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New Members

The following members have been added to the Society's rolls since the April 1962 *Directory*, the July, November 1962, and March 1963 listings. Also listed are those regretfully reported as deceased since then. The designations of grades are the same as those used in the April 1962 *Directory*. An up-to-date list of the Sustaining Members appears on the outside back cover of each month's *Journal*.

Fellow (F) Active (M) Associate (A) Student (S) Life Fellow (LF)

Deceased:

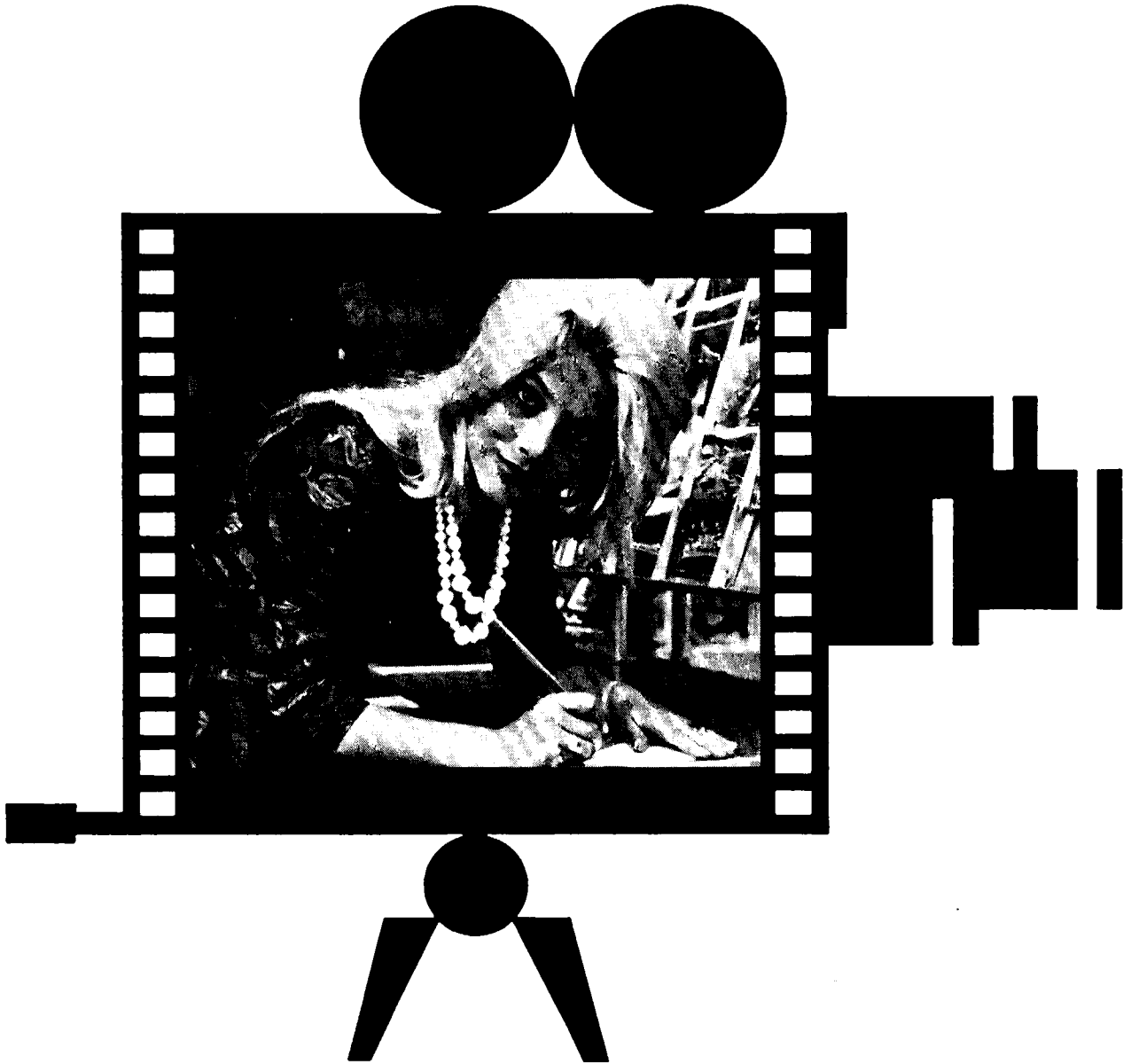
<i>Lawrence A. Aicholtz (M)</i>	<i>Ted Hirsch (M)</i>	<i>Carl F. Turvey (M)</i>
<i>F. O. Calvin (M)</i>	<i>William V. Hoffman (A)</i>	<i>John Upton (M)</i>
<i>John P. Flaherty (M)</i>	<i>John R. Howland (M)</i>	<i>Richard Weaver (A)</i>
<i>Emil C. Ganz (M)</i>	<i>William Doak Neil (A)</i>	<i>Harro V. Zeppelin (M)</i>
<i>Jack Goetz (M)</i>	<i>Nathan Sobel (M)</i>	

