

section reports



The varied uses of fiber optics were demonstrated for 49 members and guests of the **Cape Canaveral Section** at the October 26 meeting. The use of fiber optics in motion-picture printing was discussed by Arthur J. Miller of Du Art Film Laboratories, New York City. The program was continued by Dr. W. Siegmund of American Optical Co., who told how fiber optics are manufactured and discussed their uses in industry and medicine. The meeting was followed by a social hour and a dinner honoring the two speakers. — W. G. Wiest, *Secretary-Treasurer*, 122 No. Indian Hill Circle, Cocoa, Fla.

The **Denver Section** met November 26 at Thomas J. Barbre Productions and heard Paul Emrich, sound director for the firm, speak on "Experiences With 16mm Color Positive and Color Reversal Duplicates." The talk was illustrated with film samples on dual projectors, permitting direct comparisons of original footage with various duplicate samples. The meeting concluded with a tour of the studios, and refreshments. Twenty-seven members and guests attended. — Stanley C. Phillips, *Secretary-Treasurer*, 3330 West 93rd Ave., Westminster, Colo.

The **Detroit Section** met November 14 at the Jam Handy Organization, with 70 members and guests present. The first paper of the evening, "High Speed Studies of Fractures of Brittle Materials," was presented by R. W. Anderson of Dow Chemical Co. A second paper, "Color Film Standards for Television," was given by Robert Morris of American Broadcasting Co. Both papers were followed by lively question-and-answer sessions. The meeting was opened with a Jam Handy Organization film, *Detroit USA*, produced for the Detroit Olympic Committee. Refreshments were served at the close of the meeting. — Richard O. Painter, *Secretary-Treasurer*, 811 Atlantic, Milford, Mich.

A talk on "Current Approaches to Color Television in America and Europe" was given for 123 members and guests of the **Huntsville Section** at the September 17 meeting at Redstone Arsenal's Squirrel Hill Officers Club.

The speaker was John W. Wentworth, manager of Educational Electronics for RCA's Broadcast and Communications Products Division. Mr. Wentworth noted that most European systems are patterned after the British, but that more recent American design is strongly influencing the future of European systems.

A social hour and buffet dinner followed the meeting. — Karl LaRoche, Jr., *Secretary-Treasurer*, 2209 Euclid Rd., N.W., Huntsville, Ala. 35810.

February 1, 1964, is the entry deadline for the 1964 American TV Commercials Festival. All U.S. and Canadian commercials that were telecast for the first time during 1963 are eligible for the competition, which is open to advertisers, their agencies, production companies and television stations. Entry forms and other details may be obtained from the festival office at 40 East 49th St., New York, N.Y. 10017.

William D. Littschwager has been appointed Director of Marketing for Cinerama Camera Corp. He was formerly Manager of Engineering Services and also served as director of the company's Spacearium Program at the Seattle World's Fair.

Roger Monteran, internationally known cinematographer, has been appointed Air-to-Ground specialist for the Alexander Film Co. of Colorado Springs. Mr. Monteran has spent most of his life in France and in Africa and he has been active in the motion-picture production field for more than 30 years. In 1935 he formed his own company in Algeria and produced documentary and commercial films there until 1952.

Charles "Cap" Palmer, an independent Hollywood producer who is head of his own company, Parthenon Pictures, 2625 Temple St., Hollywood 26, was chosen to produce two films of the Bell Telephone series *Television in Education*. In discussing the assignment, Mr. Palmer explained that his views on instructional television were considerably changed as a result of producing the films. From feeling that televised instruction would not hold the attention of the students and that classroom television would lead to a deterioration of the quality of "live" teaching he became completely "sold" on the potentialities of educational television. For example, he realized that children were accustomed to identifying with televised programs when, in a fifth grade classroom, "a televised cork popped explosively out of a heated test tube and thirty kids jumped in unison."

Robert W. Carr has been appointed Manager of the newly created Professional Products Division of Shure Brothers, Inc., 222 Hartrey Ave., Evanston, Ill. The new division will specialize in products for radio and television broadcasting, commercial recording, motion-picture and television film production, and all applications involving professional sound reinforcement. The new division will also supply technical service and assistance to sound engineers.

