

•First Glances at New Books

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BIOGRAPHY

"NOBLE FELLOW"; WILLIAM STARLING SULLIVANT—Andrew Denny Rodgers III—*Putnam*, 361 p., illus., \$3.50. Perhaps because he was interested particularly in mosses rather than birds, Sullivant has not received the popular attention that has been showered of late upon Audubon. Yet he merits high recognition (and indeed has it from botanists at least) as this country's great pioneer in the study of a class of plants of much greater ecological importance than their humble stature might at first suggest. The author has done full justice to his subject, in a thoroughly documented, well illustrated work that must have required no end of painstaking research.

Science News Letter, June 14, 1941

MEDICINE—BIBLIOGRAPHY

PEDIATRIC BIBLIOGRAPHY—A. Graeme Mitchell—*Society for Research in Child Development, Natl. Research Council*, 119 p., 75c. (Monographs of the Society for Research in Child Development, Vol. VI, No. 1, Serial No. 27)

Science News Letter, June 14, 1941

ORNITHOLOGY

BIRD HOUSES, BATHS AND FEEDING SHELTERS, How to Make and Where to Place Them (3d ed.)—Edmund J. Sawyer—*Cranbrook Inst. of Science*, 35 p., diagrams, 20c. It is to be hoped that the Cranbrook Institute will never permit this useful little publication to go out of print.

Science News Letter, June 14, 1941

SPORTS

THE WOMEN'S DIVISION, NATIONAL AMATEUR ATHLETIC FEDERATION—Alice Allene Sefton—*Stanford Univ. Press*, 88 p., \$2. Sixteen years of progress in athletics for girls and women, 1923-1939.

Science News Letter, June 14, 1941

MEDICINE

HOSPITAL FORMULARY AND COMPENDIUM OF USEFUL INFORMATION—*Univ. of California Press*, 270 p., \$2.

Science News Letter, June 14, 1941

GEOGRAPHY—JUVENILE

LETTERS FROM GUATEMALA — Delia Goetz, 56 p.; KIMBI, INDIAN OF THE JUNGLE—Henry Lionel Williams, 47 p.; AROUND THE CARIBBEAN—Nora Burglon, Thelma Glazer and E. Mark Phillips, 48 p.; EXPLORING THE JUNGLE—JoBesse McElveen Waldeck, 56 p.; THE GAUCHO'S DAUGHTER—Katherine G. Pollock,

56 p.; RICHES OF SOUTH AMERICA—V. Wolfgang von Hagen, 56 p.; BOYS OF THE ANDES—Alice Desmond, Alida Malkus and Ednah Wood, 56 p.; ALONG THE INCA HIGHWAY—Alida Malkus, 56 p., *Heath*, illus., 32c. each. Befitting the growing interest in Latin American neighbors, here is a series of school readers, listed in order of difficulty, acquainting the pupil with countries, customs, human types, and products of the New World. Young America may even try its tongue on Spanish words, for some of the books introduce a few and have a couple of pages of glossary with pronunciations at the back.

Science News Letter, June 14, 1941

TECHNOLOGY—DIRECTORY

INDUSTRIAL RESEARCH LABORATORIES OF THE UNITED STATES INCLUDING CONSULTING RESEARCH LABORATORIES (7th ed.)—Callie Hull, comp.—*National Research Council*, 372 p., \$3.50. Increasingly important in these days of national defense, the seventh edition of this directory is being published somewhat earlier than usual, concurrently with a survey of research in industry undertaken by the National Research Council (*Research—A National Resource. II. Industrial Research*). Four indexes are included: subject of research, geographical distribution, personnel mentioned in the directory, and serial publications of the laboratories listed.

Science News Letter, June 14, 1941

HORTICULTURE

HORTUS SECOND, A Concise Dictionary of Gardening, General Horticulture and Cultivated Plants in North America (rev. ed.)—L. H. Bailey and Ethel Zoe Bailey, comp.—*Macmillan*, 778 p., \$12. A new and thoroughly revised edition of the Baileys' famous garden dictionary. For the serious gardener who cannot get the three-volume *Cyclopedia of Horticulture*, this one-volume condensation is a "must".

