

ternational Conference Facilities." Mr. Guarco's subject was "Award Winning USIA Pictures."

The meeting was opened with the showing of a motion picture of President Kennedy's press conference of the previous evening, which was held in the room in which the Section meeting was taking place.

In his talk, Mr. Shinkwin pointed out the unusual features of the State Department Auditorium, among which are its use as part of the Department's International Conference facilities. Not only can the auditorium accommodate press conferences, but it also has an unusual complement of audio and video facilities including those for simultaneous translation, for motion-picture and still photography and still picture projection. These facilities were demonstrated and Mr. Shinkwin took the group on a personally conducted tour of the projection room and the main international conference room.

The projection room is equipped with remote lighting control, arc slide projector, Eastman Model 25 16mm Arc Projector, and a new version of the DeVry 35mm Projector manufactured by Paromel Electronics, Inc. These feature preview attachments and will run either forward or reverse.

Mr. Shinkwin won many friends because of his thoughtfulness and interest in responding to questions and demonstrating facilities. A special word of thanks is due G. H. Sorenson for his assistance with this part of the meeting.

The second part of the meeting began at 8:00 p.m. when the Section joined

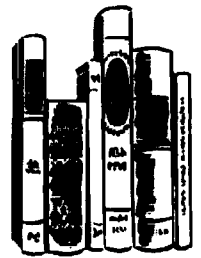
members of the Washington Film Council for a showing of six award-winning USIA motion pictures. These films were shown on the same equipment that had just been explained and demonstrated by Mr. Shinkwin. Turner B. Shelton, Director of the Motion Picture Service of the USIA, extended the invitation to the Washington Section to attend this showing.

Jack Evans, Special Assistant to Mr. Shelton, introduced Chairman Youngs, the Washington Section Board of Managers and the officers of the Washington Film Council, following the showing. He then presented Mr. Guarco, who gave the background and explained the role of these films in interpreting the United States abroad.

Both domestic and foreign productions were shown. The scope of subject matter and motion-picture techniques presented, gave the audience a clearer picture of the efforts of the Information Service. The significance of these productions was enhanced in the context of the fine new auditorium and its international atmosphere.

The opportunity to have these new facilities demonstrated to the Section may be attributed to the foresight of Chairman William E. Youngs, who is a member of the Board of Directors of the Washington Film Council. Mr. Young serves in an advisory capacity at the Auditorium.

An informal poll of the Section membership after the meeting indicated that it was very well received.—David E. Strom, *Secretary-Treasurer*, 1002 By-Pass Rd., Williamsburg, Va.



## books reviewed

### Kurzzeitphotographie: Bericht über den IV. Internationalen Kongress für Kurzzeitphotographie und Hochfrequenzkinematographie (Proceedings of the Fourth International Congress on High-Speed Photography)

Edited by H. Schardin and O. Helwich. Published (1959) by Verlag Dr. Othmar Helwich, Hoffmannstrasse 59, Darmstadt, Germany. 7 by 10 in., 340 pp., 600 illus. DM 92. 7/10/-. \$22.00.

The Proceedings of the Fourth International Congress on High-Speed Photography have been published through the diligent editorship of Dr. Othmar Helwich of Darmstadt. The 340-page volume gives a high-quality presentation of the 65 papers of this symposium which was held at Cologne during the period 22-27 September, 1958.

Method of presentation is by the language of the original paper, with summaries in two other languages. Value to the English-speaking reader without personal proficiency or access to translation services for German and French may be measured by the fact that 23 of the papers are presented in English. Thus, when the factor of excellent reproductions of very fine examples of high-speed photographic recording in the foreign-language papers is added to the considerable numbers of papers appearing in English, it becomes evident that this volume will become a most useful addition to the library of high-speed photographers throughout the United States.


Theme of the volume is set by the initial invited paper by Professor Hubert Schardin describing the major early contributions to this field by Carl Cranz, a ballistician whose use of high-speed photography in the study of ballistics has left its mark on virtually every other field now employing this medium. It was especially appropriate that this review and tribute to Cranz should have been presented by his colleague, Schardin, whose own work has further developed and refined the efforts of Cranz.

Especially interesting work accompanied by outstanding illustrations included K. R. Coleman, whose presentation included a photograph of the shock heating of deuterium made by J. K. Wright; W. H. Allan and D. B. Clark on a pinhole camera for aeroballistic techniques; H. F. Edgerton on flashes of about 10 msec duration (work that was further reported on at the Fifth Congress and published in the March 1961 issue of the *SMPTE Journal*); D. P. C.

