

(2) Name of organization where employed.

(3) Attendance at Congress as: (check one) (a) participant; (b) author-lecturer; or (c) exhibitor.

(4) Speaking knowledge of (check where appropriate) (a) French; (b) English; (c) German.

(5) Suggested recipients for information on the Congress.

(6) If author or lecturer, please include potential paper title.

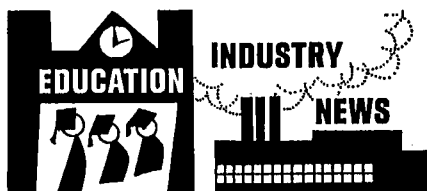
Papers in all areas are welcome. The SMPTE Instrumentation and High-Speed Photography Committee will solicit papers

in the United States, and review abstracts for appropriateness to the Congress. American authors should write to Max Beard, U.S. National Delegate, for information. According to a preliminary announcement, the deadline for abstracts is February 1, 1968, but for U.S. review abstracts should be in by early January. Complete manuscripts should be submitted before May 31, 1968.

The first Congress was organized as an international symposium and sponsored by the SMPTE in 1952, with subsequent meetings in 1954 (Paris), 1956 (London), 1958 (Cologne), 1960 (Washington, D.C.), 1962 (The Hague) and 1965 (Zurich). These meetings are sponsored by various profes-

sional groups of the host country. SMPTE sponsored the 5th Congress in 1960. The SMPTE *Journal* contains many reports and papers of these meetings (see for example, "A Review of the Seventh International Congress on High Speed Photography," in the April, 1966 *Journal*, pp. 349-372). SMPTE published the *Proceedings* of the 5th Congress.

Although each congress is sponsored by organizations within the host country, SMPTE has continuously maintained strong interest in these meetings. The SMPTE Board of Governors has approved sponsorship of the Ninth Congress which will be held in the United States in 1971.



Little Convention at Toronto

The Toronto and Rochester Sections will hold their regular fall "Little Convention" Saturday, October 21, at the King Edward Sheraton Hotel, Toronto.

The theme of the one-day meeting is "Motion Pictures and Television in Education." Six papers have been scheduled.

Highlighting the afternoon's proceedings will be a panel discussion with nine well-known panelists. The evening's activities start off with a cocktail party followed by a dinner dance.

Convention Chairman is Maurice French, Canadian Broadcasting Corp. Moderator is Lou Wise, Assistant Director of Teaching Aids, Toronto Board of Education. The members of the committee are: Harold Eady, Bonded TV Film Service Ltd., *Arrangements*; Harry Clapp, Photo Importing Agencies Ltd., *Program*; Joe Grimaldi, Pathe-Humphries of Canada Ltd., *Registration*; Frank Tate, Photo Importing Agencies Ltd., *Hospitality*; Vi Crone, Film House Ltd., *Ladies Program*; and Les Hadley, *Facilities*.

The speakers and their papers are:

William Davis, Q.C., Ontario Minister of Education, "Ontario's Viewpoint on Motion Pictures and TV in Education"

Louis Forsdale, Prof. of English, Columbia University, New York, "Gutenberg Comes to Films"

E. S. Hallman, Canadian Broadcasting Corp., "The Nation's Network and Its Role in Education"

Willis R. Stockdale and Robert C. Lovick, Eastman Kodak Co., "Evaluation of a System for Mass Production of Super 8 Prints"

Gordon H. Tubbs, Eastman Kodak Co., "Eastman Kodak Looks at the Educational Fields"

W. R. Wilson, Technical Advisor to the

ColorDyne

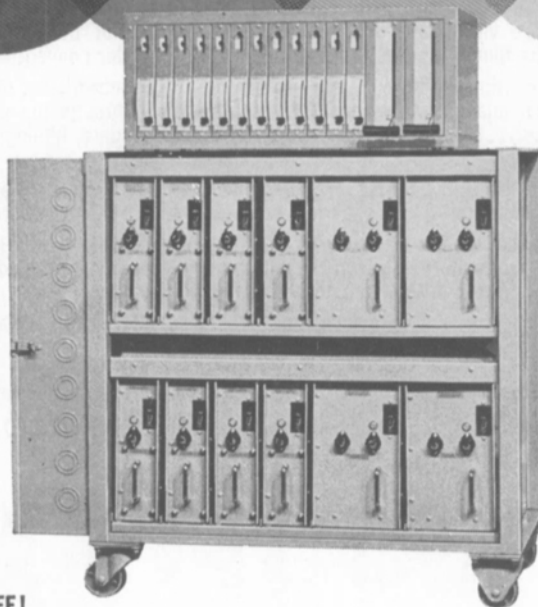
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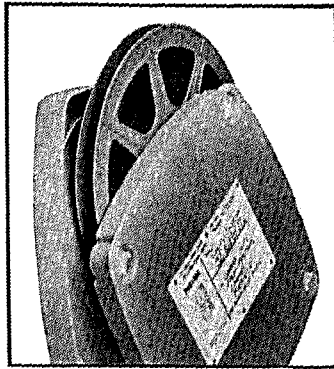
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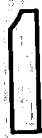
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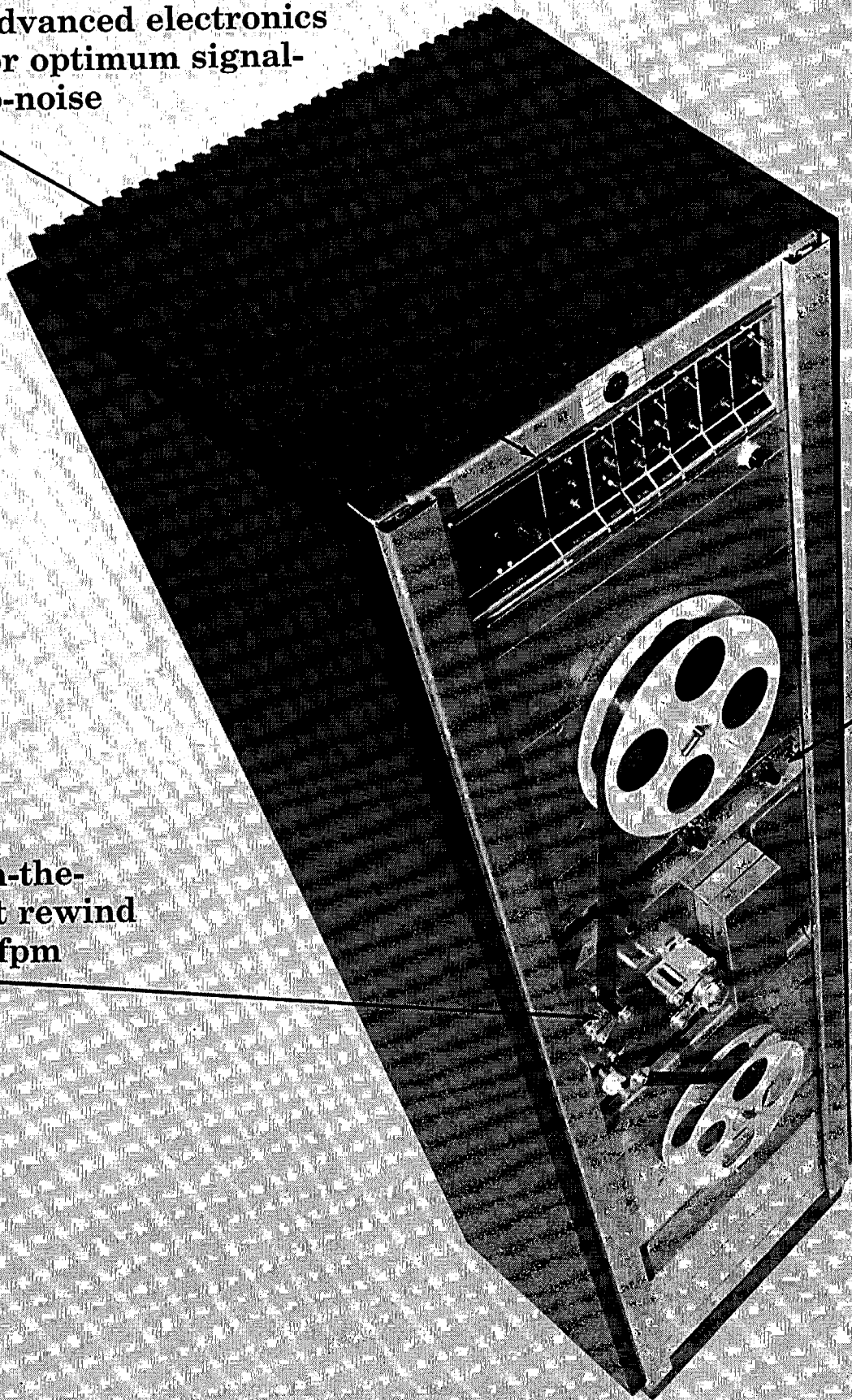
September 1967 Journal of the SMPTE Volume 76



**Advanced electronics
for optimum signal-
to-noise**

2

**Through-the-
sprocket rewind
at 1000 fpm**



If your magnetic recorder/ reproducer doesn't have at least two of these features, it's obsolete!

