

**Garland C. Misener** has been elected President of the Association of Cinema Laboratories. Other newly elected officers are: Vice-President, Bruce Jamieson; Treasurer, F. F. Sack; and Secretary, G. Carleton Hunt.

**Capital Film Laboratories, Inc.**, 470 E St., S.W., Washington, DC 20024, has announced installation of a new ME-4 processor for use on the new Ektachrome R Print Film 7389. The firm's first ME-4 processor has been converted to the ECO-3 process for Ektachrome Commercial Film 7252. It will also be used to process types 7241, 7242 and 7256 Ektachrome films and Ektachrome dailies printed from them.

**Donald C. McFarlane** has been appointed President of the newly formed Cinema Systems Div. of Technicolor Inc., Box 380547, Hollywood, CA 90038. Cinema Systems includes Technicolor's Motion Picture and Magna-Crafts divisions in Hollywood and the Television division in Universal City, Calif.

**Michael Q. Crane** has been appointed Vice-President in charge of Production at Movielab-Hollywood, Inc., it was announced by John J. Kowalak, Executive Vice-President in charge of Engineering and Overall Plant Operations for Movielab, Inc., 619 W. 54 St., New York, NY 10019. Mr. Crane has served with the West Coast Laboratory for 19 years in various supervisory capacities prior to its acquisition by Movielab and his appointment to the post of Plant Manager.



**NEW YORK, Sept. 9**—A demonstration and explanation of the Sony Video Cassette System was given by Peter Keane of the Sony Corp. Due to the illness of Shigemi Nakano who was to be a co-speaker, the technical explanation of the system was not complete. However the demonstration was excellent. Interest was keen, and a long question-and-answer period ensued. Most of the 215 attendees stayed to the end. — Paul F. Wittlig, *Secretary-Treasurer*.

**ROCHESTER, Sept. 10**—A fascinating demonstration and review of early color motion-picture systems was presented by James Card, Vice-Director and Curator of Motion Picture Film, Eastman House, Rochester. Also, techniques being used by the Eastman House to preserve these color images for the future were described and demonstrated. Attendance was 225.

A pre-meeting dinner for the speaker was attended by 21 members. — R. A. Morris, *Secretary-Treasurer*.

**HOLLYWOOD, Sept. 15**—Dr. "Fritz" Knopp, Vice President, Optical Radiation Corp., described in detail the Optical Radiation's approach to xenon light sources. Their design approach using horizontal

mounting has enabled them to produce an extremely compact, lightweight and efficient unit having very high output. Their unit utilizes conventional 110 ac electrical input and has been adapted to both 16mm and 35mm systems.

Bob Huseman, Senior Field Engineer, Ampex Corp., pointed out the advantages and improvements of the AVR-1 Broadcast Videotape Recorder over previously available equipment. This newer unit, with its higher degree of sophistication, results in practically complete automation. Easy threading and a new tape drive system result in a better product.

Both speakers were asked many pertinent and penetrating questions. — Anthony D. Bruno, *Secretary-Treasurer*.

**MONTREAL, Sept. 15**—The first fall meeting of the section took place in the National Film Board Auditorium. The evening was devoted to the laboratory. Allen Hilliard, Technical Information Director, Geo. W. Colburn Laboratory Inc., Chicago, was guest speaker and presented two technical papers entitled: "Super 8 and the Laboratory" and "Design Consideration of Specialized Super 8 Equipment."