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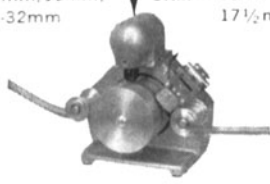
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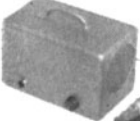


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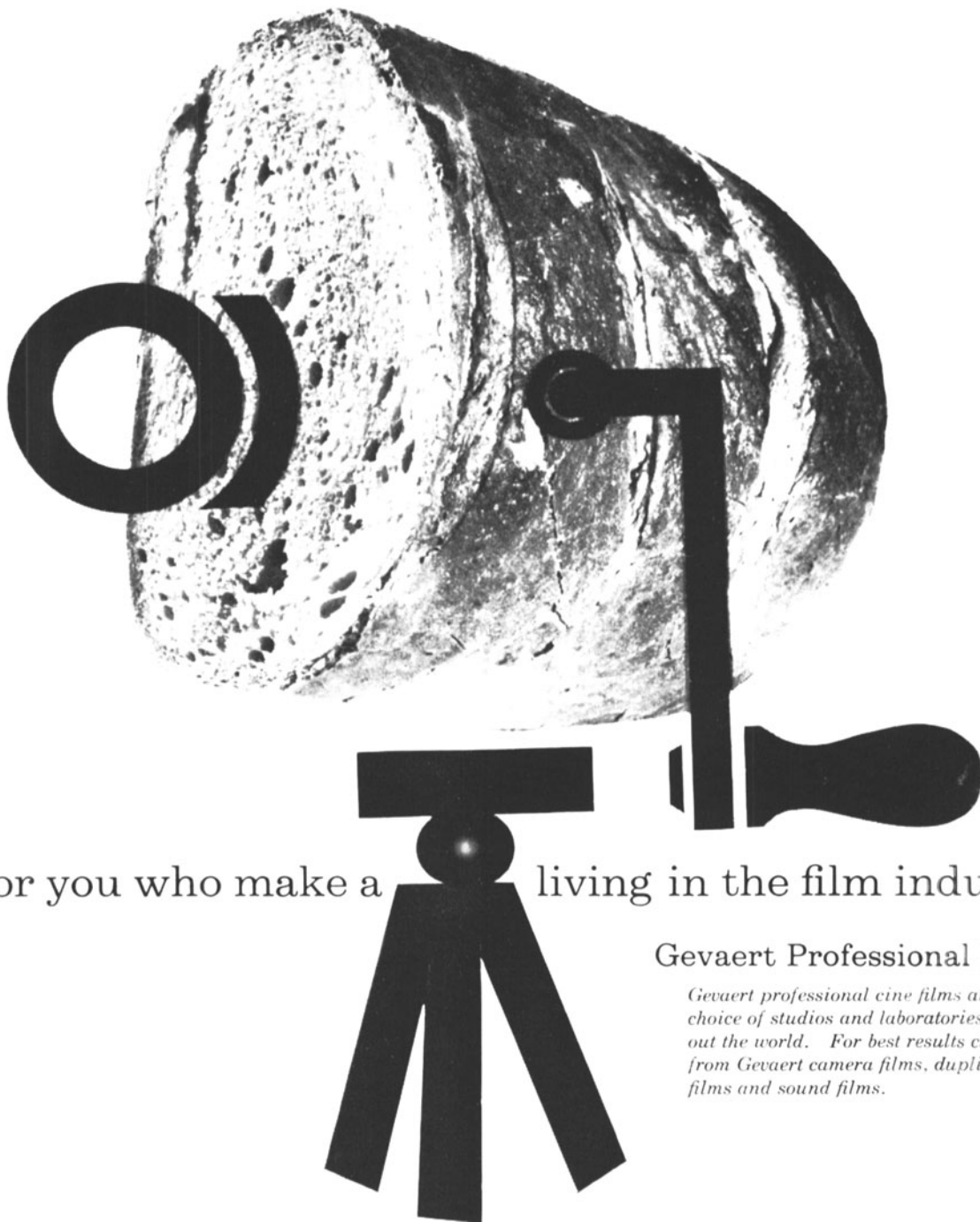


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Thackeray with a thorough review of developments in the production and assessment of high-intensity discharges, with emphasis upon work accomplished during the two-year period between the Third and Fourth Congresses; G. G. Treshchev on studies of the surface boiling of water; and J. Vogel describing the photography of air flows by means of multiple spark paths, a most interesting and graphic technique.

