

Equipment Exhibit

In addition to the Technical Session Topics there will be a special session devoted to equipment papers and demonstrations. The Chairman for this session is Kenneth S. Oakley, Professional Div., Bell & Howell Canada, Ltd., 88 Industry St., Toronto 15, Ont. Questions about exhibits and particularly questions relating to Customs regulations may be referred to Mr. Oakley. For the convenience of exhibitors the Society has appointed two official Customs Brokers who will contact exhibitors and provide necessary forms with detailed instructions. Also, an Exhibitors Manual is being prepared containing details of the booths, power supply, transportation and labor, and also describing in detail a simple procedure for the movement of exhibits through the Canadian Customs.

Local Arrangements

Much of the "work-type" work—meaning endless attention to details and the overcoming of minor and major obstacles—devolves upon the Local Arrangements Chairmen. To each Chairman is entrusted the responsibility of a specific area of Convention planning and accomplishment; anyone who has undertaken a comparable task can testify to the difficulties and frustrations that often beset the path of the most diligent and dedicated worker. It speaks well for the caliber of Local Arrangements Chairmen that the successful completion of their planning is recognized a priori. Those responsible for the 89th Convention are:

Local Arrangements Chairman: **Gerald G. Graham**, National Film Board of Canada, Post Office Box 6100, Montreal 3, P.Q.

Administrative Assistants: **Norman Olding**, Canadian Broadcasting Corp., 5253 Decarie Blvd., Montreal, P.Q., **E. Wally Hamilton**, Trans-Canada Films Ltd., 1212 Burrard St., Vancouver 1, B. C., **A. H. Simmons**, Braun of Canada Equipment Ltd., 35 Haas Rd., Rexdale, Ont., **R. R. Epstein**, National Film Board of Canada, P.O.

Box 6100, Montreal 3, P.Q., **Lou T. Wise**, Photo Department Supervisor, Avro Aircraft Ltd., Box 4004, Terminal A, Toronto, Ont.

Auditors: **Jim Bach**, Cinesound Ltd., 553 Rogers Rd., Toronto, Ont., **Don Clayton**, Cinesound Ltd., 553 Rogers Rd., Toronto, Ont.

Vice-Chairman: **Roger Beaudry**, Pathe-DeLuxe of Canada Ltd., 9 Brockhouse Rd., Toronto 14, Ont.

Motion-Picture Short Subjects: **Ralph Ellis**, Freemantle of Canada Ltd., 17 Dundonald St., Toronto 5, Ont.

Hotel Arrangements: **Harold Bibby**, Canadian Kodak Sales Ltd., 447 Jarvis St., Toronto 5, Ont.

Registration: **Don Dixon**, Canadian Kodak Sales Ltd. Toronto 15, Ont.

Publicity: **Gordon Fraser**: Christopher Smith II Film Labs., 30 Wellington St., East, Toronto, Ont.

Membership: **Jim Buist**, Minnesota Mining and Manufacturing Co. of Canada, Oxford St., East, London, Ont.

Banquet: **Arthur Chetwynd**, Chetwynd Films Ltd., 447 Jarvis St., Toronto, 5, Ont.

Luncheon: **Spence Caldwell**, S. W. Caldwell Ltd., 447 Jarvis St., Toronto 5, Ont.

Public Address, Recording and Projection: **Al Turnbull**, General Sound and Theatre Equipment Ltd., 861 Bay St., Toronto, Ont.

Exhibits: **Kenneth S. Oakley**, Bell & Howell Canada Ltd., 88 Industry St., Toronto 15, Ont.

Hospitality: **Mrs. A. L. Clark**, Alex L. Clark, Ltd., 3751 Bloor St., West, Islington, Ont.

Ladies Program: **Frank Tate**, Photo Importing Agencies Ltd., 345 Adelaide St., West, Toronto, Ont.

Co-Hostesses: **Mrs. S. W. Caldwell**, 6 Dale Ave., Toronto, Ont., and **Mrs. F. L. Tate**, 32 Watson Ave., Oakville, Ont.

Transportation: **Ron Ringler**, DuPont of Canada Ltd., 85 Eglinton St., East, Toronto 12, Ont.

Special Assignments: **R. S. Rekert**, National Film Board of Canada, P.O. Box 6100, Montreal 3, P.Q.

