

# • Books of the Week •

**CORNELL CONFERENCES ON THERAPY:** Volume One—Harry Gold, M.D., David P. Barr, M.D., Eugene F. DuBois, M.D., McKeen Cattell, M.D., Charles H. Wheeler, M.D., editors—*Macmillan*, 322 p., \$3.25. Round table discussions held at Cornell University between members of the Departments of Medicine and Pharmacology; Chapter headings include "The RH Factor in Therapy", "Psychological Aspects of the Treatment of Pain", "Treatment of Heart Failure", etc.

**ECONOMICS OF THE POTASH INDUSTRY**—Jules Backman—*American Potash Institute*, 55 p., tables and maps, free.

**THE HOME DEMONSTRATION AGENT**—*Government Printing Office*. 38 p., illus., paper, 15 cents. The work of the county home demonstration agent among rural families. U. S. Department of Agriculture, Miscellaneous Publication No. 602.

**IF YOU WANT TO BUILD A HOUSE**—Elizabeth B. Mock—*Museum of Modern Art*, 96 p., illus., \$2. A photographic survey of modern architecture with a simply written analysis of problems in home planning, designing and construction.

**LABORATORY MANUAL OF ORGANIC MEDICINAL PRODUCTS**—Walter H. Hartung, W. T. Sumerford, and Melvin F. W. Dunker—*Univ. of Georgia Press*, 102 p., diags., paper, \$2.25. Directions for carrying out laboratory exercises dealing with the chemistry of organic medicinal products and the related compounds. Designed for the student who is familiar with the fundamentals of inorganic and organic chemistry.

**MANUAL OF CHILD PSYCHOLOGY**—Leonard Carmichael, ed.—*Wiley*, 1068 p., tables and illus., \$6. An advance level textbook, presenting a series of separate chapters,

each written by a recognized authority, the purpose of which is to provide an accurate and coherent picture of some of the most important aspects of research in the scientific psychology of human development.

**1946 MODERN PLASTICS ENCYCLOPEDIA**—*Plastics Catalogue Corp.*, 1389 p., tables and illus., \$6. More than 135 separate chapters covering different phases of plastics manufacture, properties and use. The book is written in plain non-technical language, and can be used by the layman and the engineer, the businessman and the designer, the student and the member of the plastics field.

**PERSONAL HYGIENE APPLIED**—Jesse Feiring Williams, M.D.—*Saunders*, 564 p., tables and illus., \$2.50, 8th ed. textbook for students beginning their college careers. A revised edition containing new material on fitness and exercise, posture, nutrition, dental caries, etc.

**PHYSICAL CHEMISTRY FOR PREMEDICAL STUDENTS**—John Page Amsden—*McGraw*, 298 p., diags. and tables, \$3.50. A textbook written especially for a one-semester course for premedical students, including only those portions of elementary physical chemistry which will be of value to the medical student in his later professional work.

**PILING AND ITS EFFECT ON DRYING IN NATURAL CIRCULATION KILNS**—Roy M. Carter—*Northeastern Forest Experiment Station*, 8 p., illus., free. Forest Products Paper No. 2.

**POPULATION AND PEACE IN THE PACIFIC**—Warren S. Thompson—*Univ. of Chicago Press*, 397 p., tables and maps, \$3.75. An analysis of the raw-material resources, agriculture industrial production, and economic future of each of the vast regions composing the Pacific world: Australia and New Zealand, Oceania, Indonesia, Manchoukuo, China, India, and Japan.

**PRINCIPLES OF DESIGN THAT AFFECT THE OPERATION OF A NATURAL CIRCULATION KILN**—Roy M. Carter—*Northeastern Forest Experiment Station*, 8 p., illus., free. Forest Products Paper No. 3.

**SCIENTIFIC, MEDICAL, AND TECHNICAL BOOKS:** Published in the United States of America 1930-1944—R. R. Hawkins, ed.—*Bowker*, 1114 p., \$20. A selected list of titles in print with annotations. The selections on a given subject represent those volumes that should be available in a well-stocked American library specializing in that subject. Copies are distributed in Latin America by the Office of International Information and Cultural Affairs of the State Department and in Europe by the U. S. International Book Association.

**STATISTICAL THERMODYNAMICS**—Erwin Schrödinger—*Cambridge Univ. Press*, 88 p., \$1.50. A course of seminar lectures delivered in January-March 1944, at the School of Theoretical Physics, Dublin Institute for Advanced Studies.

**TREATMENT OF ARTHRITIS AND RHEUMATISM IN GENERAL PRACTICE:** Particularly in Women—Bernard Aschner, M.D.—*Froben*, 340 p., \$5. A different approach

to the problem, which may be questioned by other physicians.

