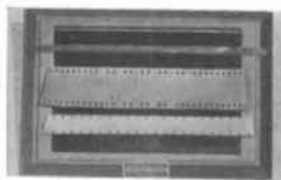


F&B FILM REPAIR AND SPlicing BLOCK SAVES DAMAGED FILMS



19.95

Used with NEW MAGIC MYLAR SPROCKETED
TRANSPARENT SPlicing TAPE

- **ECONOMICAL**—Repairs torn slide films and movie films, without loss of a single frame.
- **EFFICIENT**—replaces torn or missing perforations—without loss of a single frame.
- **SAFE**—prevents regular lap splices from opening.
- **INGENIOUS**—makes butt splices in 16mm or 35mm film.
- **VERSATILE**—includes a complete 1/4" magnetic tape splicing block.

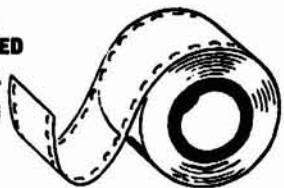


- **ACCURATE**—provides 100% registration of sprocket holes.
- **NON-MAGNETIC**—aluminum construction insures perfect safety for handling magnetic or magne striped film.
- **INVISIBLE**—optical transmission of spliced or repaired frames unaffected.
- **DURABLE**—tear strength greater than film.
- **CLEAR**—self-sticking—no cements required, no adhesive bleed.



- **SUPER-THIN**—only 1.5 mils thick—passes thru projectors easily.
- **SOLVENT-RESISTANT**—commonly used film cleaners will not loosen tape.
- **UNIVERSAL**—can be used on all types film base.

**MAGIC
MYLAR
SPROCKETED
TRANSPARENT
SPlicing
TAPE**



16mm—single or double perf. 66 foot roll 5.00
35mm—66 foot roll 9.00

BOXES OF 100 PRE-CUT STRIPS

16mm—single perf. 3.00
35mm—double perf. 4.00

For magnetic-tape—66 ft. roll

16mm—white or colored 6.00
35mm—white or colored 11.00

ORDER NOW FOR IMMEDIATE DELIVERY

F & B carries a complete stock of motion picture and audio-visual equipment.

For more information and catalogs—write—dealers inquiries invited.

FLORMAN & BABB, INC.

Dept. SM, 68 West 45 St., N. Y. MU 2-2928

engineering activities



This report presents a résumé of the major topics of discussion at the engineering committee meetings held during the Society's 81st Convention in Washington, D.C., April 29 - May 3, 1957:

Sound

Most of the work of this committee is proceeding very nicely through the co-operation of the numerous ad hoc committees:

PH22.51, Intermodulation Tests, 16mm Variable-Density Photographic Sound

This proposal was published in the January 1956 *Journal* for a three-month period of trial and criticism. Since adverse comments were received, an Ad Hoc Committee was formed to study this proposed revision. The Chairman reported continued activity on the project.

Four-Track Magnetic Release Print Sound Records for 35mm Film

A compromise proposal, resolving the objections to the second draft was submitted to the Sound Committee by the Ad Hoc Committee. Although the Sound Committee members present voted in the affirmative, it was decided to ballot the entire committee on this proposal.

PH22.82-1951, Sound Transmission of Perforated Projection Screens

In accordance with ASA rules on five-year periodic review of all American Standards, PH22.82 was submitted to the Sound Committee for a decision as to reaffirmation, revision or withdrawal. The Committee decided that the existing specification for sound transmission is still applicable. However, it was felt that the method of testing screens should be more detailed. It was recommended that the specification on hole size and spacing be referred to the Screen Brightness and Film Projection Practice Committees for a better optical performance description.

Several of the test films under the committee's jurisdiction were discussed:

16mm Azimuth Test Film, Magnetic-Type

The committee unanimously approved the fourth draft of this proposal. It was suggested that all future test film standards involving a description of signal level be referred to the Society's 16mm Magnetic Signal-Level Film and expressed in terms of magnetic induction for accuracy and consistency with magnetic test films.

