

Obituaries



Ellis W. D'Arcy
A Governor, 1952-53

Ellis W. D'Arcy died May 15, 1969, in the Gary (Indiana) Methodist Hospital at the age of 65. His home was in Ogden Dunes, IN. During his long and active career in the field of motion-picture engineering and electronics he was known for his creative ability and his brilliant approach to the numerous projects in which he became involved.

He was born in Saulte Sainte Marie, MI, and was educated at the Lewis Institute of Technology. In 1929 he became a staff writer for *Radio Engineering and Projection Engineering* and in 1932 he joined Essanay Film Corp. as Assistant Chief Engineer. In 1936 he became founder and President of D'Arcy Recording Laboratories and in 1940 he joined DeVry Corp.

Early inventions and developments included photoelectric density meters, sensitometric control devices, sound film amplifiers, the Lindberg Sound Film Recording System and electronic control devices.

Mr. D'Arcy joined the Society in 1945. His sponsor was W. C. DeVry, who said of him at that time, "He [Mr. D'Arcy] has displayed a fine creative ability as well as a dominant ability in securing the cooperation of his associates in projects under his jurisdiction, resulting in the development and production of projects which have received the highest commendation of the [Armed] Services."

Mr. D'Arcy was made a Fellow of the Society in 1951 and he became a Life Fellow in March 1969. He was active in Society affairs and contributed greatly to the progress of the Society. His services to the Society included a term as Governor (1952-53) and long years of service on the Sound Committee and the 8mm and 16mm Motion Picture Committee. He was a member of both committees at the time of his death. He also served as chairman of various subcommittees and ad hoc committees including the Magnetic Sound Subcommittee and the Ad Hoc Committee on 16mm Magnetic Sound Reproduction and the Ad Hoc Committee on 8mm Magnetic Sound Standards.

His activities included authorship of numerous technical papers. Those appearing in the Journal include "Progress Report on 8mm Magnetic Sound Standards and Methods of Test Film Production" (February 1962); "Facts and Factors for Small Format Films" (September 1963); "Film-Exchange Foreign-Language Conversion

Peter P. Cardasis, Vice-President, Production; Norman E. Rinehart, Vice-President, Production; Mr. Rinehart, Vice-President, Production; Mr. Connelly, Vice-President Corporate Planning and Marketing; Mr. Eisenberg, Vice-President, Finance and Treasurer; Theodore R. Schreier, Secretary; and Oscar B. Sachs, Assistant Secretary.

David A. Dever has been appointed Eastern Marketing Manager for Berkey-Color-Tran, Inc., a division of Berkey Photo, Inc. He will service ColorTran franchised dealers in eight eastern states and Puerto Rico. His headquarters will be at 25-20 Brooklyn-Queens Expressway, West, Woodside, NY 11377. Prior to his new appointment, Mr. Dever was Southern Marketing Manager for Berkey-ColorTran. He was responsible for the lighting layout design of a number of television stations in the southeast.

Edwin S. Raymond has been appointed Assistant Director, Engineering Services, of CBS Television Stations Div. He joined CBS Television Network in 1963. He had previously been associated with RCA as a design engineer.

William M. Webster has been elected Vice-President, RCA Laboratories, Princeton, NJ. He has been with RCA since 1946 and has made a number of significant contributions to tube and transistor development. As Vice-President he will be responsible for research activities at RCA Laboratories.

Donald S. McCoy has been named Director of the Consumer Electronics Research Laboratory at RCA Laboratories, Princeton, NJ. Dr. McCoy has been with RCA Laboratories since 1957 where he served as Head of Electroacoustics Research and as Head of Signal Processing Research before being appointed to his present position. He has done research on a variety of projects including theoretical analysis of frequency response and noise limitations in magnetic tape recording, signal-to-noise considerations in stereophonic disc recording and colorimetry of color TV systems.

Gerald Stone has been appointed Director of Research of LogEtronics Inc., Springfield, VA. He was previously Director of Engineering of Opticolor Corp., Plainview, NY, where he developed electro-optical systems. In his new post he will direct applied research in exploring advanced product concepts in electrooptical technologies and will evaluate potential new products prior to programed development.

