

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.

ALL ABOUT HOUSE WIRING—Floyd Mix and E. C. Pritchard—*Goodheart-Willcox*, 176 p., illus., \$2.50. For the handy-man house owner who lives where special licenses are not required for electrical work.

ANALYTICAL CHEMISTRY IN RETROSPECT AND PROSPECT—George D. Beal—*Mellon Institute*, 3 p., illus., paper, free upon request direct to publisher, 4400 Fifth Avenue, Pittsburgh 13, Pa.

ANNALS OF THE ASTROPHYSICAL OBSERVATORY OF THE SMITHSONIAN INSTITUTION: Volume 7—L. B. Aldrich and W. H. Hoover—*Govt. Printing Office*, 184 p., illus., paper, \$1.75.

ARCHAEOLOGY FROM THE EARTH—Sir Mortimer Wheeler—*Oxford University Press*, 221 p., illus., \$4.00. "There is no right way of digging," says the archaeologist author, "but there are many wrong ways." This down-to-earth book will aid the young scientist in avoiding tragic and unalterable mistakes.

BIOCHEMISTRY OF CANCER—Jesse P. Greenstein—*Academic*, 2d ed., 653 p., illus., \$12.00. These days, many different disciplines are contributing to research on cancer. This book is devoted to findings from just one of these fields.

CAVES OF THE RESERVE AREA—Paul S. Martin, John B. Rinaldo and Elaine Bluhm — *Chicago Natural History Museum*, Fieldiana: Anthropology, Volume 42, 227 p., illus., paper, \$5.00. Report of archaeological research on the Mogollon culture of west-central New Mexico. In the course of this research it was found possible to make up a calendar of arrow point styles, useful for dating archaeological finds.

COMMUNITY AND ENVIRONMENT: A Discourse on Social Ecology—E. A. Gutkind—*Philosophical Library*, 81 p., \$3.75. Solution of the world's problems is here seen in the building of small communities where men can learn mutual appreciation.

CONCRETE RESURFACING OF CONCRETE PAVEMENT IN VARIOUS STAGES OF DETERIORATION: Presented at the Thirty-Third Annual Meeting, January 12-15, 1954—Fred Burggraf and W. J. Miller, Eds.—*Highway Research Board*, Bulletin 87, 40 p., illus., paper, 60 cents. An accurate photographic record of the old pavement through the years made it possible to correlate defects developing in the resurfacing with those that existed in the old pavement.

THE DISCOVERY OF UNICELLULAR LIFE: Excerpts From Communications by Antoni Van Leeuwenhoek to the Royal Society of London—Foreword by A. J. Kluver—*Chronica Botanica*, 15 p., paper, free upon request direct to pub-

lisher, Waltham 54, Mass. This small keepsake was prepared to mark the opening of Prof. Waksman's new Institute for Microbiology at Rutgers University.

THE FLOOD CONTROL CONTROVERSY: Big Dams, Little Dams and Land Management—Luna B. Leopold and Thomas Maddock Jr. — *Ronald Press*, 278 p., illus., \$5.00. Making available to the general reader and to technicians in foreign countries an analysis of flood control measures.

GEOGRAPHICAL ESSAYS—William Morris Davis, edited by Douglas Wilson Johnson—*Dover*, 777 p., illus., \$5.50. Republication of a 1909 collection of papers by the Harvard scientist.

THE GIANT CACTUS FOREST AND ITS WORLD: A Brief Biology of the Giant Cactus Forest of Our American Southwest—Paul Griswold Howes—*Duell, Sloan, and Pearce*—*Little, Brown*, 258 p., illus., \$7.50. This book resulted from field trips by the curator of the Bruce Museum, Greenwich, Conn., and his wife.

HIGHWAY FINANCE: Selected References, 1950-1953—Fred Burggraf and W. J. Miller, Eds.—*Highway Research Board*, Bibliography 16, 65 p., paper, 75 cents.

INDIAN CORN IN OLD AMERICA—Paul Weath-erwax—*Macmillan*, 253 p., illus., \$7.50. Although this book is mainly a botanical treatise about one of our most important plants, since the story of the development of corn is also the story of the development of man in America, the book has great anthropological interest.

INSECTS AND THE HOMES THEY BUILD—Dorothy Sterling—*Doubleday*, 125 p., illus., \$2.50. Charming descriptions of the ways of insects in building unusual structures to house their young. Beautiful pictures.

MANPOWER RESOURCES IN MATHEMATICS: A Study Conducted Jointly by the National Science Foundation and the United States Department of Labor—*Govt. Printing Office*, 22 p., illus., paper, 20 cents.