RCA's new PM-76 TSP has all three. And more. Like silent selective head switching that lets you update any track without glitches, holes, or bumps. Plus new Uni-logic low-voltage DC motor control to facilitate remote and automated operation.

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for each channel
to simplify setup



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Board of Broadcast Governors, Ottawa, "Potentialities of Space Broadcasting for Educational TV"

Participants in the panel discussion will be The Honorable W. G. Davis, E. S. Hallman, W. R. Stockdale, W. R. Wilson, Dr. Louis Forsdale, R. C. Lovick, G. H. Tubbs, T. R. Ide and Dr. R. W. B. Jackson, Director, Ontario Institute for Studies in Education.

There will be a special program for ladies, featuring a luncheon followed by a bus tour of the New City Hall and Yorkville.

Registration for the convention starts at 10:00 a.m. with the Speakers Luncheon starting at noon in the Toronto Room of the hotel. The Papers Session starts at 1:30 p.m. with 20-minute break at 2:45. The cocktail party starts at 6 p.m. and the dinner at 7.

The registration fee is \$3.00; admission to the Speakers Luncheon is \$5.00; Dinner Dance, \$7.00.

Projection Book Plans

A *Motion-Picture Projection and Theater Presentation Manual* is now being written for publication by the Society.

A practical book written primarily for theater owners, managers and projectionists, the goal for the manual is to help improve public film presentation in all types of theaters.

The manual will cover projection room equipment and its operation, as well as auditorium lighting, cleaning and main-

tenance, seating, air conditioning and front-of-the-house operation.

With the cooperation of manufacturers, detailed information in the form of operating instructions and parts manuals will be furnished free of charge to the reader with the mailing of special request cards that will accompany the manual.

Case histories of actual problems and remedies will form part of the projection and sound sections of the manual.

The project was initiated by the advisory committee on motion pictures under the direction of SMPTE Motion-Pictures Affairs Vice-President Richard J. Goldberg, Houston Fearless Corp., Los Angeles. Don V. Kloepfel, Deluxe-General Film Laboratories, Hollywood, a member of the committee, is editing and coordinating the contents of the book. Many experts and specialists in the field are contributing to the manual.

A first draft of the manual has been prepared for presentation to the various SMPTE engineering committees involved for their attention at the 102nd SMPTE Conference in Chicago.

New Film Star: Euclid

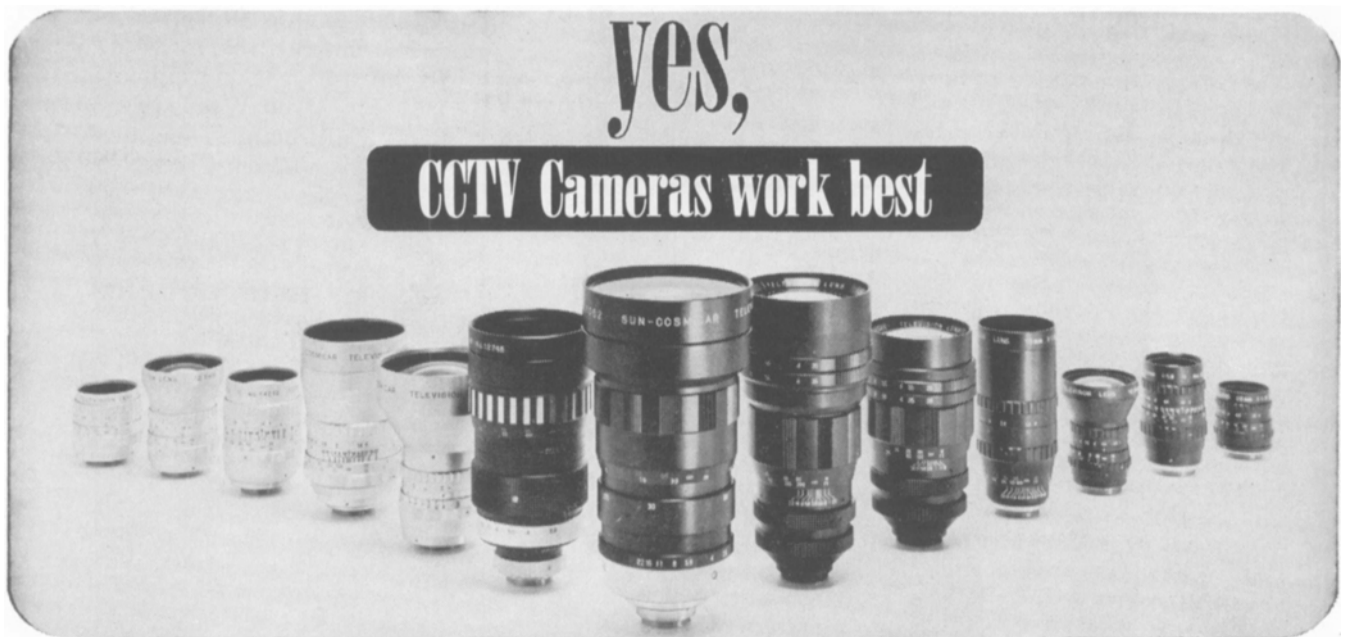
The Minnesota School Mathematics and Science Center, 720 Washington Ave., S.E., Minneapolis, Minn. 55414, has announced availability of mathematics films produced by the College Geometry Project and the Minnemast Curriculum Project.

The story behind the production of these films is one of considerable significance for

film producers and for educators. For example, according to Dr. Seymour Schuster who directs the College Geometry Project, "... it became clear that some of the problems and dangers of a separation between mathematicians and filmmakers, between script and film, were serious. The mathematician, too often, is unaware of film possibilities... (and) the filmmakers visual interpretations tend to be ornamental rather than functional..." The film production work is under the direction of Prof. Allen Downs of the Art Department. To bring filmmakers and mathematicians together, a studio with a special animation room was obtained and a secondhand combination Unistand and Oxberry animation camera was acquired.

One of the first questions to be answered was "What are the general principles by which topics most appropriate to film can be selected?" It was found that problems involving the mathematical concept of *continuity* are well suited for film presentation. Also, anything *dynamic* — that which can be shown by generation or growth — can be clarified by film.

One of the most interesting aspects of the project is the need for specialized equipment, such as the projectivity machine which generates projective transformations. A projective transformation in real space is a one-to-one continuous mapping. Therefore, a film based on this machine will utilize a unique piece of equipment that exhibits the dynamic generation of a continuous transformation. Utilizing the continuity of the transformation in the visual