Education, Industry News

The SMPTE lecture series on Motion Picture Techniques presented by the Chicago Section in cooperation with Northwestern University began October 26 with a general survey of the field. Ten non-credit, illustrated evening lectures to cover all phases of the subject will be presented by Dr. H. C. Wohlrab, of Bell & Howell Co., assisted by selected experts. Field trips will be part of the program. SMPTE members and Northwestern students are eligible for the course and interested persons in the industry will be accepted for the course as long as space permits. Application for enrollment should be made to Motion Picture Techniques, School of Speech, Northwestern University, Evanston, Ill. The Registration fee is \$5.00. Checks should be made payable to SMPTE. Dates and subjects of lectures are: Oct. 26, General Survey; Nov. 9, Cameras Optics, Dimensions; Dec. 7, Film Emulsions, Standards, Photochemistry; Jan. 11, 1961, Processing and Printing; Feb. 1, Sound; Feb. 22, Motion-Picture Studio, On Stage; Mar. 8, Motion-Picture Studio,

Behind Stage; Apr. 5, Theater and Projection; May 3, Film in TV, News, Videotape; May 24, Special Applications. A descriptive brochure is available from Motion Picture Techniques, School of Speech, Northwestern University, Evanston, Ill.

Plans for a lecture program of interest to managerial and nontechnical personnel in the field of audio-video recording, sponsored by the Subcommittee for Education in Audio-Video Recording, have been announced by the East Coast Division of the SMPTE Education Committee. Tentatively scheduled for December, the date on which the program will be given and the names of the speakers will be announced. The Subcommittee also plans a series of technical lectures of special interest to operating technicians and engineers beginning early in 1961.

The East Coast Division has worked with the New York City College Student Chapter by arranging tours to Reeves Sound Studios, Movielab Film Labs, DeLuxe Labs, Warner Theater, and similar installations. The East Coast Division was also instrumental in arranging presentation

to the Chapter of 60 rolls of film donated by Christian Thiers on behalf of Gevaert Company. The film was used to carry out a Chapter project.

Other activities in progress include preparation by the East Coast Subcommittee for Education of Sound Technicians of transcripts of lectures, presented during a former study course, for publication.

An intensified 10-day short course for managers and engineers is offered by the University of California, Los Angeles, January 23 through February 2, 1961. This is the seventh year this course has been given. Participants will have a choice of 23 subjects being taught by 30 professors, industry specialists and managerial consultants. There are no formal educational requirements but the enrollment is limited. The wide selection of subjects includes Mathematical Bases for Decision and Programming in Industry; Electronic Data Processing for Business and Industry; Engineering and Research Administration; Industrial Statistics and Quality Control and many others related to engineering and management. Fee for the course is \$450. Additional information may be obtained from Reno R. Cole, Coordi-

They are not going to tell him how to fuze a nuclear warhead.



He is not going to tell them why Kodak's direct-writing paper responds so well to Permanizing treatment.

Hugh L. Odell (left), supervisor of instrument services at Sandia Corporation's Livermore (Calif.) Laboratory, introduces Sandia's Wilford Vandermolen to Kodak's John Pardee (center). Mr. Vandermolen's function is to record on photographic paper signals such as those indicating the condition of the fuzing mechanism inside the casing of a nuclear bomb under various applied forces. Mr. Pardee's function is to co-ordinate development of new combinations of sensitized paper, chemicals, and processing techniques with the changing needs of users of Kodak Linagraph Papers.

Some people's secrets are bigger than other people's secrets. Some of the biggest are kept by Sandia Corporation, whose responsibilities include the ordnance engineering of nuclear weapons. Everything had better be up to date at Sandia.

On this visit John Pardee found out that the up-to-date view on **Kodak Linagraph Direct Print Paper** is a little different from what we had in mind. We developed the product for instant results and only occasional need of preservation treatment with **Kodak Linagraph Permanizing Developer**. Turns out that at Sandia's Livermore Laboratory they do the preservation treatment routinely on many recordings (because photocopies are needed), but they need the no-processing, instant-see feature for quick-look appraisal of information recorded on magnetic tape.

For a booklet on these two companion products write

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nator, Engineering and Management Course, College of Engineering, University of California, Los Angeles 24.