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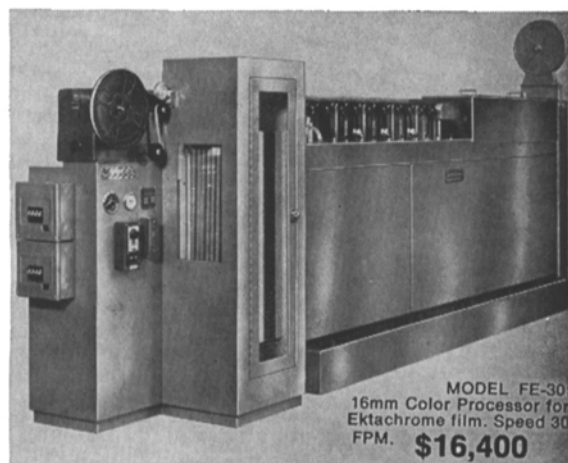
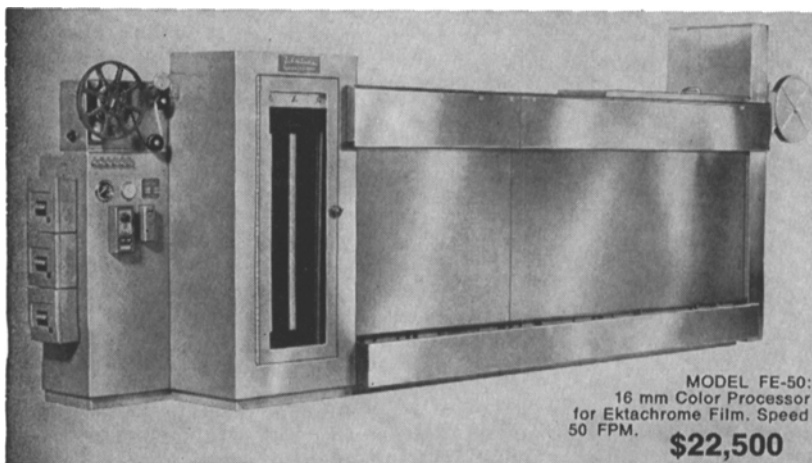
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● "MATERIALS, CONSTRUCTION AND DESIGN" All Filmline machines are constructed entirely of metal and tanks are type 316 stainless steel, heliarc welded to government specifications. The finest components available are used and rigid quality control standards are maintained.

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

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

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



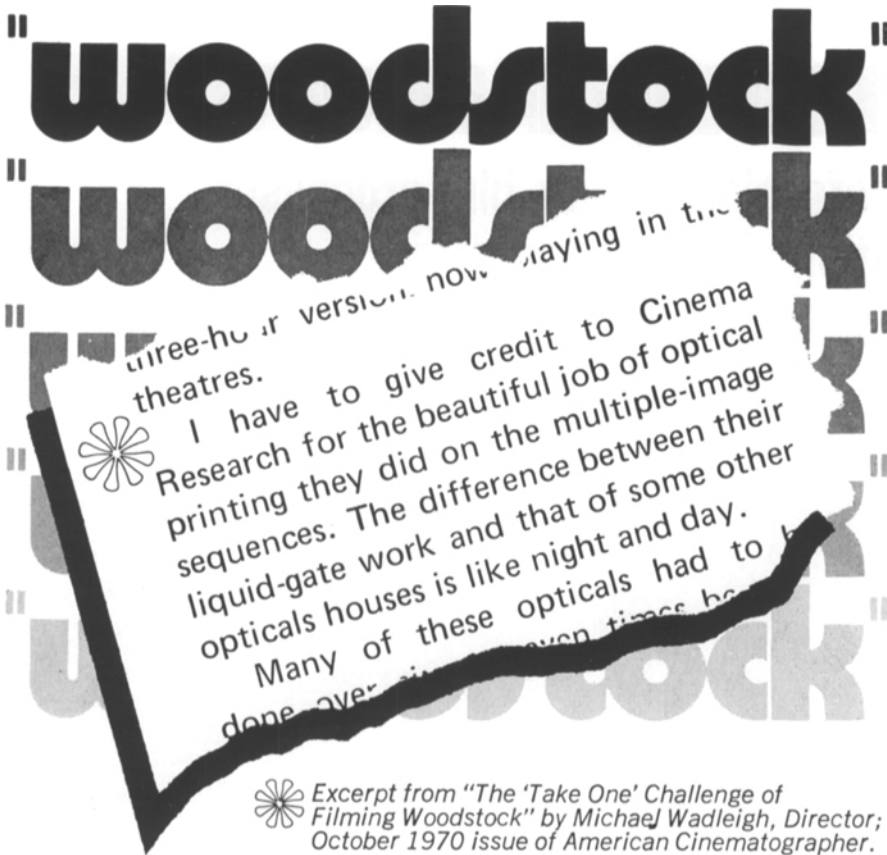
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These papers dealt with the wide range of variables in super 8 requirements which need specialized printing equipment. Equipment required for super 8 and regular 8 printing and processing machines which were designed and built by the Colburn Laboratory were described.

