

June 1960
 Les progrès des projecteurs et de la sonorisation
 au XXV Salon Photo-Cinéma-Optique (p.
 170) *P. Hemardinquer*

July 1960
 Les progrès des projecteurs et de la sonorisation
 au XXV Salon Photo-Cinéma-Optique (p.
 194) *P. Hemardinquer*

The Photographic Journal

vol. 100, No. 7 (1960)
 Audio and Video Magnetic Recording and Re-
 production (p. 231) *J. M. Carson*

Photographie u. Wissenschaft

vol. 9, No. 1 (1960)
 Die Operations-Kinematographie (p. 15) *H.
 Orbach*

vol. 107, July 1960
 Proc. Institution of Electrical Engineers: Pt. B
 Development of the Formulae of Electromagnet-
 ism in the M.K.S. System (p. 331) *P. Vigoureux*
 An Introduction to the Theory of Solid-State
 Masers (p. 341) *P. N. Butcher*
 Some Mechanisms of Failure of Capacitors With
 Mica Dielectrics (p. 357) *A. A. New*
 Extra-Terrestrial Radio Noise as a Source of
 Interference in the Frequency Range 30-1000
 Mc/s (p. 373) *F. Horner*
 The Long-Term Stability of Fixed Resistors
 (p. 377) *H. F. Church*

vol. 107, May 1960
 A Quadrature Network for Generating Vestigial-
 Sideband Signals (p. 253) *G. G. Gouriet and
 G. F. Newell*

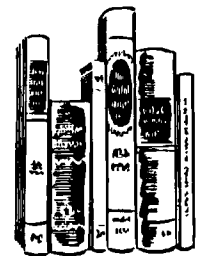
Tekhnika Kino i Televediniya

No. 7 (1960) (In Russian)
 On the Problem of Cinema Stereoscopic De-
 velopment (p. 1) *B. T. Ivanov*
 Research of 35mm Projector with Intermittent
 Film Travelling Optical Alignment (p. 39)
L. G. Tarasenko
 On the Stereophonic Sound Reproduction
 Channel Number in Wide-Gauge Cinematog-
 raph (p. 49) *B. F. Natarov*

No. 6, 1960
 A New Contact Continuous Printer for 35 and
 16 mm Films and Microfilms *O. V. Pestchansky*
 (p. 71)

Proc. Inst. Electrical Engineers

vol. 107 pt. B No. 35, Sept. 1960
 Thermistors, their Theory, Manufacture and
 Application (p. 389) *C. F. Powell*
 Resistive Film Milliwattmeters for the Fre-
 quency Bands 8.2-12.4 Gc/s, 12.4-18 Gc/s
 and 26.5-40 Gc/s (p. 427) *I. Lemco and B.
 Rogal*
 A Slot-Excited Corner Reflector for Use in Band
 V (610-960 Mc/s) (p. 431) *D. J. Whythe
 and K. W. T. Hughes*
 Diffusion of Sound in Small Rooms (p. 439)
K. E. Randall and F. L. Ward
 The Design of Controlled Rectifiers Using
 Triode Transistors (p. 473) *E. E. Ward*
 The Conductivity of Oxide Cathodes: Pt. 9 —
 Thermo-electric Power. Monograph No. 397 E
 (p. 484) *G. H. Metson and M. F. Holmes*
 Limitations of Realizable Response Shapes for
 Certain Wide-Band Band-Pass Amplifier
 Circuits. Monograph No. 400 E (p. 484)
R. A. Woodrow



**books
 reviewed**

**Proceedings of the International
 Colloquium on Cinematographic
 Techniques (in French)**

Published (1960) by the High Technical
 Commission of the French Cinema, 92
 Champs-Elysees, Paris 8e. 190 pp. with
 illus., 8½ by 11¼-in.

The High Technical Commission of
 the French Cinema organized in 1955,
 on the occasion of its tenth anniversary
 (and the 60th in the history of cinema-
 tography) an international colloquium on
 cinematographic techniques. This was
 repeated in 1956 in Rome, in 1957 in
 Warsaw, and returned to Paris in June,
 1959. Representatives from 18 nations
 (including some "iron-curtain" countries)
 attended. One representative was from our
 own SMPTE.

The major topics in 1955 were the wide
 screen, magnetic and stereophonic record-
 ing, and color. These topics remained in
 1959, though new aspects of them were
 discussed. New topics, such as sources of
 light and automation, have been added.
 The formal listing is: Films and formats;
 Sources of light and projection optics;
 Sound reproduction; Theaters and cinema
 automation; and Camera exposure, sound
 recording and laboratory processing.