16mm Multifrequency Test Film, Magnetic-Type

The Chairman of the Ad Hoc Committee appointed to study this test film presented a Progress Report. Malcolm Townsley (ISO delegate) requested a formal statement from the committee as to the proposed elimination of the de-emphasis from the

replay chain characteristics. The committee unanimously reaffirmed the U.S. position as to the inferential de-emphasis in the test film as being consistent with the U.S. industry position.

A request for information regarding 16mm review room recommendations presently controlling the quality of sound reproduction was submitted to the committee. Roger Beaudry was assigned the task of examining the present situation with reference to television film and will submit a report to the Committee.

Film-Projection Practice

There was a discussion concerning the standardization of CinemaScope-type sprockets and a Subcommittee will be formed to study this proposal. Herbert Behrens read a detailed Subcommittee Report on heat control in projection. It is expected that the work of the Subcommittee will be completed shortly and a final report will be presented at the October Convention.

Walter Beyer presented a report on a proposed test target for an all-purpose alignment and visual test film. This report has been circulated to the Committee and will be discussed at the next Convention.

PH22.28, Focal Lengths and Markings of 35mm Motion-Picture Projection Lenses

This proposal has been published for a three-month period of trial and comment and if no adverse comments are received, it will be submitted to ASA Sectional Committee PH22 for further processing as an American Standard.

The Committee approved the appointment of a Subcommittee to revive the question of Projection-Room Planning because of the many new developments since the last study undertaken by the committee in 1951.

The problem of damage to film by the indiscriminate placement of cue marks inside the picture area was referred to the committee for its consideration. Following the meeting, John B. McCullough was appointed Chairman of a Subcommittee that will be appointed to investigate the problem.

Laboratory Practice

Revision of the Laboratory Nomenclature Standard, Z22.56-1947, has been under Committee consideration for several years. At this meeting, a report on the first draft of Section 1 disclosed that some changes would be necessary. The many comments received were discussed item by item and it was decided to rewrite this Section and circulate it to the committee in the form of a second draft in the near future.

The brightness of screens in hard-top and drive-in theaters as well as in review rooms is presently being measured and it is expected that the committee will make a study of the data as it pertains to release film density.

16 & 8mm

The meeting was completely devoted to standards activity:

PH22.7, 16mm Motion-Picture Camera Image

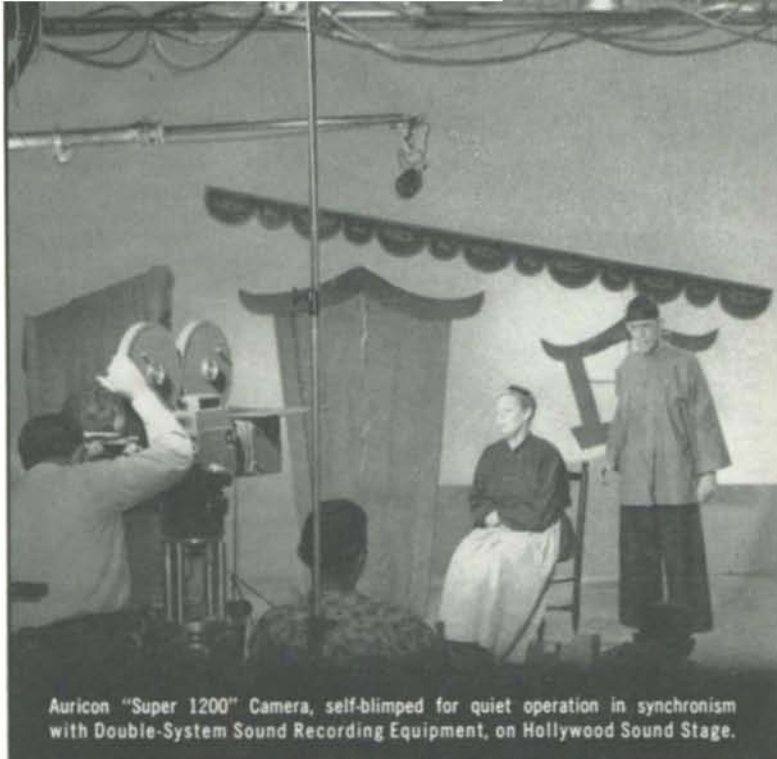
PH22.19, 8mm Motion-Picture Camera Image

