

• First Glances at New Books

Additional Reviews
On Page 160

ZOOLOGY

ANIMALS IN ACTION—Gayle Pickwell—*Whittlesey House*, 190 p., 68 plates, \$4. Those who are already acquainted with Gayle Pickwell's three books, *Weather*, *Deserts*, and *Birds*, will know what a treat awaits them here. Those who have not yet had the good fortune to know them have a surprise as well as a treat in store. While it is probably true that the majority of Pickwell's followers were attracted first by his superb photographic illustrations, there is nevertheless much sound meat in the accompanying text.

Science News Letter, September 7, 1940

ZOOLOGY

ANIMALS NOBODY KNOWS—Ivan T. Sanderson—*Viking*, 77 p., illus., \$2. Do you know what a pichiciago is? a hemigale? a gerenuk? a three-toed echidna? a pig-footed bandicoot? These and a lot of other wholly incredible mammals are described and beautifully figured (with full-page illustrations) in a book that will be a delight to anyone even a little interested in natural history.

Science News Letter, September 7, 1940

BIOLOGY

ADAPTIVE COLORATION IN ANIMALS—Hugh B. Cott—*Oxford Univ.*, 508 p., 48 plates, 84 text illus., \$8.50. Ever since Darwin, special attention has been focussed on the often astonishing resemblance between animals and leaves, twigs, bark and other objects, with a great deal of "learned argument, about it and about." Here, a Cambridge University zoologist presents his doctrine, in text and illustration, with a thoroughness worthy of Darwin himself.

Science News Letter, September 7, 1940

NATURAL HISTORY

EXPLORING THE EARTH AND ITS LIFE IN A NATURAL HISTORY MUSEUM (rev. ed.)—James Lindsay McCreery—*Stokes*, 312 p., illus., \$2.50. Museums are intended to interpret the earth and its life; but they have become so bewilderingly huge and complex that they are themselves in need of interpretation. It is well that this book is kept abreast of museum progress.

Science News Letter, September 7, 1940

HORTICULTURE

TEXTBOOK OF GENERAL HORTICULTURE—Julian Claude Schilleter and Harry Wyatt Richey—*McGraw-Hill*, 367 p., illus., \$3. A new college textbook in horticulture, not too bulky yet complete

and comprehensive. Small-scale as well as large-scale enterprises receive due attention, and the relation of horticulture to soil, climate and other ecological factors seems distinctly promising from the teacher's point of view.

Science News Letter, September 7, 1940

HORTICULTURE

THE GARDEN CLINIC; Care and Cultivation of Garden Favorites—Laurence Blair—*Macmillan*, 144 p., illus., \$2. How to make a garden, and (what is more important still) what to do when things go wrong. Numerous double-page layouts of annotated illustrations, giving condensed information about ornamentals, their treatment and cultivation, their ailments and enemies, constitute a unique and valuable feature.

Science News Letter, September 7, 1940

TECHNOLOGY

TRANSACTIONS OF THE AMERICAN INSTITUTE OF MINING AND METALLURGICAL ENGINEERS, Vol. 136; Petroleum Development and Technology, 1940—*Amer. Inst. of Mining and Metallurgical Engineers*, 608 p., illus., tables, \$5. This volume, the fifteenth of the Petroleum Development and Technology series of the Petroleum Division of the A. I. M. M. E., contains papers presented before recent meetings of the division. The five chapters are devoted to Production Engineering, Engineering Research, Petroleum Economics, Foreign and Domestic Production and Refining.

Science News Letter, September 7, 1940

TECHNOLOGY

CHAMBERS'S TECHNICAL DICTIONARY—C. F. Tweney and L. E. C. Hughes, eds.—*Macmillan*, 957 p., \$5. In the preface it is stated that this "is a dictionary of technical terms, written by specialists, partly for other specialists but more particularly for the technically minded man-in-the-street, and for students and interested workers of all kinds and ages: indeed, for all who wish to understand what scientists and engineers have to say to each other." This aim seems to be well-fulfilled.

Science News Letter, September 7, 1940

GENERAL SCIENCE

TOMORROW'S HORIZONS, A Diagnostic Reading Improvement Program, Book B—Lydia A. Thomas and Daisy Grenzow—*American Education Press*, 96 p., 36c.

