

# Exhibit Directory

## EXHIBIT HOURS

Monday, April 17 .....	5:00-8:00
Tuesday, April 18.....	11:00-8:00
Wednesday, April 19.....	9:30-4:00
Thursday, April 20.....	11:00-6:00

Admission to the Exhibit will be by Registration Badge or Exhibit Pass. Passes may be obtained free of charge at the Registration Desk.

**Albion Optical Co.** Booth 40  
260 North Route 303, West Nyack, N. Y. 10994

*Exhibiting:* The recently introduced Varotal XX 40-400mm f/5.6 Image Orthicon Television Zoom Lens as well as the Varotal V Lens with adapters to suit all camera types. Also exhibited will be representative samples of Taylor Hobson Cooke fixed focus lenses for motion picture photography, television, aerial photography, and copying lenses for graphic arts, commercial and scientific purposes.

*Personnel:* James F. Tennyson, Roy M. Leavesley.

**Allied Impex Corp.** Booth 77  
300 Park Ave. South, New York, N. Y. 10010

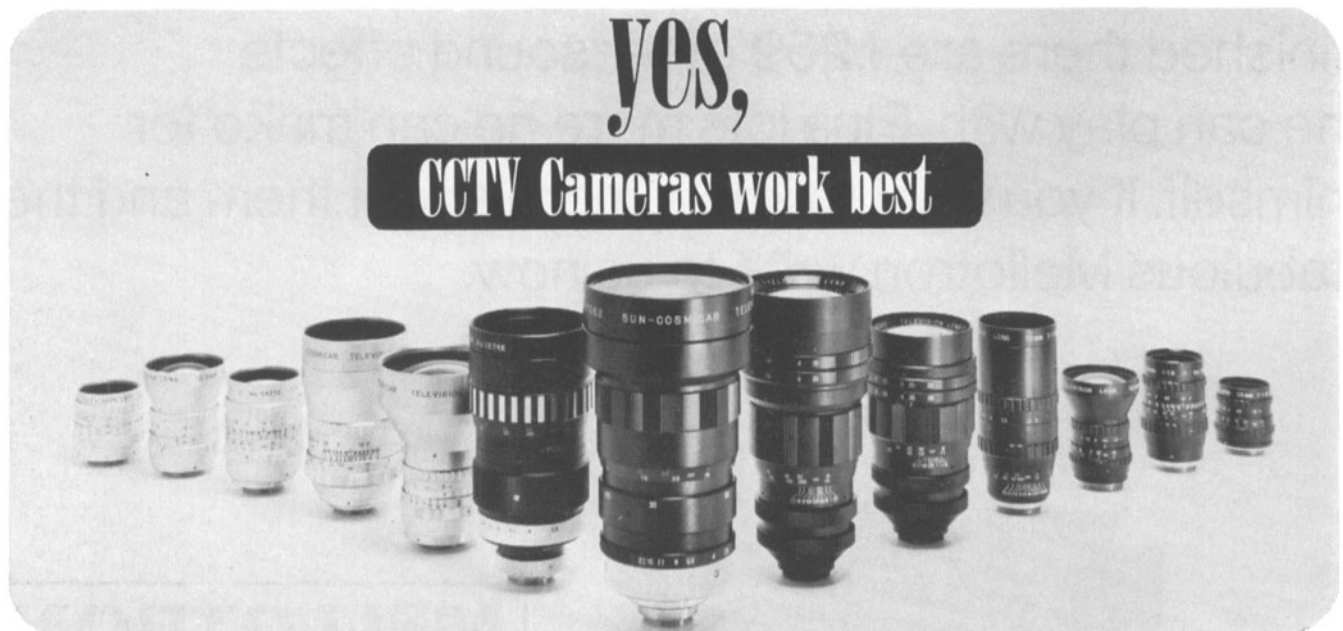
**Amega Corp.** Booth 22  
11817 Wicks St., Sun Valley, Calif. 91352

*Exhibiting:* Amega audio division showing the latest in integrated circuit miniature interchangeable modules, power supplies, recording oscillators and multi channel buffers; portable self contained field mixers using studio components; Amega Edit-Sync displacement recorder reproducer for single sound, in line recording oscillator permitting any mixer to be used in field recording amplifier; Amega model M-3 portable self contained synchronous recorder unit operates from pulse-sync or tuned fork synchronous supply. No wires needed between camera and recorder; Amega multi-lock direct drive motor interlock system. Multi-lock eliminates conventional gear drive and inter-lock motors. Remote or local control operation.

*Personnel:* Theodore M. Alexander, William H. Stutz, Robert S. Dickinson, John Hall.

**Arriflex Corp. of America** Booths 58, 59  
25-20 Brooklyn-Queens Expwy W., Woodside, N. Y. 11377

*Exhibiting:* The Sound convertible Arriflex 16BL, equipped for single system sound, shown with a newly available, sharp Zeiss 12.5-75mm, F/2 Vario Sonnar, also shown will be a high precision tuning fork controlled motor; the Arriflex 352CT, which is equipped for the Techniscope process; the Arriflex 16S and Arriflex 16M cameras and broad range of accessories. Also shown for the first time will be