Hidemitsu Seki and Akira Kodama, authors of "New Type of Make-Up Material for Color Motion Pictures and Color Television" published in the June 1960 *Journal* (pp. 414-420) were presented with an Award at the 13th General Meeting of the Motion Picture Engineering Society of Japan, Sankei-Kaikan, 3 Otemachi-1, Rm. 721, Chiyodaku Tokyo, Japan, held May 23 in Tokyo, for the development of the material described in the paper. Three other Awards and three "Praises" were presented at the same meeting, according to a report in the June 1960 issue of *Motion-Picture Engineering* (the journal of the Motion Picture Engineering Society of Japan). Awards were presented to Hiroshi Kimura for a survey on air pollution in motion-picture theaters; Hideo Mori of Hokusin Electric Works for the development of a 16mm xenon projector; and Shinro Fukada of Fuji Photo Film Co. for research in the manufacturing of 16mm negative film for TV. Praises were presented to Hiroshi Fukada of Rikagaku Seiki Co. for the development of an automatic opaque projector; T. Kuriyama of Nippon Onkyo Seiki Co. for the development of theatrical equipments for 70mm film exhibition; and Kenjiro Takayanagi of Victor Co. for the development of a 35mm color/black-and-white projector.

Membership in the Japanese Society is rapidly climbing toward the 3000 mark with 2600 active members, 130 associates,

25 foreign members, and 125 supporting member companies reported as of July, 1959.

George Lewin, recipient of the Samuel L. Warner Memorial Award in 1958 and the Journal Award the same year for his two papers on "The Infrared Transparency of Magnetic Tracks," has been granted U.S. Patent No. 2,295,971 (1960) for Multiple Soundtracks, based on the principle discovered by Mr. Lewin and described in the two award-winning papers. The discovery that infrared light can penetrate a magnetic soundtrack led to the superimposing of a magnetic stripe onto an optical soundtrack without interfering with its reproduction. This stripe can be used to record and reproduce a different soundtrack. This principle may be applied to bilingual motion-picture prints, films with stereophonic soundtracks, and in similar uses. The possibility of three soundtracks with the optical track sandwiched between two magnetic tracks is included in the Patent. To utilize this principle a projector must have an infrared-sensitive photocell. The JAN projector, which has this type of cell, helped put Mr. Lewin on the "track" of multiple soundtracks.

The Society for Film Research was organized in January, 1959, in Great Britain for the purpose of encouraging research in the history of the cinema "in Britain especially, but also elsewhere" and to accumulate facts that would serve as a basis of the establishment of critical standards. The organization's interests cover the whole

field of the cinema "from the development of optical toys and apparatus in the 19th Century to the Free Cinema and Nouvelle Vague movements in the 1950s." Chairman of the Society is John Minchinton; Hon. Treasurer is Ronald S. Raddon; and Hon. Secretary is Rosemary Heaward, 3 Hollybrake, Bull Lane, Chislehurst, Kent, England. A journal, *Cinema Studies*, is published twice a year, and a Newsletter is sent out at intervals. Members of the new organization are eager to correspond with persons of similar interests and to learn of similar organizations. Miss Heaward, in a letter to the Editor of the *Journal*, stressed that "the technical aspects of film history are just as much of interest to us as the artistic and economic and sociological ones."

The 11th National Conference on Standards sponsored by the American Standards Assn. was held October 25-27 at the Sheraton-Atlantic Hotel, New York. Ten sessions were held, covering many phases of standards activities. The first session reviewed previous accomplishments. Other sessions covered Policy Direction and Programming; Defense Standards Operations; How ASA Serves Company Standards Needs; Creating Standards Programs in New Areas (two sessions); Value Analysis as a Basis of Standardization; Quality Standards in Manufacturing; The Executive Viewpoint on Standards; and Accomplishments, Developments, and Need for Standards Activities in the Building Industry.

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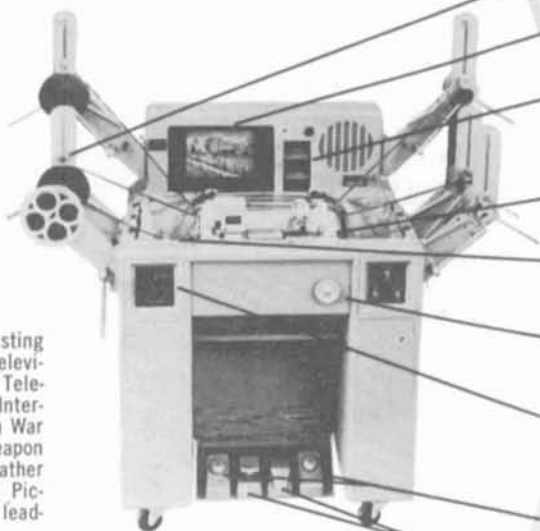
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Sidney Meyers, well-known screen director, has joined the faculty of the Institute of Film Techniques of the City College of New York, according to an announcement by Yael Woll, Director of the Institute. He is presently conducting an evening course in advanced editing which will extend through the Fall term. Mr. Meyer served as the only American juror at the Venice Film Festival. Among the many films directed by him is the award-winning *The Quiet Ones*.

