

• Books of the Week •

ALL AROUND US—Wilbur L. Beauchamp, Gertrude Crampton, William S. Gray—*Scott*, 80 p., illus., \$1.08. For use in Grade Two; presents the fundamental concepts of natural science through pictures. Teachers' edition contains many suggestions.

THE AMERICAN EPHEMERIS AND NAUTICAL ALMANAC: for the year 1947—U. S. Naval Observatory—*Government Printing Office*, 630 p., \$2.

ANNUAL REPORT OF THE SMITHSONIAN INSTITUTION: 1944—*Government Printing Office*, 503 p., charts, illus., \$1.50. Operations and expenditures of the Institution and papers on astronomy, industrial sciences, medicine, etc.

A BIBLIOGRAPHY AND SHORT BIOGRAPHICAL SKETCH OF WILLIAM HEALY DALL—Paul Bartsch, Harald Alfred Rehder, Beulah E. Shields—*Smithsonian Institution*, 96 p., plate, 45 cents. Smithsonian Miscellaneous Collections, Vol. 104, No. 15.

BIRDS OF THE WHITE-FULLER EXPEDITION TO KENYA, EAST AFRICA—Harry C. Oberholser—*Cleveland Museum of Natural History*, 122 p., illus., \$1. Scientific Publications of the Cleveland Museum of Natural History, Vol. IV, No. 3.

THE BIRTH AND DEATH OF THE SUN—George Gamow—*Penguin*, 219 p., diags. and illus., 25 cents. The intricacies of physics and atomic energy handled with simplicity and clarity; this edition contains a new preface and a special appendix on the atomic bomb.

THE CHALLENGE OF RED CHINA—Gunter Stein—*McGraw*, 490 p., illus., \$3.50. An analysis of the aims, problems and achievements of the Communists in China and of

the attempts of the U. S. to coordinate relations between the two Chinas.

CLINICAL ELECTROCARDIOGRAPHY—David Scherf and Linn J. Boyd—*Lippincott*, 267 p., illus., \$8. 2nd ed. In this revised edition the essential features of electrocardiography are presented for the reader unacquainted with the field.

DEMOCRATIC EDUCATION—Benjamin Fine—*Crowell*, 251 p., \$2.50. A report on the fundamental controversy between "aristocratic" education based on the classics, and "democratic" education dealing with contemporary problems; and a plea that colleges teach students to meet practical social problems.

DICTIONARY OF FOREIGN TRADE—Frank Henius—*Prentice-Hall*, 745 p., illus., \$10. Concise definitions of foreign trade terms and a detailed explanation of foreign trade practices and procedures.

THE DINOSAUR BOOK: The Ruling Reptiles and Their Relatives—Edwin H. Colbert—*American Museum of Natural History*, 156 p., illus., \$2.50. A popular book on the fossil amphibians and reptiles, with particular attention given to the dinosaurs.

THE GOVERNING BOARD OF THE HOSPITAL—*American Hospital Assn.*, 29 p., 20 cents. Discussion of the term of office, organization, responsibilities and training of the governing body of the hospital.

HIGH VACUUM FOR INDUSTRY—*National Research Corp.*, 24 p., charts and illus., free. The methods and accomplishments of Vacuum Engineering Division of National Research Corp. in making high vacuum apparatus available for commercial application.

HOW DO WE KNOW?—Wilbur L. Beauchamp, Gertrude Crampton, William S.

Gray—*Scott*, 96 p., illus., \$1.24. For use in Grade Three in a picture-method primary science program which includes the study of animals, land and water, plants, wheels and levers. Teachers' edition contains many suggestions.

INSECT DIETARY: An Account of the Food Habits of Insects—Charles T. Brues—*Harvard Univ. Press*, 466 p., illus., \$5. The diverse relations of insects to their environment through the medium of their food, the devious ways in which they have exploited the living world in their search for food, and how these activities have guided their evolution.

LONGLEAF PINE—W. G. Wahlenberg—*Charles Labrop Pack Forestry Foundation*, 429 p., charts and illus., \$5. The use, ecology, regeneration, protection, growth, and management of longleaf pine.

MANUAL OF HOT-MIX ASPHALTIC CONCRETE—*Asphalt Institute*, 111 p., charts and diags., free. Recommended thickness requirements, methods of testing mixtures, and inspection.

MEASURING THE COMMUNITY FOR A HOSPITAL—*American Hospital Assn.*, 39 p., 25 cents. How to estimate the size of hospital required, and how to plan the building and organization.

MEET THE U. S. A.: Handbook for Foreign Students in the United States—Ching-Kun Yang—*Institute of International Education*, 184 p., illus., 50 cents. Descriptions of the political, economic, social, cultural and industrial phases of American life and detailed information about American colleges and universities.