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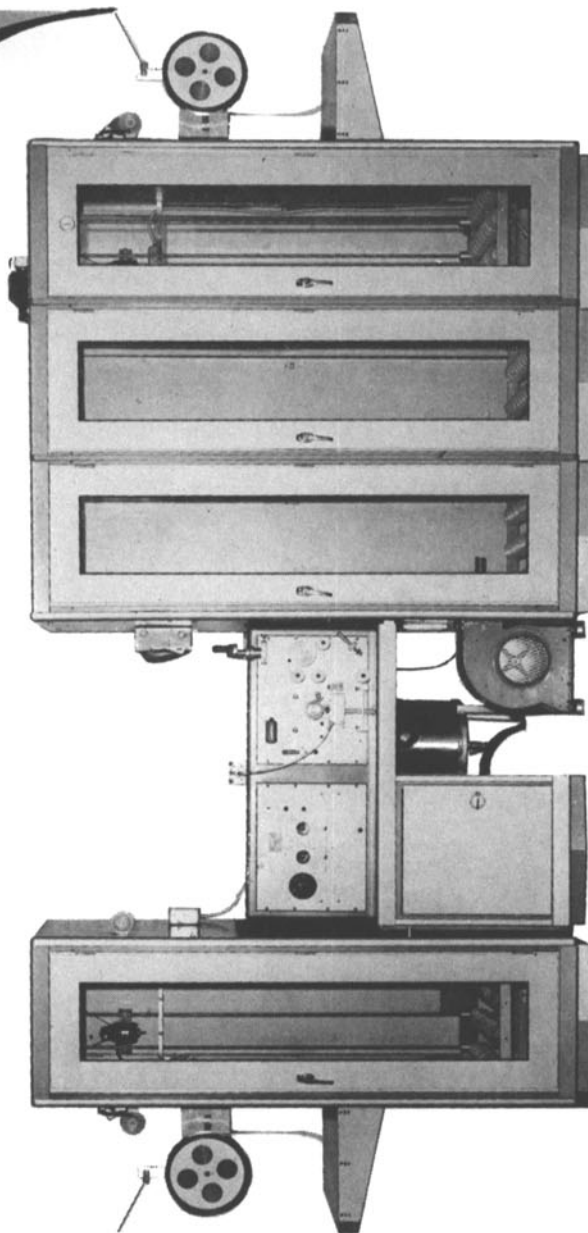
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DIVISION

NORTH AMERICAN PHILIPS COMPANY, INC.  
900 South Columbus Avenue, Mount Vernon, New York 10550

the Siemens 2000 16/16 sound projector equipped with synchronous motor.

*Personnel:* Paul Klingenstein, Victor James, Bruce Harris, Michael Herman, Peter Ildau.

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**Atlas Projector Corp.** Booth 72  
10834 W. Washington Blvd., Culver City, Calif. 90230.

---

**Bach Auricon, Inc.** Booth 90  
6950 Romaine St., Hollywood, Calif. 90038

*Exhibiting:* The complete line of models of Auricon cameras, including the new Bach camera, plus double-system Optical Sound-on-Film Recorders; New Datasync Sync-Pulse System, Model DSP, installed on Auricon cameras; the new all all-transistorized Filmagnetic Recording system for Auricon cameras with interchangeable, rechargeable batteries; Auricon Tripods; Microphone Boom; the new Angenieux-Bach 10:1 Zoom Lenses 12-120mm and 9.5-95mm, custom designed for Auricon 16mm cameras. Also exhibited will be the Berthiot Zoom Lens Bach Zoomiscope 17-85mm.

*Personnel:* Peter P. Waldeck, Howard Stephens, Walter Bach, Gerhard H. Koester.

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**Bausch & Lomb, Inc.** Booths 79, 80  
635 St. Paul St., Rochester, N. Y. 14602

*Exhibiting:* Bausch & Lomb data on a new series of exceptionally high quality, diffraction limited, long focal length lenses. These refractive optical systems have been designed to provide the ultimate in performance for track-

ing and space applications and are custom manufactured based on individual applications; also exhibited will be the Astronomical Quality optical glass making and measuring capabilities. This capability will produce glass up to 24 in. in diameter and 6 in. thick with index homogeneity of plus or minus .000001 and a measurement accuracy of plus or minus .0000005.

*Personnel:* E. F. Day, T. Ven Vertloh.

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**Bell & Howell Co.** Booths 81, 82, 83  
7100 McCormick Rd., Chicago, Ill. 60645

*Exhibiting:* Des. 6200 C Color Additive Printer; Des. 6202 C Soundhead; Des. 6170 D. Program Tape Punch; Des. 6395 D R. F. Cue Attachment; Des. 6173 D. Program Tape Checker Duplicator; Des. 6322 35/32mm Double Head Panel Printer.

*Personnel:* D. S. Fletcher, J. E. Debish, H. C. Wohlrab, J. J. Terry, S. R. Kurtzweil.

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**The Camera Mart, Inc.** Booths 91, 92, 93, 94  
1845 Broadway, New York, N. Y. 10023

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**Canon U.S.A. Inc.** Booths 53, 54  
550 Fifth Ave., New York, N. Y. 10036

*Exhibiting:* Canon Scoopic 36 movie camera which operates as easily as the advanced 8mm, with these features: fully automatic electric eye, or manual override, *f*/1.6 zoom lens, 13-76mm, with 6:1 ratio, electric drive with built-in NiCd battery, consistently bright flicker-free reflex viewing and focusing; Canon Kalvar Slide Maker which makes 35mm slides without chemicals in normal room.

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### PROFESSIONAL PROJECTION SYSTEM

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Here is a flexible, movable, tool that has the reproduction quality equal to that recorded on the sound stage. With its ability to go forward, stop quickly, reverse immediately, play picture and separate track (optical or magnetic, film or tape), inter-lock with "dummies" or tape machines and run 4000 foot reels of composite film, the ATLAS "1063" 35mm projector is a professional instrument for anyone working with film.