The 1961 National Conference of the Society of Photographic Scientists and Engineers will be held May 22-26 at the Arlington Hotel, Binghamton, N.Y. The main theme of the conference will be the scientific and engineering aspects of color photography. Papers on black-and-white photography will also be presented. Specific areas to be covered in the program include Color Perception and Color Photography; Color Photographic Systems and Processes; Structure of the Gold Image; Color Sensitometry and Densitometry; Color Cameras, Printers and Processing Equipment; Color Photography for Recording Purposes in Science and Engineering.

More than 200,000 persons viewed photographic exhibits shown by 550 firms at the Photokina held in Cologne, Germany, September 24 through October 2. Seventeen countries were represented at the exhibitions marking the 10th anniversary of

the Photokina. Some interesting trends were apparent both in the countries represented and the equipments exhibited. Sixteen countries other than Germany were represented by 199 of the 550 exhibitors, an increase of 14% over the number of foreign firms taking part in the 1958 Photokina. There were considerably more visitors from the Far East and the Middle East and from Africa than in previous years.

One of the most notable trends evident in the exhibits was the emphasis on automatic exposure control and on 8mm motion-picture cameras. Also, a number of interesting equipments for scientific and industrial applications, such as radiography, were shown.

The III^e Biennale Internationale Photo-Cinéma-Optique Exposition will be held April 15-24, 1961, at the Palais des Expositions (C.N.I.T.) in Paris under the sponsorship of the Comité Française des Expositions. Specially organized exhibitions planned to cover all phases of photography will be displayed at the new Exposition Center at the Rond-Point de la Défense. The first of these Expositions was held in Paris in May, 1955; the second was in Washington, D.C., in April, 1957. Further information is available from III^e Biennale Internationale Photo-Cinéma-Optique, 15 Rue de Bellechasse, Paris 7.

The Sixth Conference on Radio Interference Reduction and Electronic Compatibility was held October 4-6 at the

Museum of Science and Industry, Chicago. Sponsored jointly by the Army, Navy and Airforce, the Conference was conducted by the Armour Research Foundation of Illinois Institute of Technology in cooperation with the Professional Group on Radio Frequency Interference of the Institute of Radio Engineers. Sessions included presentations on Missile and Space Considerations, Antenna Measurement Prediction Methods, Shielding, Instrumentation, and related subjects.

An address on darkroom lighting systems was given before the Illuminating Engineering Society (1860 Broadway, New York) at a recent Conference in Pittsburgh, by Herbert S. Glick of Eastman Kodak Co. Various purposes of darkroom lighting were discussed and factors to be considered in lighting systems were outlined. These included sensitivity of the eye, sensitivity of the materials, energy distribution of the light source, and the time of exposure. Mr. Glick also discussed proper placement of lights for production and maintenance and told of the properties of filters and light sources. In discussing the peculiarities of human vision he noted the Purkinje effect relating to the sensitivity of the eye to blue light. This effect occurs because the eye has two light-sensitive organs, the cones, responsible for vision in fairly high levels, and the rods for low-level illumination. In very dim light the eye uses only the rods and has greater sensitivity to blue.

a new SMPTE publication

CONTROL TECHNIQUES IN FILM PROCESSING

Prepared by a Special Subcommittee of the Laboratory Practice Committee of the Society of Motion Picture and Television Engineers

WALTER I. KISNER
Subcommittee Chairman

Foreword by E. H. REICHARD
Chairman, Laboratory Practice Committee

CHAPTERS

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|--|--|
| 1. Introduction | 6. Control Strips and Sensitometric Curves |
| 2. General Principles | 7. Sensitometric Control of a Standardized Process |
| 3. General Aspects of Motion-Picture Film Processing | 8. Chemistry of Film Processing |
| 4. Mechanical Evaluation and Control | 9. Chemical Analysis and Control |
| 5. Instruments for Photographic Control | 10. Economic Considerations in Establishing a Process Control System |