Hilliard's presentations were well received by the fifty members and guests.—Bruce L. Prentice, *Secretary-Treasurer*.

DETROIT, Sept. 16 — The Detroit Section met at the General Motors Photographic Auditorium, Detroit, to hear a very informative presentation on the laboratory techniques and equipment used by Colburn Laboratories for the production of super 8 prints. The meeting began with a 16mm film, *Bright Star*, produced by GM Photographic using Eastman 7252 film stock.

Allen Hilliard, Technical Information Director, Geo. W. Colburn Labs., Inc., reviewed the history of 8mm film formats, the preferred types of preprint materials, available soundtrack options and print mounting options. He concluded his talk with a well-illustrated discussion of the specialized equipment designed and built by his laboratory to serve the needs of super 8 production. Significantly, he pointed out that the single most difficult production aspect of the present super 8 situation involves lack of standardization of print specifications regarding the soundtrack. As a result, it is necessary for laboratories to supply prints to at least four different magnetic soundtrack specifications, in addition to optical specifications. This results in frequent user confusion and in extra work for the laboratory.

The presentation was followed by an active question-and-answer period and refreshments were served through the courtesy of GM Photographic.—Frederick M. Remley, Jr., *Secretary-Treasurer*.

TORONTO, Sept. 17 — A pre-meeting dinner was attended by 12 members. A film, *Silence Between the Waves*, was screened immediately prior to the meeting. Louis R. Burroughs, Vice President, Broadcast Equipment, Electro-Voice Inc., spoke on, "Microphones and Their Application." The subject was treated in a nontechnical, how-to-do-it fashion by the author. He invited interruption and discussion at any point. There was keen and active discussion with the speaker during his lecture as well as at the coffee break and after the meeting. Attendance was 105.—S. F. Quinn, *Secretary-Treasurer*.