Versatile performance characteristics of the ATLAS "1063" make it a dependable work horse for dubbing music and sound effects, scoring music, scene matching, running dailies and many other functions in the production and viewing of films.

The "1063" is finding welcome homes in production studios, animation studios, advertising agencies, hotels, and trade shows.

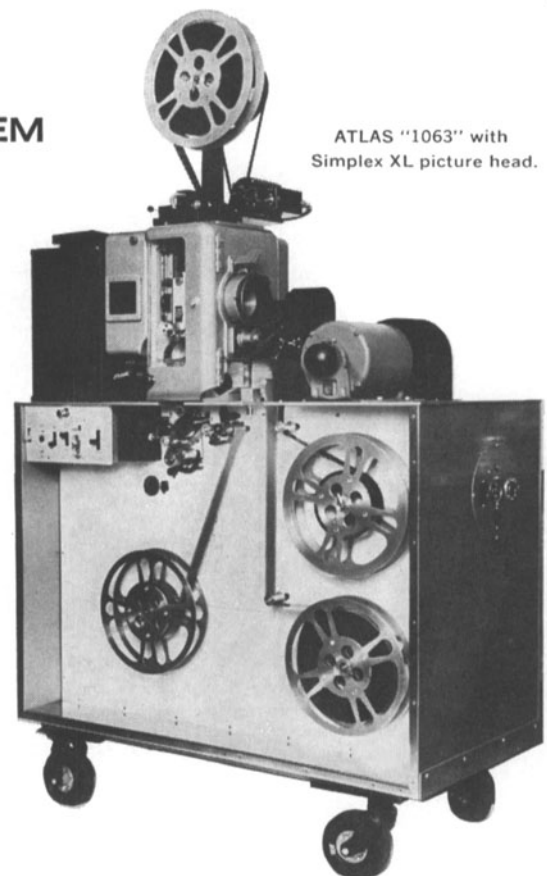
ATLAS' "1063" heavy duty air wheel casters make it instantly and easily movable and its compactness and relative light weight permit shipping to location by air.



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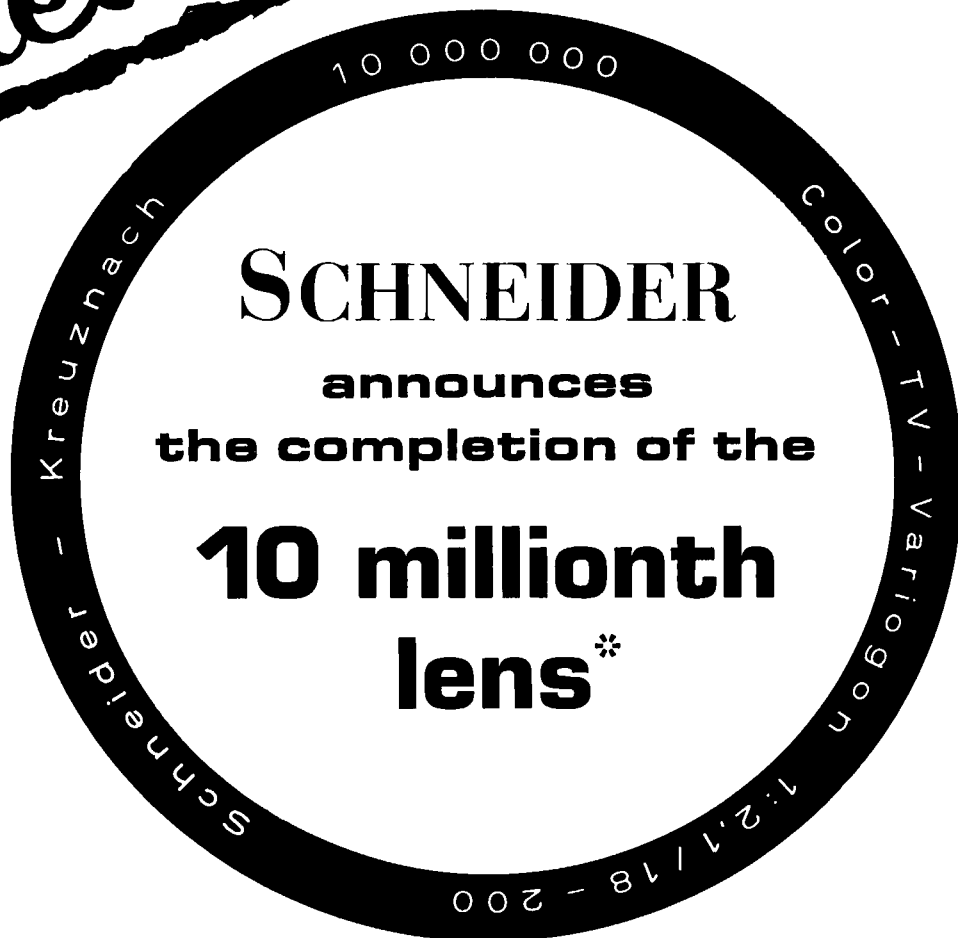
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Mounted slides cost less than 5 cents each. Kalvar film has sensitivity only to ultraviolet light, and requires only heat for development.

*Personnel:* George Kyotow, Mikio Akiyama, Fujio Mitarai, Tokiharu Kohari, Walter Ferber, Murray Goldkind.