Two-page bulletin with description of subject matter of each chapter available without charge upon request to Society Headquarters

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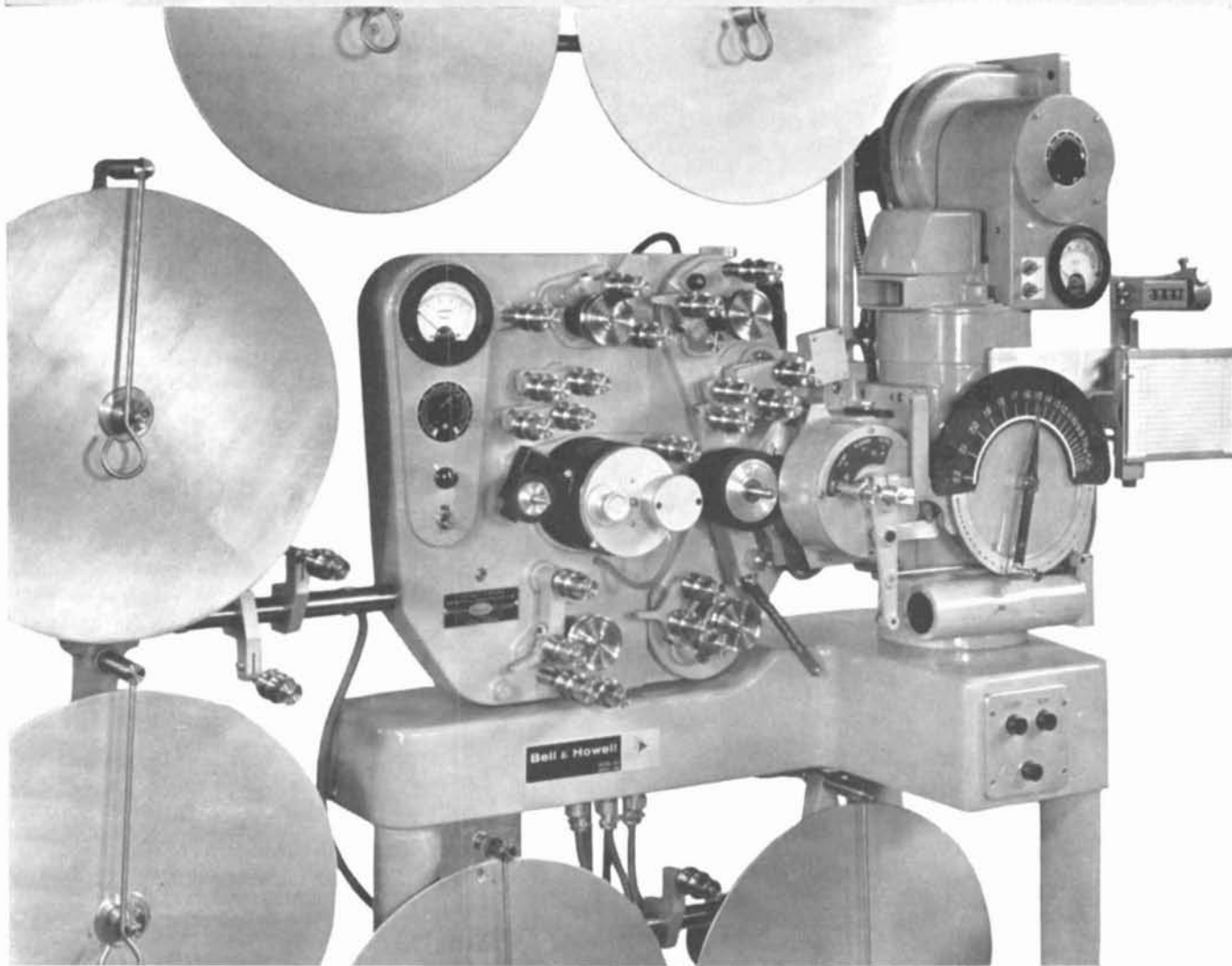
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The 1961 American Film Festival will be held April 19-22 at the Barbizon-Plaza Hotel, New York. Sponsored annually by the Educational Film Library Association, all 16mm films and 35mm film strips produced during the preceding calendar year are eligible for competition. Blue Ribbon Awards are presented to outstanding films and filmstrips in 34 categories. Emily S. Jones, Administrative Director of EFLA, has announced that entry blanks and information about the Festival will shortly be mailed to film producers, sponsors and distributors. Additional information is available from EFLA, 250 West 57 St., New York 19.