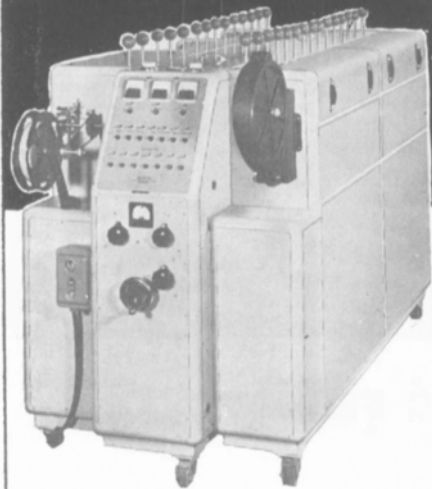
Full commercial production of the Color Eidophor has been announced by Nathan L. Halpern, President of Theatre Network Television, Inc., (TNT) and demonstrations have been scheduled in a number of key cities throughout the United States. Demonstrations are given at TNT's Technical Center in Woodside, L.I., N.Y., and the Color Eidophor will also go on tour in late November with the first demonstration to be held in Washington, D.C. A prototype of the machine is now in operation at the Air Force Development Center in Rome, N.Y.

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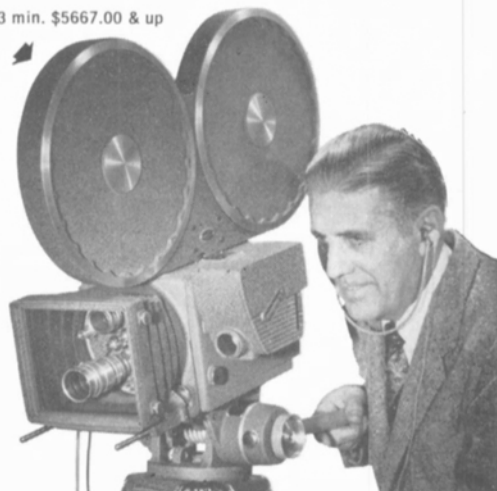
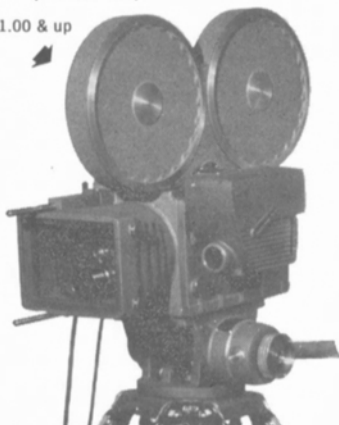


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The October 22 meeting of the **Huntsville Section**, held in the Squirrel Hill Officers Club of Redstone Arsenal, was attended by 59 members and guests. Guest speaker was William Dean Collins of Minnesota Mining & Manufacturing Co., who presented a paper (by A. H. Moris) on a new magnetic tape with greater dynamic range.

A film, *Magnetic Memory*, was shown to the group, and equipment demonstrations were conducted by Ampex, 3M and Traid Corp. during the social hour preceding the meeting.

The guest speaker was entertained by the Officers and Managers at a pre-meeting dinner in the main dining room of the club. — Karl LaRoche, Jr., *Secretary-Treasurer*, 2209 Euclid Rd., N.W., Huntsville, Ala. 35810.

Forty-one members and guests attended the November 19 meeting of the **Huntsville Section** at the Squirrel Hill Officers Club of Redstone Arsenal. The speaker was P. J. FitzSimons of Sylvania Electric Products, who discussed quartz-iodine lamps and demonstrated several pieces of lighting equipment. Sylvania also provided one of its Sun Guns as a door prize. Mr. FitzSimons was entertained at a pre-meeting dinner by the officers and committee chairmen. — Karl LaRoche, Jr., *Secretary-Treasurer*, 2209 Euclid Rd., N.W., Huntsville, Ala. 35810.

The **Montreal Section** held its November 22 meeting in Ottawa — the first time a

Society meeting has ever been held in the capital. The 34 members and guests who attended the meeting at Northern Electric Co. heard Gordon Thompson of the Systems Engineering Group of Northern deliver a paper on "Relay Optical Systems for TV Film Chains," outlining a practical method to guide the TV engineer in the selection of suitable optical components. The meeting opened with a film, *In the Balance*. After refreshments, the group toured Northern Electric's laboratories. — Michael W. Barlow, *Chairman*, c/o CFCF-TV, 405 Ogilvy Ave., Montreal, Que., Canada.