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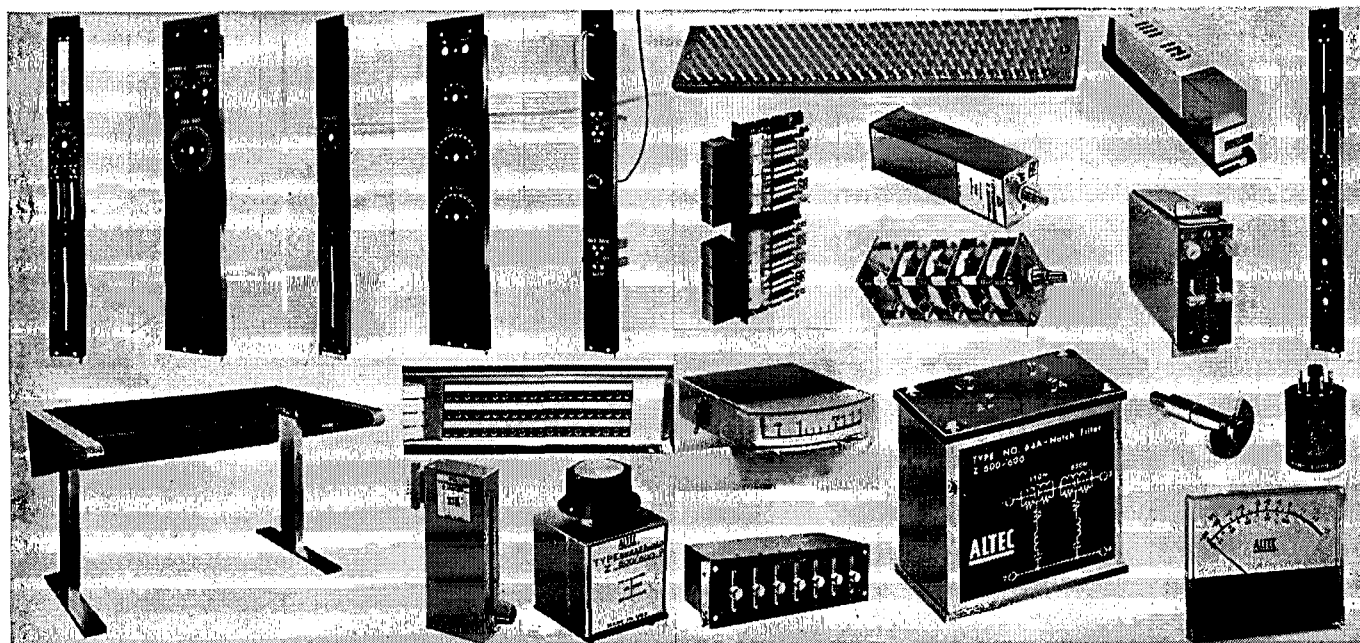
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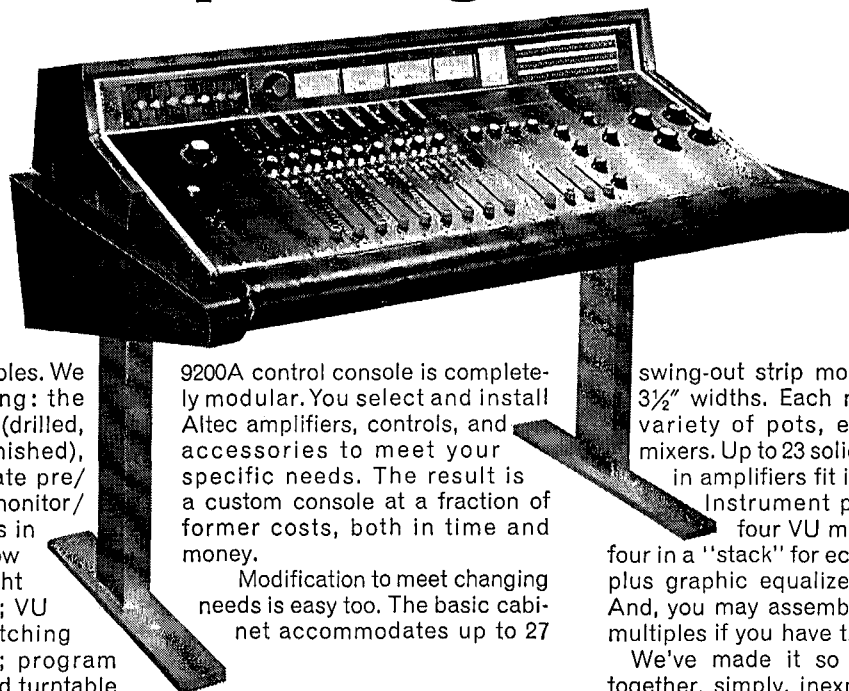
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9200A control console is completely modular. You select and install Altec amplifiers, controls, and accessories to meet your specific needs. The result is a custom console at a fraction of former costs, both in time and money.

Modification to meet changing needs is easy too. The basic cabinet accommodates up to 27

swing-out strip modules of 1 1/4" and 3 1/2" widths. Each module accepts a variety of pots, equalizers, keys, mixers. Up to 23 solid-state Altec plug-in amplifiers fit inside the cabinet.

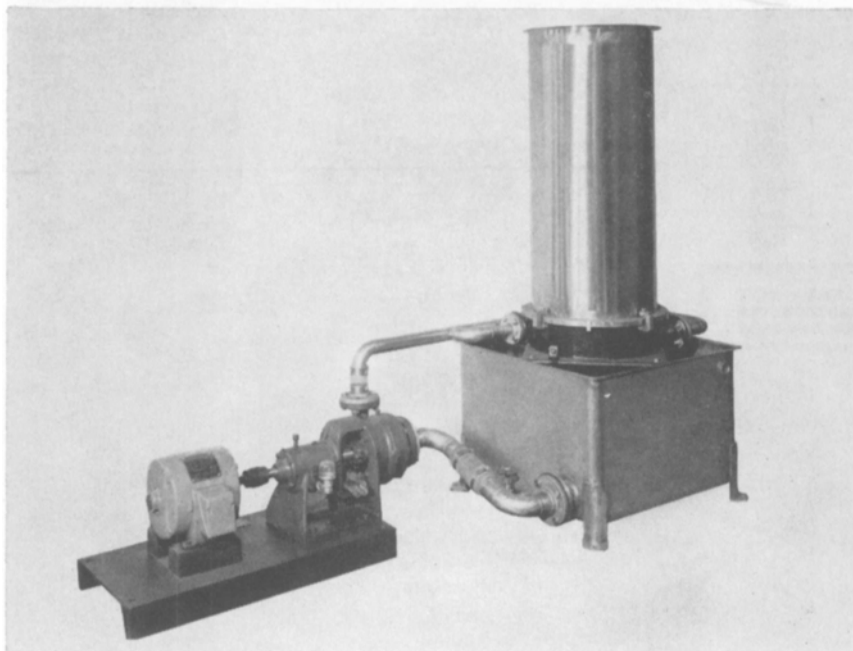
Instrument panel holds up to four VU meters for program, four in a "stack" for echo send channels, plus graphic equalizer and jack panel. And, you may assemble the consoles in multiples if you have the need.

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demonstrates the existence and number of fixed points of the transformation in a most convincing way. Although it was suggested that computer techniques made the projective machine obsolete, it was felt by those participating in the project that "forcing the computer into the arena where there is such a good alternative would be a foolish venture."

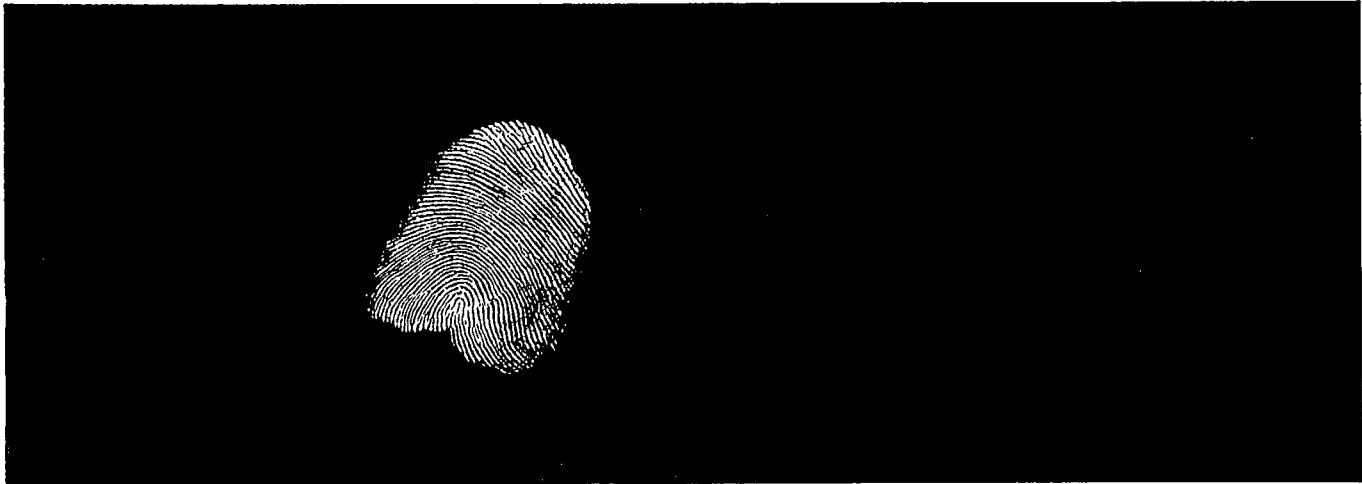
The work with mirrors is quite remarkable. One of the mirror films, *Dihedral Kaleidoscope*, has been honored at the American Film Festival. In filming a second mirror film, *Tetrahedral Kaleidoscope*, Professor Downs "suggested the desirability of having a set of tetrahedral mirrors so that one could actually walk inside. After he indicated what could be done photographically with such a set of mirrors, the mathematicians seized on the idea of enclosing the tetrahedral set (originally consisting of three mirrors) with a fourth, thus creating for a viewer inside the enclosure a view of a tessellation of three-dimensional space."