Expansion of the contract manufacturing service facilities of AnSCO, Division of General Aniline and Film Corp., Binghamton, N.Y., to include the microwave field has been announced. Harmonic generators are now in production and planning is underway for the manufacture of wave guides and other equipments related to the communications field.

New owner of television station KBAK-TV, Bakersfield, Calif., is Reeves Broadcasting and Development Corp., 304 East 44 St., New York, it was announced by Hazard E. Reeves, President of the corporation. Former owner is Bakersfield Broad-

casting Co. Estimated purchase price is well over \$1 million which includes the cost of moving the broadcasting tower to a site 7000 ft above sea level from its previous location at 600-ft elevation to increase the station's area coverage. The station operates on UHF Channel 29.

Motion Pictures, Inc., a Dallas firm, has purchased the building and physical facilities of Coffman Film Co., Dallas. All its operations, including laboratory, production and administrative are now located under one roof at 4519 Maple Ave., Dallas. The firm now offers complete 35mm and 16mm film services including sound, editing and animation. It has a 48 by 86-ft sound stage.

A new Industrial Products Subdivision has been created within Avco Research and Advanced Development Division, 201 Lowell St., Wilmington, Mass., for the development and marketing of materials and equipments associated with high-temperature technology and environmental simulation. Robert A. Hawkins has been appointed Director of Products in charge of the new subdivision. The new appointment is in addition to his present post of Manager of the Quality and Reliability Department.

General Precision, Inc., has opened new offices at 724 Fourteenth St., N.W., Washington, D.C., to provide additional space for its GPL and Link Division representatives. General Precision, Inc., personnel and representatives of other divisions will remain at the offices at 777 Fourteenth St., N.W., Washington, D.C.

The firm of Fraser Productions is now established in Columbus Towers, San Francisco 11, according to an announcement from Thomas H. Fraser. The new office and technical facilities are planned to accommodate an expanded industrial motion-picture division, a television commercials division and other production operations. Mr. Fraser has acted as an advisory and technical consultant to San Francisco advertising agencies and has instructed advanced courses in TV production as well as producing industrial and public relations films.

Eastern distributor for Rapromatic Processing, an automatic method of developing and fixing film, is Camera Equipment Co., 315 West 43 St., New York 36. The process, developed by Rapromatic, Inc., Oak Drive, Syosset, L.I., N.Y., is based on the use of Raproroll, a chemically presaturated paper which is fitted, in roll form into the magazine or other processor. A mechanical squeezing action at the point of sandwich formation develops and fixes film on contact while the camera is in operation. The firm has also recently announced a portable processor, the Rapromatic 400, which is used for processing exposed film. Fitted with a hand crank or motorized it is suggested for field processing of TV news photography or in areas where water or power may be limited. Based on the same principle as the method used for developing simultaneously with exposure, the portable processor weighs 30 lb and is said to be capable of processing from 1 to 400 ft of

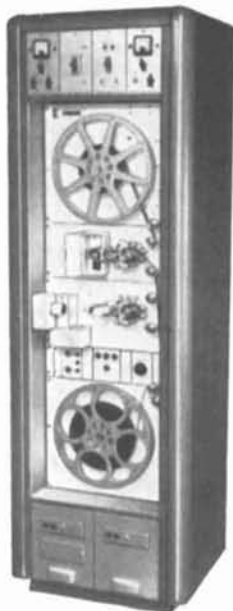
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Protective devices installed by J. A. Tanney, President of S.O.S. Cinema Supply Corp., 602 W. 52 St., New York 19, following the second daylight robbery of the premises by armed bandits within the year, include a closed-circuit TV camera focused at the entrance, a radio alert system to broadcast the "S.O.S. in distress" signal, a loud burglar alarm at the street door, and a wire cage with electrically operated door in the foyer. If in the unlikely event that any desperados slip past these watchful electronic marvels, it is planned to install bullet proof glass in the reception room.

The reddish-purple trefoil on a yellow background, generally accepted as the symbol denoting radiation hazard, has been formally approved by the American Standards Association as Radiation Symbol N2.1-1960. This is the first standard to be developed through a sectional committee under the supervision of the Nuclear Standards Board. A similar symbol was first used in 1946 by the University of California Radiation Laboratory. Magenta was selected as the color of the trefoil because it is unusual and because the dye is expensive, thus tending to discourage its use for other purposes. The background, originally light blue, was changed to yellow because of the attention-getting properties of this color.