These 1950 standards have been under

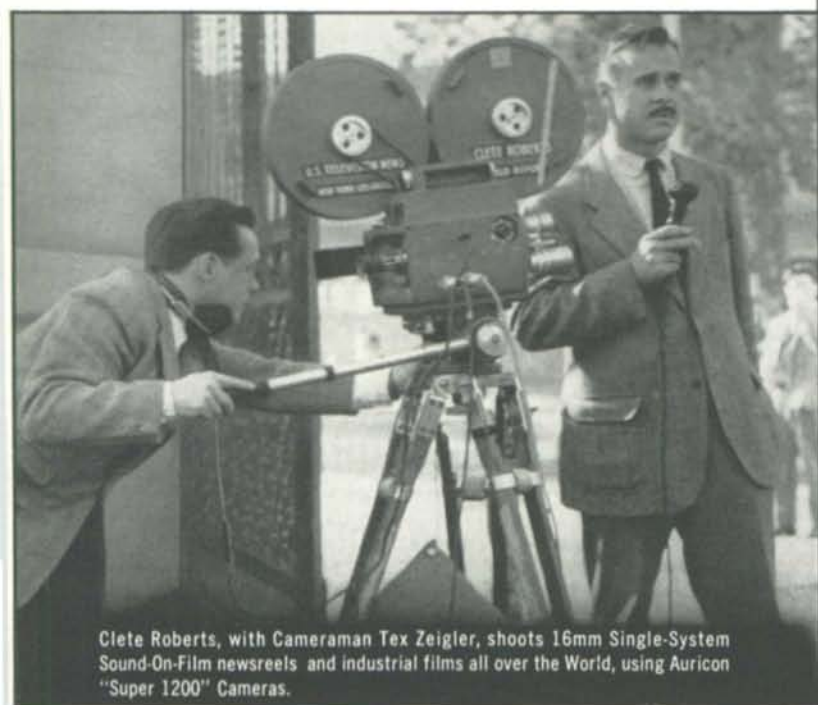
Auricon
Hollywood

Designed
for the

QUIET
of the
Hollywood Sound Stage...



Auricon "Super 1200" Camera, self-blimped for quiet operation in synchronism with Double-System Sound Recording Equipment, on Hollywood Sound Stage.



Clete Roberts, with Cameraman Tex Zeigler, shoots 16mm Single-System Sound-On-Film newsreels and industrial films all over the World, using Auricon "Super 1200" Cameras.

...yet



RUGGED

enough

for Top Newsreelers 'round the World!

Clete Roberts, World Reporter and famous CBS-

Television News Commentator, films international events with Auricon "Super 1200" 16mm Sound-On-Film Cameras. His "World Report," by Clete Roberts Productions, Inc., Beverly Hills, California has brought television viewers millions of feet of film, made under the most rugged shooting conditions in the World's trouble spots, from Suez to Hungary, and back to Streetcorner, U.S.A.!

★ **Why not own the Best?** Auricon Cameras are preferred by Professionals for Single-System 16mm Sound-On-Film or Synchronous Double-System Studio Recording. Choose Auricon for dependability! Write for your free Auricon Catalog describing the many quality features of these Cameras. Always sold with a money-back guarantee, you must be satisfied!

AURICON

A PRODUCT OF

BERNDT-BACH, INC.