Science News Letter, September 7, 1940

GEOLOGY

THE ROCK BOOK—Carroll Lane Fenton and Mildred Adams Fenton—*Doubleday, Doran*, 357 p., illus., \$6. A well written, superbly illustrated book about minerals and rocks, with the geological background needed to make mineralogy and petrology really understandable. (See also page 155.)

Science News Letter, September 7, 1940

GEOGRAPHY—HISTORY

THE PACIFIC OCEAN—Felix Riesenberg—*Whittlesey House*, 322 p., illus., \$3. Episodes in the history of the Pacific Ocean, from Magellan and Drake to the opening of Japan and the settlement of Alaska. This book will make especially interesting reading at the present time, when history is apparently ripe for another period of rapid development in the Pacific area.

Science News Letter, September 7, 1940

NAVAL WARFARE

GERMAN SUBS IN YANKEE WATERS: FIRST WORLD WAR—Henry J. James, illus. by Charles E. Pont—*Gotham House*, 208 p., illus., \$3. Exploits of German submarines off the United States coast during the first World War, including the planting of mines one of which sank the cruiser *San Diego*.

Science News Letter, September 7, 1940

GENERAL SCIENCE

THE ADVANCEMENT OF SCIENCE, No. 4, July, 1940—*British Association for the Advancement of Science*, 113 p., 5 s. The record continued, of the Dundee meeting, interrupted by the beginning of the war.

Science News Letter, September 7, 1940

BIOLOGY

UNRESTING CELLS—R. W. Gerard—*Harper*, 439 p., \$3.75. (See page 147.)

Science News Letter, September 7, 1940

ECONOMICS

WHAT WILL INFLATION AND DEVALUATION MEAN TO YOU?—Donald G. Ferguson, Bion H. Francis and others—*Amer. Inst. for Economic Research*, 144 p., \$1. Intended for the layman.

Science News Letter, September 7, 1940

SOCIOLOGY

TRAFFIC IN OPIUM AND OTHER DANGEROUS DRUGS FOR THE YEAR ENDED DECEMBER, 1939—*Govt. Print. Off.*, 116 p., 20c. A report of the U. S. Bureau of Narcotics.

Science News Letter, September 7, 1940

• First Glances at New Books

Additional Reviews
On Page 159

RADIO

NATIONAL POLICY FOR RADIO BROADCASTING—C. B. Rose, Jr.—*Harper*, 289 p., \$3. In this study by a committee of the National Economic and Social Planning Association, the main aspects of the broadcasting problem are defined, including discussions of the technical and commercial structure, program content, freedom of the air, relations with the press, etc. Elements of a future national policy are suggested, one being that the networks, rather than individual stations, should be the basis of American broadcasting. "If radio broadcasting is to remain a private industry," it concludes, "it must be operated as a public trust."

Science News Letter, September 7, 1940

TELEVISION

TELEVISION BROADCASTING, Production, Economics, Technique—Lenox R. Lohr—*McGraw-Hill*, 274 p., \$3. By reading this interesting and carefully written book by the president of the Chicago Museum of Science and Industry and former president of the National Broadcasting Co., one can appreciate the many problems which, for some 13 years, have kept television from getting around that corner. Particularly of note is the complete script, with all cues, of a television play, Conan Doyle's "The Three Garridebs," as presented by the N. B. C.

Science News Letter, September 7, 1940

RADIO

FM, AN INTRODUCTION TO FREQUENCY MODULATION—John F. Rider—*Rider Publisher*, 136 p., illus., \$1. Soon the problems of the radio service man will be increased by the new sets that will come into use as frequency modulation spreads among the broadcasters. In this book he will find many of the answers.

Science News Letter, September 7, 1940

ENGINEERING

LESSONS IN ARC WELDING—*Lincoln Electric Co.*, 136 p., illus., 50c. In these 51 lessons are covered the elements of the arc welding process in a very practical manner. The book is used as the text at the Lincoln Arc Welding School, whose course of 120 hours is given in a four weeks term.

Science News Letter, September 7, 1940

AERONAUTICS

AIRPOWER—Al Williams—*Coward-McCann*, 433 p., \$3.50. An experienced flier, well known for his frank expression of opinion, here tells some of his

views concerning airpower as demonstrated in Europe, and how it affects the United States.

