EVEN IN AN ANSWER PRINT—FROM A PRE-PROGRAMMED PRINTING SYSTEM

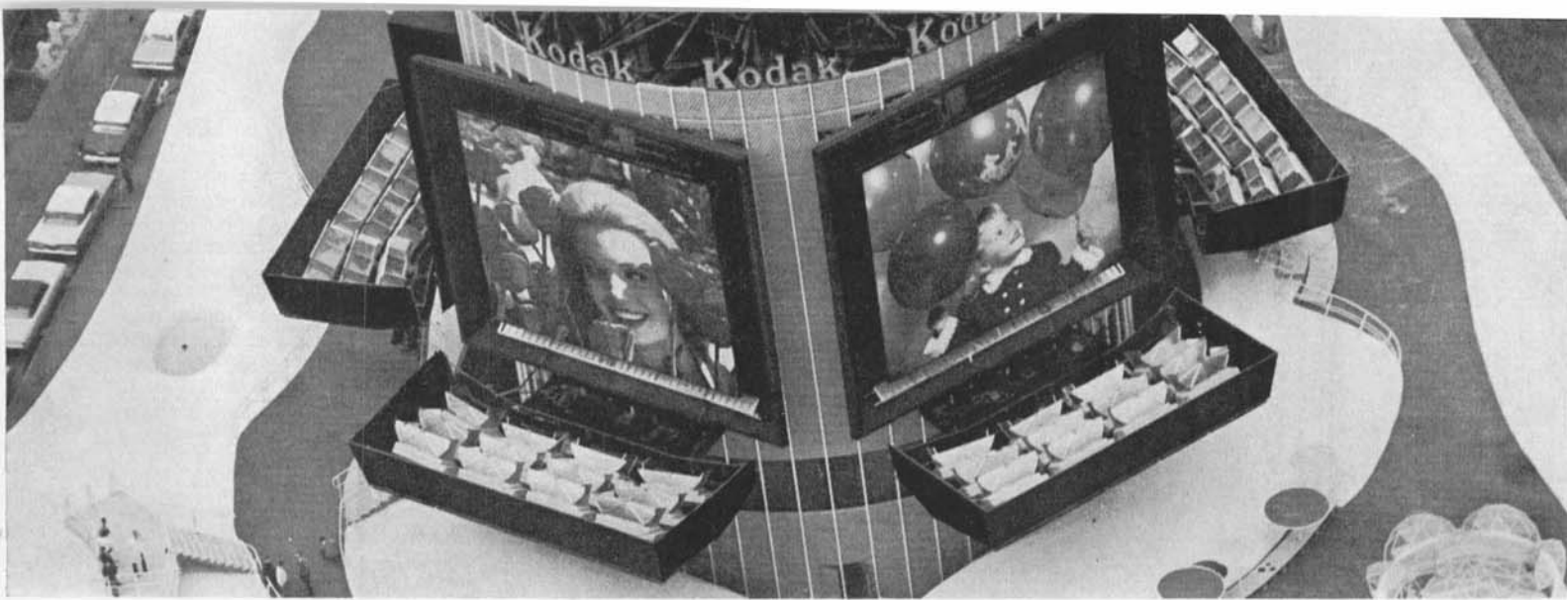


The Bell & Howell Additive Color Printing System is punch-tape controlled for consistent color accuracy and high speed operation. The 6170-D program tape punch unit, quickly pre-programs all color timers information, scene-to-scene color changes, fade lengths of 16-24-32-48-64-96 frames, and zero close for extended printing. The 6173-D, checker duplicator unit, verifies the program and allows for last minute corrections or additions in the control tape. Corrected tapes made almost instantly and a new answer print in record time, is one of the performance benefits of this Bell & Howell system.

For more detailed information, please write or phone
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KODAK'S WORLD'S FAIR PAVILION PICTURE TOWER INCORPORATES FIVE 30'x35' COLOR PRINTS, LIGHTED BY A BATTERY OF OSRAM XENON LAMPS.