Most of the discussion is tutorial, but
 there are some new contributions. Some
 interesting topics are a listing of profes-
 sional color films, a sharply pulsed high-
 pressure arc to give 3 projections per frame
 without shortening pull-down time, a
 high-pressure xenon arc, a pulse method of
 acoustic testing, some British discussions
 on screen luminance (now expressed in
 "nits," which are candels per square
 meter), and a variety of automation sys-
 tems for projection, processing, and ex-
 posure.

It is interesting, among other things,
 to read that in Bulgaria the present number
 of motion picture theaters is six times that
 in 1944, that new theaters are opening at
 the rate of 100 per year, against nine per
 year in 1944; and that the number of
 spectators has risen since then from 15 to
 90 million per year.—*Pierre Mertz*, Lido
 Beach, L.I., N.Y.

An Ansco Photographic Data Sheet
 describing Super Anscochrome PNI 16,
 35, and 70mm is available upon request
 from Ansco, Binghamton, N.Y. The film,
 Daylight and Tungsten Types, is a reversal
 type high-speed color film. Also available
 upon request is a sheet listing motion-
 picture laboratories processing 16mm Ans-
 cochrome PNI films of all emulsion types.

at your service!

16 MM

reversal printing and processing

COLOR PRINTING

- Fastax Service
- A&B Roll Prints
- Fades-Dissolves
- Timed Prints

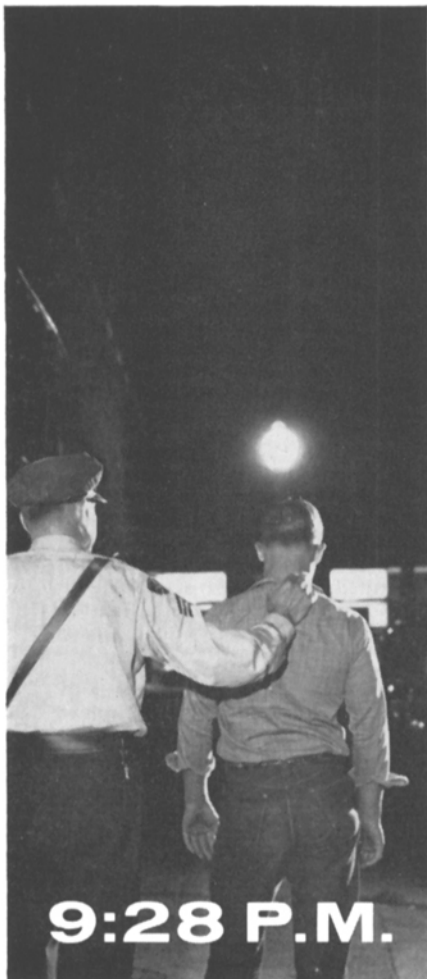
- Work Prints
- Color-to-Color Prints
- Color-to-B & W Prints
- Raw Stock

Write for complete information . . .

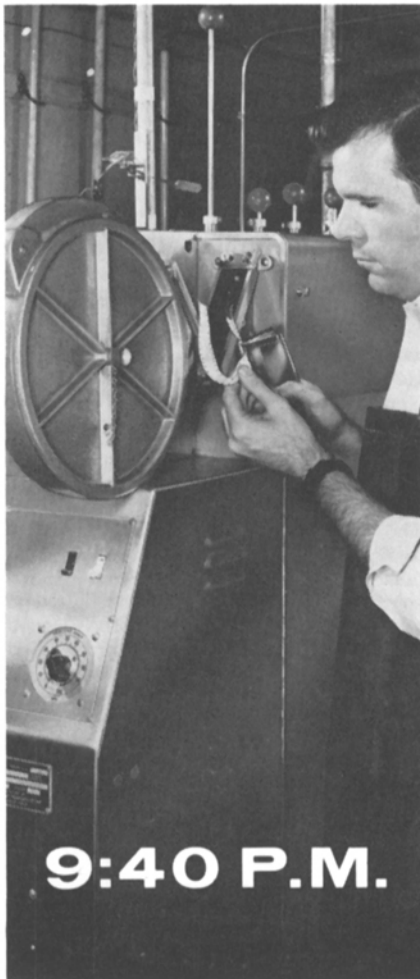
LAB-TY

723 Seventh Avenue
 N. Y. 19, JU 6-2293

33 MINUTE SCOOP!



9:28 P.M.



9:40 P.M.