Walter J. Washick has been elected a Vice-President of Houston Fearless Corp., of Los Angeles, and Kenneth C. Cleveland, Jr., has been elected a Vice-President and Director. Mr. Washick is General Manager of the NRI Division in Berkeley, CA. This division is engaged in the development and manufacture of instruments for photographic analysis. Mr. Cleveland will continue as Secretary-Treasurer of the company.

Jack Whalen has been named Western Sales Manager for Modern Talking Picture Service, Inc., 1212 Sixth Ave., New York, NY 10036, distributor of sponsored motion-pictures. Mr. Whalen's headquarters will be at 1145 McCadden Place, Los Angeles. Prior to his present appointment he was Manager of Modern's Los Angeles film library. He replaces Robert A. Kelley who was transferred to Washington. The company operates 32 film libraries and distributes public relations films and other sponsored films for more than 750 clients.

Charles T. Gindhart, Jr., President of the Society of Cinema Arts and Sciences, has been appointed Regional Sales Representative for WRS Motion Picture Laboratory, 210 Semple St., Pittsburgh, Pa 15213, for an area including New York, New Jersey, Delaware, Washington, DC, the New England States, and the Philadelphia area. WRS supplies 16mm and 35mm color and black-and-white processing and printing. The laboratory provides producers' services, equipment sales and rentals, optical and special effects work and all sound studio services.

Thomas Garrett has joined Ranger Farrell and Associates, Irvington-on-Hudson, NY 10533, a firm of consultants specializing in the field of acoustics, lighting, audio-visual and theater. Mr. Garrett will provide consulting services in stage and house lighting and controls for theaters and auditoriums and theater rigging and seating design.

Col. Peter Boyko (Rtd.) has been elected Executive Vice-President of Capital Film Laboratories, Inc., 470 E St., SW, Washington, DC 20024. In his new post he will be in charge of laboratories in Washington, DC, Detroit and Miami as well as Super 8 City, Inc., in Alexandria, VA.

Harold C. Blakeslee has been appointed to the newly created post of National Sales Manager, Industrial and Educational Products, for International Video Corp., 675 Almanor Ave., Sunnyvale, CA 94086. In his new post he will have overall sales responsibility for IVC closed-circuit color video-tape recorders and color television camera.

Salvatore L. Raia has been appointed Director of Advertising and Public Relations for Visual Electronics Corp., 356 W. 40 St., New York, NY 10018, it was announced by James B. Tharpe, President. Mr. Raia was formerly employed by CBS Laboratories as Advertising and Sales Promotion Manager.

Charles L. Martin has been appointed Sales Engineer for Visual Electronics Corp. He will be responsible for sales of broadcast products in Nevada, Hawaii and Northern California. Mr. Martin's previous experience includes commercial and educational broadcast and CATV.



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Equipment" (June 1954); "Standardization Needs for 16mm Magnetic Sound" (April 1953, Pt. II); (with Anton C. Seda) "Application of the Xenon Arc to the Armed Forces 16mm Projector (September 1954); and (with Gerhart Lessman) "Objective Evaluation of Projection Screens" (December 1953). He was Program Topic Chairman for Bilingual Films and International Television at the 82d Conference in Philadelphia, and the papers presented at that session were subsequently published as a group in the March 1958 issue of the *Journal* with an introduction by Mr. D'Arce.

Organizations other than the Society of which he was a member include the U.S. Standards Association and the Institute of Electrical and Electronics Engineers.

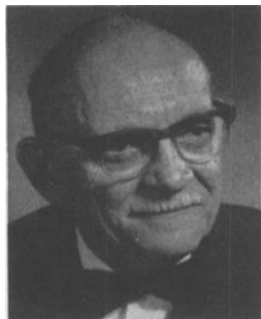
Whenever the death of a member and part of the Society is to be recorded, the sad duty is often shared by a friend or associate. When the Editor received the sad news that "D'Arce" was no longer with us, help in preparing the obituary was sought from Henry Fisher who, as former Executive Vice-President of the DeVry Corporation was closely associated with him. Mr. Fisher's contribution appears below:

