

Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

ADDITIONS TO VIRGINIA MINERAL LOCALITIES—Richard V. Dietrich—*Virginia Polytechnic Institute, Bulletin, Engineering Experiment Station Series No. 105*, 31 p., paper, 25 cents. Historical listings not intended as a guide to where the collector can find good specimens.

ADVANCES IN CHEMICAL ENGINEERING: Volume I—Thomas B. Drew and John W. Hoopes Jr., Eds.—*Academic*, 448 p., illus., \$10.00. To provide the engineer with critical running summaries of recent work.

BLAKISTON'S NEW GOULD MEDICAL DICTIONARY: A Modern Comprehensive Dictionary of the Terms Used in All Branches of Medicine and Allied Sciences, Including Medical Physics and Chemistry, Dentistry, Pharmacy, Nursing, Veterinary Medicine, Zoology and Botany, as Well as Medicolegal Terms; With Illustrations and Tables—Normand L. Hoerr and Arthur Osol, Eds.—*McGraw-Hill*, 2d ed., 1463 p., illus., \$11.50. Including 12,000 new terms and 8,000 changes.

EDUCATORS GUIDE TO FREE FILMS—Mary Foley Horkheimer and John W. Diffor, Eds., with John Guy Fowlkes, Consultant—*Educators Progress Service*, 16th ed., 560 p., paper, \$6.00. Listing 3,453 titles of films, 766 of which were not listed in any previous edition.

ELECTRICAL INTERFERENCE—A. P. Hale—*Philosophical Library*, 122 p., illus., \$4.75. Reporting British experience in investigating some

140,000 complaints of interference with radio and television reception in a year.

EPILEPSY AND THE LAW: A Proposal for Legal Reform in the Light of Medical Progress—Roscoe L. Barrow and Howard D. Fabing—*Hoover-Harper*, 177 p., \$5.50. Of the approximately 1,500,000 epileptics in the United States, almost 80% can have their seizures satisfactorily controlled by proper medication, yet this may have little bearing on improving their social and economic opportunities.

THE FORD FOUNDATION ANNUAL REPORT 1954-1955—H. Rowan Gaither Jr., President—*Ford Foundation*, 170 p., illus., paper, free upon request direct to publisher, 477 Madison Ave., New York 22, N. Y. Telling how this institution "to advance human welfare" spent a total of \$875,000,000.

HANDBOOK OF SOUTH AMERICAN GEOLOGY: An Explanation of the Geologic Map of South America—William F. Jenks, Ed.—*Geological Society of America, Memoir 65*, 378 p., illus., \$5.50. The present structure of South America is mainly the result of the Andean movements that began in inter-Senonian time, continued through the Tertiary and persist even at present.

THE HARDINESS OF PLANTS—J. Levitt—*Academic, Agronomy, Vol. VI*, 278 p., illus., \$7.00. Intended for those conducting plant physiological studies and also for workers concerned with practical problems.

MAN, CULTURE, AND SOCIETY—Harry L. Shapiro, Ed.—*Oxford University Press*, 380 p., illus., \$7.50. Seventeen experts contribute a basic anthropology for the general reader and beginning students.

MEDICAL EFFECTS OF THE ATOMIC BOMB IN JAPAN—Ashley W. Oughterson and Shields Warren, Eds.—*McGraw-Hill*, 477 p., illus., \$8.00. An authoritative report.

ORGANIC CHEMISTRY—Louis F. Fieser and Mary Fieser—*Heath*, 3d ed., 1112 p., illus., \$9.00. New text edition of an established textbook. Also available in a trade edition from *Reinhold* at \$10.00. (See SNL, June 30, p. 411.)

PSYCHIATRY, THE PRESS AND THE PUBLIC: Problems in Communication—Wilfred Bloomberg, Chairman—*American Psychiatric Association*, 66 p., paper, \$1.00. How to make articulate psychiatry, which deals with some 700,000 mentally ill hospital patients and only about 10,000 psychiatrists.

PSYCHOLOGY OF PERSONALITY: Six Modern Approaches—J. L. McCary, Ed.—*Logos Press*, 383 p., \$6.75.—The six different approaches are presented by leaders in their own fields. They are brought together and harmonized as the sixth approach.

REPORT OF THE SPECIAL COMMITTEE ON THE FEDERAL LOYALTY-SECURITY PROGRAM OF THE ASSOCIATION OF THE BAR OF THE CITY OF NEW YORK—Dudley B. Bonsal, Chairman—*Dodd, Mead*, 301 p., \$5.00. Recommendations to change what was a "crash" program to meet emergency conditions into a well-thought-out plan for the duration of the cold war.

Science News Letter, July 28, 1956

The American coal industry, a union and the principal coal-hauling railroads have joined forces to acquire ships of their own and enter the export coal shipping business.

NUTRITION

Test Unbalanced Diet For Disease Fighting

► WHILE nutritionists now teach the importance of a balanced diet for good health, doctors may in some future time be using an unbalanced diet to fight disease.

This possibility appears from a discovery by scientists at the University of Wisconsin, Madison, Wis.

An unbalanced diet of normal nutrients, they found, will check diseased tissue in plants. Whether it will work for diseased tissue in animals, such as cancer, or for treating diseased growth remains to be learned.

The studies were made by Drs. A. J. Riker, A. C. Hildebrandt, W. H. Muir, R. W. Scott and R. H. Burris.

The findings are announced by the American Cancer Society which supports the research.

Science News Letter, July 28, 1956

BIOPHYSICS

World's Largest X-ray Synchrotron in Operation

► THE LARGEST X-RAY machine in the world designed for regular cancer treatment is now in operation at the University of California Medical School in San Francisco.

The giant, 70-million-electron-volt synchrotron will soon be used to treat a few selected patients regularly.

Major aim of using the powerful X-ray is that higher dosage can be delivered to tumors without damaging intervening tissue, especially to deep-seated cancers.

Financed by the Atomic Energy Commission, the machine was used on humans only after five years of development and animal studies. Results cannot be determined for several years.

The program is under the direction of Dr. Robert S. Stone, and the machine is operated under Gail D. Adams, physicist. General Electric Company built the synchrotron.

Science News Letter, July 28, 1956


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