10:01 P.M.

ROCK ISLAND, ILL.—With an alert on-the-spot cameraman plus speedy film processing, WHBF-TV recently telecast motion picture coverage of a local criminal capture only 33 minutes after the event.

At 9:28 p.m. an alert WHBF-TV newsman shot the action and rushed to the station. By 9:40 the film was started through their Labmaster film processor. And at 10:01 this film was lead story on the regular WHBF-TV Sunday night newscast.

“Motion picture coverage of late-breaking news was extremely difficult,” says the WHBF-TV news chief, Jim Koch, “prior to installing our automatic

Houston Fearless Labmaster. But now our normal processing deadline for news film is a short 35 minutes before going on the air.”

In addition, the station speeds film processing of sports, special events, and locally produced commercials with the efficient, profit-making Labmaster — more than 35 miles of action-packed film yearly!

The WHBF-TV story is typical of the many advantages TV stations across the country get from Labmaster’s fast, quality film processing. Your station could profit too! For complete Labmaster details mail this coupon today.

HF **HOUSTON**
FEARLESS

DIVISION OF HOUSTON FEARLESS CORP.

HOUSTON FEARLESS DIVISION

11827 W. Olympic Blvd., Los Angeles 64, California

Please send catalogs and prices on B&W Labmasters

Camera Heads Dollies Tripods Camera

Pedestals Remote Control Heads

Name _____

Firm _____

Address _____

City _____ Zone _____ State _____

Beyond the Planet Earth

By Konstantin Tsiolkovsky (Trans. by Kenneth Syers). Published (1960) by Pergamon Press, Inc., 122 E. 55 St., New York 22. 190 pp. 8 by 5½-in. Price \$3.75.

This is a curious little book, its main interest being in the circumstances of its writing and publishing, although the content stands up very well in comparison with much contemporary "science fiction." Written at the turn of the century in Russia by a man who in 1883 was drawing designs for "space ships" which embodied many of the principles on which present day designs are based, it was published in 1920. The plot, or theme, is the now-familiar science fiction standby, the journey to the Moon, told with careful detail and a great deal of scientific explanation.

As the book begins, "Six men, a Frenchman, an Englishman, a German, an American, an Italian and a Russian," were living in a "fine castle" where they were all devoting their lives to scientific pursuits. The stage is set when, "Ivonov, the Russian, suddenly rushed into the room and started hugging everyone in turn . . ." It seems that he had "invented something—something terrible!" Helmholtz, the German, "who had suffered worse than the rest of them from the Russian's embraces," persuaded him to reveal his invention. It develops that he has invented a rocket that will enable them to land on the Moon in four days. Whatever allegory may have been intended by the

author, the rest of the book is a pure adventure tale, describing how the friends cope with space problems, explore the moon, discover interesting asteroids, found a self-sustaining colony in a space ship, and finally return to Earth where they spend their days in "a peaceful life of rational pursuits." The language of this rather charming little book is more than slightly reminiscent of the Rover Boys, but it is obvious that the author was mainly intent on presenting some of his own scientific findings and predictions in the guise of fiction.

ABC of Film and TV Working Terms

By Oswald Skilbeck. Published (1960) in Great Britain by Focal Press Ltd., available in the United States from Hastings House, Publishers, Inc., 151 E. 50 St., New York 22. 160 pp., 5 by 7-in., Price \$3.95.

About a thousand "working words" used in British film and television studios are defined in this attractive little glossary. The words vary from the highly technical to slang or colloquial terms. Intended to make "studio talk" intelligible to the "newcomer or visitor to studios; to people who sponsor films or have some other reason to take an interest in their production, and . . . to amateurs who aspire to 'proper' professional usage," the terms are defined in an informal, explanatory manner with