D'Arce, as he was known to his friends, came to the DeVry Corporation in 1940, and one of his first tasks, early in 1941, was that of being the engineer in charge of qualification tests of DeVry 35mm sound

projection equipment at the Materials Testing Laboratories in Brooklyn, NY. During World War II he became Chief Engineer and was responsible for the development of 16mm and 35mm sound motion-picture equipment, aerial gunnery training devices, aerial navigational training systems, psychological warfare devices, cryptographic cameras (70mm) and other equipment related to the war effort. He was responsible for the development of the 16mm sound projector (JAN) used by the Armed Services. He also was a pioneer in the development and use of xenon lamps in conjunction with 16mm sound projectors.

In 1953 he was made Vice-President of Engineering of the DeVry Corporation and in 1954 he became President of Ellis W. D'Arce Associates, Ogdon Dunes, IN, a firm of consulting engineers. As head of that firm he was active in the development of xenon lamp applications and sound recording devices in the motion-picture field. He was granted numerous patents in these and related fields.

He was not only a brilliant engineer, but he was also a talented writer. He possessed a very keen sense of humor. He was well known throughout the industry and he was well liked by all with whom he came in contact. The motion-picture industry has lost one of its shining lights.—*Henry M. Fisher*



Howard M. Tremaine

Howard M. Tremaine, a well-known authority on audio engineering, died May 20, 1969, at the age of 68. He is the author of five books on audio engineering, probably the best known of them being *The Audio Cyclopedia*. This book was reviewed in the *Journal* (May 1960) with the comment, "Its extraordinarily wide gamut of subject matter . . . represents an unusual accomplishment for a single author and testifies to his broad range of interests." At the time of his death Mr. Tremaine was engaged in correcting the galleys of the second edition of *Audio Cyclopedia* which is scheduled for publication later this year.

Mr. Tremaine was born into a theatrical family and as a child he traveled with his parents who were billed as *The Musical Tremaines*. His birthplace was Minneapolis, MN. Almost by accident, when he was a child he acquired a book by Giglielmo Marconi which described the invention of wireless telegraphy. This book became one of the major influences of his life and his interests in the theater and science, acquired at an early age, set the course of his career.

While still very young he became a wireless operator. Following World War I he

moved to Chicago. He was employed by the Chicago Health Department where he organized an all-saxophone band. The band played on the roof of the Health Department building where the music was picked up by the telephone lines and relayed to the local radio station for broadcast.

In 1923 he moved to Hollywood where he started in the motion-picture industry with the Jesse Lasky Famous Players and remained in the industry as a recording and development engineer. He was associated with Victor Talking Machine Co. when the firm developed the first electrical reproducing machine. In collaboration with J. N. A. Hawkins, he developed the recording and reproducing equipment for Walt Disney's *Fantasia*.

During World War II he served in the U.S. Navy with the Rank of Lt. Cmdr. as an electronics officer. In 1946 he founded and directed a school of Audio Engineering. In 1952 he became Chief of the Sound Division of Lookout Mountain Air Force Station in Hollywood and in 1962 he moved to West Vancouver, B.C., Canada, where he supervised the construction of Panorama Film Studios and later founded H. M. Tremaine Enterprises Ltd., a firm of consultants.

His education was acquired by taking special extension courses at the University of California, Los Angeles and the Academy of Motion Picture Arts and Sciences. He also studied at H.M. Royal Signal School in Portsmouth, England. In 1949 the University of Hollywood conferred upon him the honorary degree of Doctor of Science.

His inventions include an intermodulation analyzer and noise-measuring equipment for Dynamotors. His writings (other than books) include a number of technical papers, "A Multilingual Audio-Visual

System" (with James W. Green and Glenn R. Osborn) appeared in the March 1960 issue of the *Journal*.

Mr. Tremaine became a member of the Society in 1947. He was also a member of the Audio Engineering Society and of IATSE Local 891 in Vancouver.



H. Beresford Smith

H. Beresford Smith, consulting engineer, author and composer, died April 18, 1969, at the age of 73. He served in the two World Wars; in World War I as a pilot (he fought in France) and in World War II as Commanding Officer of the 69th Air Service Group. His military assignments included service as Intelligence Officer and he acted as Liaison Officer for the Russian Military Mission and as Foreign Air Force Specialist. He retired from the Air Force with the rank of Colonel.