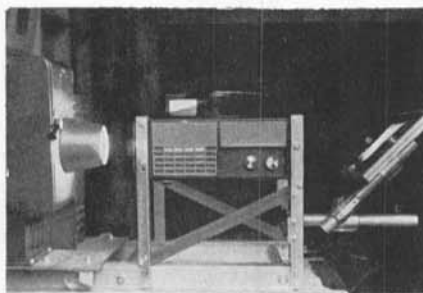
One of the largest industrial exhibits at the Fair, the Kodak Pavilion houses over 15 different show areas... One of its principal attractions is a giant circular "picture tower" rising eight stories above the Fair grounds. Around

the tower five giant outdoor color prints, each measuring 30'x35', are front-lighted by Osram Xenon Lamps to a brilliance which makes them appear to be transparencies.



Color Projection at Shea Stadium

Baseball fans attending the night games at Shea Stadium have no difficulty telling who's up at bat. They can see a color photograph of the batter projected on a 24'x18' screen above the scoreboard. Rear projection system designed by Cine Electronic Systems of New York, uses 2500 watt Osram Xenon lamps. A 3 1/4"x4" slide is used and selection is remote controlled from press box 600 feet away.



Eastman Kodak Carousel Slide Projector

... modified for use with the Osram Xenon 450 watt point source lamp is used in conjunction with two front surface mirrors and a rear projection screen for the continuous projection of color slides in a Kiosk at the Eastman Kodak Pavilion.

First at the Fair...

MACBETH OSRAM / XENON LAMPS

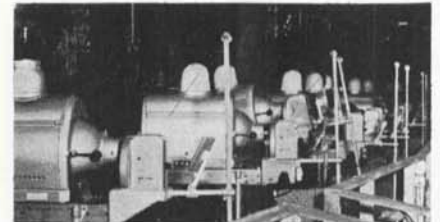
One of the vivid memories most people will take away from the New York World's Fair is that of the spectacular lighting and projection systems exhibitors are using, to attract visitors to their exhibits, and because of the individual and cooperative effort of such progressive original equipment manufacturers and audio visual firms as those mentioned in the text THE LIGHT SOURCE BEHIND THE BEST OF BOTH IS OSRAM XENON.

First in quality...

Here are some of the reasons behind the choice of Osram Xenon:

- It offers an efficient color correct source, similar to sunlight.
- Color remains unchanged, even when input is varied over a wide range.
- Light output may be held constant over the rated life of the lamp.
- There is no messy collection of residue from combustion.
- Months of continuous operation from a single lamp.
- Immediate starting.
- No burning in or heating up required.
- Point source.

Macbeth Sales Corporation, the exclusive representative in the United States for Osram Xenon Lamps, stocks an extensive inventory of the various lamp types and accessories to assure fast uninterrupted delivery. For complete specifications, prices, and recommendations as to your specific needs, please address correspondence to Macbeth Sales Corporation at the address shown below.



Battery of 16 MM Norelco Projectors

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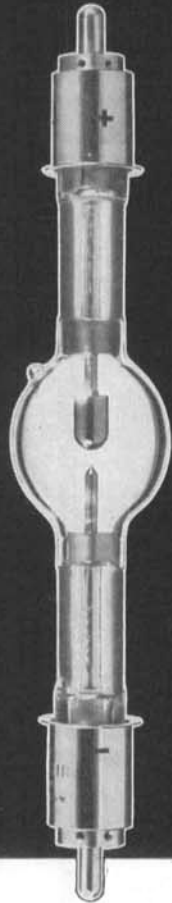


Johnson Wax

18 minute film "TO BE ALIVE" is shown on three screens using Xetron lamp housing incorporating 2500 watt Xenon light sources. At times the film is presented as a simple wide image and at times as a rapidly changing series of multiple images. This system was designed by Reevesound Company, Inc. of New York.

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ment which is now housed in a 12,000-sq ft building at 2020 Alameda Padre Serra, Santa Barbara, at a site once occupied by the University of California Santa Barbara Campus. The department's new quarters contains classrooms, sound stages, editing rooms, black-and-white processing laboratories, and title, animation and sound recording rooms. The main sound stage measures 40 by 80 ft with an 18-ft ceiling. Sound stages are lighted by Sylvania quartz lights suspended from the ceiling to eliminate floor cables. The new facilities will comfortably accommodate more than 50 full-time students.

A new 35mm color reversal film processing and printing service, supplementing a similar black-and-white service, has been announced by Bebell & Bebell Color Laboratories, Inc., 108 W. 24 St., New York, N.Y. 10011. Additional printers have been installed to meet the demand for color reversal work prints, the announcement stated.