At present, two filmstrips and seven films have been completed: *Medians of a Triangle* (filmstrip and booklet); *Geometric Vectors: Addition* (filmstrip and booklet); *Orthogonal Projection* (12 min); *Dihedral Kaleidoscope* (12 min); *Central Similarities* (10 min); *Inversion* (13 min); *Curves of Constant Width* (16 min); *Geometric Vectors: Addition* (17 min); *Central Perspectives* (13 min). Films soon to be completed include *Trihedral Kaleidoscopes* (described above); *Geometric Vectors: Multiplication by a Number*, a sequel to *Geometric Vectors: Addition*; and *Fagnano's Problem*. This film relates transformation to geometric inequalities and provides a simple and very visual solution to the problem of finding the triangle of a minimum perimeter than can be inscribed in a given triangle.

Projective Generation of Conics was originally planned for computer generation but will now be accomplished by means of a technique hit upon in experimenting with the film on Fagnano's problem. The film will concern the linear construction of conic sections, exhibiting the methods of Pascal, Maclaurin-Braikenridge, and Steiner, and showing them to be logically equivalent. *Equidecomposability* will show by a sequence of lemmas that two polygons of equal areas can be decomposed (dissected) so that the respective parts are congruent under the isometries translation, rotation and reflection. *Isometries* will treat the subject of isometries in the Euclidean plane. This film will combine live footage with animation and the soundtrack will be prepared by splicing and editing portions of a lecture and informal discussions.

The films have not as yet been given general or commercial distribution.

A series of computer-animated color films will be produced by Halas and Batchelor of Great Britain in cooperation with Communications Contact Inc. of San Francisco. Believed to be the first "computer" films in color, the conception and educational content of the films, their storyboards and design will be undertaken in Great Britain and realization by computer will be carried out by special equipment in California. The series will consist of six four-minute films presenting certain basic concepts in mathematics — *The Parabola*, *The Ellipse*, *The Circle*, *The Circles of a Triangle*, *The Hyperbola*, and *The Theorem of Pythagoras*.



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The films will be released by Longmans Green in Britain and by Encyclopaedia Britannica in the United States.

Essentially, in computer-animated films, the computer translates the flow of numbers through which it normally performs its calculations into successive images which can be rapidly recorded by means of optical cinematography. The moving animation is, in fact, a film-recording of a series of images appearing on the tube of a cathode-ray oscilloscope. The formulation of the successive images is controlled by an electron beam which, in turn, receives its stimulus from a series of numbers stored on magnetic tape. The numbers result from tens of thousands individual calculations made by the computer from a punch-card system, representing the basic programming set up in the computer. The cathode-ray tube (containing more than a million points of reference controlling the formation of the images) is linked to a film camera which makes a record of the images on the tube at a rate of 5 to 10 frames/s.

The fundamental principles of orthogonal projection and their application to the analysis and solution of space problems arising in various engineering fields are outlined in a series of 11 16mm kinescope lecture films distributed by the University of California Extension Media Center, Berkeley, Calif. 94720. The lectures, given by A. S. Levens, Professor of Mechanical Engineering at Berkeley, employ the "thought-model method," which utilizes words and imaginary figures to stimulate visualization

and analysis. The topics covered are: the two basic principles of orthogonal projection; visibility; true length, grade, and bearing of line segments; intersecting, skew, parallel, and perpendicular lines; point view of a line and applications; true shape of plane surfaces; angle problems; developments; intersection; vector quantities and vector diagrams. The films run 24 to 30 min and are in black-and-white and sound.

Affiliate memberships in the Group on Engineering Writing and Speech (G-EWS) of the Institute of Electrical and Electronics Engineers (IEEE) are open to members of this Society who have not been members of IEEE during the last five years. G-EWS encourages the study, development, improvement and promotion of the techniques for preparing, organizing for use, processing, editing, collecting, conserving and disseminating any form of information in the electrical and electronics fields.

Although affiliate members are not eligible to hold an elective office or to vote, they are eligible for all other benefits of the Group, including a subscription to the *G-EWS Transactions* and the *Newsletter*, attendance at G-EWS sessions at IEEE conventions and other locations, and the opportunity to work on G-EWS committees. Affiliates are also encouraged to participate in chapter meetings. Current projects include a writing handbook, a packaged course on writing improvement and the preparation of sessions for conventions. Dues for affiliate members are \$7.50 per year. Information is available from: Tech-

nical Secretary, Institute of Electrical and Electronics Engineers, 345 E. 47 St., New York, N.Y. 10017.


Rochester Institute of Technology has been presented with a professional motion-picture camera system, valued at \$3,403, by Arriflex Corp. in commemoration of the firm's 50th anniversary. The camera will be used by fourth-year students in RIT's School of Photographic Arts and Sciences in the study of advanced motion-picture photography.

RIT has also received \$10,000, the gift of Oscar Fisher Co., to be used for scholarship aid. Two scholarships will be awarded each year for 10 years to RIT students enrolled in the Photographic Science and Instrumentation Department of the School of Photographic Arts and Sciences. Awarded to third-year students, the scholarships are renewable if the recipients continue to qualify. Recipients of the first scholarships for the 1967-68 school year are Richard J. Byer and Steven M. Shore.

Another gift of equipment was received from the News Film Department of National Broadcasting Co. which presented RIT's School of Photographic Arts and Sciences with more than \$5,000 worth of motion-picture editing equipment and film.

The Society of Photo-Optical Instrumentation Engineers has announced a Seminar-in-Depth to be held October 16-17 in El Paso, Tex., under the auspices of the SPIE White Sands Chapter. Subject of the

If you are not now regularly receiving the **SMPTE JOURNAL**, participating in the Society's local Section meetings and semiannual Technical Conferences, or being informed about the technological studies of our industry made by the Society's engineering committees . . .



