

Address and Recording. There is a heavy responsibility, in an area where things can go wrong. It is greatly to the credit of R. E. Buescher that, despite difficulties, projection and public address were well accomplished. This did not come about without the expenditure of considerable effort. At the end of the Convention, Mr. Buescher admitted that, in the words of the song, he was "A Weary, Weary Man," but he especially requested that recognition be given his helpers who turned deaf ears to the "quitting whistle" and managed to be around when needed. Among them were: Jim Cornell of General Electric; Jack Greenfield of Naval Photo Center; Don Johnston of Charter Oak Films; and Jack

Leahy and Alfred Ulmer, both of RCA. Equipment was contributed by Capitol Motion Picture Supply, Florman & Babb, Radio Corp. of America, S.O.S. Cinema Supply and United Camera Co.

The man in charge of Hotel Arrangements frequently finds himself bent and bowed under a mountain of details and beset with complaints from practically everybody. This assignment was effectively carried out by B. F. Perry.

W. H. Metzger accepted the double task of Registration Chairman and Auditor and wore both hats with ease and aplomb. Publicity was in the capable hands of Charles Austin. Membership Chairman J. T. Dougherty was assisted by Robert E.

Burns and they helped a large number of registrants to apply for membership. Arthur J. Miller was in charge of arrangements for the Get-Together Luncheon and Saul Jeffee was in charge of Banquet arrangements.

C. F. Lo Balbo was in charge of Transportation; and Administrative Assistants V. J. Duke, J. W. Kaylor, M. Peter Keane and J. L. Koushouris contributed ably to the success of the Convention.

Presentation of Awards

The Awards Session is always a special occasion and the organization of it this year benefited from the co-chairmanship of C. J. Hirsch and Ed Warnecke. The guest speaker was Edgar M. Cortright, Chief, Advanced Technology Program, National Aeronautics Space Administration. His illustrated lecture was very enthusiastically appreciated. It is being prepared for publication in January.

The awards citations and abstracts of the introductions are published below.

Society Awards

A special session for the presentation of awards was held on October 6 in the evening in the Skytop Room, with President Norwood L. Simmons presiding.



Norwood Simmons and John C. Stormont, recipient of Student Member Award.

A Student Member Award was made, the first by the Society which established the Award in 1957. It was made to John C. Stormont, at present in his Senior year at the University of Miami. The award was for his paper "Student-Built 16mm Continuous Positive Film Processor as Used in University Film Productions," presented before the Miami Student Chapter in April 1959 and at the Society's Miami Beach Convention in May. It is published in the October 1959 *Journal*, pp. 690-693.

Mr. Stormont is majoring in motion pictures in the Radio-Television and Film Department of the University of Miami, and is working toward a Bachelor's Degree in communications.

The Student Member Award was created to afford special recognition to those Society Members who are today preparing themselves for positions in the motion-picture and television field.



Watch that WOW!

with the Gaumont-Kalee

FLUTTER METER

Accurate measurement of sound equipment speed deviations

Brief Technical Data

Operating carrier frequency 3,000 c.p.s. \pm 5%
 Minimum input signal 50 mV R.M.S.
 Input Impedance 1 Megohm
 Input amplifier bandwidth—3dB at 2,500 & 3,500 c.p.s.
 Effective limiter range \pm 10dB
 Meter scaling—"Peak wow" 0 to \pm 1% (centre zero)
 "Wow" and "Flutter" 0 to 1% and 0 to 0.2% R.M.S.
 Crossover frequency 20 c.p.s.
 "Flutter" meter response—3dB at crossover
 —3dB at 200 c.p.s.
 "Wow" meter response—3dB at cross over
 —1 dB at 0.5 c.p.s.
 C.R.O. output frequency response level down to zero frequency—3dB at 200 c.p.s.
 3,000 c.p.s. oscillator output level 5V R.M.S. into 0.5 Megohm 100 mV R.M.S. into 500 ohms
 Accuracy: Meter presentations \pm 2% f.s.d.
 Power consumption 35 watts
 Operation 45 to 60 c.p.s.
 Dimensions Height 10 1/4" 26.04 cm.
 Width 12 1/4" 31.12 cm. Depth 1 3/4" 36.47 cm. Nett Weight 29 lb. 13.15 Kilos

GAUMONT-KALEE

FLUTTER METER

TYPE 1740



Write for full details to:

RANK PRECISION INDUSTRIES LTD

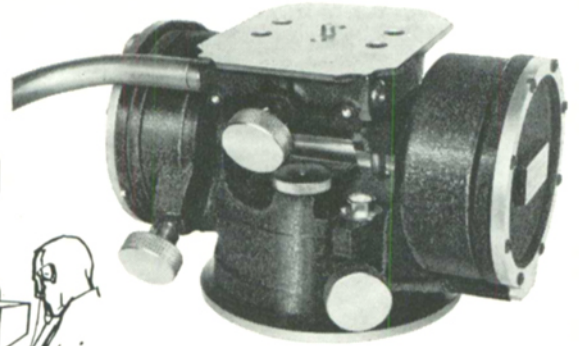
Important users of Gaumont-Kalee Flutter Meters include:

