

# Films of The Week

Listing for readers' information of new 16mm and 8mm films on science, engineering, medicine and agriculture for professional, student and general audiences. For further information on purchase, rental or free loan, write to distributor.

**GEORGE WASHINGTON CARVER.** 16mm, b&w, sound, 11 min. Traces the life of this American scientist, the farming revolution which took place as a result of his experimentation with the peanut plant, and the 300 by-products which he developed during his lifetime. Audience, general. Purchase \$70 or rental \$4 from Baily Films, Inc. 6509 De Longpre Ave., Hollywood, Calif. 90028.

**TERRAIN INVESTIGATION TECHNIQUES.** 16mm, color, sound, 16 min. Describes preliminary engineering problems faced in choosing the best location for a new highway by using four techniques of investigation: photo investigation, seismic refraction, electrical resistivity, and confirming borings. Audience: college level courses in geophysics, agronomy, and civil engineering. Purchase \$150 or rental \$7 from Film Distribution Supervisor, Ohio State University, Motion Picture Div. 1885 Neil Ave., Columbus, Ohio 43210.

**DEVELOPMENT OF THE CHICK: EXTRA EMBRYONIC MEMBRANES.** 16mm, color or b&w, sound, 23 min. Employs drawings and photomicrography of living specimens to trace and to analyze the development of the amnion, chorion, yolk sac, and allantois of the chick embryo. Morphology of the various membranes and the development of the blood vessels supplying them is illustrated along with the response of the amnion to mechanical stimulation and the interrelationships of the four membranes. Audience: biology students. Color version sale \$210, rental \$15; b&w version sale \$110, rental \$4.40. From Indiana University, Audio-Visual Center, Bloomington, Ind. 47401.

**HARMONIC PHASORS.** 16mm, b&w, silent, 7 min. Computer pantomime designed for use as a teaching aid to demonstrate without using words and equations five ideas including (1) how sinusoidal motion may be represented by projecting uniform circular motion upon a line, and (2) how special properties result when the frequencies of the motions are harmonically related in proportion to the integers 0, 1, 2, 3, etc. Audience: electrical engineering students. Sale \$30 from Film Librarian, Educational Services Incorporated, 39 Chapel St., Newton, Mass. 02160.

**PRIMARY OCEANOGRAPHY.** 16mm, color, sound, 10 min. Discusses various aspects of the ocean, such as what makes it salty and what types of useful elements may be derived from the water. Audience: elementary. Purchase \$120 from Gateway Productions, 1859 Powell St., San Francisco, Calif. 94133.

**RED LIGHT RETURN.** 16mm, color, sound, 13 min. Details efforts being made to prevent serious injuries during automobile accidents. Illustrates how through following simple safety rules such as keeping doors locked and safety belts fastened, lives will be saved. Audience: high school students, general. Free loan from Association Films, 600 Grand Ave., Ridgefield, N.J. or other regional libraries.

## "MOUNTAIN GLACIERS"

16mm, Sound, Science, Color Film—Ohio State University, Dept. of Photography, 1885 Neil Avenue, Columbus, Ohio 43210. Sale: \$175.00—Rental: \$7.50 (3 days)

## FREE BOOK!

"Dover Science Sampler." 64-page book, with entertaining instructive selections from Mach, Galileo, Newton, Poincare, Hubble, Steinman, etc. Island universes, fata morgana, genetics, phase rule, etc. Entirely free, no strings attached. No obligation, no salesmen will call. Supply limited. Write now. Dept. SNL, Dover, 180 Variek St., N.Y., N.Y. 10014

# Books of the Week

Listing is an editorial service for readers' information. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage plus 25c handling charge if price is less than \$2 to Book Order Service, Science News, 1719 N St., N.W., Washington, D.C. 20036. Prices subject to publishers' changes. Be sure to include zip code in your address.

**ABSORPTION IN GAS-LIQUID DISPERSIONS:** Some Aspects of Bubble Technology—F. H. H. Valent—Spon Ltd. (Barnes & Noble), 212 p., 18 plates, diagrams, \$10. Brings together for the engineer and research worker information on bubble formation, bubble pools and columns, mass and heat transfer, plate columns, agitated tanks and some industrial applications.

**THE ACTINOMYCETES:** A Summary of Current Knowledge—Selman A. Waksman—Ronald Press, 280 p., illus., \$12. Single-volume treatise presenting in condensed form the occurrence and nature of actinomycetes, their classification, physiological properties and biochemical activities, antagonistic properties and production of antibiotics.

**ADVANCES IN CRYOGENIC ENGINEERING,** Vol. 12—K. D. Timmerhaus, Ed.—Plenum Press, 792 p., illus., \$25. These proceedings of the 1966 Cryogenic Engineering Conference in Boulder, Colo., cover application of cryogenics in space technology, insulation, heat and fluid transfer, refrigeration, phase equilibria and thermodynamics.

**ANGLO-AMERICAN CATALOGING RULES:** North American Text—C. Sumner Spalding, Ed.—Am. Library Assn., 400 p., \$8.50. Revised and expanded code of cataloging practice, presents an integrated system for the descriptive cataloging of both books and non-book library materials, based on official rules approved by U.S., British and Canadian library associations and the Library of Congress.

**ANNUAL REVIEW OF MEDICINE,** Vol. 18—Arthur C. DeGraff, Ed., William P. Creger, Assoc. Ed.—Annual Reviews, 559 p., illus., \$8.50. Presents articles reviewing medical areas marked by substantial progress, ranging from transfer experiments of memory to the problem of sulfonamide-resistant meningococci.