Robert M. Corbin of Eastman Kodak Co., Rochester, N.Y., spoke on "Motion Pictures in the Far East" at the March 13 meeting of the **New York Section** at the World Affairs Center Auditorium. The meeting was attended by 185 members and guests. A social hour followed. — Boyce Nemec, *Secretary-Treasurer*, c/o Reevesound Co., 35-54 36th St., Long Island City, N.Y.

"New Techniques in Video Tape Editing" were discussed by Norman F. Bounsall of Ampex at the June 12 meeting of the **New York Section**. The meeting, held at Video Tape Center, was followed by a social hour. There were 240 members and guests present. — Boyce Nemec, *Secretary-Treasurer*, c/o Reevesound Co., 35-54 36th St., Long Island City, N.Y.

The October 24 meeting of the **Rochester Section** featured a tour of Valley Studios, with Andrew McGowan and Richard Floberg as hosts. After seeing the production facilities, the 51 members and guests viewed several films produced by the studios. Refreshments were served at the close of the meeting. — Bruce R. Beiswenger, *Secretary-Treasurer*, 1653 Titus Ave., Rochester, N.Y.

The **San Francisco Section** met with the Society of Photographic Scientists and Engineers (SPSE) November 15 at the Northern California regional offices of Eastman Kodak Co. The joint meeting was attended by 110 persons.

The first speaker was Vaughn C. Shaner of Kodak in Hollywood, who delivered a paper (written by G. J. Johnson, W. H. Bahler and J. C. Barnes) on "Rapid Processing of a Panchromatic Negative Film by the Application of a Viscous Monobath." A second paper, on the new Ektachrome Type 7256 film, was presented by Joseph White of Kodak in San Francisco. Mr. White used a dual projection set-up to compare the new film with other Kodak color products.

A highlight of the meeting was the presentation of Fellow Membership Awards to William E. Evans and William A. Palmer, both of the San Francisco Section. The meeting closed with the serving of refreshments provided through the courtesy of Kodak. — Harry N. Jacobs, *Secretary-Treasurer*, 333 Buena Vista, Mill Valley, Calif.

an 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

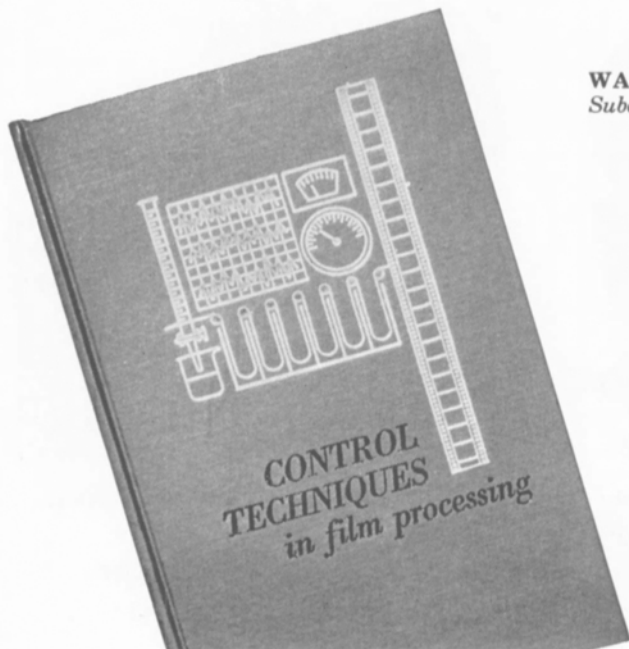
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| 1. Introduction | 6. Control Strips and Sensitometric Curves |
| 2. General Principles | 7. Sensitometric Control of a Standardized Process |
| 3. General Aspects of Motion-Picture Film Processing | 8. Chemistry of Film Processing |
| 4. Mechanical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