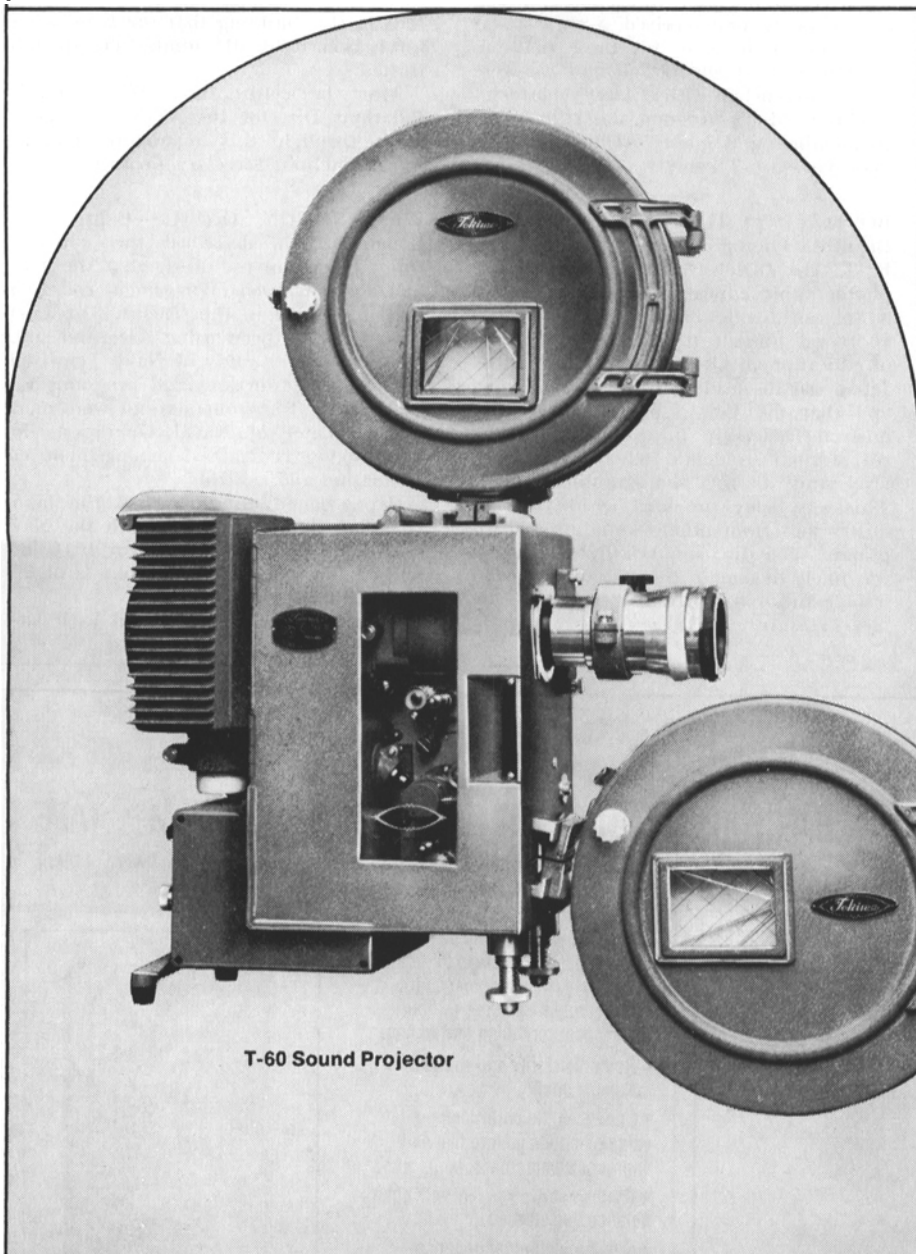
WASHINGTON, Sept. 21 — Joerg Agin, New York Sales and Engineering Representative, Eastman Kodak Co., described how to lay out a screening room for television film. The system involved screen, projectors, lighting and various other aspects.

Lawrence H. Corn, Jr., and Milton D. Jones, Washington Sales and Engineering Representatives, Eastman Kodak Co., gave a multimedia presentation using three 35mm slide projectors, one 16mm motion-picture projector and sound support. This was a pictorial essay of how business is learning to take a better look at itself

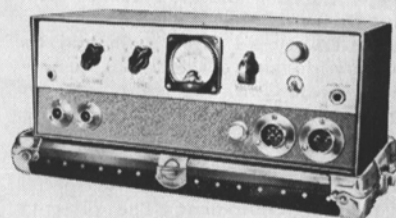
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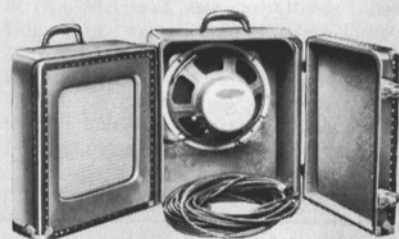
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by employing the language of pictures to persuade, inform, train and educate.

The audience reaction was good and many questions were asked. A pre-meeting get-together was in the form of a dinner. — Ralph W. Sonnenberg, *Secretary-Treasurer*.

**CHICAGO, Sept. 22** — The first meeting of the 1970 fall season was prefaced by an Officers and Board Managers dinner in honor of the guest speakers, at the Press Club in the St. Clair Hotel.

Speakers for the evening were Allen Hilliard, Technical Information Director for the Geo. W. Colburn Laboratory, Inc., Chicago, and Ron Clasky, Freelance Film Editor from Chicago.

Hilliard discussed super 8mm and the laboratory design considerations of specialized super 8 printing equipment. His program shed light on how laboratories undertaking super 8 printing assignments must deal with a wide range of variables which require the availability of specialized printing equipment. The presentation was accompanied by an excellent showing of slides depicting several types of optical printers, contact printers, and film handling equipment for super 8 film recently designed and put into production at the Colburn Labs. Hilliard's well-prepared presentation was a terrific kickoff program and was well received by a most attentive audience.