6946 Romaine Street, Hollywood 38, California. (Tel. HO 2-0931)

The **Auricon**
Hollywood **Line**
SOUND-ON-FILM EQUIPMENT SINCE 1931



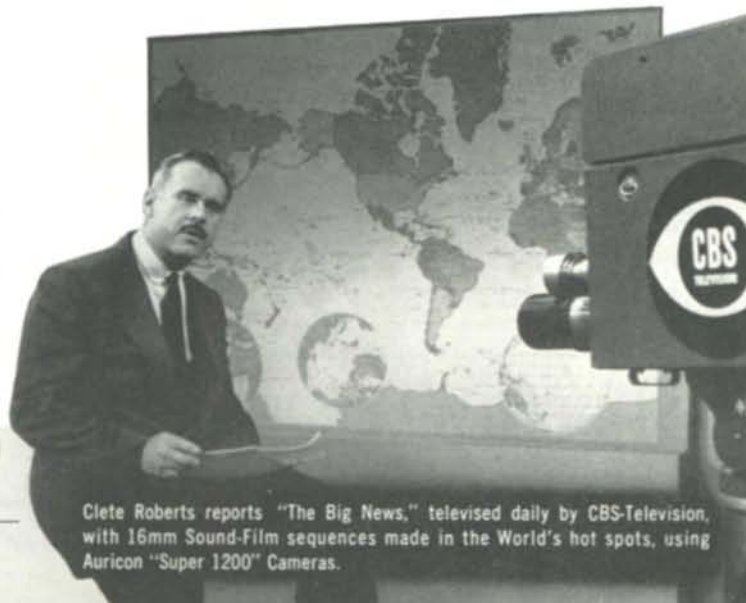
CINE-VOICE II
\$795.00 & up



AURICON PRO-600
\$1497.00 & up



SUPER 1200
\$4652.15 & up



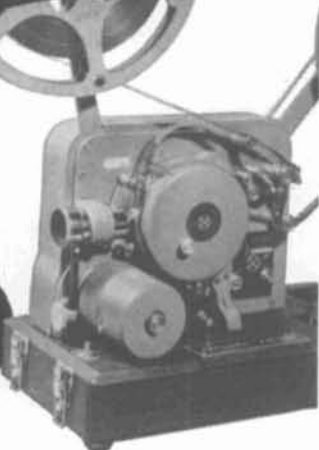
Clete Roberts reports "The Big News," televised daily by CBS-Television, with 16mm Sound-Film sequences made in the World's hot spots, using Auricon "Super 1200" Cameras.

FOR *Your* EVERY NEED
THE EASY TO USE

SENSATIONAL NEW
Movie-Mite
Supreme

Custom features at mass produced price

SAVE
1/3



SMPTE MEMBERS

Here's a quality projector designed for professional use with rugged, precision construction. Guaranteed a lifetime. Easiest to use. Easiest to carry. Only 27½ lbs.

Complete \$298.50



SPLICE-O-FILM



The finest hot automatic splicer in the world. Fastest, strongest professional splices. Only \$99.50



Harwald STORAGE CABINETS



for Beauty
Safety
Convenience
Efficiency
Economy.



Moviscop VIEWER

The very finest 16mm action viewer. Precision German mechanism. For producers—T.V.—Labs.



Please check squares above for complete information on any or all items shown and mail this ad to:

THE HARWALD CO.

1216 Chicago Ave., Evanston, Ill.
Phone: Davis 8-7070

SJ

study by the Committee for some time. A. C. Robertson presented a proposed revision of PH22.7 which offers a possible solution to many of the objections concerning this Standard. Inasmuch as PH22.7 and PH22.19 have been processed simultaneously, the conclusions affecting PH22.7 would also apply to .19.

16mm Camera Spools

Study of this proposal has been under committee consideration since 1948. A first draft has been prepared and will be circulated to the committee in the near future.

PH22.11, 16mm Motion-Picture Reels

A proposal was made to revise this Standard to include reel sizes of 600 ft, 1000 ft and reels of greater capacities.