MEMORANDUM ON THE POSTWAR INTERNATIONAL INFORMATION PROGRAM OF THE UNITED STATES—Dr. Arthur W. Macmahon—*Department of State*, 135 p., 30 cents.


NEW WESTVILLE, PREBLE COUNTY, OHIO. METEORITE—E. P. Henderson and S. H. Perry—*Smithsonian Institution*, 9 p., plates, 15 cents. Smithsonian Miscellaneous Collections, Vol. 104, No. 17.

ORGANIZATION OF THE MEDICAL STAFF OF THE HOSPITAL—*American Hospital Assn.*, 46 p., 20 cents. Discussions of the active staff; the visiting staff, or those who are privileged to use the professional facilities of the hospital; and the consulting staff.

PATTERNS OF CULTURE—Ruth Benedict—*Pelican*, 272 p., 25 cents. By showing that human cultures represent a whole range of integrated patterns of behavior that shape our actions, the author sweeps aside a mass of prejudices and puts in a new light the dilemma of the individual and society.

THE PEOPLES OF THE SOVIET UNION—Corliss Lamont—*Harcourt*, 229 p., illus. and maps, \$3. A description of the nations that make up the Soviet Union, and an explanation of the way in which racial and cultural democracy has been achieved in the U.S.S.R.

REPORT OF THE COMMITTEE ON MARINE ECOLOGY AS RELATED TO PALEONTOLOGY: 1944-1945 — *National Research Council*, 56 p., diags., 50 cents. Activities of the committee and papers in specialized fields.

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STATE PROGRAMS FOR THE IMPROVEMENT OF TEACHER EDUCATION—Charles E. Prall—*American Council on Education*, 379 p., \$3. Statewide studies carried out by the Commission on Teacher Education in Alabama, Florida, Georgia, Kentucky, Michigan, up-state New York, West Virginia.

TWENTIETH CENTURY PSYCHOLOGY—Philip Lawrence Harriman, Ed.—*Philosophical Library*, 712 p., charts, \$6. Representative essays from the fields of psychological theory, social psychology, animal behavior, abnormal phenomena, and reports of research inquiries.

UNWRITTEN TREATY—James P. Warburg—*Harcourt*, 186 p., \$2. A concrete proposal for the elimination of psychological warfare and for the organization of worldwide freedom of information; an analysis of the Axis propaganda techniques and of the Allied psychological counterattack.

YOU AND THE UNIVERSE—John J. O'Neill—*Ives Washburn*, 328 p., \$3.50. The current developments in every field of science from astronomy to zoology; a panoramic view of ourselves and our changing environment as revealed in the light of science today.

Science News Letter, February 16, 1946

Molecules in natural gasoline are like strings of beads, while those in aviation gasoline suggest bunches of grapes.

Studies with the *ultramicroscope* reveal that filtrable viruses are crystallizable proteins.

Ripe oranges, too green in color to please the eye, are dyed with synthetic or vegetable coloring to give the popular yellow appearance.

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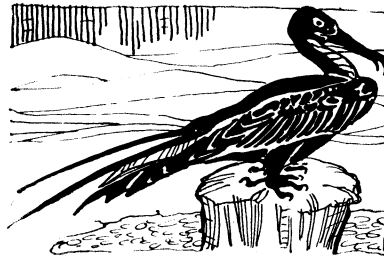
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Winds of Hunger

► **DISASTER MENACES** the millions of cormorants, gulls, pelicans and boobies that are the living foundation of Peru's guano industry, on a group of rocky, arid islands off the coast, declares William Vogt, chief of the Pan American Union's conservation section.

Guano is formed in great quantities on the nesting grounds of these fish-eating sea birds. Every day they fly out to sea to feed, and to bring supplies home to their young. The radius of their feeding flights is limited by their flying speed and the number of daylight hours.

Normally there are plenty of fish, mainly anchovies, within this radius, for the cold, food-rich Humboldt current hugs the shore closely. About one year in seven, however, long-period changes in the prevailing winds cause this current to shift farther out to sea, taking the swarming fish-life with it. The parent birds, to insure their own survival, have to shift with it; and this means leaving the young to starve. This brings about a failure of the guano crop, which in turn causes hardship in the guano-dependent Peruvian agricultural economy.

This is the seventh year since the last seaward shift of the fish that are the raw material for guano, and already signs of trouble are appearing. On some of the islands, bird flocks are reported starting a second nesting period. This Mr. Vogt interprets as meaning that the fishing has turned bad off some of the other islands, and that the birds have deserted their nests there and are trying again on islands nearer to the shifted fishing waters.

Science News Letter, February 16, 1946

Very thin sheets of *gold* may be crimson or purple in transmitted light.



Atomic energy for human healing

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ERNEST O. LAWRENCE;
and IRVING LANGMUIR

With an introduction by J. R. DUNNING, in charge of the Atomic Energy Project at Columbia University.

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