MISS PICKERELL GOES TO THE ARCTIC—Ellen MacGregor — *Whitelsey House, McGraw-Hill*, 126 p., illus., \$2.25. An amusing and interesting book for young people.

NEEDED: A CIVILIAN RESERVE: Recommendations of the NPA Special Committee on Manpower Policy and a Report by Helen Hill Miller—National Planning Association, 49 p., paper, \$1.00. Pointing to the need for the finding and training of a reserve of specialists from business, union, farm and university for the initial staffing of the mobilization effort in case of future war or national emergency.

NUCLEAR REACTOR DEVELOPMENT: Proceedings of a Meeting for Members and Guests, May 24, 1954, Sheraton Park Hotel, Washington, D. C.—*Atomic Industrial Forum*, 99 p., illus., paper, \$5.00. Report of a meeting of an organization whose aim is the advancement of peaceful development of atomic energy.

PERFORMANCE OF PLUMBING FIXTURES AND DRAINAGE STACKS—Fred W. McGhan—*Govt. Printing Office*, Housing Research Paper No. 31, 32 p., illus., paper, 25 cents. Discussing the problem of guarding public health and preventing distressing odors by proper plumbing fixtures.

PROCEEDINGS OF THE THIRD RESEARCH CONFERENCE ON PSYCHOSURGERY — Winifred Over-

holser, Ed.—*Govt. Printing Office*, 173 p., illus., paper, \$1.00. Public Health Service Publication No. 221. An evaluation of at least 18,600 operations for mental illness performed over 15 years. It was agreed that the bilateral standard operation is more effective; the patient faces a 40% chance of change of personality, an 80% chance of complete relief and a 92% chance of surviving.

THE QUANTUM THEORY OF RADIATION — W. Heitler—*Oxford University Press*, 3d ed., 430 p., illus., \$7.20. Unlike other physical theories, the author points out, the quantum theory has become stronger with the passage of time. This is a systematized account of the theory.

RARE METALS HANDBOOK—Clifford A. Hampel, Ed.—*Reinhold*, 657 p., illus., \$12.00. Bringing together available reference data on over 34 rare or uncommon metals.

THE SCIENCE BOOK OF SPACE TRAVEL—Harold Leland Goodwin—*Franklin Watts*, 213 p., illus., \$2.95. An attempt to debunk some of the strange ideas young people may have gotten from popular television programs and comic strips.

SMOKEY STOVER—Bill Holman—*National Fire Protection Association*, 13 p., illus., paper, \$45.00 per 1,000. A comic book prepared especially to teach children some of the dangers of fire, and the precautions to be taken to avoid them.

A STUDY OF ADMINISTRATION OF STATE PSYCHIATRIC SERVICES—Raymond G. Fuller—*National Association for Mental Health*, 60 p., paper, 50 cents. A two-year study which charges most states run their mental hospitals in ways that are "archaic, inadequate and ill-fitted to the job to be done." (See page 54.)

THE TECHNICAL REPORT: Its Preparation, Processing, and Use in Industry and Government—B. H. Weil, Ed.—*Reinhold*, 485 p., illus., \$12.00. Modern industry turns out tens of thousands of technical reports annually, most "never to be read or failing to be understood."

THE THEORY OF THE PHOTOGRAPHIC PROCESS—C. E. Kenneth Mees—*Macmillan*, rev. ed., 1133 p., illus., \$21.50. A general handbook and guide to the literature. The author is in charge of research for Eastman Kodak.

THOREAU—William Condy—*Philosophical Library*, 114 p., illus., \$3.50. A biography of the famous American poet, philosopher and naturalist.

W. H. HUDSON—Ruth Tomalin—*Philosophical Library*, 143 p., illus., \$3.50. The biography of a noted naturalist of the past century, born in South America, but who nevertheless spent many of his years in England.

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GEOLOGY

Drill Hole in Glacier To Measure Ice Level

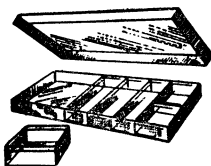
► A HOLE will be bored over a quarter of a mile deep in Saskatchewan Glacier in the Canadian Rockies to determine the flow of this river of ice.

A seven-man expedition from the California Institute of Technology, headed by Dr. Robert P. Sharp, will conduct the study.

An electric hotpoint drill will cut the hole approximately 1,500 feet deep. It will extend from the surface to the bottom of the ice in the upper reaches of the Glacier. The pipe will be left in the hole so that for years in the future its deformation will allow measurements of the glacial flow.

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