PH22.76, Lens Mounts for 16mm and 8mm Cameras

The first draft of the proposed revision of this Standard was circulated to the Committee in August 1956. Adverse comments were received pertaining to the designation of the mounts. A second draft is being prepared, incorporating the necessary changes.

PH22.107, Film Spools for 8mm Cameras

The committee is presently studying several proposed versions of this Standard in an effort to reach a satisfactory conclusion.

PH22.38, Raw Stock Cores for 16mm Motion-Picture Film

PH22.50, Reel Spindles for 16mm Motion-Picture Projectors

PH22.83, Edge Numbering 16mm Motion-Picture Film

These Standards are up for periodic review and it appears that there is no objection to their being reaffirmed.

PH22.24, Splices for 16mm Motion-Picture Films for Projection

PH22.77, Splices for 8mm Motion-Picture Films

While these Standards were being reviewed a proposal was made to specify the thickness of the splices. This question is still under Committee consideration.

High-Speed Photography

A discussion concerning the compilation of a list of definitions pertaining to high-speed photography took place. It was suggested that the list of terms should not only present a general dictionary definition but also a more specific technical definition. On the completion of this list it is expected that it will be forwarded to the Royal Naval Scientific Service of the Admiralty, London, England, for review prior to its presentation to the International Symposium on High-Speed Photography.

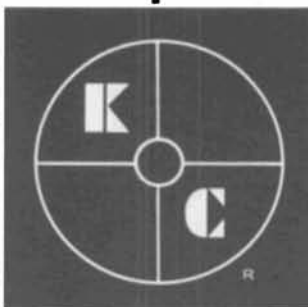
A status report on the progress of the SMPTE Recommended Practice on Lens Mount Surface for High-Speed Motion-Picture Cameras was presented. This Recommended Practice has subsequently been approved by the Board of Governors, published in the August Journal and reprinted for general distribution.

• **35mm f/1.7 Projection Lenses**

• **16mm Special Projection Lenses**

• **Special Optical Systems**

• **Optical Engineering and Design**



KOLLMORGEN
Optical

CORPORATION
Northampton,
Massachusetts

GOOD NEWS!

ARRIFLEX 16 SHIPMENTS STEPPED UP

Many important motion picture producers, cinematographers, and industrial users waited months—even years—for delivery of Arriflex 16 cameras. With the intense demand for this outstanding equipment far in excess of initial production, a long waiting time was unavoidable.

Today, more new buildings, more new machinery, and a growing staff of highly skilled technicians enable the Arri factory to fill orders with increasing speed.

If you want the ultimate in 16mm cinematography, you will, naturally, turn to the Arriflex 16. Its mirror reflex shutter—not a beam splitter—gives you positive through-the-lens focusing and viewing without loss of lens efficiency, eliminates finders and rack-over devices. A registration pin film movement assures rock-steady screen images. You have a choice of electric motor drives for any purpose including synchronization, animation, or time lapse. Sound blimp, 400 ft. magazines, and wide selection of useful accessories, plus many other built-in features make the Arriflex 16 the outstanding all-round cine camera. What's more its weight of only 6½ pounds makes it ideal for hand-held shooting.

See your franchised Arri Dealer for a complete demonstration.



KLING

PHOTO CORP.

257 Fourth Avenue, New York 10, N. Y.
7303 Melrose Avenue, Hollywood 46, Cal.



Arriflex is a member of the
Kling family of fine
West German photographic products.

A general discussion was held concerning the publication of High-Speed Photography Reprint Volume 6. The consensus was that it would be advisable to continue the series and that the Chairman should convey the committee's feelings to the Publications Advisory Committee and to the Board of Editors.

Plans for the Fourth International Congress to be held at Dusseldorf, Germany, in September 1958 were discussed. The Chairman requested assistance in securing papers for presentation at the Congress. Furthermore, a working committee was established to consider preliminary planning of the Fifth International Congress which is scheduled to meet in the United States in 1960. It was suggested that photographic organizations and the government may wish to participate.