Erratum

In the "Supplement to a Directory for Members" in the April *Journal*, the address for inquiries was incorrectly given for Ferrania, S.p.A., Milano, Italy.

Address inquiries to: Francesco C. Griccioli, U. S. Representative, Ferrania, S.p.A., 521 Fifth Ave., New York 17, N.Y.

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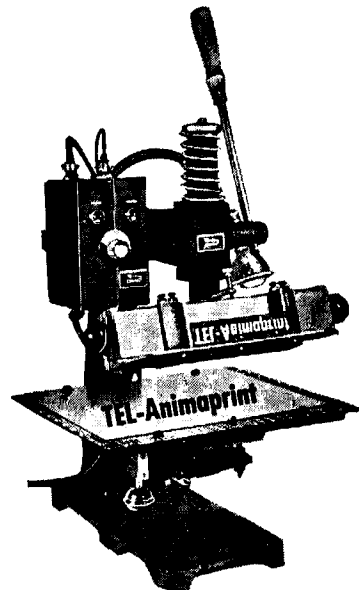
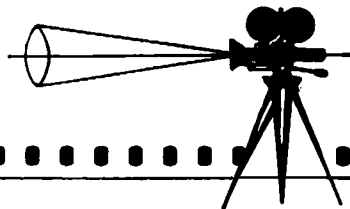
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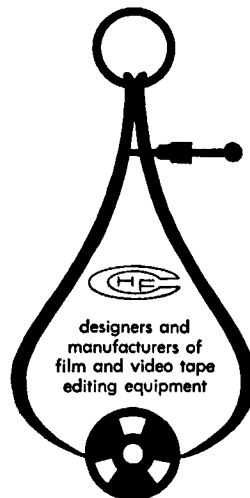
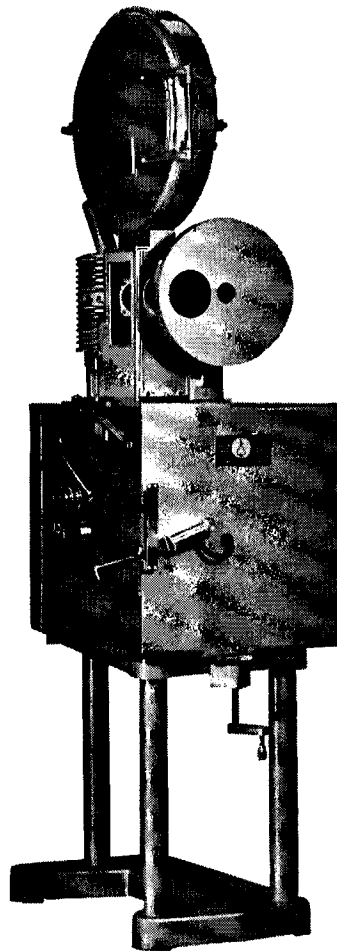
The projector is a converted front shutter Simplex with a two pin intermittent. 16mm or 35/32 film runs at a speed of 144 ft. per minute while 35mm film runs at a speed of 165 ft. per minute.

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

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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 puo contenere 3000 piedi.
6. I rulli superiori di guida sono costruiti per operare con film proveniente di ambedue i lati della bobina svolgitrice.
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 lampara de proyección.
2. Para 16mm se usa una lampara 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 lampara 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.

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Infinitely
Variable
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60 ft. per min.