While the volume reports work that was accomplished three or more years ago, it will be of major usefulness to all serious workers in the field. With publication of the proceedings of the Fifth Congress expected during 1961, the four formal volumes of Congress proceedings and the seven volumes of SMPTE reprint volumes in high-speed photography and photographic instrumentation add up to a rich source of information that should be at hand in every establishment using this medium of observation and measurement of fast events.—*Carlos H. Elmer*, 410B Forrestral St., China Lake, Calif.

### The American Cinematographer Manual

Compiled and edited by Joseph V. Mascelli. Associate Editors: Arthur Miller and Walter Strenge. Published (1960) by The American Cinematographer Manual, P.O. Box 2230, Hollywood 28. 420 pp. incl. index, diagrams, tables, plus additional adv. pages. 4 by 7 in. Price \$7.50.

This handy, pocket-size manual is densely packed with a wealth of information arranged with the utmost convenience for ready reference. Ten sections (Cameras, Films, Lenses, Exposure, Black & White Filters, Color, Lighting, Background Process, Television & Sound, Special Techniques) are thoroughly indexed so that data can be located without delay. Brief but explicit descriptions are given of equipments produced by a number of well-known manufacturers of photographic supplies, including various types of cameras and related equipment. Descriptions, exposure indexes, identification markings, incident light tables and other pertinent data for the various motion-picture films generally available in the United States are included.

Each section includes a set of Tables and 22 pages at the end of the book are devoted to formulas, conversion tables, electrical data, etc. The book also includes the List of Motion-Picture Technical Terms in Five Languages, initiated by Carlos Connio Santini, reprinted from the *SMPTE Journal*. This and other contributions by the Society are acknowledged in the Introduction to the *Manual*.

The Tables in the book are all integrated so that they may be used with each other. A shading system is used to make all normal data (24 frames/sec; 175° shutter; basic exposure without filter, etc.) and any data one step apart instantly apparent.

Interspersed with the tables and formulas are brief didactic essays and para-

graphs and extremely practical helpful hints. An informative article on "Television Film Cinematography" was contributed by Edward P. Ancona, Jr., and the basics of high-speed photography are presented in a brief article by John H. Waddell. Other brief but authoritative articles cover the essentials of almost every aspect of cinematography.

### Ten Books on Related Subjects

John F. Rider Publisher, Inc., 6 by 9 and 5½ by 8½ in., titles and other identification below.

No. 259: *Basic Ultrasonics* by Cyrus Glickstein, April 1960, 144 pp. Price \$3.50 soft cover, \$4.60 cloth cover.

No. 200-8: *Magnetic and Electrical Fundamentals, Franklinian Approach*, by Alexander Efron, December 1959, 136 pp. Price \$2.50, paper cover.

No. 166-26: *Advanced Magnetism and Electromagnetism*, edited by Alexander Schure, December 1959, 104 pp. Price \$2.25, paper cover.

No. 166-20: *Magnetism and Electromagnetism*, edited by Alexander Schure, November 1959, 78 pp. Price \$1.80, paper cover.

No. 166-27: *R-F Amplifiers*, edited by Alexander Schure, October 1959, 104 pp. Price \$2.40, paper cover.

No. 166-30: *Low-Frequency Amplifiers*, edited by Alexander Schure, May 1959, 88 pp. Price \$1.80, soft cover.

No. 166-28: *Video Amplifiers*, edited by Alexander Schure, February 1959, 88 pp. Price \$1.80, soft cover.

No. 166-19: *A-C Circuit Analysis*, edited by Alexander Schure, December 1958, 104 pp. Price \$1.80, soft cover.

No. 166-22: *Vacuum Tube Characteristics*, edited by Alexander Schure, December 1958, 96 pp. Price \$1.80, soft cover.

No. 166-24: *Gas Tubes*, edited by Alexander Schure, October 1958, 80 pp. Price \$1.50, soft cover.

The publisher's mailing pieces carry the stamped legend, "Publishers of the fabulous picture book course in basic television." The pictures do, indeed, prove to be one of the most prominent features of these books. Your reviewer, therefore, chose to start his review by studying the pictures.