He had been, at one time, President of the Orders and Medals Society of America and shortly before he died he had completed a book, intended for collectors, on the History of Medals, Orders and Military Decorations. The list of medals, decorations and citations accorded him during his military career is impressive. A few of the many honors accorded him include Victory Medals of World Wars I and II and American, European, African and Middle Eastern Campaign Medals. Countries which bestowed medals and other military honors upon him include France, Greece, Russia, Montenegro and Czechoslovakia. His decorations included the Cross of Lorraine of France and the Order of St. Stephen of Greece. He was a Knight of Justice of the Sovereign Order of St. John of Jerusalem and Commander of the Order of Knights Templar.

His interest in music led him to compose *The Pilots Hymn and Goodnight, God Bless, Goodbye*

His interest in motion-picture engineering took concrete form in the 1920s when he worked with Gaumont in the Gaumont laboratories and he also worked "with and on" projectors, as he said in a letter (dated January 1952) to a member of the Society. About 1926 his interest turned to the editorial and production fields in motion pictures and he engaged in titling and other activities related to his interests. (In the pre-sound days titling required considerable creativity.) About 1930 he began working with 16mm and he performed experimental work in 35mm in his own laboratory.

He joined the Society in 1940 and throughout the years he maintained a continuing interest in Society affairs. Organizations other than the Society of which he

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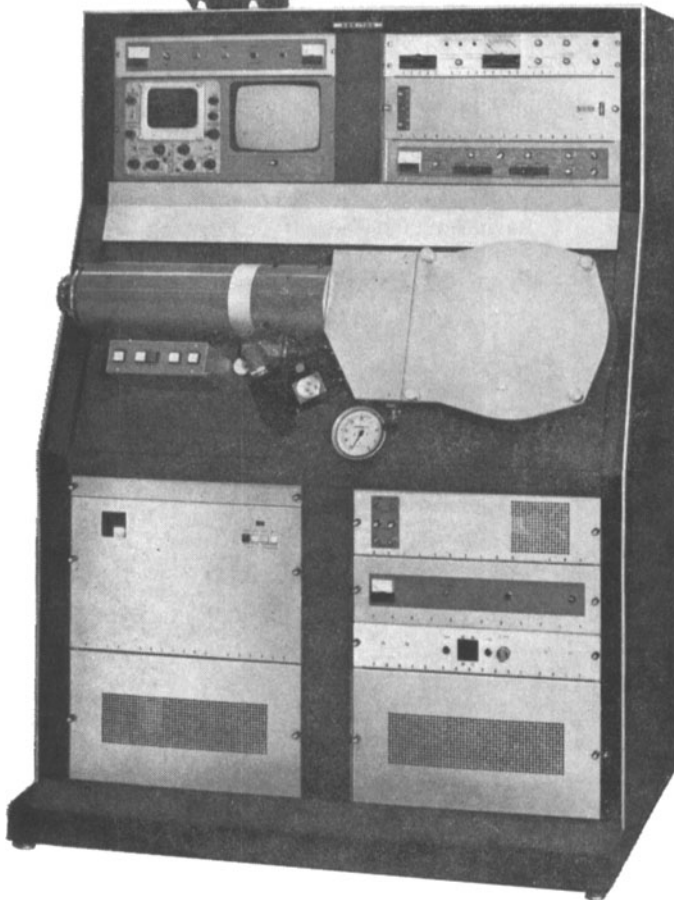
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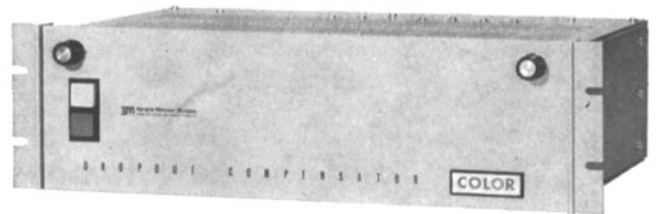
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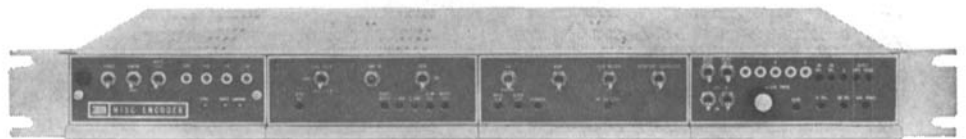
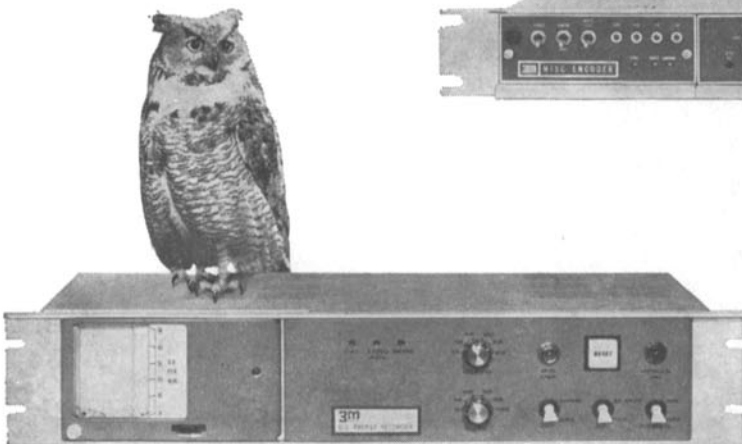
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Toshihiko Inoue