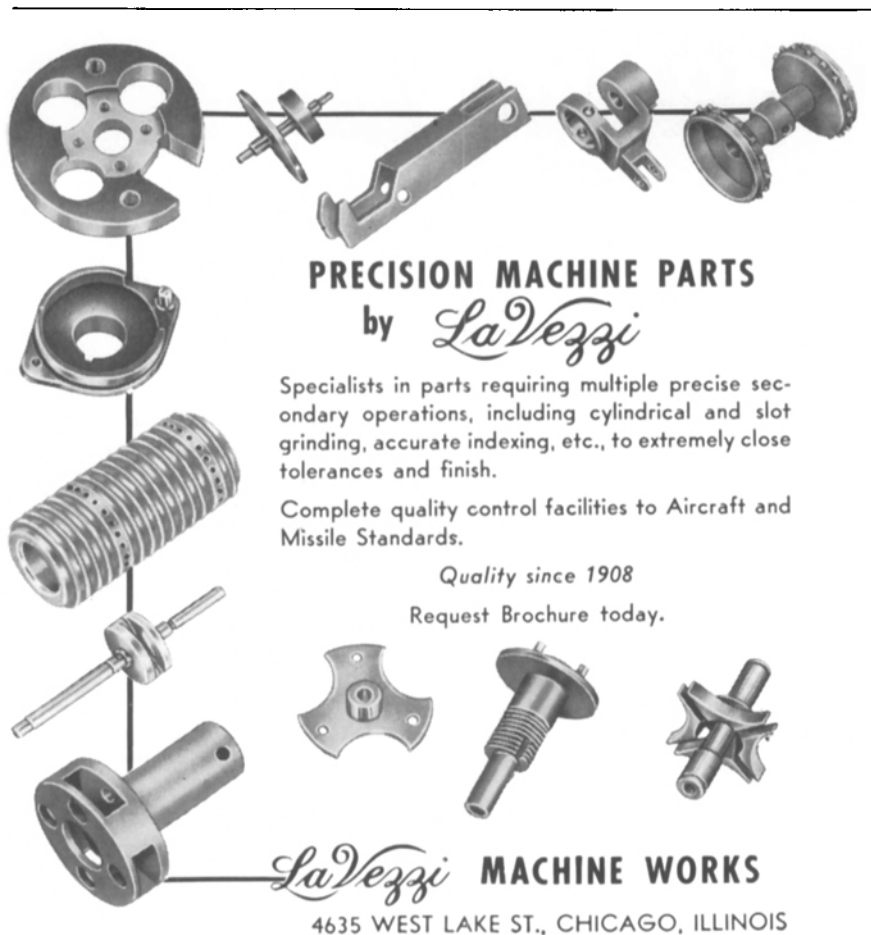
occasional touches of British wit. For example, the definition of *jingle*: "One of those rather dreadful little lines chanted in close harmony, with which so many TV 'commercials' end."

The American reader will find that the more technical words and phrases tend to have identical meanings on both sides of the Atlantic, but he may be amazed and amused by some of the more colloquial expressions. For example, *chippy*: "A carpenter. One such must, as a rule, stand by on the Floor to make minor and sudden variations to the Set which Shooting may demand," and *tea breaks*: "Irritating disruptions of work which occur at least twice every day. Other countries manage without anything corresponding to them, but in Britain they are even the subject of trade union stipulations and clauses in Agreements." Other such colloquialisms call to mind the familiar Wilde witticism "Americans and British have everything in common except language."

It may also be noted that the SMPTE is the only American organization described in the book. It is mentioned twice (pp. 119 and 157). Delightful to read for its witticisms as well as for the information presented, the book is, of course primarily intended as a practical reference, and as such it admirably fulfills its purpose.

Photographic Lens Manual and Directory by C. B. Neblette is a well written little volume (112 pp.) which presents in clear and simple language basic information on camera lenses. Numerous diagrams are included. Probably of the most interest to the intelligent amateur photographer, it would also be useful to the professional photographer working in portraiture, spot news, or other branches of the art. Chapter subjects include Lens Development, Design and General Characteristics; Choice and Testing of Photographic Lenses; and General Properties of Lenses and Optical Tables. A chapter by Allen E. Murray is on Performance of Photographic Lenses. A Directory of manufacturers is included. The author is Professor of Photography at Rochester Institute of Technology. The book is published by Morgan & Morgan Inc., Publishers, 101 Park Ave., New York 17. A paper bound edition is priced at \$1.95. The hard bound edition is priced at \$3.50.

The McGraw-Hill Encyclopedia of Science and Technology (15 volumes; 8500 pages of text; 600 index pages; 9700 illustrations) was five years in preparation at a cost to the publisher, McGraw-Hill Book Co., 330 W. 42 St., New York 36, of almost \$2 million. The 15-volume set is priced at \$175. Articles written by more than 2000 authorities cover various fields of Life Science, Physical Science, Earth Science and Engineering, including major applications. Among the articles of special interest are a 14,000-word survey of photography contributed by Walter Clark, who is head of the applied photography division of Kodak Research Laboratories; "Deep-Sea Photography," by H. E. Edgerton; "Acoustics," by Leo Beranek; "Magnetic Recording," by H. F. Olson; and "Space Engineering," by Krafft



PRECISION MACHINE PARTS
by *LaVezzi*

Specialists in parts requiring multiple precise secondary operations, including cylindrical and slot grinding, accurate indexing, etc., to extremely close tolerances and finish.