Shipboard Television facilities, including equipment for coordinated internal and off-air television service have been installed in two British passenger ships, the Canberra, of the P & O Line, and the Oriana, of the Orient Line. The installation provides for the reception of broadcasts with the 405-line system (British); the 625-line system (from Australia and most of Europe); and the 525-line system (United States, Canada and Japan). Incoming broadcasts are processed for suitability in a central television control room before distribution to the ship's receivers. Processing equipment includes two Marconi vidicon camera channels, which also form part of the closed-circuit installation.


Kling Photo Corp., New York, has announced the purchase of the building at 826 Cole Ave., Hollywood, formerly occupied by Polaroid Corp., to be used as the new quarters of the firm's West Coast Branch. The building has a floor area of 6000 sq ft, is fully air conditioned and has its own truck ramp and a large parking lot.

A \$190,000 expansion of the educational television system in the Anaheim, Calif., school district has been contracted to Hallamore Electronics Division of Siegler Corp. Under terms of the contract the firm will install equipment in additional classrooms of schools presently included in the system as well as in three new schools. Under an earlier contract the firm supplied equipment for the initial installation of educational television at Anaheim. The cables were installed by Pacific Telephone and Telegraph Co. The project was described in a paper by Max P. Beere, presented at the 1960 SMPTE Fall Convention at Los Angeles, "Transmission Facilities for the Anaheim Educational Television Project."


A contract for installation of closed-circuit TV systems for the Titan missile program has been announced by the Siegler Corporation's Hallamore Electronics Division. The contract was received from the Martin Company's Denver Division. The equipment will include transistorized TV cameras which will be used in monitoring the launching of the Titans from underground silos at Vandenberg Air Force Base, Calif.

Neal K. McNaughten has been appointed staff Vice-President of Ampex Corp. and Marketing Activities Consultant for three divisions of the firm: Professional Products Co., Audio Co., and Ampex International. He is succeeding as Manager of Ampex Professional Products Co. by Leonard E. Good who was formerly Corporate Staff Director of Operations Services for Ampex Corp. The appointment of Harold S. Salzman as Marketing Manager of the Professional Products Co. has also been announced. He was formerly associated with American Telephone and Telegraph Co. Mr. McNaughten has been with Ampex Corp. since 1957 and Mr. Good has been with the firm since 1959.

R. N. Saitta has been appointed representative for Gevaert Company of America Inc.,



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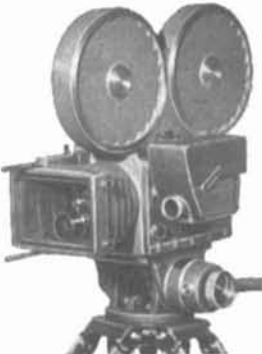
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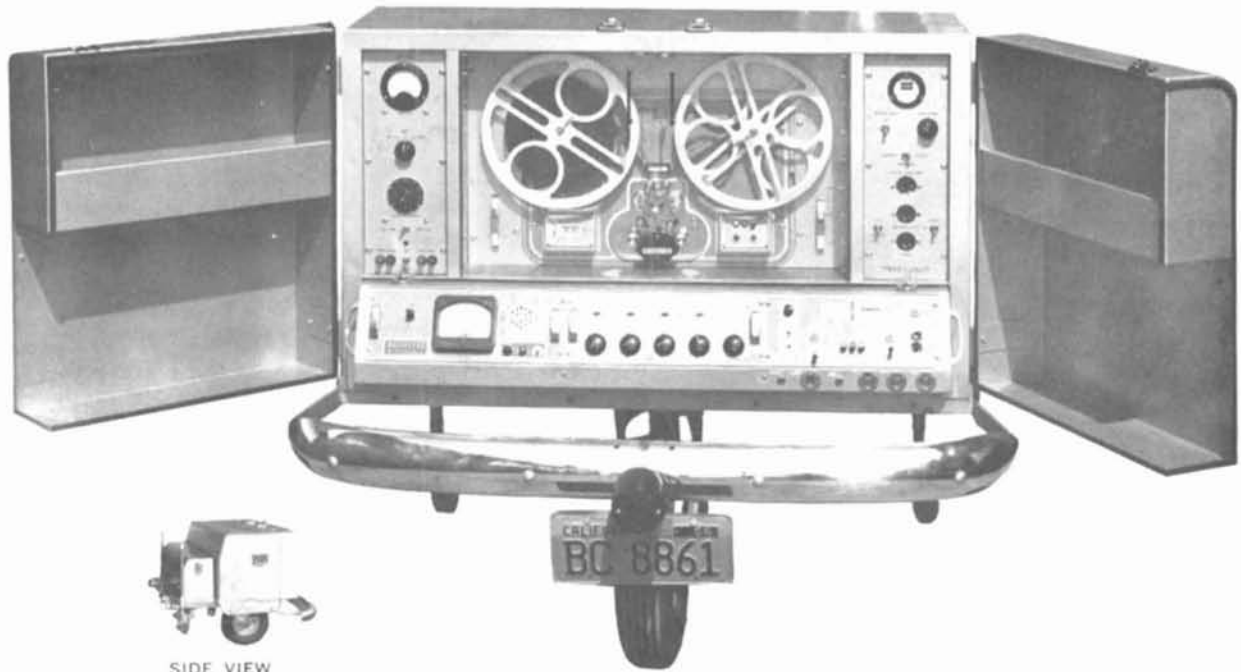
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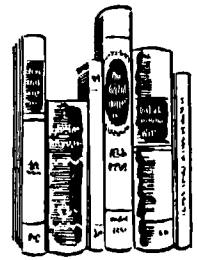
with headquarters at the firm's Southwest District Office in Dallas. In his new position he will handle general photographic accounts in Texas and Louisiana as well as handling sales and service for Gevaert microfilms and motion-picture films.