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**Christie Electric Corp.** Booth 42  
3410 West 67th St., Los Angeles, Calif. 90043

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**Cinema Beaulieu** Booth 61  
921 Westwood Blvd., Los Angeles, Calif. 90024

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**Andre Debrie of New York** Booth 65  
432 West 45 St., New York, N. Y. 10036

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**DuKane Corp.** Booth 7  
St. Charles, Ill. 60174

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**Eclair Corp. of America** Booths 5, 6  
7262 Melrose Ave., Los Angeles, Calif. 90048

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**F & B/Ceco, Inc.** Booths 1, 2, 3, 4, 7  
315 West 43 St., New York, N. Y. 10036

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**Fiberbilt Div. of Ikelheimer-Ernst, Inc.** Booth 66  
601 West 26 St., New York, N. Y. 10001

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**Filmline Corp.** Booth 75  
43 Erna St., Milford, Conn. 06460

**Frigidheat Industries, Inc.** Booth 55  
P.O. Box 6037, Nashville, Tenn. 37212

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**General Camera Co.** Booth 87  
321 West 44 St., New York, N. Y. 10036

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**General Electric Co.** Booth 52  
Nela Park, Cleveland, Ohio 44112

*Exhibiting:* Lamps for TV and motion-picture studio applications, including new high-wattage Quartzline R types, both single and double-ended; planar-filament jacketed Quartzline R lamps for use in fresnel-lens spotlights; PAR and R lamps with tungsten-halogen sources; other new and significant studio lamps.

*Personnel:* C. S. Bramley, C. N. Clark, J. H. Powell.

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**Karl Heitz, Inc.** Booth 39  
979 Third Ave., New York, N. Y. 10022

*Exhibiting:* Kinoptik Apochromats, complete series of 16mm and 35mm movie and TV lenses from 1.9mm f/1.9 to 1000mm f/8 telephoto; also lenses for 70mm, 4x5" and 8x10"; Carena 8S8 sound projector and recorder for Super 8mm and standard 8mm; Carena super-8mm movie camera; Alpa 35mm SLR cameras, lenses, accessories; Robot 35mm motorized auto-sequence cameras with complete electro-automatic recording systems; Lindia 35mm slide-mounts with regular and newtonring-free glass; Omag pocket microscopes for quality testing; Astrolux high-intensity lights for motion picture and TV use; Fi-Cord pocket dictating machines and tape recorders.

*Personnel:* James Kunz, Shirley Marucci, Yvonne Brandes.

## ColorDyne

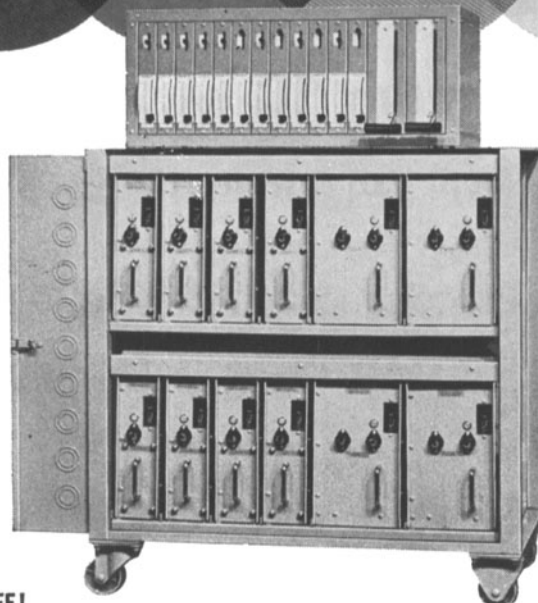
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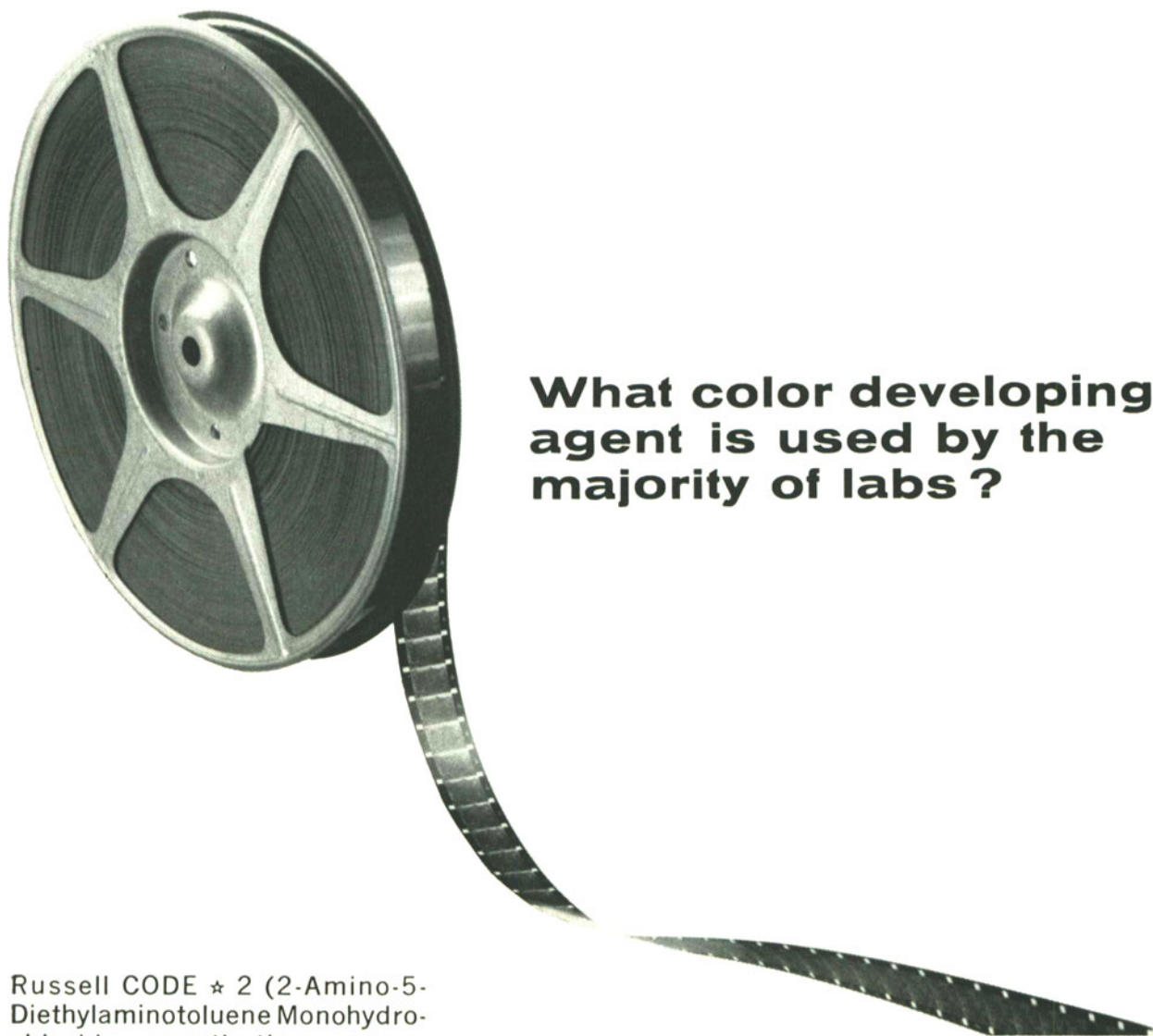