PH22

A status report was presented on the fifteen standards reviewed by the committee since January 1956. Since there were no other standards presently under consideration by the committee, the entire meeting was devoted to international standardization.

The progress of the ten Second Draft ISO Recommendations was reviewed. There appears to be general agreement between these Recommendations and related American Standards. Although some numerical differences exist in the way in which the dimensional tolerances have been rounded off, the Chairman recom-

mended that the ASA approve the Recommendations.

Mention was made of the five ISO Draft Proposals which are still under active consideration. The progress of the seven ISO Working Groups organized at the 1955 Stockholm meeting was noted. The chairman advised the Committee that the next ISO meeting is to be held at Harrogate, England, in June 1958.

Television

A letter ballot on the proposal on TV Projector for Vidicon Camera Operation was circulated to the Committee and the several adverse comments received were discussed in detail, particularly those pertaining to the control of light intensity reaching the face of the vidicon. The proposal has been returned to the Subcommittee for further work.

It has been found that when producing a color film for use over a television system certain precautions must be taken to insure that adequate contrast between objects of different colors is still preserved when the picture is viewed on a monochrome television receiver. A Subcommittee has been formed to study this problem.

A uniform method of sync marking was discussed and it was reported that while some agreement has been reached more time would be needed to study the problem.

A lengthy discussion was held on printing recommendations concerning the minimum and maximum density that is desirable for television reproduction. Paul Ireland was

asked to look into this problem and report to the Committee on his recommendations.

Color

The activities of several of the Subcommittees were reviewed: The Subcommittee commissioned to investigate the projection light sources and screens for color films has had some difficulty in obtaining data on the spectral reflectance characteristics of new and old screens. However, it appears that a workable plan for obtaining at least abridged information is now possible.

The Subcommittee which is investigating spectral energy of photographic illuminants reported that a new system had been worked out to describe the spectral emission of light sources, the spectral transmittance of correction filters and spectral response of color films in terms of "photographic index." These indexes are on a logarithmic scale so that simple addition or subtraction gives the total effect of light, filters and film. It is expected that the Committee will be able to complete this project and write it up for publication some time this year.

A proposal prepared by the Subcommittee on densitometry of color film soundtracks was submitted to the parent Committee. One negative vote was cast and the proposal has been returned to the Subcommittee for suitable revision.

The monograph *Elements of Color in Professional Motion Pictures* has been distributed without charge to all members of the Society. The reaction has been quite favorable and extra copies have been printed and are now available at a nominal cost.

Closed Circuit Television

An exploratory session was held to determine the nature and extent of current and possible future interest in closed-circuit television. Thirty-eight representatives from some 22 companies participated in the informal discussion. It was decided that an Ad Hoc Committee should be formed to formulate a scope of activity and an initial program of work to be undertaken. It was also suggested that this Committee effect coordination with organizations doing related work. Axel G. Jensen, Engineering Vice-President, subsequently appointed Dr. Raymond L. Garman of General Precision Laboratory as Chairman of the Ad Hoc Committee.—*J. Howard Schumacher*, Staff Engineer.

If Its Photography There's an American Standard is a 16-page booklet that lists and describes 42 American Standards for camera; 26 for films, plates and papers; 3 on microfilm; 30 on processing and processing equipment; 70 on photographic grade chemicals; 7 on projection; 89 on motion pictures. The booklet is available without charge from the American Standards Association, 70 E. 45 St., New York 17.

Membership Certificates (Active and Associate members only). Attractive hand engrossed certificates, suitable for framing for display in offices or homes, may be obtained by writing to Society headquarters, at 55 West 42nd St., New York 36, Price: \$2.50.

Send Your Film To The Complete 16MM Service Laboratory

Unsurpassed for . . .

SPEED

QUALITY

**Personalized
SERVICE**

MOTION PICTURE LABORATORIES, INC.

1672 Union Ave., Memphis 4, Tenn., Phone BRoadway 5-2323

MPL

The Master Craftsmanship Your Film Deserves