Clasky followed by exciting the audience with his excellent explanation of how he took impossible footage from one film of the construction days of the Expo '70 and

combined it with an impressionistic view of Expo '70. Surprisingly enough, Clasky prepared the sound score prior to the editing of the films. He stated that the editing of the films became a simple task once he had the soundtrack since the sound was a major portion of his inspiration. After we were all keyed up by his explanation of the picture we were privileged to see the results and it was just as exciting as he had claimed it to be. After we screened the film, discussion followed and it was so well received, a request was made to see it again for those that desired to stay. A silence fell and we were once again enchanted by Clasky's mastery.

The evening's program was enjoyed by 40 members and guests. — Chuck Zichterman, *Secretary-Treasurer*.

**BOSTON, Sept. 23** — Professor W. F. Berg, Director, Photographisches Institute Der E. T. H., Zurich, Switzerland, described photographic education in general terms on a world-wide basis, but particularly addressed himself to the doctorate level of education in photography. He felt that Japan was the leader in the academic area and that the U.S.A., in spite of its industrial leadership in the field, had no real formal academic schools for high-level study of the photographic sciences. This was being provided within the industry and from other overlapping disciplines. The discussions indicated that it was likely to remain the case for the foreseeable future. — R. A. Rubenstein, *Secretary-Treasurer*.

**NASHVILLE, Sept. 29** — Thomas A. Barr, of the NASA Space Station Task Team, Marshall Space Flight Center, Huntsville, Ala., gave a most informative lecture concerning proposed plans for the establishment of a Space Station and Skylab. The uses to which such an achievement would be put by scientists and engineers were discussed. The lecture was liberally illustrated by use of color viewgraphs.

The meeting was held in a large briefing room in the new AVCO L1011 building. It is in this building that the huge wings for Lockheed's L1011 jumbo jets are fabricated.

After the lecture, Tony Harris, Public Relations Director for AVCO, conducted tours through this mammoth plant. — Aaron Shelton, *Secretary-Treasurer*.

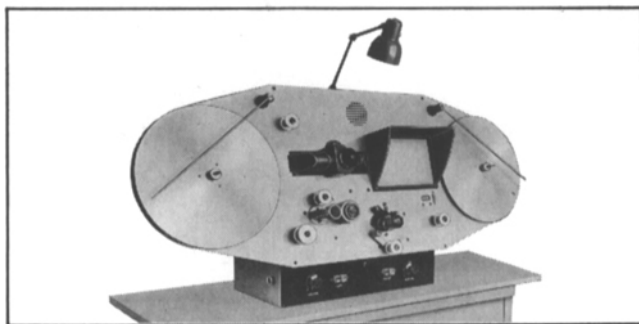
**WASHINGTON, Oct. 12** — Capt. C. R. Longo, U.S.N., described the status of Navy Television indicating that the Navy had no centralized management coordination or control in the television area, although it has been using television since 1944. In 1969 a study of Navy Television organization, functions and programs was undertaken. Recommendations were made to the Chief of Naval Operations for undertaking centralized management coordination and control.

Capt. Longo also described the many facets of photography in which the Navy is engaged throughout the world. He described how Naval Photography is organized and utilized.

Audience reaction was good with ade-

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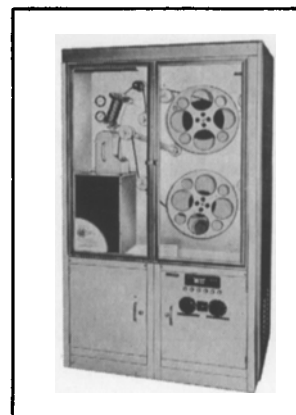
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- Restores clarity and sound to maximum quality.
  - Enhances the entertainment value of motion picture film and improves commercials.
  - Assures static free film with color balance undisturbed.
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  - Completely automatic . . .
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**SONY** SUPERSCOPE



quate questions and answers. — Ralph W. Sonnenberg, *Secretary-Treasurer*.

TORONTO, Oct. 15 — An excellent film, *World of the World Cup*, on skiing, introduced the meeting. K. Davies, Central Dynamics, presented a paper on Time Codes for Tape, which was a presentation of a recommended practice for audio- and videotape code for editing use. A review of many systems was made and presentation of this system which is believed by the author to be a universally applicable system. A brief question period followed the paper which was well received. A coffee break followed.