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**Hollywood Film Co.**  
956 Seward St., Hollywood, Calif. 90038

Booth 56, 57

**Magnasync/Moviola Corp.** Booths 48, 49, 50, 51  
5539 Riverton Ave., N. Hollywood, Calif. 91601

**Jayark Instruments Corp.**  
10 East 49 St., New York, N. Y. 10017

Booth 44

**Metro/Kalvar, Inc.**  
745 Post Road, Darien, Conn. 06820

Booth 60

**Kliegl Bros.**  
32-32 48th Ave., Long Island City, N. Y. 11101

Booth 41

*Exhibiting:* The Preset plate—an infinite scene Pre-setter with matrixes or plates which may be set up, and then stored for future or repeated use; also a complete line of Quartz-Iodine Studio Luminaires which operate at either 3000° Kelvin or 3200° Kelvin.

*Personnel:* Herbert R. More, Wheeler Baird, Robert Bullock, John Kliegl, Herbert Kliegl, Joel Rubin.

*Exhibiting:* The Metro/Kalva Model 135/16 Printer-Processor producing 16mm dailies and work prints, at speeds up to 100 fpm. In addition, Metro/Kalvar film products for 16mm and 35mm motion pictures, television, and education.

*Personnel:* N. R. Bacon, A. W. Hall, Jr., R. B. Lindemeyer.

**L-W Photo Inc.**  
15451 Cabrito Rd., Van Nuys, Calif. 91406

Booth 64

*Exhibiting:* 16mm Stop-Motion flickerless analytical projectors, sound and silent; TV versions for use in Multiplex systems or CCTV.

*Personnel:* Bob Lawrence, Geoff Williamson.

**3M Co.**  
2501 Hudson Rd., St. Paul, Minn. 55119

Booths 73, 74

**Lowel-Light Photo Engineering Co.**  
421 West 54 St., New York, N. Y. 10019

Booth 71

**Mole-Richardson Co.**  
937 N. Sycamore Ave., Hollywood, Calif. 90038

Booth 24

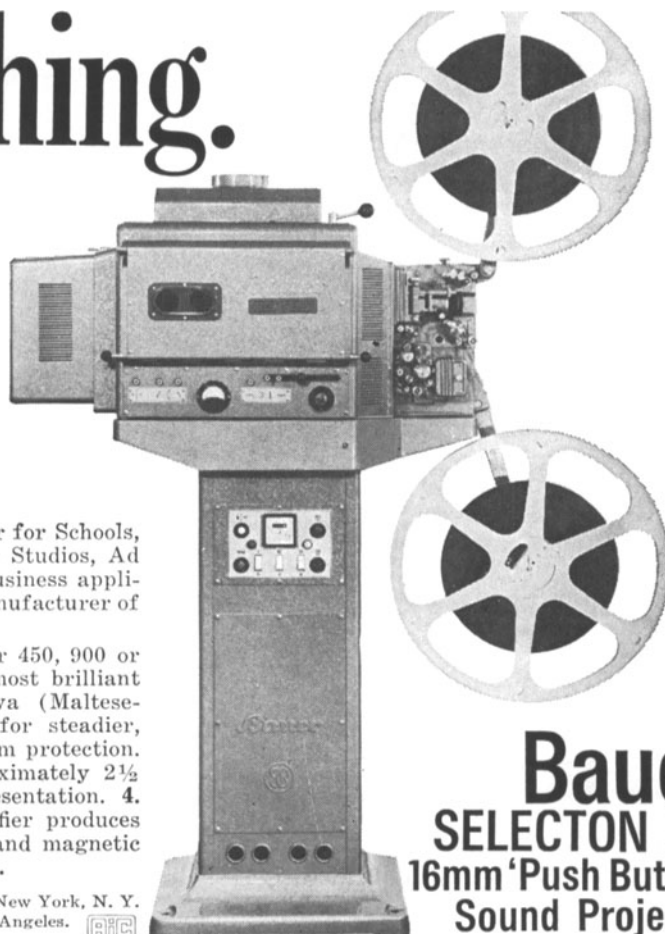
*Exhibiting:* The new focusable 2000 watt Molequartz mighty-mole; focusable 1000 watt Molequartz mickey-mole; Molepar for the 1000 watt quartz PAR lamps; new five-light Molefay for daylight booster; ten-light Colorama tow-circuit Quartz Cyc-Strip; six-light Molorama two-circuit Quartz Cyc-Strip; one-light Quartz Nooklite; three-light Quartz Nooklite; single Quartz Broad; double Quartz Broad; five-light Quartz Overhead Strip; 750 watt Baby Spot; 2000 watt Junior Spot; 5000 watt Senior Spot; 2000 watt Quartz Softlite; Frogmaker Moleffect.