It may be unfortunate that the *Ultrasonics* volume was the first selected, as the pictures in this book proved disappointing. With 120 pictures in less than 144 pages, the volume of picture material amounts to almost half of the entire book. All are line illustrations, of the style associated with military instruction books. However, a military illustration is generally chosen for its value in developing a point not readily apparent from text description, alone; while the illustrations in the volume being reviewed were judged to be of trivial value. Typical are pictures of a man cupping his hand to his ear, over a legend saying, "Ultrasonic vibrations are not audible" (½ page); bouncing a coin and striking a rail, over a legend, "Examples of nondestructive testing" (½ page); dipping a foot into a tub of liquid, over a legend, "Ultrasonic energy applied to immersed limb" (½ page), and so on. In fact, the illustrations in this volume seem to have been chosen to some extent, at least, for their value in ex-



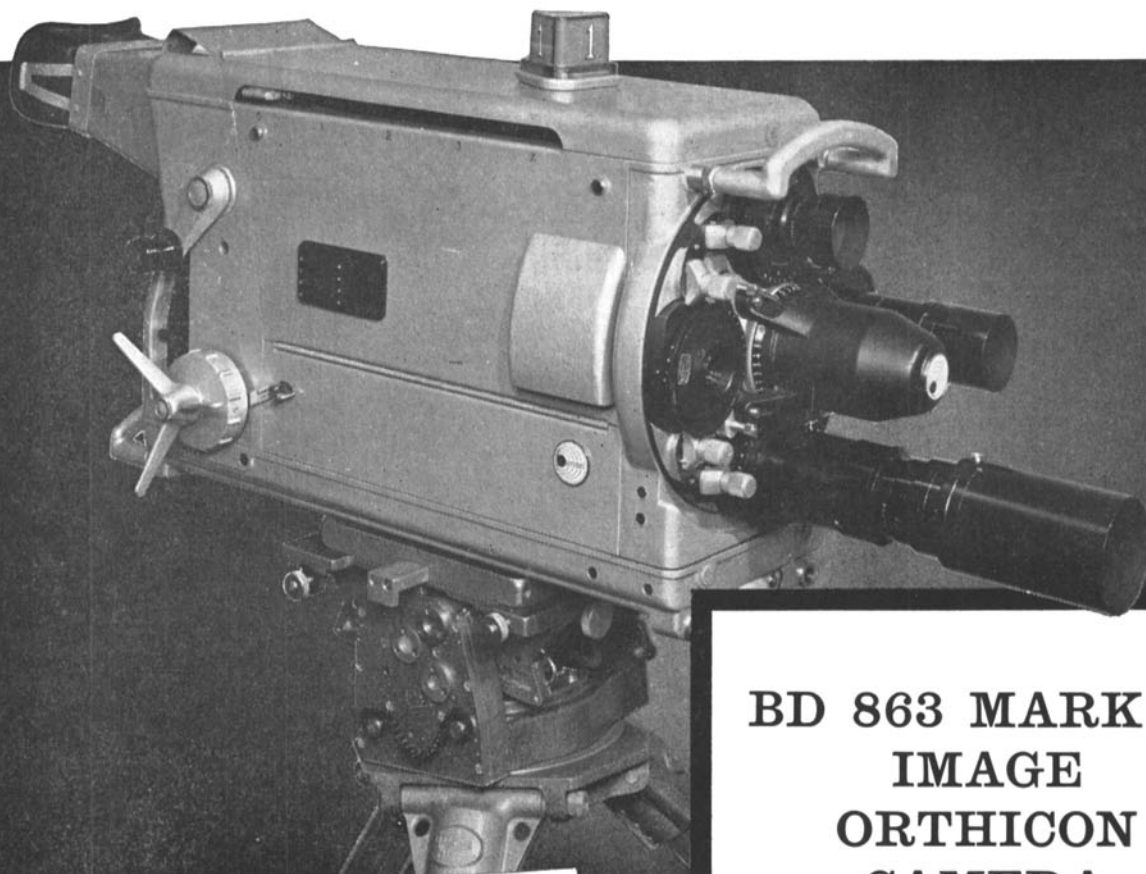
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<b>Denmark:</b> ELECTRONICA, Copenhagen	<b>Cuba:</b> CARIBBEAN PHOTO, Havana
<b>Great Britain:</b> ZONAL FILM FACILITIES, London	<b>Hawaii:</b> S.O.S. RECORDING, Honolulu
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<b>Egypt:</b> ANIS EBEID, Cairo	<b>OCEANIA</b>
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panding the text. A 5-page article on the same subject, written by Robert L. Rod of the same company as the author, appeared in Radio and TV News, February 1959, and covered almost as much material as the 144-page book.