The SNAP (Systems for Nuclear Auxiliary Power) 10A tested in the Atlas Agena launched early in April opens the door to the development of long-range space vehicles powered by nuclear systems. Unlike nuclear power plants on earth, SNAP 10A utilizes silicon-germanium thermoelectric power conversion modules which operate without moving mechanical parts to convert the nuclear reactor heat directly into electricity, producing 500 w of usable electric power. The modules were developed by RCA and the system was designed and assembled for the Atomic Energy Commission by the Atomic International Division of North American Aviation, Inc.

The conical structure of the SNAP 10A power converter is made up of 120 thermoelectric modules arranged in 40 strips around the periphery of the spacecraft. The nuclear reactor is at the apex of the cone. Heat from the reactor is transferred to the thermoelectric modules by means of a closed loop system containing a liquid sodium potassium alloy. Each module contains 12 thermoelectric couples, which individually produce 0.37 w at 0.04 v. These couples are connected in series-parallel circuits to yield more than 500 w at approximately 30 v.

The Clearinghouse for Federal Scientific and Technical Information (U.S. Department of Commerce) has expanded its U.S. Patent announcement service. Since January 5, 1965, the Clearinghouse has announced in its semimonthly publication, *U.S. Government Research and Development Reports* (sold by Superintendent of Documents, U.S. Government Printing Office, at \$15 per year) abstracts of recently issued patents that are owned by the government. Such patents were previously announced in a semiannual report called *Patent Abstract Series*, which has been discontinued. The Clearinghouse is also beginning a new program to announce all recent private patents within areas of high industrial interest. Copies of patents announced by the Clearinghouse may be purchased from the Commissioner of Patents at a price of 25 cents for each patent.

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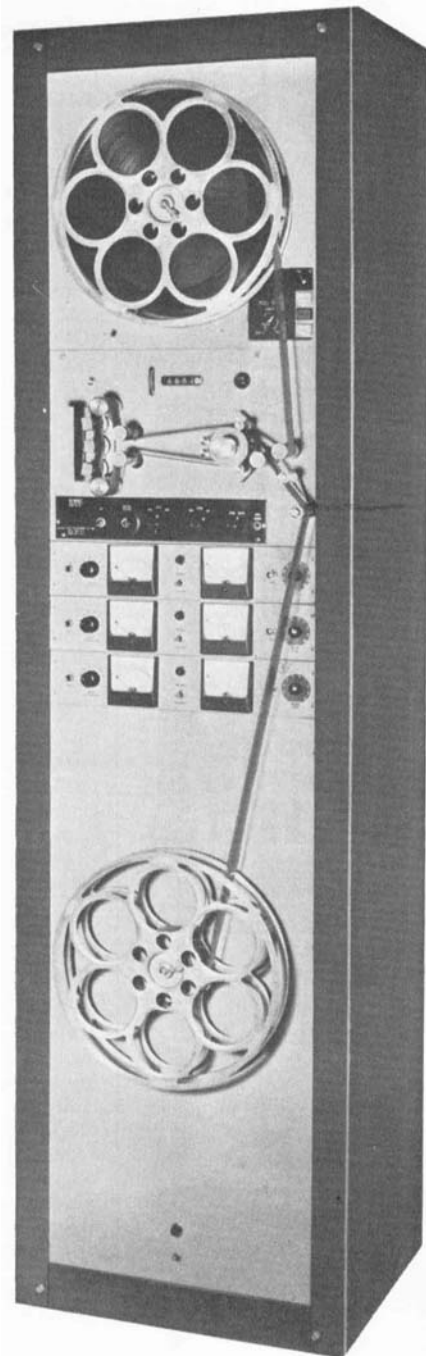
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LAB-TV

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Twelve new ultra-high-frequency television stations linked by a 1,250-mi microwave network have been proposed to the Illinois Superintendent of Public Instruction for a statewide educational television system. The proposed educational television system has been outlined in an engineering design and operational study by the Jansky & Bailey Divisions of Atlantic Research Corp., Alexandria, Va. Such a network would provide both normal broadcast and closed-circuit program exchange throughout the State of Illinois. Preliminary budget estimates in the engineering report indicate that the initial cost would be approximately \$7,750,000. According to the report, the transmitters would be located at Carbondale (Goreville), De Kalb, Edwardsville (Carlinville), Freeport, Kankakee, Macomb, Olney, Peoria, Quincy, Springfield, Streator and Rock Island-Moline.