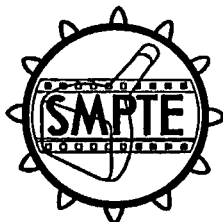
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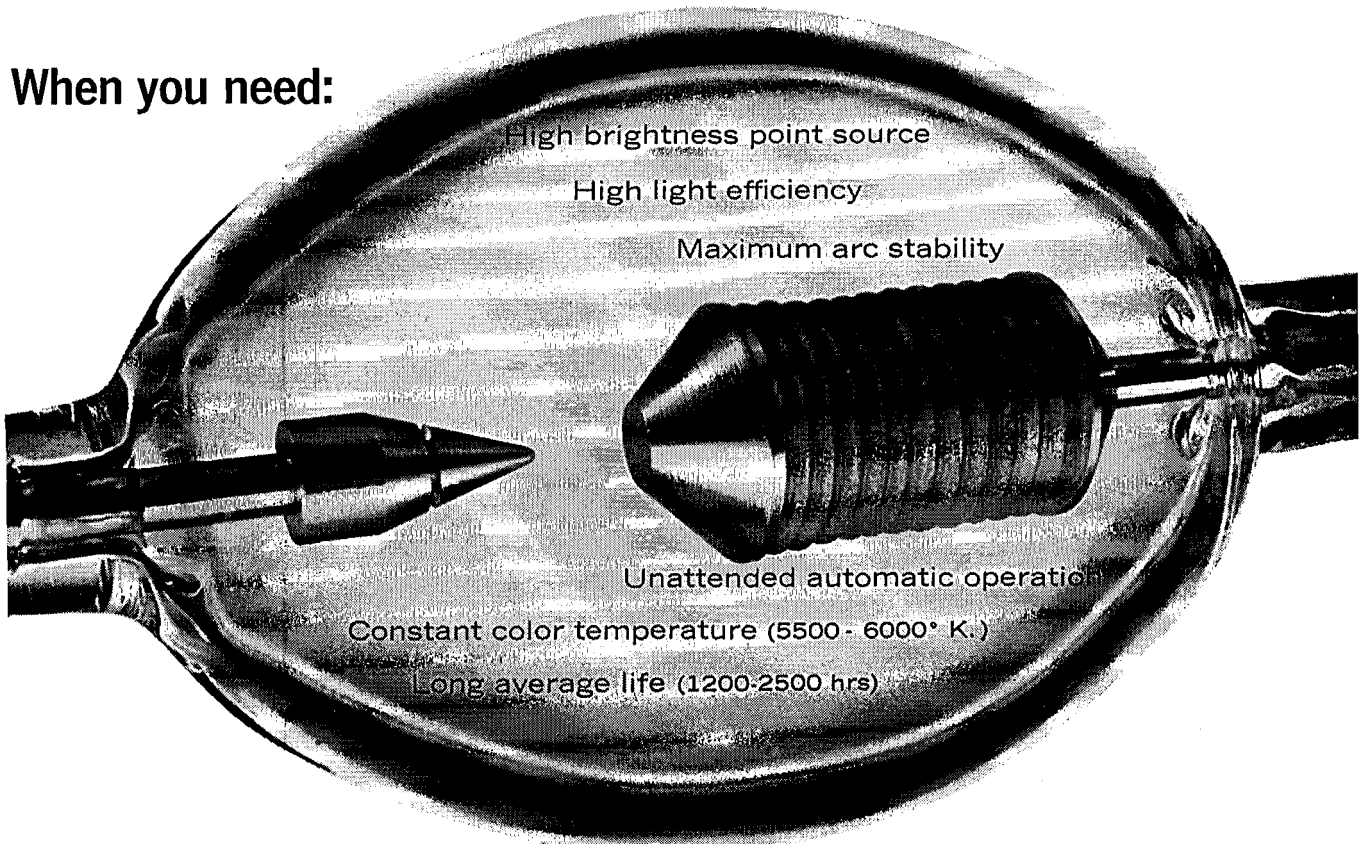
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seminar will be Laser Range Instrumentation. Topics will include Laser Tracking Systems; Laser Ranging Systems; Laser Laboratory and Field Photo-Optical Evaluation; and Laser Special Range Instrumentation Systems. Information is available from Leon Waskiewicz, Technical Program Chairman, P.O. Box 260, W.S.M.R., New Mexico 88002.

Gordon O. F. Johnson of LogEtronics, Inc., has been appointed General Chairman of the Society of Photographic Scientists and Engineers (SPSE) Symposium on Unconventional Photographic Systems to be held October 26-28 at the Marriott Twin Bridges Motor Hotel in Washington, D.C. Assisting Mr. Johnson in assembling the program for

the Symposium are Carl Claus, Xerox Corp.; A. B. Cohen, E. I. DuPont de Nemours Co.; George Dorion, American Cyanamid; Joseph Gaynor, Bell & Howell; and Allan Shepp, Technical Operations Research.

The first graduating class of a new training program sponsored by Eastman Kodak Co. received certificates on July 13 marking completion of the course which commenced last September. The training program included laboratory practices, techniques and safety and included on-the-job laboratory training as well as daily classroom work. The nine graduates (average age, 21) will be qualified for positions as assistants in various laboratories at Kodak Park. A

second class will complete the course in September and two other classes will begin in the fall.

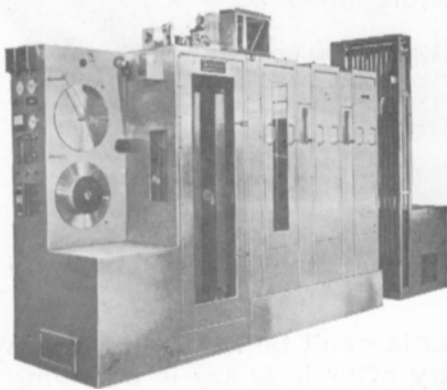
The Epic Forum, a new publication that presents information on specifications, critical characteristics and school performance of instructional materials, equipment and systems, is published by Educational Products Information Exchange (EPIE), a division of Institute for Educational Development (IED), 52 Vanderbilt Ave., New York, N.Y. 10017. Subscriptions are available at an annual rate of \$25.00 for nine issues, with occasional supplementary reports. IED is a nonprofit organization which engages in various research and development studies in the field of education. EPIE was cooperatively developed by professionals in the field of education with the purpose of helping educators to choose wisely among the increasingly numerous and complex products of the education industry and to increase the exchange of information between users and producers of instructional materials.

Sightlines, official publication of Educational Film Library Association, Inc., 250 W. 57 St., New York, N.Y. 10019, will appear this fall and thereafter will be issued every two months. It will incorporate many of the Association's existing bulletins, film review publications and occasional mailings. Editor of Sightlines is Miss Emily Jones, Administrative Director of EFLA. The first issue will have a survey of films and filmmaking, past, present and future. Major departments of the magazine will include The Filmlist, a compilation of new film listings, Who's Who in Filmmaking, Film Review Digest, a compilation of film reviews from other sources, and Service Supplement, which will contain special feature articles of use the EFLA membership and the non-theatrical film field. There will also be sections for discussions of major new trends and developments in audio-visual education, reports on new film production enterprises and new sources of distribution, and information about EFLA activities.

Laboratories RCA, Inc., established by RCA in 1961 to foster closer relations between Japanese and American scientific communities, has moved to a 12,000 ft² research center newly established at 971-2, Aza 4-Go, Zushi-Machi, Machida City, Tokyo. The laboratories formerly occupied rented quarters in downtown Tokyo. Research activities will be concentrated on magnetic materials, semiconductors and semimetals, plasma physics and communications theory. Head of the new center will be Philip K. Baltzer, formerly with RCA Laboratories in Princeton, N.J. The staff will consist initially of some 30 Japanese scientists, technicians and administrative personnel.

Agfa-Gevaert, Inc., Teterboro, N.J., has purchased the assets and facilities of Fotorite, Inc., a Chicago-based distributor of the Fotorite Rapid Processing System. Harry J. Graw, President of Fotorite, will continue under the new arrangement to act as Consultant and Sales Coordinator. The Fotorite processing system uses a 2-bath

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R-60S	Rev. & Neg/Pos.	B&W	16mm	60-100FPM
NP36	Neg/Pos.	B&W	16mm	90FPM
S-150	Neg/Pos.	B&W Spray	16/35	160FPM
FE-30	Ektachrome	Color	16mm	30FPM
FE-50	Ektachrome	Color	16mm	50FPM
FE-100	Ektachrome	Color	16 or 16/35	100FPM
FEC-100	Eastman Neg/Pos.	Color	16 or 16/35	100FPM
FEC-150	Eastman Neg/Pos.	Color	16 or 16/35	150FPM
FEC-200	Eastman Neg/Pos.	Color	16 or 16/35	200FPM
FEC-300	Eastman Neg/Pos.	Color	16 or 16/35	300FPM