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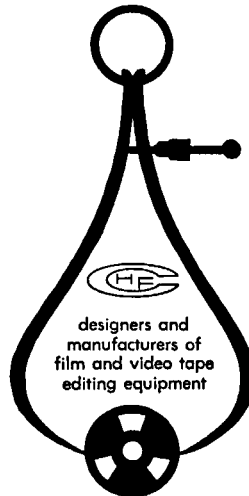
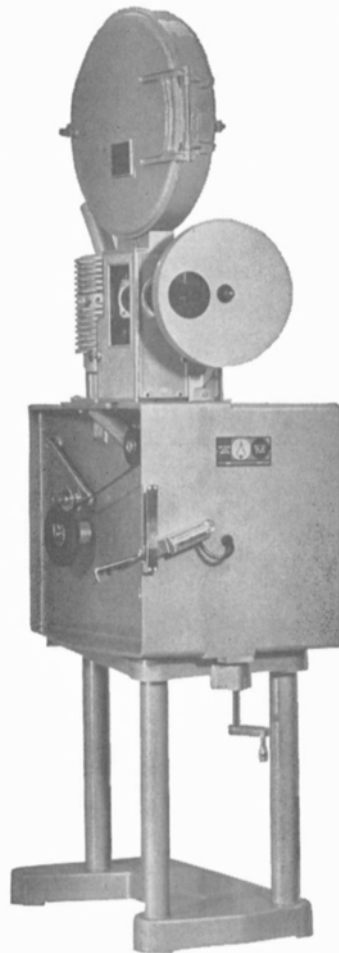
The projector is a converted front shutter Simplex with a two pin intermittent. 16mm or 35/32 film runs at a speed of 144 ft. per minute while 35mm film runs at a speed of 165 ft. per minute.

1. A variac controls the light intensity.
2. A 500 watt lamp is used for 16mm and a 1,000 watt for 35mm (a blower is used to cool the lamphouse).
3. A 2½ inch projection lens is furnished with each unit.
4. A start-stop lever controls the power to the lamp and motor.
5. The magazine and take up core takes up to 3,000 ft. of film.
6. Upper guide rollers are made to handle the film from either direction of the feed reel.
7. A free wheeling take off flange is provided in the magazine.
8. A lamp near the takeup reel permits hand inspection of the film prior to takeup.

NOUVEAU

Le projecteur contient un obturateur Simplex antérieur transformé avec deux clavettes intermittente. Les films de 16mm ou 35/32 tournent avec une vitesse de 144 pieds à la minute, tandis que les films de 35mm tournent avec une vitesse de 165 pieds à la minute.

1. Le regulateur de voltage d'intensité d'éclairage.
2. La lampe de 500 watt est nécessaire pour les films de 16mm, et de 1000 watt, pour les films de 35mm (un ventilateur est mise pour rafraichir la chambre de la lampe).
3. L'objectif de 2½ est installé.
4. La manette de mise en marche et d'arrêt controle en meme temps la lampe et le moteur.
5. La boîte de films avec noyau peut contenir 3000 pieds du films.
6. La roue supérieure est construite de manière de recevoir le film dans les deux directions, nourrie par la bobine centrale.
7. Une roue est installée pour libérer rapidement le film de la boîte.
8. La lampe se trouve pres de la bobine recepteuse, et donne toute facilité pour inspecter le film a main dans le projecteur.



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NUOVO

Questi proiettori sono Simplex trasformati, otturatore al fronte, meccanismo di scatto di due punte. La velocità di proiezione in 16 o 35/32mm è di 144 piedi per minuto, e in 35mm, di 165 piedi per minuto.

1. Controllo manuale della luminosità della lampada.
2. Lampada di 500 watt per 16mm e di 1000 watt per 35mm.
3. Obiettivo di proiezione di 2½".
4. Maniglia per controllo di motore e lampada di proiezione.
5. La cassetta porta pellicola può contenere 3000 piedi.
6. I rulli superiori di guida sono costruiti per operare con film proveniente di ambedue i lati della bobina avvolgitrice.
7. Disco con montatura sporgente nel magazzino.
8. Una lampadina illumina la bobina avvolgitrice, permettendo l'ispezione manuale del film prima che si avvolga nel proiettore.

NUEVO

Esta máquina es un proyector simplex convertido, obturador al frente y movimiento intermitente a doble grifa. Para 16mm o 35/32mm, la velocidad fija de proyección es de 144 pies por minuto, para 35mm es de 165 pies por minuto.

1. Un reostato controla la intensidad de la lámpara de proyección.
2. Para 16mm se usa una lámpara de 500 watt, y una de 1000 watt para 35mm (un chorro de aire ventila las lámparas en ambos casos).
3. Cada unidad está provista de un lente de proyección de 2 pulgadas y media.
4. Una palanca de control opera el motor y la lámpara simultáneamente.
5. Capacidad de proyección: rollos de hasta 3000'.
6. Los rodillos de guía superiores operan con la película en ambas direcciones.
7. La tapa de la bobina de carga es desenroscable.
8. Una lámpara ubicada junto a la bobina de toma permite la inspección manual de la película antes que se rebobine en la bobina superior del proyector.