B.B.C. Television and Research Collaro.
 Commission Superieure Technique, Paris.
 Commonwealth of Australia, Melbourne.
 Compagnia Commerciale di Cinematografia, Milan.
 Dept. Posts and Telegraph, Dublin.
 Egyptian State Broadcasting. E.M.I. Research Laboratories. Garrard
 Engineering and Manufacturing Co. Ltd. Magnavox
 Corporation of U.S.A. Marconi Wireless. Ministry of Supply
 Ministry of Transport and Civil Aviation (U.K.). Mullard.
 N.V. Philips' Gloeilampenfabrieken, Holland and Denmark.
 N.Z. Broadcasting System. Post Office Research Department.
 R.C.A. Photophone Ltd. Southern Instruments Ltd.
 Truvax Ltd. Vortexion, Westrex Co. Ltd. Wright & Weaire Ltd.
 and users in India, Poland and Hong Kong.

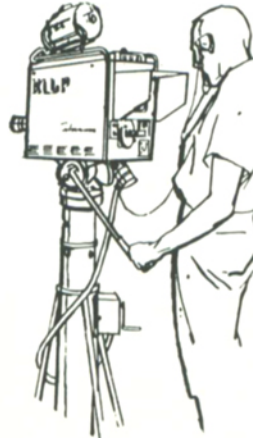
Serving the World's Finest Film Makers

O'CONNOR *Fluid* CAMERA HEADS MEET THE DEMAND FOR SMOOTH CONTINUOUS EASILY CONTROLLED ACTION

- Designed for use with 16 and 35mm cameras with a total weight up to 100 pounds.
- Heavy duty professional model.
- Weighs 20 pounds.
- Dimensions: 7" high, 7" deep, 11" wide.
- Tilts from minus 75° to plus 75°.
- Camera mounting screw 3/8"-16.
- Equipped with precision bull's eye level.
- Available with Mitchell Standard, Mitchell 16, Pro Jr., Auricon and O'Connor "Level-head" bases.
- Adaptable to handle-bar type operation.



Model 100 \$ **675**



In spite of its weight and rugged construction, the Model 100 provides "jerk-free finger-tip control under the most difficult filming conditions. This head can be furnished with three different spring combinations for counter-balancing the camera, and an extra handle provides for easy conversion to the handle-bar type of operation.

Model C \$275
For Cameras Up to 20 lbs.

Model 200-A \$1750
For Cameras Up to 200 lbs.

Write for free illustrated brochure

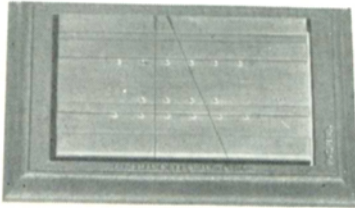
F & B Butt Splice & Film Repair Blocks

These excellent blocks make butt splicing and repairing damaged film strips simple as A-B-C. Easy to use, no complicated parts, and solidly constructed they are available in the following models:

Model B-16 for 16mm. film \$ 9.50

Model B-35 for 35 mm. film 12.50

Model BSB - Combination block for 16mm., 35mm. and 1/4" tape.. 24.50



Closing Out Above Model Formerly \$19.95 Now \$7.95

Magic "Mylar"

This amazing sprocketed splicing tape will repair torn and damaged films, replace torn perforations and allow you to butt-splice without losing a single frame. Comes in transparent for film, opaque for magnetic film. Splice will never come apart and perforations stay permanently repaired with Magic "Mylar."

Transparent — For Film

16mm.—Single Perf. \$5.00

16mm.—Double Perf. 5.00

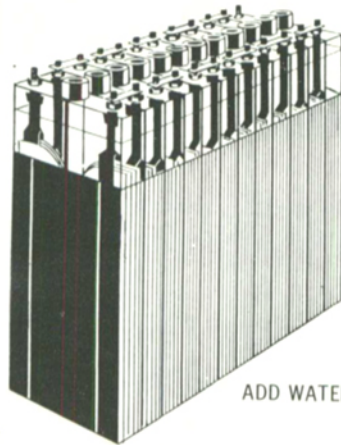
35mm. 9.00

Opaque — For Magnetic Film

16mm. \$ 6.60

35mm. 11.00

NEW F & B POWER-MITE NICKEL CADMIUM BATTERIES



LARGEST CAPACITY — 6-10 amp. hours.

SMALL-LIGHT—6 oz. per 1.25 v. cell. INDESTRUCTIBLE—Can be stored indefinitely in any condition.

SAFE — No Acid Spray or corrosion.

CHARGES EASILY —To 90% in 20 minutes, and 100% 30 minutes.

RETAINS 70% CHARGE — After 1 year's storage.

ADD WATER—Only a few drops ONCE A YEAR

PERMANENT ELECTROLYTE—30% solution of Potassium Hydroxide

Batteries are supplied in a metal case with a leather carrying strap and plug.