Science News Letter, June 14, 1941

TECHNOLOGY

RUBBER AND ITS USE—Harry L. Fisher—*Chemical Pub. Co.*, 128 p., illus., \$2.25. With the present increasingly great importance of rubber as a strategic material, this little book by a man who has had long experience with rubber as a research chemist is particularly timely. Synthetic as well as natural rubbers are discussed.

Science News Letter, June 14, 1941

AERONAUTICS

WINGED WARFARE—H. H. Arnold and Ira C. Eaker—*Harper*, 265 p., illus., \$3. With aerial warfare now looming so important abroad and at home as well, this book comes at a particularly opportune time. General Arnold is the chief of the U. S. Army Air Corps, while Col. Eaker commands the 20th Fighter Group of the G. H. Q. Air Force; so they speak with the highest authority. All phases of the problem are discussed, in a clear and interesting manner, and one chapter presages the fighting plane of tomorrow in telling of aviation development and research. They forecast smaller and faster fighters than those of today with speeds of 450 miles per hour and even more. The 40,000 pound flying fortress, it is predicted, will grow into a giant of 200,000 pounds with an operating range of 5,000 miles.

Science News Letter, June 14, 1941

AERONAUTICS

INSTRUMENT FLYING—P. V. H. Weems and Charles A. Zweng—*Weems System of Navigation*, 321 p., illus., \$4. Two leading authorities on air navigation have here produced a book which should prove of immense value to the thousands who are learning to fly, covering, as it does, the operation of principal instruments, use of federal aids to air navigation, such as the radio beacons, meteorological elements, Civil Air Regulations, etc. In an appendix are given typical questions in subjects on which the pilot is examined, together with answers. The book is based on "Instrument Flying" by Howard Stark, which went out of date following his death in 1936.

Science News Letter, June 14, 1941

BOTANY

PLANT ECOLOGY (3rd ed.)—W. B. McDougall—*Lea & Febiger*, 285 p., illus., \$3. A new edition of a well-known college text.

Science News Letter, June 14, 1941

HORTICULTURE

SCIENCE IN THE GARDEN—H. Britton Logan and Jeane-Marie Putnam—*Duell, Sloan and Pearce*, 265 p., \$2.50. An unusual garden book, in that it not only tells you what to do but explains why you do it. Some interesting experiments are outlined, in such things as effects of light, use of vitamin B₁, and soilless gardening.

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HUMOR

OLD BILL & SON—Bruce Bairnsfather and Ian Dalrymple—*McKay*, 269 p., illus., \$2. Bairnsfather's immortal walrus-faced veteran manages to wangle himself back into uniform and is off to the wars again, this time trailing behind a somewhat bumptious offspring who (despite his sire's grumbling doubts) will probably make a pretty good soldier.

Science News Letter, June 14, 1941

BIOLOGY

PROTOZOA IN BIOLOGICAL RESEARCH—Gary N. Calkins and Francis M. Summers, eds.—*Columbia Univ. Press*, 1148 p., illus., \$10. This symposium, by a group of this country's leading protozoologists, should do a great deal to stimulate and guide further research in a fascinating and highly important subject. Emphasis is placed mainly on the reactions and physiology of protozoa, although anatomical phases are not neglected. A useful feature is the bibliography appended to each section.

Science News Letter, June 14, 1941

AERONAUTICS

CIVIL AIR DEFENSE—Augustin M. Prentiss—*Whittlesey House*, 334 p., \$2.75. Everyone hopes that the suggestions of Col. Prentiss will not be needed in this country, for if they are, it may then be too late to apply them. Detailed instructions are given, based largely on British practice.

Science News Letter, June 14, 1941

MILITARY SCIENCE—AERONAUTICS

FIRST BLOOD FOR THE R. A. F.—Charles Gardner—*McKay*, 272 p., illus., \$2.50. An English book which tells of the gallant work of the Advanced Air Striking Force of the R. A. F. in France in the days before Dunkirk.

Science News Letter, June 14, 1941

AERONAUTICS

SO YOU'RE GOING TO FLY—James L. H. Peck—*Dodd, Mead*, 240 p., illus., \$2.50. The boy, girl, or adult, who looks longingly in the air when a plane passes will enjoy this account of aviation training from the early instruction and first flight to modern aerial warfare.