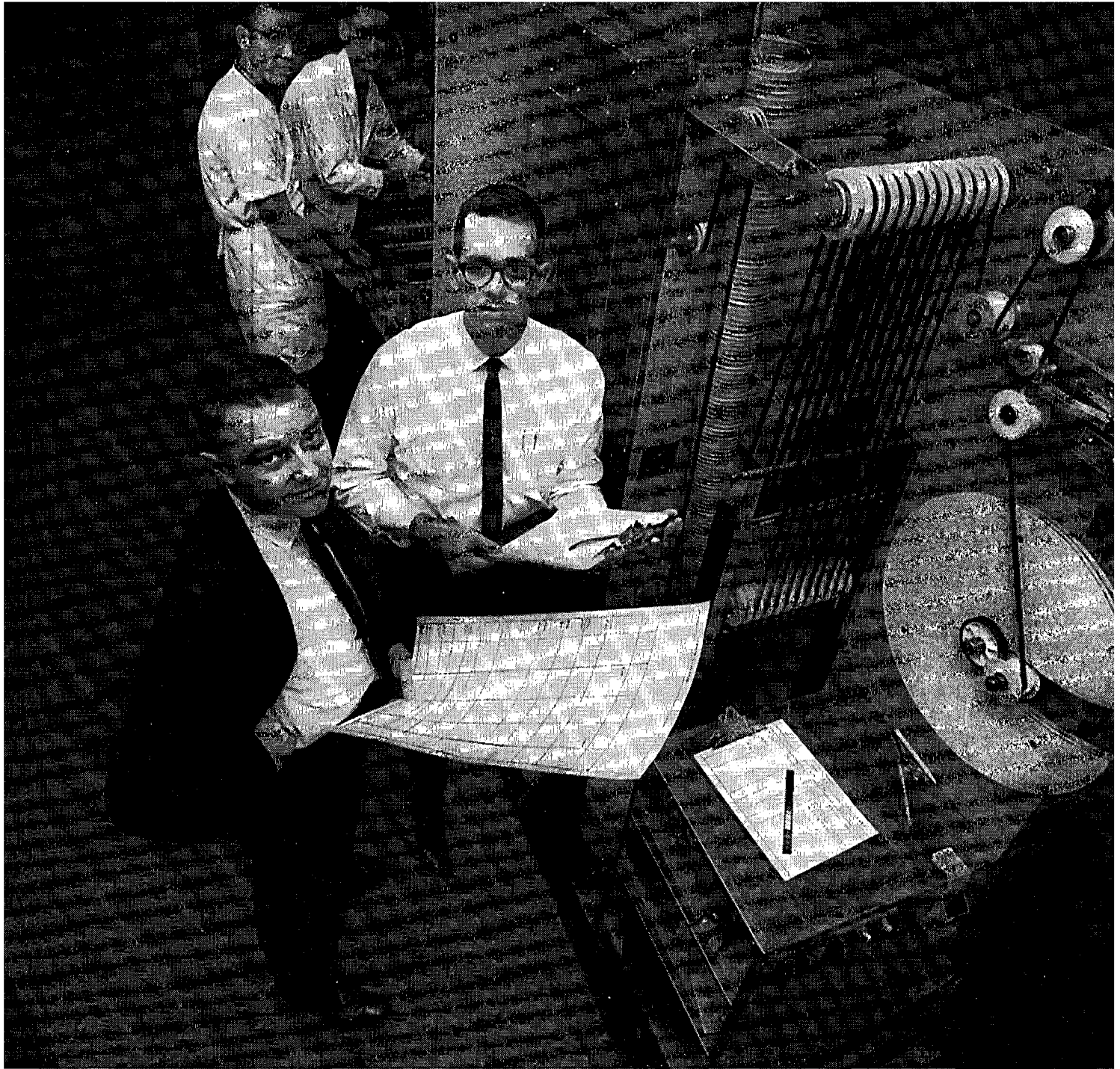
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Kodak

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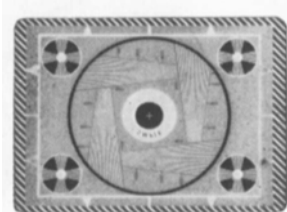
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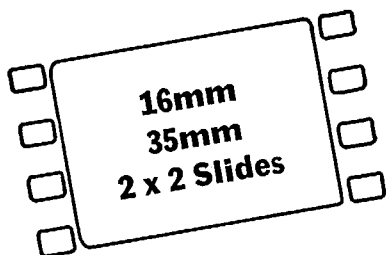
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- low and medium frequency response
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- automatic brightness control
- qualitative picture analysis



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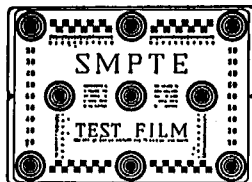


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- azimuth and focus of sound optical train
- signal level and balancing, output
- flutter
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stabilization method to make possible rapid processing.

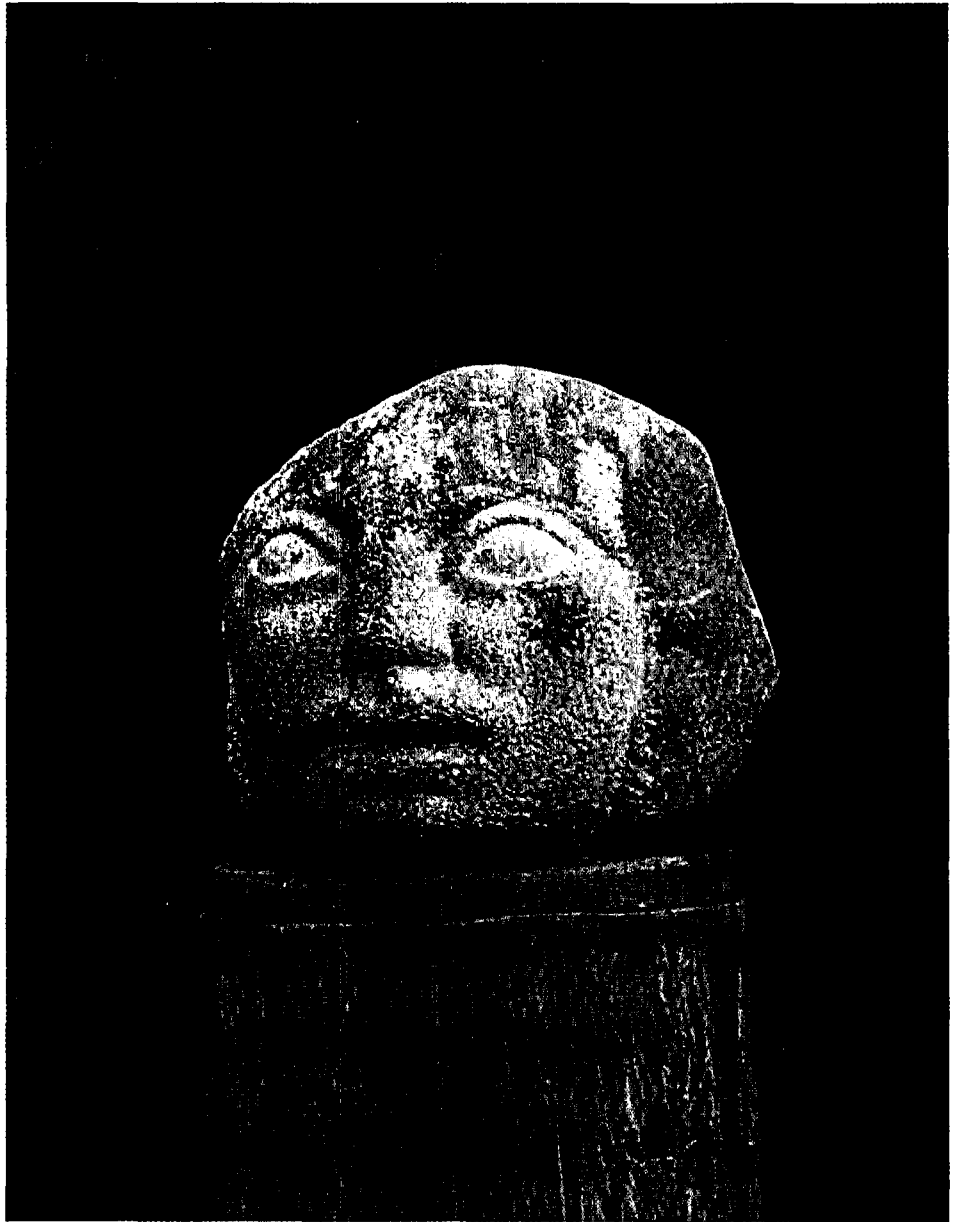
Allied Radio Corp., Chicago has been merged into LTV Ling Altec, Anaheim, Calif., a subsidiary of Ling-Temco-Vought, Inc., Dallas, pending approval of the directors and shareholders of both companies and other legal requirements. In the merger, LTV Ling Altec will exchange a half-share of its common stock and one-fifth share of a new \$2-annual-dividend preferred stock convertible into two shares of LTV Ling Altec common for each share of the 1,103,150 shares of Allied common stock outstanding. Allied Radio, with 2,200 employees is engaged primarily in the distribution and sale of electronic parts and high-fidelity equipment. LTV Ling Altec, with 1,600 employees produce sound systems, telephone and radio equipment and acoustic and vibration test equipment.