Toshihiko Inoue, Vice-President of Aoi Studio Company in Tokyo, Japan, and a Professor at Nihon University, died December 10, 1968. He was born April 28, 1918, in Tokyo and he attended Shinjuku High School. Following graduation from high school he attended Nihon University where he studied motion-picture engineering and related subjects. He was especially interested in sound recording and he became known as one of the leaders of film recording activity in Japan. In 1938, while he was still in the University, he joined Riken Engineering Co. In 1952 he became a Professor at Nihon University and in 1957 he joined Aoi Studio as Engineering Manager while continuing as a professor in the University. He was also a member of the Board of the Nihon Motion Picture Engineering Association. In 1967 he became Chairman of the Board of Directors of the Old Boys Association of the Faculty of Arts of Nihon University. Among other honors he was recipient of awards for sound recording at the 20th Japanese Film Festival. He was also recognized for his work on sound recording for the 18th Olympic Games held in Japan in 1964.

He had been a member of the Society since 1964.

Edit. Note: Information about Mr. Inoue's life and career was supplied by Mr. Jin Kikuchi, President of Aoi Studio Co., and a close friend of Mr. Inoue since 1942 when they were both called to serve in the Japanese Navy.



Eric Williams

Eric Williams died January 23, 1969, in Sydney, Australia, at the age of 63. He was born in Berkshire, England, and received a technical education at London Polytechnic

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Kodak

the integral film gate — or the split-film gate magazine system?

There are two magazine systems used among makers of 16mm self-blimped professional motion picture cameras. One design splits the film gate, mounting the gate itself on the camera and the rear pressure pad on the magazine. The other design, favored by Arriflex, has the complete film gate assembly in the camera head. Which is better for you?

The very purpose of a professional motion picture camera is to be as rugged and reliable as possible and to produce footage which is as sharp and steady as human ingenuity can make them. The exact travel of the film in the image plane of the lens and its precise positioning in relation to the optical axis, frame after frame, at 24 frames per second, is one of the most critical and also important features of a professional camera. The necessary mechanical precision can only be obtained economically in an integral film gate, built into the camera head, where all required tolerances can be controlled and maintained, and where it remains protected and secure.

When part of the gate is in the magazine, there are too many shortcomings. Here are some, not necessarily in the order of their importance:

COST: It makes the magazine much more expensive (at least twice as much) for not only must half the gate be paid for with each magazine, but also the complex part which locks against the camera head. Consider that the average professional camera outfit requires a number of magazines and you realize that we are talking of thousands of dollars.