**BIOLOGICAL ACTIONS OF DIMETHYL SULFOXIDE—**Chauncey D. Leake, Ed.—N.Y. Acad. of Sciences, Annals, Vol. 141, Art. 1, 671 p., illus., paper, \$14. Contains reports and discussions of the properties, actions, pharmacology, low toxicity and efficacy of DMSO in animals and man.

**THE CONSTITUTION OF GLASSES:** A Dynamic Interpretation, Vol. II, Part 2: Constitution and Properties of Some Representative Glasses—Woldemar A. Weyl and Evelyn Chostner Marboe—Interscience, 692 p., illus., \$27.95. Deals with the formation of glasses on the basis of the structures of those liquids from which they have formed on cooling. This part in particular treats the surface chemistry of silicate glasses, the electrical properties and the interdependence of properties.

**THE EARTH BENEATH THE CONTINENTS:** A Volume of Geophysical Studies in Honor of Merle A. Tuve—John S. Steinhardt and T. Jefferson Smith, Eds.—Am. Geophysical Union, 663 p., diagrams, maps, \$16.50. Brings together the data of the 1963 Lake Superior seismic experiments, enabling the reader to compare the various interpretations advanced to explain the crustal structure in the Lake Superior province of the Canadian Shield.

**EDEN WAS NO GARDEN:** An Inquiry into the Environment of Man—Nigel Calder—Holt, 240 p., \$4.95. Thoughtful essays concerned with the optimal relationship of human population to environment.

**FOSSIL SHARK AND FISH REMAINS OF NORTH AMERICA—**Gerard R. Case—Graeco Press (G. R. Case), 24 p., photographs, illus., paper, \$2 direct to author, 225 St. Paul's Ave., Jersey City, N.J. 07306. A guide to the identification of fossil sharks teeth and fish bones commonly found by amateurs.

**FROM FREGATE TO GODEL:** A Source Book in Mathematical Logic, 1879-1931—Jean van Heijenoort—Harvard Univ. Press, 660 p., illus., \$18.50. Presents the fundamental texts of the great classical period in modern logic influential in shaping the structure of the various sciences.

**GETTING ACQUAINTED WITH COMETS—**Robert S. Richardson—McGraw, 306 p., illus., \$7.50. A very readable introduction to comets for the amateur astronomer.

**HANDBOOK OF CHEMISTRY—**Norbert Adolph Lange, Ed., asstd. by Gordon M. Forker—McGraw, rev. 10th ed., 2001 p., \$12. A reference volume for ready access to chemical and physical data used in laboratory work and manufacturing.

**HEALTH PHYSICS:** Principles of Radiation Protection—D. J. Rees—M.I.T. Press, 242 p., diagrams, \$12.95. Monograph presents principles and their application to the more common uses of ionizing radiation, and makes available in a single volume the more important numerical data used in radiation protection applications.

**JOURNAL OF VIROLOGY,** Vol. I, No. 1—Robert R. Wagner, Ed.-in-Chief—Am. Soc. for Microbiology (Williams & Wilkins), 448 p., illus., paper, \$4; bi-monthly, \$20 per year. Devoted to the dissemination of fundamental knowledge concerning viruses of bacteria, plants and animals.

**THE LIFE OF THE KANGAROO—**Stanley and Kay Breeden—Taplinger, 80 p., photographs, \$4.95. Printed in their homeland, Australia, this book gives a close-up view of a family group of grey kangaroos on Bribie Island off the Queensland coast.

**MAGNETISM IN SOLIDS—**D. H. Martin—M.I.T. Press, 452 p., diagrams, \$19.95. Presents the theory with emphasis on the physical content rather than on the mathematical techniques, and deals with the wider view of magnetism based on developments of the last decade.

**THE NEW RUMANIA:** From People's Democracy to Socialist Republic—Stephen Fischer-Galati—M.I.T. Press, 126 p., \$6. A contemporary and political history for students of East European affairs.

## PAINT NOW, LEARN LATER

Start right  
now creating  
original  
paintings!



## FAMOUS ARTIST SHOWS HOW!

If you would like to paint but have never done anything about it—this book is for you. If you have been scared off because you didn't know the "rules"—this book is certainly for you.

**LET RULES COME LATER!** Guy Williams, the famous teacher who is also a highly successful artist, says the FUN OF PAINTING should start right away. That's why he starts you in painting—and enjoying it!—the very first day. Don't worry about rules! Great artists break them every day! Of course you'll learn them later from the book. But right now, Williams insists you take up oils, watercolors, pastels, charcoal, crayon, ink, or pencil—and see how easily human figures, still-life compositions, and natural scenes take shape on your paper or canvas.

**YOU'LL BE AMAZED** how quickly the techniques of painting come to you with the help of Guy Williams' experienced guidance. It's almost like working in his studio, feeling his hand on your shoulder as he explains how to handle perspective . . . how to show dimension, light and shadow . . . how to use line and color to portray moods of sadness, joy, speed, languor, youth, age, day, night, etc.

**LAVISHLY ILLUSTRATED • ORDER NOW!**  
\$3.95 Postfree • 10-day Money-back Guarantee  
**EMERSON BOOKS, Inc., Dept. 279-R**  
251 West 19 Street, New York 10011

## WRITERS

Sixth Printing

Enrich your style through Herbert Spencer's and Edgar Allan Poe's classic principles that have influenced many of the world's great authors. Indispensable for writers eager to get published! Send \$1.00 to

Pageant Press, Dept. SN  
101 5th Ave., New York 3