Visual Electronics Corp., 356 W. 40 St., New York, N.Y., has acquired the assets of KRS Instruments, Pasadena, Calif., a division of Datapulse, Inc., manufacturers of cartridge tape recording and playback equipment. The new Visual Electronics operation will relocate in the Pasadena area and larger quarters will be provided to accommodate increased activity in custom audio systems for TV broadcast and recording industries, in addition to the cartridge-tape, radio automation, airport paging and educational learning laboratory equipment presently produced. The new Pasadena operation is part of a planned expansion program.

Acquisition of controlling interest in Manhattan Audio Co., new corporate entity of Manhattan Sound Studios, Inc., 460 W. 54 St., New York, N.Y. 10019, has been announced jointly by Joseph J. Macaluso, President of Income Properties, Inc., and Frank E. Pellegrin, President of Pellin Enterprises, Inc. Acquisition of Cineffects, Inc., by Income Properties was announced in February. The acquisitions are leading toward the development of a service complex for motion-picture and television producers, the announcement stated.

Instrumentation Marketing Corp., 820 S. Mariposa St., Burbank, Calif., is a new firm established to provide sales and service for specialized instrumentation manufacturers. The firm will distribute products of Adtrol Electronics, Inc., manufacturers of event correlation equipment; Photo-Sonics, Inc., for 16mm high-speed cameras; Vanguard Instrument Corp. for motion analyzers; and Neyhart Enterprises for 35mm cine-pulse instrumentation cameras and associated control equipment. The firm will also offer consulting services in the instrumentation field.

F & B/Ceco, Inc., 315 W. 43 St., New York, N.Y. 10036, has opened a new branch in Hollywood, Calif. to serve the Western States. Headquarters will be in a 23,000 ft² building at 7051 Santa Monica Blvd. The new facility will be stocked with professional motion-picture equipment, including cameras, recorders, lighting, grip and editing equipment for both sale and rental. Reg-



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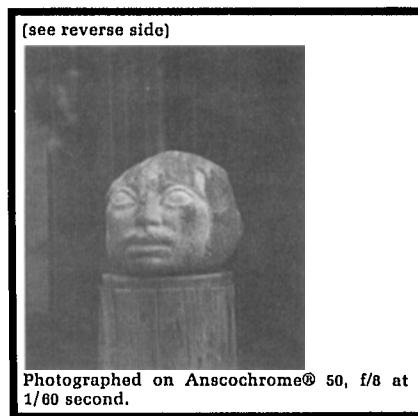
HE CAPTURED 57 FOOTBALL TEAMS... ON OUR PAPER!

The mighty hunter's name? James F. Laughead of Dallas, Texas, whose talent for capturing football action with his camera has made him one of the busiest sports photographers in the U.S. (he's the exclusive photographer for 57 college and professional football teams). The paper? Scanaprint®, the high-speed, high-contrast, moderately cold-tone, single-weight enlarging paper that Jim uses in his lab. Says Jim, "I'll be doing a hundred thousand eighty-by-ten prints this year, and they've got to be right. That's why I use Scanaprint. No other paper can match it." Laughead is both a camera expert and a colorful personality. His regular picture-taking "uniform" is a pair of blue overalls, a red vest embroidered with college names, and a crumpled 30-year-old hat, which, incidentally, is why so many of Jim's admirers affectionately call him "the Mad Hatter." But even though there's a madness to his method, Laughead's teams like what Laughead (and Scanaprint) does for them; his roster of teams grows year by year.

Scanaprint gives you prints with a sparkling-image quality, deep blacks and brilliant highlights from all types of negatives, when used with LogEtronic† equipment (for which it was primarily designed).

Scanaprint paper is faster than other enlarging papers of similar contrast. Its high speed helps to increase print production by reducing exposure times, makes it easier to enlarge small or dense negatives. For more facts, write for Bulletin 7519-101.

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(see reverse side)

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00667



GENERAL ANILINE & FILM CORPORATION

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inald Armour is President of F&B/Ceco of California. General Manager of the new branch will be C. Henderson (Andy) Beal.

Allen F. Hilliard, Technical Information Director for Geo. W. Colburn Laboratory Inc., 164 N. Wacker Dr., Chicago, Ill., has been awarded the degree of Photographic Craftsman by Professional Photographers of America, Inc. (PP of A). The degree, one of the highest bestowed on professional photographers, entitles the holder to add "Cr. Photog." after his name and to wear a blue ribbon and medallion symbolizing the award. The degree was conferred by PP of A President, Claude F. Palmer at the awards banquet of the 76th International Exposition of Professional Photography held in Portland, Ore., in July.

Jack Birns, President of Birns & Sawyer, Inc., of Hollywood, is presently touring the Orient where he will visit with motion-picture producers and equipment dealers in order to evaluate their technical and equipment needs. During his tour he will visit Honolulu, Tokyo, Taipei, Hong Kong, Vietnam and Sydney, Australia. In addition to customer conferences he will meet photographic equipment distributors with a view toward increasing export of equipment manufactured by his firm. Outlets are planned for Hong Kong and Sydney. Mr. Birns was formerly a correspondent/photographer for *Life Magazine*.

Robert C. Rheineck has been appointed to the newly created position of Director of Operations for Holland-Wegman Laboratories, Inc., a subsidiary of Holland-Wegman Productions, Inc., 207 Delaware Ave., Buffalo, N.Y. 14202. In his new post he will be responsible for the color processing of motion-picture film. The company is installing some \$200,000 worth of equipment to set up the first color film lab in Western New York. Mr. Rheineck was formerly Chief Engineer for Color Service Co., New York, where he engineered and supervised the construction of a new color motion-picture film processing laboratory. Prior to that, for 14 years, he was with Columbia Broadcasting System in New York where he was Manager of Technical Operations and Chief Engineer for CBS News Film Production.

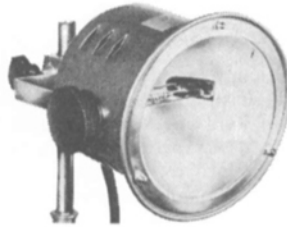
Walter Druker has joined ColorTran Industries, Inc., 1015 Chestnut St., Burbank, Calif., as Assistant to the President. He was formerly Vice-president of General Camera Corp. and has also been associated with Camera Mart, Inc.

John K. Landre has been appointed Technical Manager for environmental pollution projects in the Product Research Dept., Dalmo Victor, a division of Textron, 1515 Industrial Way, Belmont, Calif. 94002. He succeeds James L. Good, who was appointed Manager, Electro-Optics Engineering. In his new post Mr. Landre will provide technical direction for a group that is working on the design and development of sensors for air and water pollution. He was formerly with Beckman & Whitley where he worked on the design and de-



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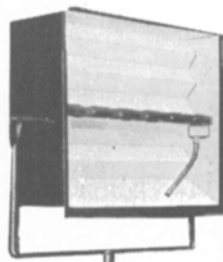
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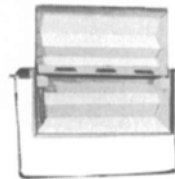


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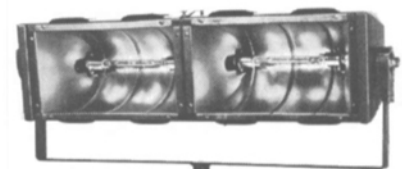
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LQBM — 1000-W Single Broad with Four Way Barndoors

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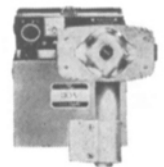


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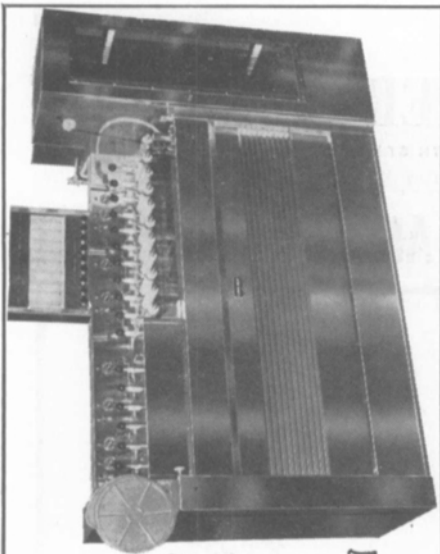
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velopment of high-speed photographic equipment and a 16mm sound-on-film newsreel camera.