MECHANICAL TOLERANCES: It is very difficult and costly to maintain mechanical tolerances between magazine and camera head. If the magazine fits too tight, film may jam. If it is too loose, film may breathe and lose focus. This is further complicated when filming in extreme hot or cold temperatures. It may even be necessary to have individual magazines fitted to individual camera heads.

WEAR AND TEAR: Having half the gate exposed on the outside of the magazine makes it susceptible to knocks and blows which may cause expensive repairs. It can get wet in the rain, it attracts dust and dirt, and is difficult to keep clean.

NO SINGLE SYSTEM SOUND: When you buy an expensive professional camera, you always want to have the possibility of adding this important feature. It is easy with a camera like the Arriflex BL. Practically impossible with split gate magazine cameras, unless you want to build it into each magazine. WOW!

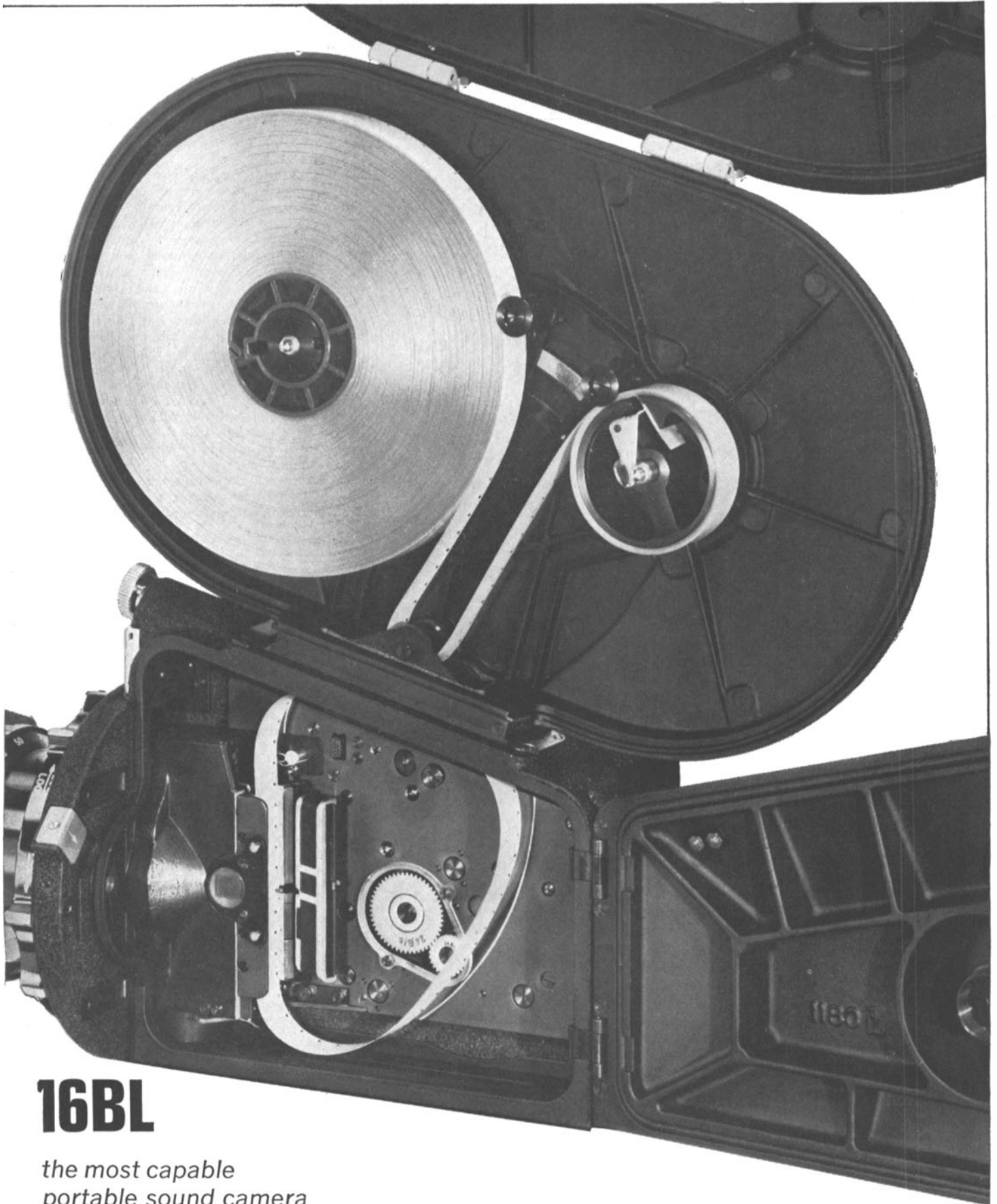
IS IT REALLY FAST?: If everything happens to work just right, it may take a few seconds less to change a split gate magazine than an Arriflex magazine. But if the loop does not form properly or the perforations do not engage properly—as happens often—and the magazine must be taken off again and again, it takes much, much longer. It is also much more difficult and it takes longer to load split gate magazines in the darkroom or changing bag.