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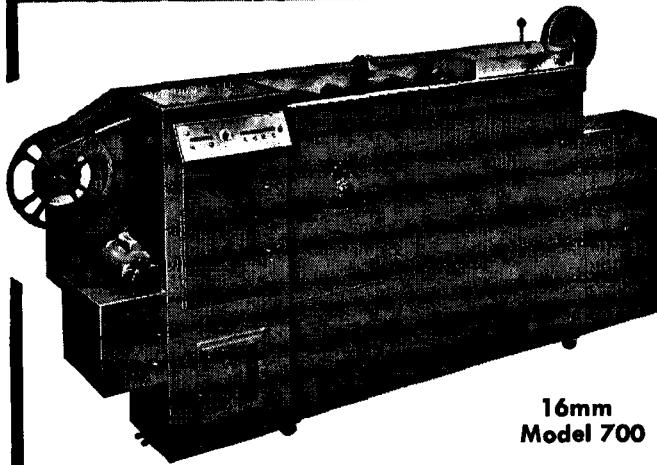
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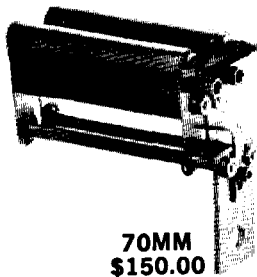
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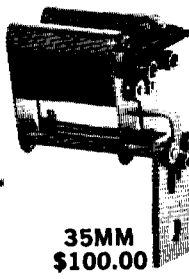
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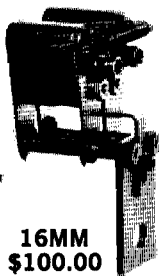
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Wigens, Anthony John, Editor, Cine Camera. Mail: 32 Ilmington Rd., Kenton, Harrow, Middlesex, England (A)

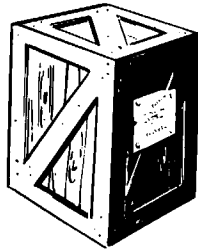
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new products (and developments)



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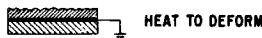
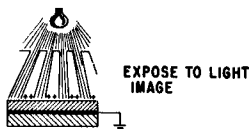
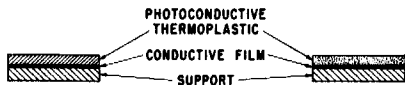


Photo-Plastic Recording, a new method for taking pictures and developing them instantly by flashing light onto an electrostatically charged film, has been announced by General Electric Co., Schenec-

tady, N.Y. The new process, invented by Joseph Gaynor, permits images to be developed in 1/10 to 1/100 sec. Developing is done with heat alone and everything needed to produce the image is contained within the film itself. The images are produced in a plastic film which can be either clear or opaque. It is possible to reuse the same film more than a dozen times without substantially impairing the quality of the image. The image to be recorded is produced on the film by a light beam striking an electrostatically charged photoconductive plastic film. After the film is softened by being heated, microscopic depressions are formed in it by the charges, which conform to the pattern of the image. The film is then recoiled so the tiny depressions, which make up the finished picture, will be sealed in. The heating and cooling, both accomplished in a fraction of a second, constitute the entire development process.

The photo-plastic material used in the film must melt and solidify repeatedly, be able to hold an electrostatic charge on its surface in the dark, be resistant to cracking, and remain free of tackiness after being heated; otherwise it could not be rolled up on tape form without one loop sticking to the next. The film must also be able to dissipate electrostatic charges whenever it is exposed to light.

Photo-Plastic Recording bears resemblance to Thermoplastic Recording, invented by W. E. Glenn (*Journal*, pp. 577-580, Sept. 1960, and pp. 670-675, Sept. 1962). The main difference is that Thermoplastic Recording records an electrical signal, while Photo-Plastic Recording can use ordinary light to record images in a normal atmosphere. Using Thermoplastic Recording, information is written at extremely high density by means of an electron beam on a film consisting of a low-melting thermoplastic material. This information can be projected as a full color image or can be converted to an electrical signal.

Photo-Plastic Recording equipment as used in the laboratory work consists, essentially, of a light source, optical lenses, and a "corona" device for placing electrostatic charges on the tape. Ordinary house

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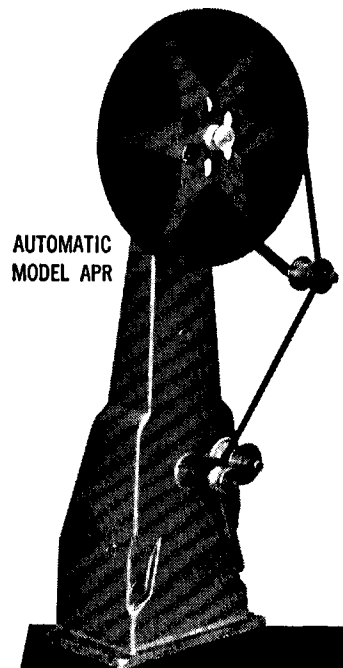
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