Complete quality control facilities to Aircraft and Missile Standards.

Quality since 1908
Request Brochure today.

LaVezzi **MACHINE WORKS**
4635 WEST LAKE ST., CHICAGO, ILLINOIS



TRI ART COLOR

**BLACK
AND
WHITE**

DU ART

**TRI
ART
COLOR**

CORPORATION

(a subsidiary of Du Art Film Labs., Inc.)

245 West 55th St., New York 19, N. Y. • PLaza 7-4580

IN CANADA: ASSOCIATED SCREEN INDUSTRIES, Ltd. • 2000 Northcliff Avenue, Montreal, Canada

A. Ehrlicke. According to the announcement released by the publishers, "The names of the contributors read like a 'Who's Who' of the world's scientific community."

BBC Engineering Monograph No. 32, A New Survey of the BBC Experimental Colour Transmissions, issued October 1960, is, in some respects a sequel to Monograph 18, *The BBC Colour Television Tests: An Appraisal of Results*, issued May, 1958. The current monograph opens with a brief historical account of early experiments in color television. The experimental program transmissions from Alexandra Palace which were carried on between October 1957 and April 1958 are described in detail and the results are evaluated. Experimental transmissions from October 1958 to the present are described. The monograph is available from BBC Publications, 35 Marylebone High Street, London, W.1.

The A.B.C.'s of Camera Repair, by Samuel L. Love, is a glossary of terms for photo technology published in 1959 by the National Camera Repair School. Planned as a study aid for students in the school, it has also been found useful by professional photographers as a convenient reference. Words and descriptive terms from many fields — mechanics, electronics, chemistry, and others — are included when relating to photography or camera repair. "Motion, Newton's laws of" is defined in a brief paragraph, and almost

a page is devoted to definitions of various types of files, "coarse-cut," "curved tooth," etc. The book contains 84 pages with definitions ranging from "a-c: alternating current" to "zoetrope: an early motion-picture-viewing device; while only a toy, it is used to demonstrate the principle of vision on which the motion picture is based."

The LaPine Apparatus Review No. 12, 1960, a 16-page brochure issued by Arthur S. LaPine & Co., 6001 South Knox Ave., Chicago, carries an announcement that Tenso-Lab, Inc., Irvington-on-Hudson, N.Y., is now a subsidiary of the company. Also announced is the distributorship of Coleman Instruments. A number of new laboratory instruments are described, including spectrophotometers, pH meters, electrobalances, recorders and related equipment. The brochure is available without charge upon request to the company.

Precision Optics, both custom-made and mass-produced, are described in a brochure, available without charge from Plummer and Kershaw, East Greenville, Pa. The company also offers design and engineering services.

Spectrum of Capabilities is a 20-page illustrated brochure, available upon request from Servo Corp. of America, 111 New South Rd., Hicksville, L.I., N.Y. The brochure describes the company's research and development activities re-

sulting in products used in missile and space systems, simulation systems, control systems, automatic weather stations, data link systems and similar applications.

The 1960 Optical Industry Directory published by the Optical Publishing Co., Box 1753, Lenox, Mass., has been considerably revised and enlarged, and its scope expanded over that of the 1959 issue. Photographic, photoelectric and infrared are covered in more detail as well as advances in instrumentation of space technology. About 400 items are listed under such categories as instruments, components, raw materials and services. Current information on about 1200 American companies supplying these items, and a catalog of corrected lenses, both domestic and foreign, are included. The Directory is priced at \$7.50.

A 20-page study describing a system by which educational TV programs can be brought to most schools and homes in Western North Carolina is available without charge from Adler Electronics, Inc., One LeFevre Lane, New Rochelle, N.Y. The system is designed to rebroadcast the programs of WUNC-TV, the educational TV station of the University of North Carolina. A basic unit of this system is the translator, which is a re-broadcast transmitter that receives signals from a broadcasting station and retransmits it without loss of quality to receivers that are out of range of the originating station.

E d u c a t o r s . . .



- Make sure you get the most out of your 16mm sound films
- Use the standard tests your own projector repairman uses
- Measure your projector's performance yourself with the

16mm "JIFFY" TEST FILM



- Points up both projection and sound troubles
- Instruction booklet supplied with the film
- Test instruments are not required. Write . . .

SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS
55 West 42nd Street, New York 36, New York