Science News Letter, June 14, 1941

SOCIAL SCIENCE

SOCIAL SCIENCE PRINCIPLES IN THE LIGHT OF SCIENTIFIC METHOD WITH PARTICULAR APPLICATION TO MODERN ECONOMIC THOUGHT—Joseph Mayer—*Duke*

Univ. Press, 573 p., \$4. This is a comprehensive treatment of what is called broadly "social science" with particular emphasis upon its relations to the so-called "natural" sciences and mathematics. The opening section considers scientific method in relation to social study, particularly whether the techniques so successful in physics, chemistry, biology, medicine, etc., can be applied to economics, political science, sociology, etc. Other sections consider cost and utility theory, value concepts, economic fundamentals, and conclusions that can be drawn applicable to present conditions.

Science News Letter, June 14, 1941

MARINE BIOLOGY

EL MAR ACUARIO DEL MUNDO—Enrique Rioja—*Estela, Editorial Seneca, Varsovia 35 A, Mexico City*, 405 p., Paper, \$2.10; Cloth, \$2.50. An excellent account of sea life done for the layman and in the style of the early naturalists who found nature romantic. In Spanish.

Science News Letter, June 14, 1941

HISTORY

A NEW DOCTRINE FOR THE AMERICAS—Charles Wertenbaker—*Viking Press*, 211 p., \$2. A review by the foreign news editor of Time Magazine of the events which have led to the good neighbor policy and the way it has been given practical form during the past few years. It gives a clear exposition of the problems plaguing the American nations in their relations with each other.

Science News Letter, June 14, 1941

EDUCATION

THE AMERICAN CITIZENS HANDBOOK—Arranged by Joy Elmer Morgan—*Natl. Education Ass'n*, 366 p., illus., \$1. Two and one-half million young men and women in the United States reach voting age each year. This book is dedicated to them. Contained in it are essential facts about citizenship, patriotic poetry and song, great American personalities, famous documents and addresses, and useful information that everyone should know. This is a National Education Association activity.

Science News Letter, June 14, 1941

GENERAL SCIENCE

A STUDY-BOOK FOR SCIENCE PROBLEMS 3—Wilbur L. Beauchamp, John C. Mayfield and Joe Young West—*Scott, Foresman*, 316 p., 76c. Companion to school text by same author.

Science News Letter, June 14, 1941

CHEMISTRY

THE CHEMISTRY OF POWDER AND EXPLOSIVES, Vol. I—Tenney L. Davis—*Wiley*, 216 p., illus., \$2.75. This book will prove a valuable account of the following phases of explosives: general properties, black powder, fireworks, and aromatic nitro compounds (in which TNT and similar high explosives are included). Because of the great present interest in explosives, these chapters were published as Vol. 1, instead of waiting until the completion of the entire work. The second volume will cover other explosives. Though intended primarily for chemists, and as a text for seniors and graduate students at M. I. T., the book should not prove too difficult for anyone with a good general knowledge of chemistry.

Science News Letter, June 14, 1941

GENERAL SCIENCE

NEW WORLDS IN SCIENCE—Harold Ward, ed.—*McBride*, 670 p., \$3.50. This anthology includes selections from some 34 notable contemporary books and articles on science as related to us and the world. Skillfully selected, the pieces in the first section fit together to build a biological view of the world; in the other section they show the impact of energy upon man, the world and the universe. Anyone will find stimulating reading in this panoramic compilation.

Science News Letter, June 14, 1941

AERONAUTICS

YOUTH IN AVIATION—Air Youth of America—*Appleton-Century*, 265 p., illus., \$2.50. A manual for leaders telling how to organize and conduct junior aviation programs.

Science News Letter, June 14, 1941

ENGINEERING

A GOOD MECHANIC SELDOM GETS HURT—Herman R. Graman—*Amer. Tech. Soc.*, 94 p., illus., 50c. A useful manual on safety in the machine shop.

Science News Letter, June 14, 1941

PHYSICS

FLUORESCENT LIGHT AND ITS APPLICATIONS—H. C. Dake and Jack De Ment—*Chemical Pub. Co.*, 256 p., illus., \$3. With the growing importance of fluorescence as a means of general illumination, as well as for spectacular effects, this treatise should be very popular as an elementary introduction to the entire subject.

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