7 1/2 Volt—Power-Mite battery (6 cells)... \$ 85.00

15 Volt—Power-Mite battery (12 cells)... \$135.00

Attached voltmeter—optional..... \$ 20.00

Battery Charger..... \$ 29.50

Charging Rate Ammeter..... \$ 10.00

F & B's Power-Mite batteries can be supplied in any combination to power practically all cameras, recorders, etc. All the features listed are absolutely guaranteed by F & B. The Power-Mite nickel cadmium battery is unconditionally guaranteed for one full year.

SPECIAL BATTERIES CUSTOM-BUILT TO YOUR ORDER

NEW IMPROVED F & B CAMERA SLATE

Here at last is the new F & B Camera Slate designed to professional specifications. Look at some of the exclusive features: Permanently attached ring-mounted numbers. Spring-loaded hardwood clapstick. Sturdy masonite construction. Erasable hard slate finish. Large 12" x 16" size.

Reg. \$29.50 NOW . . . \$14.95



MILLER FLUID DRIVE HEAD

Model D (medium duty).....\$150.00

Swivel leveling joint..... 59.50

Pro Head (heavy duty)..... 299.50

Fits all Tripods. Write for complete information and literature NOW.

F & B proudly announces the exclusive distribution of the Miller Fluid Heads in the Eastern United States. The Miller Head is the world's finest precision built hydraulic drive pan head, and is designed for super-smooth panning and tilting. Can be used with any movie camera.



FLORMAN & BABB, INC.

68 West 45th Street, New York 36, New York • MURRAY HILL 2-2928



Standing between SMPTE President Norwood Simmons and Past-President Barton Kreuzer are seven recipients of the Society's Fellowship Award and the wife of one recipient, who accepted in behalf of her husband. They are: Paul W. Vittum, James W. Kaylor, Robert E. Birr, Walter E. Beyer, Mrs. Henry Ushijima, Philip E. Smith, Julian H. Webb, and Hans C. Wohlrab.

Fellows

The following members were raised to the rank of Fellow, Certificates were presented by Barton Kreuzer, Past-President of the Society:

Walter E. Beyer

Robert E. Birr

Harry P. Brueggemann
John M. Calhoun
Albert Gillet
Robert Gottschalk
C. Loren Graham
James W. Kaylor

G. Don Malkames
Leon C. Shelly
Philip E. Smith
Henry Ushijima
Paul Vittum
Julian H. Webb

Hans C. Wohlrab

Honorary Member

The Award of Honorary Membership was bestowed upon Harvey Fletcher. The citation, prepared by the Honorary Membership Committee under the Chairmanship of Charles R. Fordyce, states: The evolving technology of the motion picture and television industry continues to profit from the contributions of Harvey Fletcher. He is one of those rare individuals whose understanding ranges both broadly and deeply. As a pioneer in modern psychoacoustics, he bridged that forbidding chasm between physics and psychology leaving such permanent spans as the relation between frequency, intensity, and loudness (the Fletcher-Munson curves), the subjective loudness (sone) scale, and the concepts of masking. The auditory nervous system attracted his attention and led him to formulate in 1930 his "Space-Time Pattern Theory of Hearing." The notions expressed therein still form the backbone of research thinking in auditory theory. He made basic contributions toward integrating phonetic analysis, speech production, and the acoustical properties of speech.

As important as these milestones are in human communication, he was not, as modern intellectuals often are, content to leave them to be exploited by others. Despite his stature among basic scientists, he was not encumbered by a disdain for the practical. Thus he used his intuition to solve problems of the real world. He was one of the early physical scientists to influence the field of medical acoustics, publishing such works as "Physical Meas-

FILMLINE ANNOUNCES

WORLD'S FASTEST COMMERCIAL PROCESSOR FOR REVERSAL & NEGATIVE/POSITIVE 16MM FILM

Develops Reversal film at 125 fpm Develops Negative film at 55 fpm

- New impingement-type film Dryer
- Temperature control
- Rinse tank with spraybar after each chemical tank
- Eight film squeegees
- New low-pressure type air squeegee
- Overflows and bottom drains
- Tachometer
- Solution and drybox thermometers
- Oil-less, rotary air compressor with pressure gauge
- Recirculation pumps and spraybars
- Stainless steel, type 316, tanks
- Daylight operation
- 1,200' Film Magazine
- Variable Speeds/Development Times

Wherever quality results are demanded in the fastest processing time . . . or wherever illumination is inadequate for quality image density . . . this newest, fastest combination 16MM Reversal and Negative/Positive film processor . . . the Filmline Model RT-S will consistently provide the solutions to these processing problems.

For in-plant, high-speed photography . . . for television stations, racetracks, and motion-

picture film labs . . . the Filmline Model RT-S is the ideal machine . . . providing quality results at speeds to 125 ft./minute . . . and permitting increases of the ASA index 1000% on DuPont or Eastman Reversal Emulsions.

Fully equipped, ready for immediate operation the Model RT-S offers you high cost film processing features for the low price of only \$6,450.00.