Illustrations in the other volumes of the group reviewed were found to be of greater value, and smaller in number. In other respects, as well, these books were judged to be of much better quality than the one first reviewed. All of the books in this latter group were found to be practical, rigorously accurate, conservative in style, and very readable.

A common feature of these latter books is the use of mathematics to the extent necessary for proper presentation of the subject matter. The level is that of high school or early college.

The phrase "Franklinian Approach" which appears in one of the titles indicates that the text uses the older accepted convention regarding direction of current flow, that is, from plus to minus. The care shown in indentifying the approach is indicative of careful preparation throughout the text presentation.—*Bernard D. Plakun*, GPL Division—General Precision, Inc., Pleasantville, N.Y.

### Classification of Electron Tubes

By J. Haantjes and H. Carter. Published (1960) by the Macmillan Company, 60 Fifth Ave., New York 11. Printed in the Netherlands. 100 pp. illus. and 2 tipped-in charts. 8 by 11 1/4 in. Price \$3.50.

How to tell one "-ode" or "-tron" from another is the subject of this newly published book, as is apparent from the title. However, the title, alone, does not indicate the outstanding feature of the book, which is the color artwork of the illustrations.

The text is a serious, scholarly presentation. A brief and simple account of the principal features of electron tubes is given in the early part, and leads to a general statement of the classification methods used. More detailed statements are given in the subsequent divisions, which include: High-vacuum thermionic tubes of general purpose; X-ray and cathode-ray tubes; High-vacuum photoelectric devices; Gas-filled thermionic tubes; Cold-cathode tubes; Gas-filled photoelectric cells; and Pool cathode tubes. The text concludes with an index of applications, and an alphabetical glossary of tube types. The system used for classifying electron tubes is logical and well-defined, offering the possibility of a stable base for classification of future types in a rapidly expanding technology.

The value of the text is enhanced by strikingly beautiful artwork. Some 30 representative tube types are illustrated by full-page cutaway views, in full color, printed by a process which compels admiration. Other illustrations, generously used, are of the same high quality. The artists who prepared the illustrations have transformed a familiar utilitarian device into a vivid subject for modern art.—*Bernard D. Plakun*, GPL Division—General Precision Inc., Pleasantville, N.Y.

### Singers' Glossary of Show Business Jargon

By Al Berkman. Published (1961) by Wilshire Book Co., 8721 Sunset Blvd., Hollywood 46. 96 pp. Illus. 8 1/2 by 5 1/2-in. Paperbound. Price \$2.00.

Although a number of slang terms peculiar to show business are included in this book, the title is somewhat misleading in that the preponderance of terms defined cannot, in any sense of the word, be described as "jargon." For example (three randomly chosen out of many), "decible," "G clef," "larynx," are defined according to the dictionary and long-accepted usage. However, terms peculiar to show business—"silo circuit," "hot mike," "lay an egg"—are included in sufficient numbers to give some meaning to the title. This is really no ordinary glossary. For example, under "Instruments," 63 musical instruments used in various types of orchestras and "combos" are described and most of them are illustrated. Concise descriptions include a good deal of historical information as well as information on the construction and use of each instrument—some of them quite exotic. The familiar instruments of ancient and honorable lineage (the violin, cello, oboe, bassoon, etc.) are mixed up in some strange company, to wit, "jaw bone: The jaw bone of native two-year-old Cuban horses hand painted in various colors. When struck with the fist it produces a vibration peculiar to this instrument..." The book is well written and the illustrations selected with imagination and taste; a few cartoons interspersed with the photographs and diagrams are apt and witty. Except for the unfortunate title, this is a completely delightful book.

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## current literature



The Editors present for convenient reference a list of articles dealing with subjects cognate to motion-picture engineering published in a number of selected journals. Photostatic or microfilm copies of articles in magazines that are available may be obtained from The Library of Congress, Washington, D.C., or from the New York Public Library, New York, N.Y., at prevailing rates.

*American Cinematographer* vol. 41, Oct. 1960  
Filter Lore (p. 609) *C. Loring*

vol. 41, Dec. 1960

An Infrared Self-Matting Process (p. 740)  
*Z. Vidor*

vol. 42, Feb. 1961

A Simple Sound Dubbing Method for Magnetic-Stripe Films (p. 101) *K. H. Barney*