Frank Naphin has been appointed Manager of the Television Department for the Mid-West Region of Sterling Movies, Inc., 200 S. Michigan Ave., Chicago, Ill. 60604. In his new post he will supervise the development and programming of Sterling's nationally syndicated shows. Donald Thorkelson succeeds Mr. Naphin as Manager of Operations of the Mid-West Division. In this capacity he will supervise the distribution of sponsored films throughout a 10-state area.

William F. Mulcahy has been appointed President of TelePro Industries, Inc., Cherry Hill, N.J. Mr. Mulcahy was formerly with Radio Corp. of America where he held various executive positions. He also held the post of General Manager with United Aircraft Corp.'s Hamilton Standard Electronics Div., Broad Brook, Conn. He joined TelePro in 1963 as Vice-President and General Manager.

Myrra Spector has accepted an appointment to the sales staff of Jack Pill's Camera Equipment, 6510 Santa Monica Blvd., Hollywood, Calif 90038. Miss Spector was previously associated with S.O.S. Photo Cine Optics, Inc. The firm is presently expanding its range of operations and services and new lines of professional motion-picture, television and photoinstrumentation equipments are being added.

The Story of TruColour 16mm Prints is the title of a release by Reeds Colour Film Laboratories, of London, describing the installation, more than a year ago, and the subsequent operation of a 16mm Bell & Howell Model "C" additive printer — the first in Europe. "Grading," the release stated, "can never become a purely mechanical process, but at any rate it could now be approached on scientific lines. . . . The improved quality gained as the graders became more experienced was noticeable in prints made on Kodachrome, but even more so when, via the internegative process, prints were made on Eastman Colour. So marked was the improvement that it was decided to adopt the name TruColour for prints made from originals or internegatives processed by Reeds and printed on the additive printer."

The machine, designed for a printing speed of 180 ft/min, "has been in continuous use generally for 16 hours a day," the release stated.

Three new appointments, implementing plans to expand technical operations and services, have been announced by Boyce Nemec, President of Reevesound Company, Inc., a subsidiary of Reeves Industries, Inc., 35-54 36th St., Long Island City, N.Y. 11106. Charles Beck, Jr., has been appointed Manager of Marketing and Sales; Victor Gee has been appointed Design Engineer; and Allan Whitney has been appointed Manufacturing Superintendent. Mr. Beck has previously held managerial positions with Hydromatics, Inc., Moeller Instrument Co., Ford Instrument Co., Sperry Rand Corp., and Sperry Gyroscope Co. In his new post he has full responsibility for both national and international marketing and sales of the company's custom-designed motion-picture technical systems as well as professional sound recording and reproduction systems. He succeeds Dennis Kealey who resigned.

Mr. Gee was formerly associated with International Telephone and Telegraph Company's Data and Information Division and earlier was a member of the staff of Robert Martin Engelbrecht, A.I.A., of New York, a firm of consulting architects and industrial designers.

Mr. Whitney has held supervisory positions with Dusal Tool and Mold Co.; Aeroflex Laboratories, Farrand Optical, and Sperry Gyroscope where he was responsible for the manufacture of precision parts for cameras, advanced optical equipment and aircraft.

John H. Tyo, former head of the motion-picture unit of RAND Corp., Santa Monica, Calif., has accepted an appointment to the post of Supervisor of Motion Picture Production, Syracuse University, Syracuse, N.Y. 13210. From 1956 until 1963, Mr. Tyo produced films for the Systems Development Corp., a RAND division connected with the U.S. Air Force. In 1963 he was stationed in Africa working for the Communications Media Project of the Western Nigeria government in Ibadan. His special project was agricultural communications. Mr. Tyo has taught in the motion-picture departments of Pennsylvania State University, the University of California, Indiana University and the University of Puerto Rico. In 1961 he received a doctorate of education from Indiana University. Subject of his dissertation was "A comparative analysis of motion-picture production courses being offered in selected colleges and universities in the United States." He is the author of a *Journal* paper (pp. 648-651, Sept. 1962) on "Teaching Film Production in American Colleges and Universities."



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