*Personnel:* Howard R. Bell, M. A. Hankins.

**Macbeth Corp.**  
P. O. Box 950, Newburgh, N. Y. 12550


Booth 45

# Has Everything.

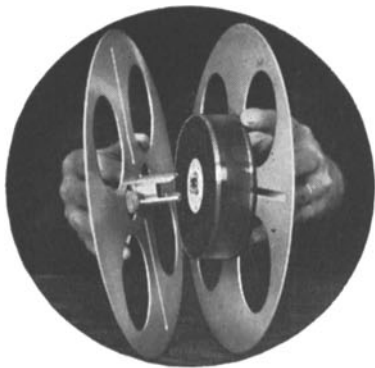


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Sound Projector

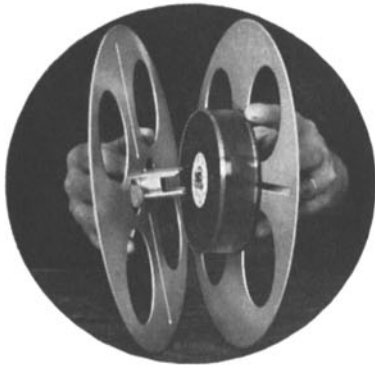


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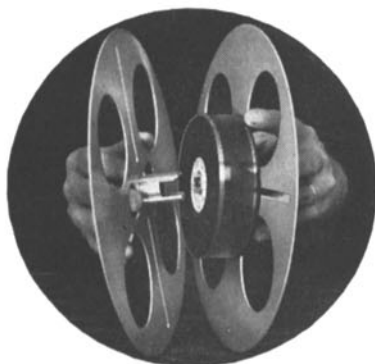


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there are split reels whose halves are

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**Motion Picture Enterprises, Inc.** Booth 87  
Tarrytown, N. Y. 10591

*Exhibiting:* Film Reels, Cans and Shipping Cases; Projection and Studio Lamps; Video Tape Reels; Professional Editing and Laboratory Equipment; Magnetic Tape; Film Storage Equipment; Marguet Splicers

*Personnel:* Herbert R. Pilzer, Sylvia Jarvis, Elaine George, John B. Low.

**Motion Picture Printing Equipment Co.** Booths 62, 63  
8107 N. Ridgeway Ave., Skokie, Ill. 60076.

**Nagra Magnetic Recorders, Inc.** Booth 47  
1161 N. Vine St., Hollywood, Calif. 90038

*Exhibiting:* Nagra Recorders and Accessories. The excellent quality and reliability of the Nagra synchronous  $\frac{1}{4}$ -in. tape recorder has made it the dominant motion-picture sound recorder the world over. There are now many new features and auxiliary equipments available which can furnish synchronous tape playback on location, eliminate clapsticks, eliminate wires between the camera and the recorder when the camera speed is clock-controlled, and oscilloscope-controlled foolproof transferring resolvers.

*Personnel:* Loren L. Ryder, Ronald R. Cogswell, Kenneth Upton.

**National Cine Equipment Co.** Booths 84, 85  
37 West 65 St., New York, N. Y. 10023

**Neumade Products Corp.** Booth 67  
250 W. 57 St., New York, N. Y. 10019

**Pako Corp.** Booth 99  
6300 Olson Memorial Highway, Minneapolis, Minn. 55440

**Photo-Kinetics, Inc.** Booth 23  
1624 Stilwell Ave., Bronx, N. Y. 10461

*Exhibiting:* NOVA 16mm 100-ft Camera; NOVA 16mm 400-ft Camera; NOVA 16mm 1200-ft Camera; NOVA environmental housing; full line of NOVA camera accessories.

*Personnel:* Aristide Ippolito, Louis J. Girola.

**Plastic Reel Corp. of America** Booths 30, 31  
612 Boulevard East, Weehawken, N. J. 07087

*Exhibiting:* Complete line of Plio-Magic film shipping cases, 8mm and 16mm plastic film reels and Reel-Paks, plastic tape reels, 16mm and 35mm microfilm reels; plastic film cores; rollers bearings and bushings for the film processing laboratories, 6 $\frac{1}{2}$ " and 8" video tape reels.

*Personnel:* Walter Elterman, Milt Blutter, Allen Braverman, Henry R. Herry Joe Aloia.