Filmline

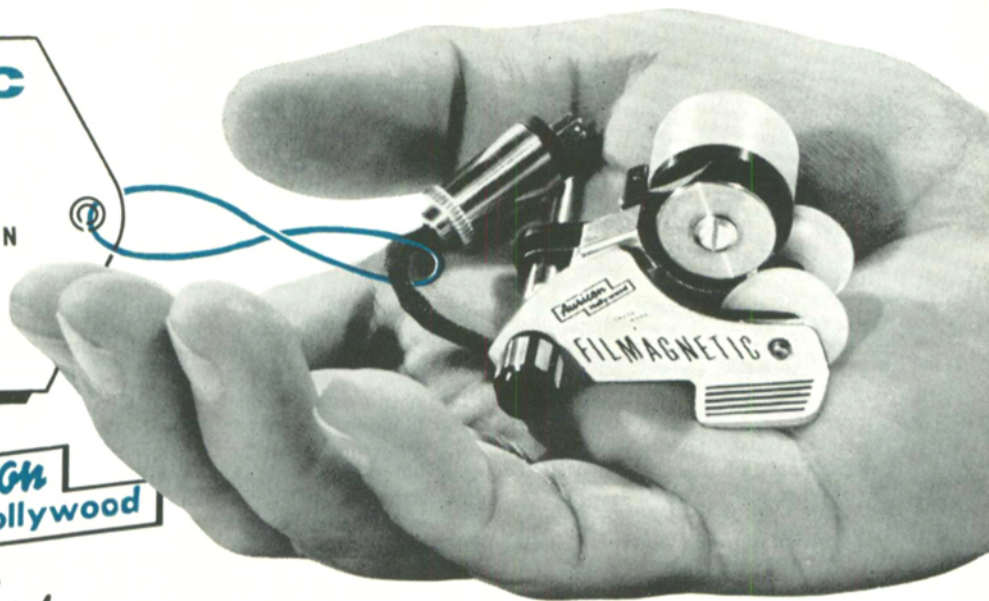
FILMLINE CORPORATION, DEPT. IS-59 MILFORD, CONN.

FILMAGNETIC
TRADE MARK

AN *Optional* FEATURE

AVAILABLE FOR FACTORY INSTALLATION
ON ALL NEW OR EXISTING AURICON
OPTICAL SOUND-ON-FILM CAMERAS

**Auricon
Hollywood**



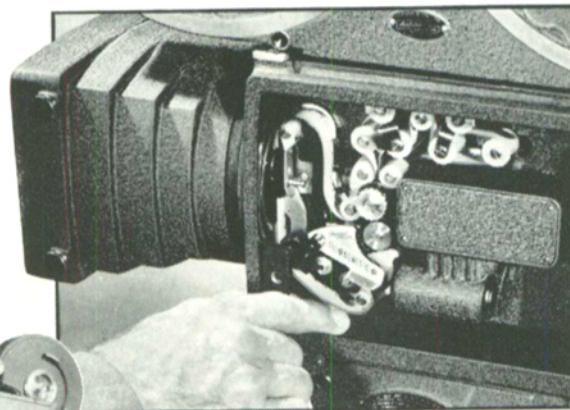
High Fidelity **AURICON** **FILMAGNETIC**®

TRADE MARK

... introduced in 1955, now enjoys world-wide acceptance, for lip-synchronized Talking Pictures and Music of Quality, on 16 mm black and white or color film pre-stripped for magnetic sound before it is exposed to light. "Filmagnetic" sound and optical picture are recorded Single-System on the same film at the same time! The "Filmagnetic" Unit, installed at the Factory in any Auricon Camera, can be temporarily removed without the use of tools, thus providing a choice of High-Fidelity Optical or Magnetic sound-tracks. Your pre-stripped film with magnetic sound lip-synchronized to your picture, passes through the normal picture-development and is played back on any 16 mm Magnetic Sound Projector, including the Ampro, B&H, RCA, and others.

"Filmagnetic" Outfit complete... \$870.00

PLEASE MAIL COUPON BELOW FOR FREE INFORMATION...



(FILMAGNETIC PATENTS PENDING)

↑ "Filmagnetic" Twin-Head Camera Recording Unit, with Record and Instant-Monitor Magnetic Heads, which automatically open for easy threading... complete with Model MA-10 Amplifier, \$870.00 installed on any new Auricon Camera at the Factory. Small extra installation charge on existing Auricon Cameras.

↓ "Filmagnetic" 3 Input Amplifier, Model MA-10, with High-Fidelity Microphone, complete Cables and Batteries, in a Cowhide-Leather Carrying Case. Super-portable, weighs only 7 pounds, carries easily with shoulder-strap during operation!



"FILMAGNETIC" SOUND FOR COLOR OR BLACK & WHITE



**Auricon
Hollywood**

16 MM SOUND-ON-FILM SINCE 1931

AURICON Division
BERNDT-BACH, INC.
6946 Romaine Street
Hollywood 38, California

- Please send me free information on "Filmagnetic" equipment for Auricon Cameras.
- Without obligation, please send me cost of installing "Filmagnetic" on my Auricon Model.....Camera.