LAST BUT NOT LEAST: In all Arriflex 16 cameras, the film gate is a permanent and fixed precision part of the mechanism. It can be opened for cleaning or checking, without removing magazine. The transport claw enters the sprocket from the emulsion side and the registration pin enters from the base side. Positive control at all times. It is simple and fast to load. It is reassuring to be able to watch the first foot or so of film going through the loops and the film gate with the camera door open.

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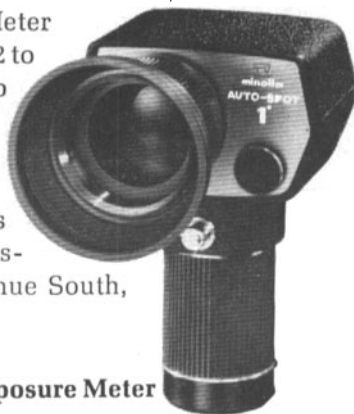
It'll give you quick, precise 1° readings that speak your language. Just aim, squeeze the button and watch the scales turn. With-

out taking your eye off your subject or switching from low to high brightness ranges, you're getting a perfect 1° reading. And the IRE scale makes it easy to keep the right balance between skin tones and the brightest area of your subject. This makes color work a snap.

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Minolta Auto-Spot 1° TV Exposure Meter

Institute. He joined British Broadcasting Company (before it became a corporation) at its original studio premises in Savoy Hill. In 1933, he joined Ealing Studios in London as Sound Engineer. He was advanced to Technical Supervisor and General Manager and from 1933 to 1947 he was responsible for recording Ealing productions.

During World War II he was attached to R.A.F.V.R. as instructor in radio and communications for Air Training Corps cadets. He was awarded an MBE for his wartime services. He was widely traveled and motion-picture assignments took him to many parts of the world, including Arabia, Samoa, Hong Kong and Canada. He took a keen interest in the development of the Australian film industry and he was General Manager of Ealing Studios, Page-wood, Sydney, from 1947 to 1953. In 1953 he returned to England where he became Associate Producer for Ealing Films. In 1960 he joined ABC Television in Teddington as Head of the Films Department. In 1968 he returned to Australia to produce a TV series in association with Supreme Sound Studios.

He joined the Society in 1936 and he was also a long-time member of the British Kinematography Sound and Television Society.



Clearinghouse Publications

The publications listed below are available from Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151. Unless otherwise noted each report is \$3.00 (microfilm 65 cents).

For the convenience of the reader, titles and brief descriptions of the publications have been grouped under seven categories.

Acoustics

AD-674 753, *Acoustical Holography of Non-existent Wavefronts Detected at a Single Point in Space*, A. F. Metherell and S. Spinak, 17 pp. Describes a configuration based on an extension of the reciprocity theorem and realized by physically interchanging the source and detector. The hologram-recording operation is executed by scanning the source throughout a plane and sampling the resultant wavefront as a function of time with a stationary detector.

AD-674 762, *The Relative Importance of Phase and Amplitude in Acoustical Holography*, A. F. Metherell, 44 pp. Determines qualitatively the effect of recording a hologram by detecting only the phase of the object wave rather than both the phase and the amplitude, as in conventional holography.

PB-182 292, *Ultrasonic Imaging Using a Scanned Hologram Method*, R. B. Smith, 33 pp. Records holograms of ultrasonic sound fields in water on film using a scanning technique. Reconstruction of the hologram in a