**Precision Laboratories Div.** Booth 68  
928-930 East 51 St., Brooklyn, N. Y. 11203

**Quick-Set, Inc.** Booths 69, 70  
8121 Central Park Ave., Skokie, Ill. 60076

*Exhibiting:* New models—Gibraltar Cradle Heads for movie and TV work, new vibration-free dollies with special jack screws for lifting wheels off the floor, Trolley Units, Wheeled Pedestals, and Crab Dollies. Standard line of Quick-Set Samson, Hercules, Gibraltar, a complete line of tripods panheads, dollies, etc., for photo, television,

Reviewed by the SMPTE Advisory Committee on Special Effects in Motion Pictures: Herbert Meyer, Chairman, Russell Brown, Thomas G. Fisher, Jack Froehlich, Max Hankins, Ub Iwerks, Ivan Martin, Bob Matthey, Frederic L. Ponedel, John Roche, J. Edward Stembridge, Edward Stones, Virgil Summers.

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# Special Effects in Motion Pictures

(Some Methods for Producing Mechanical Special Effects) **Frank P. Clark**

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Atmospheric Effects	Pyrotechnics
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*Personnel:* A. J. Briglia.

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**Radiant-Pathe** Booth 28  
8220 N. Austin Ave., Morton Grove, Ill. 60053

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**Ryder Magnetic Sales Corp.** Booth 46  
1161 N. Vine St., Hollywood, Calif. 90038

*Exhibiting:* The Erlson Recorder-Reproducer. Ryder Synchronizing Devices. The Erlson Recorder-Reproducer records on sprocketed heavy base  $\frac{1}{4}$ -in. magnetic film. A new type interlock generator is installed on the camera to control the speed of the recorder, providing frame-by-frame synchronization from the first frame of camera film to the end of each scene. Clapstick and inter-scene film markings are no longer required. In projection, an interlock generator synchronizes the recorder-reproducer with the projector so that the sound and picture of each camera roll will play in synchronization without interruption. The start, stop and reversal feature of the projector-reproducer combination provides an editorial synchronizer and a Moviola-type editor. Two, three or

more recorder-reproducers can be synchronized with a single projector for scoring and dubbing. Further, when synchronized with a magnetic striped sound film projector, the Erlson Recorder-Reproducer can be used for transferring to a magnetic striped picture for single-film release.

*Personnel:* Loren L. Ryder, Ronald R. Cogswell, Kenneth Upton.

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**S.O.S. Photo-Cine-Optics, Inc.** Booths 88, 89  
387 Park Ave. South, New York, N. Y. 10016

*Exhibiting:* The new S.O.S. Tel-Amatic 8mm/Super 8mm/16mm high speed magnetic film stripper; S.O.S. Tel-Amatic 16mm continuous printer; S.O.S. Projectola Editor with standard and displaced sound reproduction; S.O.S. Tel-Amatic 16/35/70mm Spray Wash Film Cleaner; S.O.S. Acmade 35mm Analysis Projector.

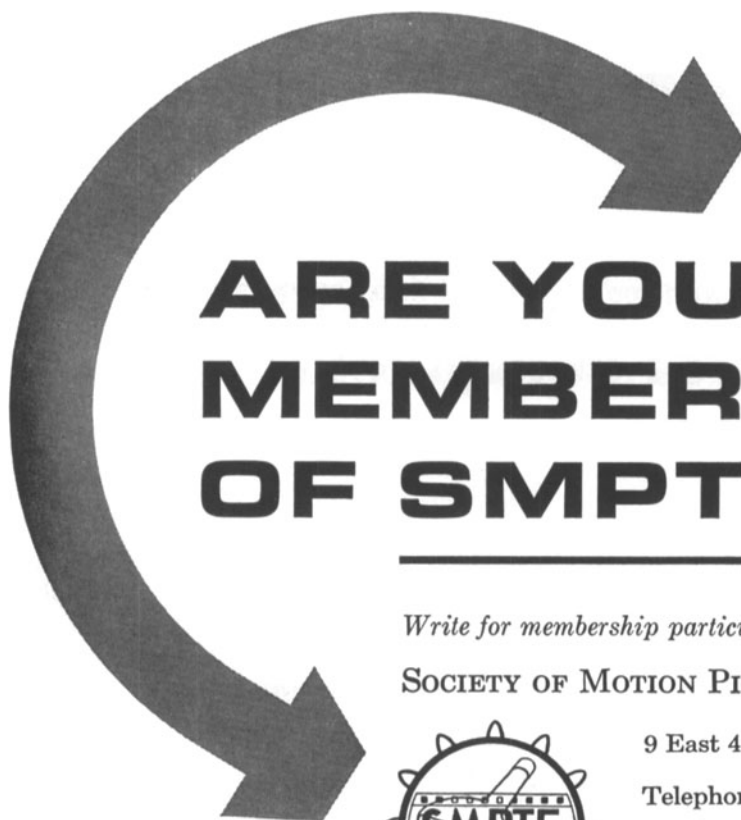
*Personnel:* Dom Capano, Wm. Allen, Irving Pivovar, Mike Sloun, Andy Beal.

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**Sony Corp. of America** Booth 43  
47-47 Van Dam St., Long Island City, N. Y. 11101

*Exhibiting:* The Sony Videocorders with unlimited applications for business, education or science for recording both sight and sound with instant replay. A tape made on one Sony Videocorder can be played back on any other Sony Videocorder allowing you to send your messages throughout the Country. Tapes can be erased and used over and over again. Sony offers a wide range of accessories to fit your particular needs which help to make your presentations more professional.

*Personnel:* Paul M. Godsick, Richard F. O'Brion, Shiro Koriyama, Fred Brockway, N. Watonabe.