GUARANTEE

All Auricon Equipment is sold with a 30 day money-back guarantee.

You must be satisfied!

Distributed by
Graybar
OFFICES IN PRINCIPAL CITIES

NAME..... TITLE.....
FIRM.....
STREET.....
CITY..... ZONE..... STATE.....

**THE
Auricon
Hollywood
LINE**



CINE-VOICE
from \$795.00



AURICON PRO-600
from \$1871.00



SUPER 1200
from \$5667.00

urement of Audition," "Measuring Children's Hearing," and "Can We Scientifically Advise Patients as to the Effectiveness of Hearing Aids?" He established the first effective methods for intelligibility testing of communication systems, and thought clearly about the complex problems of sound reproduction. In 1924, he published with W. H. Martin "High Quality Transmission and Reproduction of Speech and Music" outlining those factors which both to industry and the "hi-fi" fraternity have become standard terms of reference. He went further in his subsequent works described in "Hearing, the Determining Factor of High-Fidelity Transmission," and "Auditory Perspective." In the latter paper, he proposed a sound reproduction system to convey spatial as well as tonal information. Thus he sired the current development of stereophony. He arranged the first demonstration of stereophonic transmission of music between Philadelphia

and Washington in 1933, and in 1941 published in the *Journal of the Society of Motion Picture Engineers* an account of a "Stereophonic Sound Film System."

Harvey Fletcher was born in 1884 at Provo, Utah, attended Brigham Young University and received his PhD degree in Physics from the University of Chicago. From 1911-1916 he was Head of the Department of Physics at Brigham Young and in 1916 joined the Bell Telephone Laboratories. He retired from that organization in 1949 as Director of Physical Research, and joined Columbia University where he established a new Acoustics Laboratory. He is presently Director of Research and Dean at Brigham Young University. The honors bestowed on him by his admirers are legion. Among them are five honorary doctorate degrees, the Louis Edward Levy Gold Medal of the Franklin Institute, the Progress Medal of the SMPTE, and the Gold Medal of the Acoustical Society of

America. He is a member of the National Research Council and the National Academy of Sciences. He served as Chief of the Acoustics Section of NDRC during World War II, as President of the American Society for the Hard of Hearing, President of the Acoustical Society of America, Vice-President of the American Association for the Advancement of Science, and as President of the American Physical Society.

Journal Award

The Journal Award for 1959 was presented to Derwyn M. Severy for his paper on "Photographic Instrumentation for Collision Injury Research." Three other papers were chosen for Honorable Mention. The papers and authors are:

D. W. Fassett, F. J. Kolb and E. M. Weigel, "Practical Film Cleaning for Safety and Effectiveness"

Otto H. Schade, Sr., "On the Quality of Color Television Images and Perception of Color Detail"

Donald A. Delwiche, James D. Clifford and William R. Weller, "Printing Motion-Picture Films Immersed in a Liquid—Part II: Evaluation of Liquids"

In the citation accompanying the Journal Award, read by James L. Wassell, Chairman of the Journal Award Committee, the author's many activities and accomplishments were noted. The following is quoted from the citation:

"In this paper, which appeared in the February issue of the *Journal*, Mr. Severy describes in detail the photographic instrumentation required during research studies conducted at the University of California. The Award Committee was impressed by the clarity with which this subject was presented. Mr. Severy's paper provides guide posts for the complete photographic coverage of similar future research projects.

Mr. Severy has concentrated primarily on the engineering field in his work at the Institute of Transportation and Traffic Engineering, University of California. He has, at the same time, achieved an impressive military background as a commanding officer in several naval aviation posts.

Herbert T. Kalmus Gold Medal

Herman H. Duerr was awarded the Herbert T. Kalmus Gold Medal for his contributions to the development of color films and color film processes. The citation, prepared by the Herbert T. Kalmus Gold Medal Award Committee was read by the Chairman, W. E. Gephart.

Dr. Herman H. Duerr is Technical Director of the Ansco Corp., where he is in charge of research and development. He came to the United States in 1931 from Germany where he had received a doctor's degree in chemistry and had been working for the I. G. Farben Industrie—in the field of color film and dye chemistry research before being transferred to the U.S.A. He has since been associated with the Ansco Corp. in Binghamton, N.Y.

While associated with or heading the research work at Ansco in the manufacture of color emulsions for photographic prod-



Scratches on Film Irritate Audiences

Scratches are havens for dirt, and refract light improperly. On the screen, they mar the picture and may distract attention. If on the sound track, they produce offensive crackling.

Fortunately scratches can almost always be removed — without loss of light, density, color quality, or sharpness. *Write for brochure*

PEERLESS
FILM PROCESSING CORPORATION
 165 WEST 46th STREET, NEW YORK 36, NEW YORK
 959 SEWARD STREET, HOLLYWOOD 38, CALIF.

another Presto precision recording tool
to make your job easier.