ColorTran Industries, Inc., 1015 Chestnut St., Burbank, Calif., has been selected as principal contractor in the outfitting of three large new television stages, as well as a film production unit owned by Television Broadcast Ltd. in Hong Kong. Under the terms of the contract ColorTran will supply all types of tungsten-halogen quartz lighting fixtures, power distribution equipment, lighting control systems and mounting equipment.

Production and equipment insurance is available to customers of F&B/Ceco, Inc., 315 W. 43 St., New York, N.Y. 10036, under a new arrangement announced by Arthur Florman, President of the firm. In making the announcement Mr. Florman said, "It was much easier for us to learn the insurance business than to teach insurance brokers the movie production business." The insurance premiums are not based on the value of the equipment, rather the premium is based on a percentage of the rental. Thus, the premium is automatically adjusted for the length of the rental contract only.

Consulting services to aid small businesses in becoming established in the aerospace and defense industry are avail-

able from Westinghouse Astronuclear Laboratory, P.O. Box 10864, Pittsburgh, Pa. Among services available are included consultation on proposal preparation, contract negotiation and administration, manufacturing engineering, purchasing and subcontracting, planning and scheduling, quality control and reliability. Exploratory discussions about the consulting services will be free of charge. Fees will be based upon the amount of consultation needed.

Plans for the manufacture of Kodak film in Mexico are underway following approval by the Mexican government of a plan whereby an Eastman Kodak associate company, Industria Fotografica Mexicana, S.A. de C.V., will build a photographic film plant in Guadalajara with an investment of more than \$20 million. The enterprise, once it is operating will require about 800 employees. Some 40 Mexican engineers, hired for supervisory positions, will be trained for about 18 months at Kodak Park Works in Rochester, N.Y. Industria Fotografica Mexicana owns 125 acres of land in Guadalajara, Mexico's second largest city. Construction is expected to begin in October. Film slitting and packaging are expected to commence two years later and film sensitizing to be started by October 1970. The factory will sensitize and package more than 25 kinds of Kodak films. Silver, spools, cans, boxes, and many other supplies will be procured in Mexico.



The blimp views in major network sports and news events are televised with the General Electric PE-250 live color camera, is was announced by General Electric's Visual Communications Dept., Electronics Park, Syracuse, N.Y. 13201. The camera was purchased by Goodyear Tire & Rubber Co. for use in its two blimps, Columbia and Mayflower. The camera was used first for blimp views of the United States

Open Golf Tournament broadcast over ABC-TV. Goodyear installed the PE-250 to standardize on a lightweight, compact system which weighs (including camera head, rack, equipment, converter and microwave gear) about 500 lb. The camera system can be installed or removed in about an hour and travels by truck between assignments.

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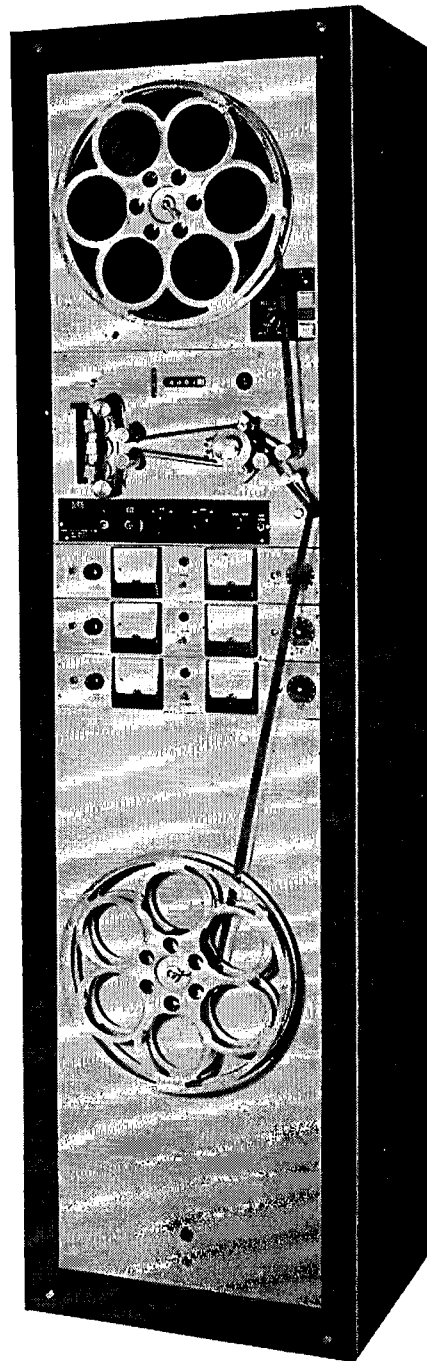
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630 Ninth Avenue, New York N. Y.

Marvin B. Jacobs has opened a laboratory at 3954 Glenfeliz Blvd., Los Angeles, Calif. 90039, which will specialize in fixed focal length and zoom lens repair. Mr. Jacobs was formerly Optical Engineer for ABC-TV.

Cinema Associate Productions, Inc., P.O. Box 727, Lansing, Mich., has announced that it supplies complete creative planning and production of 16mm motion pictures including science, educational and medical films and TV features. The films can be silent or sound and in black-and-white or color.

Gas lasers, developed by Radio Corp. of America, that produce intense beams of ultraviolet light continuously for up to 1,000 hr, are now available commercially, according to recent announcement. The new laser uses the same design structure as the RCA argon laser. The "heart" of the new device is a scaled quartz tube resembling a common fluorescent light. The tube is filled with neon gas. Within the tube are many graphite discs, each having a small center hole. During operation the neon gas is ionized by an electric current that passes through the tube. The excited ions emit light as they change from one energy state to another. This ultraviolet light is amplified and emitted as a pencil-thin laser beam through an arrangement of special optical windows and mirrors. Because organic substances such as dyes, photographic emulsions, biological materials and human skin are especially susceptible to ultraviolet

light, it is expected that the new laser will be used in various scientific applications and may be used in research relating to the "code of life" thought to be carried by the DNA molecule in the human cell. Other applications may include optical recording on materials that are insensitive to visible light, in contact printing, and in the chemical processing industry where ultraviolet light is used to initiate oxidation, polymerization and decomposition reactions.

Francis I. du Pont II has been appointed Field Sales Manager for x-ray and motion-picture markets in the Midwestern District (Chicago) of the Du Pont Photo Products Dept. Mr. du Pont joined the Du Pont Company in 1953 as a student operator at the company's textile fibers plant in Kingston, N.C. He held a number of positions in the company and was appointed an x-ray planning assistant in the Photo Products Dept. in April.

Robert R. Goodspeed has been appointed Product Manager, Broadcast Equipment, for Philips Broadcast Equipment Corp., 299 Route 17, Paramus, N.J. 07652. He was formerly with Radio Corp. of America as Rocky Mountain regional sales and engineering representative. Earlier, he was employed by Red Skelton as Director, Technical Operations and Studio Manager for Skelton Studios & Research Laboratories where he directed production, engineering and sales operations.



books reviewed

Television Film Engineering

By Rodger J. Ross. Published (1966) by John Wiley & Sons, Inc., 305 Third Ave., New York, N.Y. 10016, 507 + xvii pp. incl. appendixes, index. Illus. Diagrams. 6 by 9 in. Price \$15.

This is an excellent book and it will, undoubtedly, contribute greatly to better communications among communications experts. One purpose of the book, according to the author, is that of helping to correct "the widespread misunderstanding between motion picture and television groups." This goal, we believe, will be achieved with great success for all attentive readers of the book. In a precise and clear manner the author gives easily understood explanations of all the fundamentals involved, but the book is not limited to bare essentials. Some prior knowledge of the matters treated will help the reader, but such is not an indispensable prerequisite.

Reviewed by the SMPTE Advisory Committee on Special Effects in Motion Pictures: Herbert Meyer, Chairman, Russell Brown, Thomas G. Fisher, Jack Froehlich, Max Hankins, Ub Iwerks, Ivan Martin, Bob Matthey, Frederic L. Ponedel, John Roche, J. Edward Stenbridge, Edward Stones, Virgil Summers.

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(Some Methods for Producing Mechanical Special Effects) **Frank P. Clark**

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