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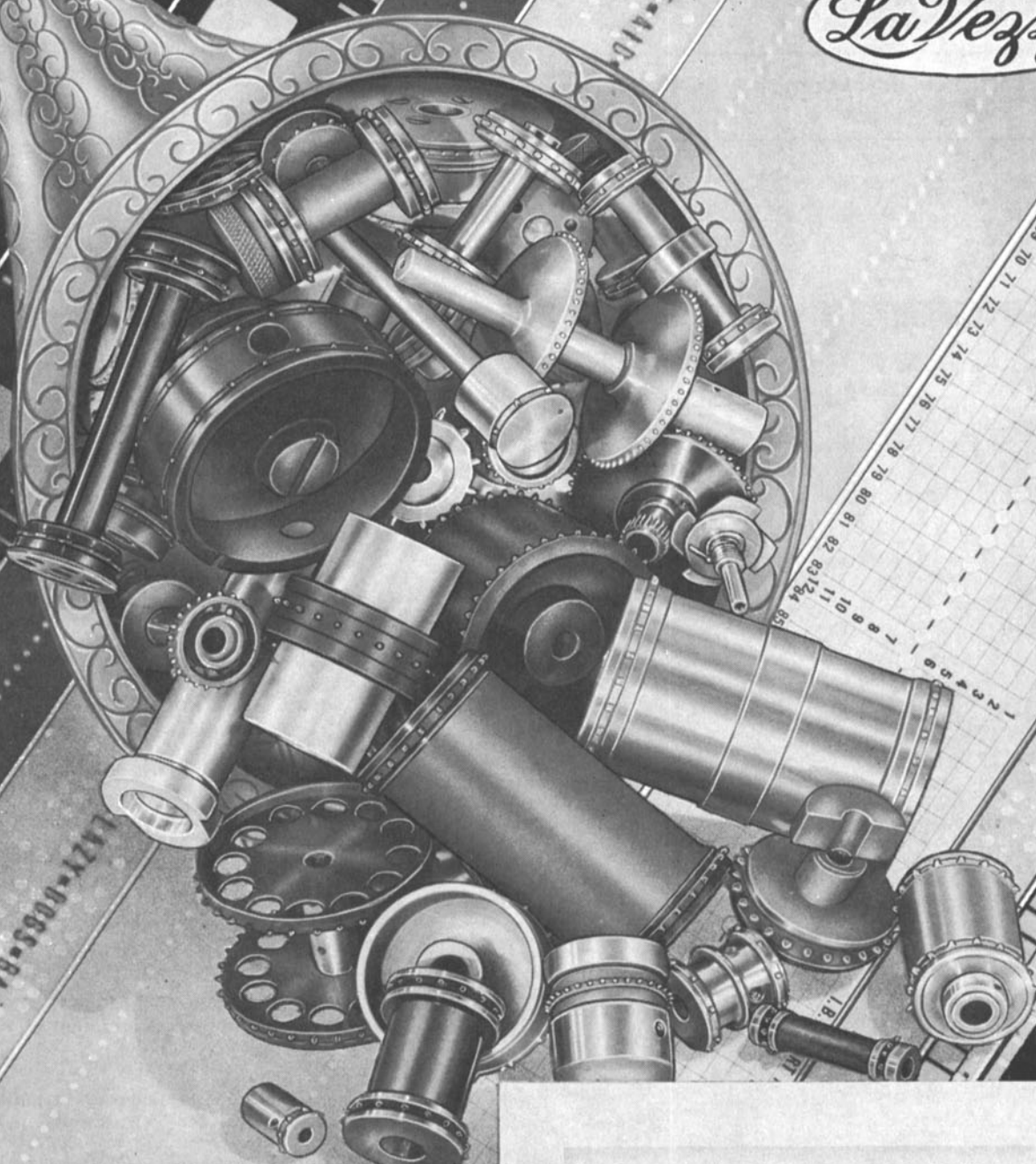
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## Abstracts of Papers From Other Journals

Abstracts of papers appearing in other journals chosen for their importance and possible value to researchers as well as those of timely interest are published in the *Journal* from time to time. Many translations of abstracts from foreign journals, chiefly those of the USSR, are made available to the *Journal* by the Research Laboratories of the Eastman Kodak Company. As a rule, translations are made of the abstracts and not of the papers. The journals in which the papers appear can be consulted at some libraries. Current issues of *Tekhnika Kino i Televidinya* can be consulted at, or borrowed from, the Society's Headquarters Office.

Those requiring definitive and thorough searches of current literature and patents are referred to *Abstracts of Photographic Science & Engineering Literature* (APSE), published monthly by the Engineering Index, Inc., 33 E. 47 St., New York, N.Y. 10017, with the editorial cooperation of the Society of Photographic Scientists & Engineers.

The subject areas are grouped below:

Acoustics  
Cinematography  
Data Recording, Processing

### ACOUSTICS

**Effective absorption of sound absorbing materials for acoustic design of studios,** Mrs. C. K. Kesavan, *J. Inst. Telecom. Eng.*, 12: 302-314, May 1966.

Effective absorption coefficient of absorbing materials has been measured at various frequencies from 125 to 4,000 Hz under different mounting conditions in chambers of different volumes. It has been found that in the frequency range where Sabine's coefficient for the material is maximum, the value of effective absorption coefficient is greater than the Sabine's coefficient. It varies appreciably with the mounting conditions. When the material is divided in patches and mounted on all the surfaces of the chamber, the smaller the patches the higher is the maximum value. The effect of total area of the material used and the volume of the room, on the effective values of absorption coefficient, is comparatively small. It has been shown that if values measured in diffused sound field under proper mounting conditions are used, the acoustic treatment of a studio can be planned fairly accurately. Also by judicious selection and installation of the

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