**new PRESTO recorder/reproducer
converts instantly from 1/2" to 1/4" tape!**




The new Presto 850 is the only professional tape recorder that converts in seconds from 1/2" to 1/4" tape, and vice versa—and it's from Presto, makers of more professional sound-recording equipment than any other manufacturer in the world. The new, flexible 850 ends the need to keep expensive equipment sitting around idle. Conversion from 1/2" to 1/4" tape head assemblies requires only a screwdriver and a few seconds.

Based on the successful 800, the use-proved 850 provides such exclusive features as: an edit switch for one-hand runoff during editing and assembly of master tapes, eliminating messy tape overflow • a molded epoxy-resin drum brake system with double shoes to end brake-maintenance headaches • four-position plug-in head assemblies instantly interchangeable without realignment • three-track stereo master control (optional) for special recording effects • three Presto A908 amplifiers stacked on an easy-to-work-at console, in portable cases or for rack.

The 850 delivers a high production editing rate

at significantly lower operating costs. Separate switches provide correct tension even when reel sizes are mixed. Pop-up playback head shield for right-hand head disappears in STOP and FAST, completely exposing all heads for easy sweep loading and fast, sure editing. Safe tape handling at top speed is assured. Interlocks prevent accidental use of RECORD circuit.

To get complete specifications on the new 850, which is available in console, portable and rack-mounting models, mail this coupon today.

 BOGEN-PRESTO, Dept. MP120, Paramus, N. J.
A Division of The Siegler Corporation.

Name _____

Address _____

City _____ Zone _____ State _____

PRESTO

ucts, Dr. Duerr has been largely responsible for much of the color film development program at Ansco. He did much of the early work at Ansco on dye couplers and dyes as color sensitizing agents. He has done considerable work and published various papers in the field of color sensitometry. He has published a number of papers in the *Journal* and elsewhere on Ansco color films and particularly on Super-Anscochrome reversal films. He has served the Society as the dynamic head of the Color Committee during a most important era.

Dr. Duerr has been awarded many patents in the color film field and has generally contributed a great deal to the development of color films and color film processes.

David Sarnoff Gold Medal

W. R. G. Baker was awarded the David Sarnoff Gold Medal for his outstanding work as Chairman of the National Television System Committee. Dr. Baker was unable to be present so the Award was accepted on his behalf by Alfred N. Goldsmith. The citation, prepared by the David Sarnoff Award Committee, was read by the Chairman, Frank N. Gillette.

Dr. Walter R. G. Baker received the degree of Bachelor of Science in Engineering in 1916, that of Master of Science in Electrical Engineering in 1918, both from Union College. He has received honorary doctorate degrees from Union College in 1935, Syracuse University in 1951 and Brooklyn Polytechnic Institute in 1955.

In 1917 he joined General Electric as

design engineer in charge of transmitters. In 1930 he went to Radio Corp. of America to head the radio activities of the new organization. There he progressed to Vice-President in charge of engineering, then both engineering and manufacturing, and finally Vice-President and General Manager. In 1935 he returned to GE, was made a Vice-President in 1941 with responsibility for all of GE's electronic activity, became a consultant to the executive office in 1956. He retired from GE November 30, 1957, and immediately became President of Syracuse University Research Corporation.

Dr. Baker has been actively associated with literally dozens of technical societies and industry associations and has held many of the highest offices in such groups. To mention only a few, he was variously director, treasurer and in 1947 President of the Institute of Radio Engineers. He was President of the Electronic Industries Association in 1957 and has been Director of the EIA Engineering Department for some 25 years.

We honor Dr. Baker at this time for his outstanding work as Chairman of the National Television System Committee which functioned on two separate occasions when standards were urgently needed to promote the growth of television in the United States.

In these efforts the best engineering talent in the industry was formed into one gigantic organization devoted solely to the task of developing the standards required, in the first instance for monochrome television and in the second for color television.

Each effort followed a period of intensive but uncoordinated development on the part of many highly competitive companies. While all workers could agree on some things there were many points upon which contradictory views were firmly held and vigorously advanced.

Considered against this background, the NTSC achievement in arriving at standards supported by the entire industry (doing so for black-and-white TV in an astounding six-month period) is all the more impressive. Dr. Baker contributed personally to this success

(1) by helping to develop the idea of an NTSC:

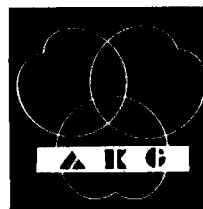
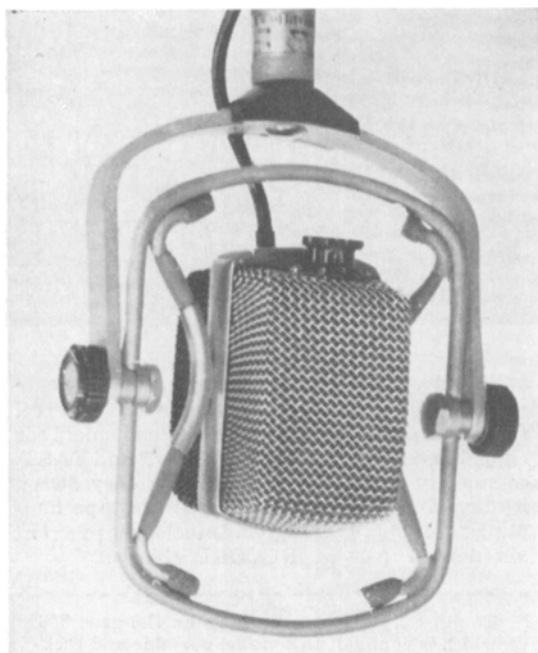
(2) by setting up the committee organization and securing the active participation of dozens of companies and hundreds of individuals, and