Science News Letter, September 7, 1940

AERONAUTICS

AMERICAN AVIATION DIRECTORY, Aviation Officials and Companies, U. S. and Canada (Vol. 1, No. 1)—Wayne W. Parrish, ed.; David Shawe, ass't. ed.—234 p., \$5 subscription (two editions); \$3 single copy. Including manufacturers of aircraft, parts, and equipment; air lines; organizations and schools, as well as government departments, this directory will surely prove of great value to anyone concerned with aviation. By issuing two editions per year, the publishers will be able to keep it up to date, in a rapidly developing field.

Science News Letter, September 7, 1940

ECONOMICS—WAR

M DAY AND WHAT IT MEANS TO YOU—Leo M. Cherne—*Simon and Schuster*, 103 p., \$1. Information on what will happen to individuals, businesses, etc. when and if war comes, provided it does not sneak up behind us as it seems to be doing; in which case the title might well be M Year.

Science News Letter, September 7, 1940

GENERAL SCIENCE

INVITATION TO EXPERIMENT—Ira M. Freeman—*Dutton*, 238 p., illus., \$2.50. A course in physics outside the classroom so simplified that the interested layman can read and do the tricks to bring him some understanding of the physical world.

Science News Letter, September 7, 1940

GENERAL SCIENCE

OUR WORLD CHANGES—Samuel Ralph Powers, Elsie Flint Neuner, Herbert Bascom Bruner and John Hodgdon Bradley—*Ginn*, 565 p., illus., \$1.52. Interesting, intelligent and comprehensive introduction to science and the world around us for grade eight use. Second in a series of three texts by the same authors, covering successive years.

Science News Letter, September 7, 1940

CHEMISTRY

AN INTRODUCTION TO ORGANIC CHEMISTRY (2d ed.)—Ira D. Garard—*Wiley*, 389 p., \$3. The first edition of this excellent text for a one semester introductory course was issued in 1932. In bringing out the second, Dr. Garard has been able to include new material, and, in some cases, to simplify the procedure.

Science News Letter, September 7, 1940

PHYSICS

WHAT MAKES THE WHEELS GO ROUND; A First-time Physics—Edward G. Huey—*Reynal and Hitchcock*, 175 p., illus., \$2.50. To the elementary school child, of ten or eleven years, this book should be a most fascinating introduction to physical science. The author has tested it in his own classes at the Calvert School in Baltimore, but it will also be of interest to scientifically-minded youngsters to read outside of their classes.

Science News Letter, September 7, 1940

HOBBIES

MAKING MODELS OF FAMOUS SHIPS—Ray J. Marran—*Appleton-Century*, 151 p., illus., \$2. A book to delight boys and their elders who are handy with scroll-saw and pocket knife and who have a longing for things of the sea.

Science News Letter, September 7, 1940

ANTHROPOLOGY—JUVENILE

LITTLE JUNGLE VILLAGE—JoBesse McElveen Waldeck; Illus. by Katharina von Dombrowski—*Viking Press*, 176 p., illus., \$2. Adventures of two little Indians, an eleven-year-old boy and his sister aged nine, who left their village to start a village of their own in the South American jungle. The youthful pioneers meet jungle problems with Tarzan's courage and resourcefulness.

Science News Letter, September 7, 1940

ANTHROPOLOGY

PASCUA, A YAQUI VILLAGE IN ARIZONA—Edward H. Spicer—*Univ. of Chicago*, 319 p., illus., maps, \$3.50. Analyzes patterns of life in a village which joins modern economic conditions—such as cotton-picking jobs—with the ceremonial system of Indian forefathers. Dr. Spicer spent a year at this village on the outskirts of Tucson, to study, as in a laboratory, social changes in progress.

Science News Letter, September 7, 1940

AGRICULTURE

AN EMPIRE OF DUST—Lawrence Svobida—*Caxton Printers*, 203 p., illus., \$3. The author relates his own personal experiences as a wheat farmer during the Years of Dust. He concludes: "My own humble opinion is that, with the exception of a few favored localities, the whole Great Plains region is already a desert that cannot be reclaimed through the plans and labors of man."

Science News Letter, September 7, 1940