The second paper, "Color Duplication 1950-1970," by Ivor Lomas, Film House Ltd., outlined a condensed history of color duplication systems applied in the last twenty years and some of the problems entailed. The paper concluded with an excellent example of color reversal intermediate duplication at its best. — S. F. Quinn, *Secretary-Treasurer*.

ROCHESTER, Oct. 15 — Dr. Paul Gilman, Jr., Dr. Wesley T. Hanson and Dr. Rex B. Pontius, Eastman Kodak Co., made a report on the recent International Congress of Photographic Science. The Congress, held only every three or four years, was held this summer in Moscow. The speakers interpreted the significance of the technical presentations and, with color slides, shared their impressions and personal ex-

periences on visits in and around Moscow. Attendance was 100.

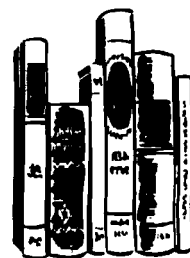
A pre-meeting dinner for the speakers was held at the Treadway Inn. — R. A. Morris, *Secretary-Treasurer*.

ATLANTA, Oct. 22 — Fifty-nine members and guests attended the Atlanta Section meeting at WAGA-TV. A short business meeting preceded the program given by Rodger J. Ross, Supervisor of Technical Operations, Canadian Broadcasting Corp. Mr. Ross is a leading authority on color telecine operation, and his program stressed the importance of standardization of the color temperature of film prints for television. Alignment slides and equipment are now available for all TV stations to standardize their telecine equipment. Daylight balanced prints were shown side by side on a correctly adjusted TV monitor and the new daylight balanced projection system for preview rooms was also shown. The filter on the projection system was then removed to show in contrast how an uncorrected print would appear.

Eastman Kodak Co. will supply brochures on the television film preview room for anyone interested.

An informal question-and-answer session provided the answers to many questions and doubts that many producers and advertising agencies had about switching over to the new recommendations discussed by Mr. Ross.

Refreshments were served during a social period after the meeting. — G. M. Crowder, *Secretary-Treasurer*.



## books reviewed

### Applied Optics and Optical Engineering, Vol. V

Ed. Rudolf Kingslake. Published (1969) by Academic Press, Inc., 111 Fifth Ave., New York, NY 10003. 382 + xvi pp. Illus. Diagrams. 6 by 9 in. Price \$17.00.

The fifth and last volume of this series continues on the subject of "Optical Instruments" and forms Part II of that subject. As with the previous volumes, special experts in their fields have contributed the various chapters. For this volume there are no less than twelve of these authorities.

The subjects treated here are Dispersing Prisms, Diffraction Gratings, Spectrographs and Monochromators, Spectrophotometers, Colorimeters, Astronomical Telescopes, Military Optical Instruments, Surveying and Tracking Instruments, Medical Optical Instruments, Ophthalmic Instruments and Motion Picture Equipment. This is a rather long list, and only the last item will be commented upon here.

Under this subject six topics are considered, namely, Film, Cameras, Sound Recording, Printers and Projection. This is an ambitious project for the 40 or so pages allotted to the subject. Nevertheless, a generally good summary is given for each topic, and frequent references are given to the original literature for more details. In a number of cases, for example, camera lens optics, some of the details were treated in earlier volumes of the series. It is interesting to note that the remarkable growth and extensive technical development in the field of amateur motion-picture photography in recent years are indicated by the amount of space and technical detail devoted to it here.

A separate cumulative index is included in this final volume, to cover the combined subject matter of all five. This is of great convenience for reference use, because it obviates the need of selecting the appropriate volume in advance. As has been indicated for the earlier volumes, this set as a whole is most important for any technical worker generally involved in optical problems. — *Pierre Mertz*, Consultant, 66 Leamington St., Lido Beach, L.I., NY 11561

### Thin Film Technology

By Robert W. Berry, Peter M. Hall and Murray T. Harris (Members of the Tech-

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