(3) by guiding and directing the work in a manner which promoted accomplishment and brought about compromise at many points of very serious conflict.

Although others, many others, contributed to NTSC, Dr. Baker's share was a vital one for which he richly deserves the measure of recognition afforded by the David Sarnoff Gold Medal Award.

Samuel L. Warner Memorial Award

The Samuel L. Warner Memorial Gold Medal for 1959 was presented to Dr. John G. Frayne for his contribution in engineering a 70mm stereo six-track magnetic film system and test films. The citation, pre-



AKG Model D-25 B shock-mounted microphone is widely used on sound stages and in T.V.

D-25 B is a dynamic cardioid system, available in 200 Ω and produces 0.22 mV/ μ bar. Response = 30 - 15000 cycles \pm 2.5 dB. Low frequency cut-off switching at will.

D-25 B is a rugged, high performance unit proved by experience. Write now for more data to your area representative.

In Dallas: Audio Acoustics, 130 Fairview Drive, Arlington, Texas

In Los Angeles: Ralph Auf der Heide, P. O. Box 201, Altadena, Calif.

In New York: Harvey Radio Co., 103 W. 43rd St., New York 36, N. Y.

Harry Reizes (Rep.), 1473 Sylvia Lane, Eastmeadow, L. I., N. Y.

electronic applications, inc., 194 Richmond Hill Ave., Stamford, Conn.

in the east... it's
MOVIELAB

for

color*



and

black

&
white

MOVIELAB

MOVIELAB FILM LABORATORIES
MOVIELAB BUILDING, 619 W. 54th ST.
NEW YORK 19, N. Y. JUDSON 6-0360

* developing color negatives • additive color printing • reduction printing including A & B • color slide film processing • blowups • internegatives • Kodachrome scene-to-scene color balanced printing • Ektachrome developing and printing • registration printing • plus complete black and white facilities including cutting rooms, storage rooms and the finest screening facilities in the east.

pared by the Samuel L. Warner Award Committee, was read by the Chairman, John Aalberg.

A special committee for the Samuel L. Warner Award is responsible for reviewing the inventions or methods most likely to have a beneficial effect on the recording and reproduction of sound and picture and selecting the engineer who has made the outstanding contribution.

Dr. Frayne has been working continuously in sound motion-picture engineering since 1928. His contributions span the technology of sound motion pictures from light valves and noise reduction to 70mm magnetic film recording and reproducing systems. The committee was unanimous in its opinion that Dr. Frayne's contribution in

engineering a 70mm stereo six-track magnetic film system and test films therefore met the rigid requirements for this award.

In addition to these contributions, Dr. Frayne has influenced sound recording by sponsoring various educational programs, as co-author of a text book on sound and as a friend to those of us who work in his field.

Progress Medal

The Progress Award for 1959 was presented to Harold E. Edgerton. At the time of the Convention Dr. Edgerton was in Puerto Rico on a deep sea expedition. The Progress Medal was accepted on his behalf by Charles Wyckoff. The following citation, prepared by the Progress Medal

Award Committee was read by the Chairman, Dr. Deane R. White.

Harold Eugene Edgerton received his undergraduate training at the University of Nebraska in 1925 and Master and Doctor of Science Degrees at the Massachusetts Institute of Technology where he has been a Professor of Electrical Engineering since 1926.

Professor Edgerton has pioneered with spectacular success in the fields of high-speed photography and stroboscopy. His researches in these fields have been reported in our Society's publications frequently since 1931. He has contributed to the development of short-duration high-intensity light sources, to the design of equipment to be used with them and finally to many important, as well as popular, applications thereof. We have all seen examples such as stop-motion photography of high-speed machinery or even a golf swing, beautiful photographs in the National Geographic Magazine taken several miles below the surface of the seas and awesome pictures taken during various phases of atomic explosions. A visit to Professor Edgerton's laboratory is a delightful experience in informality and a stimulating introduction to his many and varied interests.