Reuben S. Siegel has been appointed Senior Project Engineer in the Photo Development section at Mergenthaler Linotype Co., Brooklyn, N.Y. Mr. Siegel was formerly Supervisory Chemist at L. B. Russel Chemicals, Inc., Long Island City, N.Y.

Aubrey Harris who has been Technical Sales and Service representative in Europe for the Ampex Video Tape Recorder has been given a new appointment with the

newly established Ampex International Engineering Dept., Redwood City, Calif. The function of the new department is to investigate the problems involved in the operation of the television tape recorders on television standards other than those of the United States.

Leaflets describing viewers and slide projectors in a wide range of sizes and prices are available from Tel-A-Story, Inc., 523 Main St., Davenport, Ia. Used for sales presentations, window displays and similar purposes, some of the models are equipped with sound. Costs range from \$39.75 to \$249.50, with accessories at additional costs.



books reviewed

Infrared Radiation

By Henry L. Hackforth, Published (1960) by McGraw-Hill Book Co., 330 West 42 St., New York 36. v-xii + 303 pp. incl. illus., charts, graphs. 6 by 9-in. Price \$10.00.

Infrared Radiation presents a good review of elementary principles of infrared physics, of elementary optical systems and of infrared techniques as applied to today's myriad industrial and military problems. It would be necessary, however, to supplement the material presented in this book by a number of more practical topics in the field of infrared instrumentation if one were to arrive at a point where this knowledge could be applied.

Specifically, one of the major problems in the design of an infrared scanning or tracking instrument working in the daytime has always been the suppression of the very intense Earth or cloud backgrounds. Hackforth has included no extensive discussion of the spatial or spectral characteristics of infrared backgrounds and his treatment of space filtering is poor considering the relative excellence of some of the material in the present literature. He makes no mention of electronic image processing techniques such as edge sharpening, pulse length discrimination, etc.

The section of atmospheric absorption is not detailed enough to be usable for practical engineering purposes. There is also a good deal of material on the distribution of water vapor of altitude which might be included with profit. The chapter on optical systems would have been improved by the inclusion of simple formulae for the first order computation of coma and spherical aberration.

In general, this reviewer would find the book useful for the purpose of introducing people to the subject of infrared, but would, at the same time, find it necessary to supplement this book with more comprehensive material in the above areas.—*T. R. Whitney*, Infrared Systems Dept., Ramo Wooldridge, 8433 Fallbrook Ave., Canoga Park, Calif.

An adhesives properties chart containing information on epoxy adhesives, application, cure times and physical properties is available upon request from Furane Plastics, Inc., 4516 Brazil St., Los Angeles 39. The reverse side of the chart contains such information as test methods, application suggestions and availability.



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