**WHAT'S AHEAD FOR ME:** My Occupation, My Marriage, My Education—Archie J. Baum—*Hogg Foundation*, 29 p., paper, 25 cents. Suggestions aimed at helping the college freshman plan his own future in three areas of student choice; Dr. Bahm gives sources of information regarding each area.

*Science News Letter. May 18, 1946*

## ENTOMOLOGY

### Wigglers in Warm Water Die Sooner with DDT

➤ **INSECT LIFE** and death are influenced by the rise and fall of the thermometer quite as much as our own—even more so, since insects are cold-blooded animals and respond to temperature changes more readily than we do. Two striking examples of this fact were brought out in the meeting of the Entomological Society of America by two University of Minnesota researchers, Dr. Hsing-Yun Fan and Dr. A. C. Hodson.

Chinese-born Dr. Fan tried the effects of different temperatures on the effectiveness of DDT against the larvae, or "wig-

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glers", of several different species of mosquitoes, among them the dreaded *Aedes aegypti*, carrier of yellow fever. He kept batches of the larvae in chilly water for a time, then warmed it up to summer temperature, at the same time adding DDT in the proportion of one part of the poison to ten million parts of water. In general, the warmer he made the water, the deadlier was the effect of DDT at that concentration.

Dr. Hodson found that the eggs of the all-too-common pest, the tent caterpillar, will not complete development and hatch until they have been given a thorough winter chilling. In this they are like the buds and bulbs of many plants, which also must be nearly frozen before they will sprout.

The moth of the tent caterpillar lays its eggs in high summer, Dr. Hodson stated. An embryo caterpillar starts to develop inside the egg, but at the end of three weeks it stops and becomes dormant, and only when the weather warms up in the following spring does it wake up, complete growth, and come out of the shell. Eggs brought into the laboratory and kept at summer temperature never hatch. But if they are kept near freezing-point for several months and then warmed up, they hatch readily.

Microscopic examination of the insides of the unhatched caterpillars showed that they contained part of the stock of food originally in the egg's yolk. As they warm up and start growing again, this gets used up—and then the little pests finally hatch and get to work on leaves. Dr. Hodson said that it has been suggested that the caterpillars hatch because they get hungry when the original food-stock is used up.

*Science News Letter, May 18, 1946*

## GEOLOGY

## Big Beds of Bauxite In Northwest Oregon

➤ ALUMINUM-PRODUCING plants in the Pacific Northwest, powered by the great, recently-built hydroelectric installations, may before long be getting their ore from nearby sources. Great deposits of bauxite in northwestern Oregon are described in *Economic Geology* (May), by F. W. Libbey, W. D. Lowry and R. S. Mason of the Oregon State Department of Geology and Mineral Resources.

The beds, which are mostly horizontal, vary from six to 20 or more feet in thickness. The overburden is silt, from one to 50 feet thick; strip mining is therefore practicable.

In addition to the bauxite, from which

aluminum is extracted, the ore contains iron and some titanium dioxide, either or both of which may prove economically valuable. This iron-containing bauxite cannot be treated economically by the process now used for aluminum production in this country, but there is a Norwegian process which is believed to be feasible for working it.

The Aluminum Company of America is now exploring the deposits and conducting metallurgical tests on the ore.

*Science News Letter, May 18, 1946*

## CRYSTALLOGRAPHY

## Hailstones Frozen Slowly X-ray Examinations Show

➤ X-RAYS turned on hailstones produced evidence that these icy pellets are not frozen in a hurry, but slowly, Kathleen Lonsdale and P. G. Owston of the Royal Institution report. (*Nature*, April 13). The diffraction pattern of the rays after passing through sections of the hailstones indicated that the ice was in large, solid crystals.

"Good single crystals of ice can be grown in cold weather within an hour or two," the researchers comment, "but an abrupt cooling of water, say, by a freezing mixture or by liquid air, results in the formation of a coarse powder.

Our experiments show, therefore, that the hailstones were probably formed by a relatively slow fall of temperature in the air through which they passed."

*Science News Letter, May 18, 1946*

## INVENTION

## Ten Tons of Nazi Patents Being Sorted Here

➤ TEN TONS of Germany's best scientific and industrial know-how is being sorted out for American use.

Seized by the United States Army in Germany, 146 packing cases that contain 10 tons of documents from the German Patent Office have been brought over for evaluation. The job of picking out the material most important to American industry and science has been assigned the Office of the Publication Board of the Department of Commerce and the United States Patent Office.

When the documents have been checked, the most useful will be published. The rest of the cache will be returned to Germany to help reestablish the German Patent Office, it was announced.

*Science News Letter, May 18, 1946*

Mexico is planning to produce its own *quinine*.

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