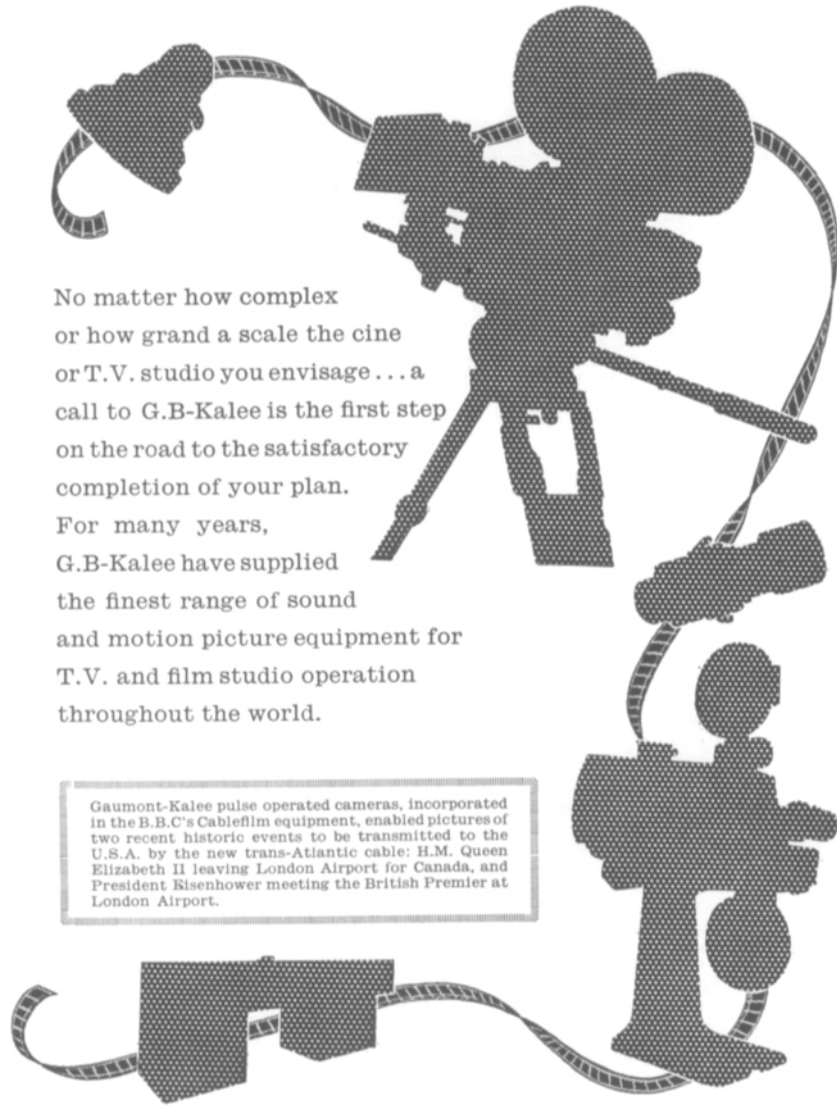
Professor Edgerton has performed in many capacities in the service of our Government, as well as in the interests of various technical societies. He has been very active in the high-speed photographic activities of our Society and has served as its representative at both the 3rd and 4th International Congresses on High-Speed Photography. Also he finds time to serve as Chairman of the Board of the successful firm of Edgerton, Germeshausen and Grier, Inc., which he helped to found. His talents have been widely recognized by the following awards: the Progress Medal of the Royal Photographic Society of London, the Modern Pioneer Award of the National Association of Manufacturers, the Potts Medal of the Franklin Institute, the National Geographic Society's Burr Prize, the Sprague Memorial Award from the National Press Photographer's Association and designation as the New England Engineer for 1958 by the Engineering Society of New England.

He is a Fellow of our Society, of the American Institute of Electrical Engineers and the Photographic Society of America.

For Film or T.V. ask **G.B-KALEE**

No matter how complex or how grand a scale the cine or T.V. studio you envisage . . . a call to G.B-Kalee is the first step on the road to the satisfactory completion of your plan. For many years, G.B-Kalee have supplied the finest range of sound and motion picture equipment for T.V. and film studio operation throughout the world.

Gaumont-Kalee pulse operated cameras, incorporated in the B.B.C.'s Cablefilm equipment, enabled pictures of two recent historic events to be transmitted to the U.S.A. by the new trans-Atlantic cable: H.M. Queen Elizabeth II leaving London Airport for Canada, and President Eisenhower meeting the British Premier at London Airport.



Rosters of Student Chapters

Officers and faculty advisors of the four SMPTE Student Chapters are:

City College of New York: Faculty Advisor, *Martin Rich*; Chairman, *Peter Hess*; Secretary-Treasurer, *Morton Fuchs*.

Rochester Institute of Technology: Faculty Advisor, *Hollis Todd*; Chairman, *Leonard Solomon*; Secretary-Treasurer, *Richard Walker*.

University of Miami: Faculty Advisor, *Sydney Head*; Chairman, *Peter Hallinan*; Secretary-Treasurer, *David O. Sperber*.

University of Southern Calif.: Faculty Advisor, *Herbert E. Farmer*; Chairman, *Laurence Souville*; Secretary-Treasurer, *Don Perin*.



RANK PRECISION INDUSTRIES LIMITED

G.B-KALEE DIVISION - STUDIO, WOODGER ROAD, LONDON W.12

Telephone: SHEpherd's Bush 2050

Cables: RANKPRESTU LONDON