

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.

ADVANCES IN VIRUS RESEARCH: Volume II—Kenneth M. Smith and Max A. Lauffer, Eds.—Academic, 313 p., illus., \$7.00. Bringing together critical review articles, written from various points of view, on representative viruses causing diseases of man, animals, plants and bacteria.

ARCHEOLOGICAL INVESTIGATIONS IN THE OAHÉ DAM AREA, SOUTH DAKOTA, 1950-51: Inter-Agency Archeological Salvage Program—Donald J. Lehmer—Govt. Printing Office, Smithsonian Institution, Bureau of American Ethnology, Bulletin 158, 190 p., illus., paper, \$1.50. The first detailed, technical report covering a completed series of excavations carried on by the Missouri Basin Project of the River Basin Surveys of the Smithsonian.

ASPECTS OF DEEP SEA BIOLOGY—N. B. Marshall—Philosophical Library, 380 p., illus., \$10.00. After tracing the growth of deep sea biology, a relatively new science, the author attempts to build up an integrated account of ocean life. Beautifully illustrated.

COMPREHENSIVE DENTAL CARE IN A GROUP PRACTICE: A Study of Service and Time Requirements—Govt. Printing Office, Public Health Service Publication No. 395, 48 p., paper, 25 cents. A study of the dental care given under the auspices of the Group Health Association, Inc.

CONSERVING NATURAL RESOURCES: Principles and Practice in a Democracy—Shirley W. Allen—McGraw-Hill, 347 p., illus., \$5.50. Analyzing the practices that lead to the depletion of our natural resources and those that foster their fair distribution and conservation.

CRYPTOGAMIC BOTANY—Gilbert M. Smith—McGraw-Hill, 2d ed., Vol. I, Algae and Fungi, 546 p., illus., \$8.50, Vol. II, Bryophytes and Pteridophytes, 399 p., illus., \$8.00. Descriptions of many of the representative genera have been revised in the light of new knowledge, and representatives with a wider geographical distribution have been substituted.

EXCAVATIONS AT STAR CARR: An Early Mesolithic Site at Seamer near Scarborough, Yorkshire—J. G. D. Clark and others—Cambridge University Press, 200 p., illus., \$11.50. The discoveries at Star Carr illustrate the importance of excavating sites capable of throwing light on animal and plant life and the use man made of them.

EXPERIMENTAL STUDIES IN EQUINE INFECTIOUS ANEMIA—Miklos N. Dreguss and Louise S.

Lombard—University of Pennsylvania Press, 203 p., illus., \$6.50. Based on work done at the School of Veterinary Medicine, University of Pennsylvania, as well as an attempt to bring together all the pertinent information on this subject in one volume.

GEOLOGY AND MINERAL DEPOSITS OF BARSTOW QUADRANGLE SAN BERNARDINO COUNTY, CALIFORNIA AND THERMAL PROPERTIES OF CERAMIC MATERIALS FROM BARSTOW QUADRANGLE, CALIFORNIA—Oliver E. Bowen Jr. and Joseph A. Pask—California Division of Mines, Bulletin 165, 208 p., illus., \$3.00.

THE IMPACT OF COMPUTERS ON OFFICE MANAGEMENT: Experience in Computer Application—W. W. Smith and others—American Management Association, Office Management Series No. 136, 60 p., illus., paper, \$1.75. Written by representatives of companies pioneering in large-scale computer application, and including a discussion of the expected effects of office mechanization on the office worker.

INTELLIGENT LAYMAN'S MEDICAL DICTIONARY—Harry Swartz—Ungar, 306 p., illus., \$4.75. Written by a physician especially for laymen, this dictionary gives explanations of key terms in various branches of medicine.

AN INTRODUCTION TO ETRUSCAN ART—P. J. Riis—Philosophical Library, 144 p., 82 plates, \$10.00. Originally written as one of a series of Danish booklets to interest the layman in the work and results of the modern archaeologist.

JET: The Story of a Pioneer—Sir Frank Whittle—Philosophical Library, 320 p., illus., \$6.00. This book is primarily the history of the author's association with the development of the turbo-jet engine in Great Britain.

JOURNAL OF CHRONIC DISEASES: Volume 1, Number 1—Joseph Earle Moore, Ed.—Mosby, 110 p., paper, \$12.50 a year. Published monthly, this journal is devoted to the problems of chronic illness of all age groups.

NATIONAL SCIENCE FOUNDATION FOURTH ANNUAL REPORT FOR THE FISCAL YEAR ENDING JUNE 30, 1954—Alan T. Waterman, Director—Govt. Printing Office, 138 p., illus., paper, 50 cents. Telling of the advances in science of the past year, the scientific manpower situation, as well as the many other activities of the National Science Foundation in support of scientific research.

OLCOTT'S FIELD BOOK OF THE SKIES—Revised by R. Newton Mayall and Margaret W. Mayall—Putnam, 4th ed., 482 p., illus., \$5.00. In this new edition the text has been simplified, and charts and drawings have been corrected to conform with the latest available information.

ORGANIC CHEMISTRY—Lewis F. Hatch—McGraw-Hill, 324 p., illus., \$4.50. A text for a one-semester course written primarily for those whose particular field of interest requires an understanding of organic chemistry.

RADIOISOTOPE CONFERENCE, 1954: Proceedings of the Second Conference, Oxford, 19-23 July—J. E. Johnston, R. A. Faires and R. J. Millett, Eds.—Academic, Vol. I, Medical and Physiological Applications, 418 p., illus., \$10.80, Vol. II, Physical Sciences and Industrial Applications, 223 p., illus., \$7.50, both volumes \$16.00. Sponsored by the Atomic Energy Research Establishment, Harwell.

SYMPOSIUM ON HUMAN FACTORS IN EQUIP-

MENT DESIGN—W. F. Floyd and A. T. Welford, Eds.—H. K. Lewis (John de Graff), 132 p., illus., \$4.00. The result of a symposium held by the Ergonomics Research Society at which the various aspects of the problem of equipment design, especially as they relate to industry, were discussed.

SYMPOSIUM ON FATIGUE—W. F. Floyd and A. T. Welford, Eds.—H. K. Lewis (John de Graff), 196 p., illus., \$4.00. Papers originally given at a symposium on fatigue held by the Ergonomics Research Society in March, 1952.

UNDERWATER PHOTOGRAPHY AND TELEVISION: A Handbook of Equipment and Techniques—E. R. Cross, with foreword by Roger Revelle and a chapter on Deep-Sea Photography by Robert S. Dietz—Exposition Press, 258 p., illus., \$6.00. The author is a master diver and director of the Sparling School of Deep-Sea Diving in Wilmington, Calif., where he has taught underwater photography for six years.

Science News Letter, January 29, 1955

MEDICINE

Find Chemicals That Cause Arthritis in Rats

► CHEMICALS THAT produce degenerative arthritis, bone and joint changes and damage to the aorta, chief artery of the body, have been discovered by scientists at the State University of Iowa.

The chemicals produce these bone, joint and artery changes in rats. They probably do not cause the arthritic and other damage in humans unless they get loose in human bodies from some fault in body chemistry. But the changes the chemicals cause in rats are so exactly like those seen in human patients that the scientists feel they are perhaps on the track of finding a chemical basis for arthritis and the artery condition, dissecting aneurysm of the aorta.

At least there now exists a way of producing the conditions in the laboratory and from this it may be possible to find a way of reversing or preventing the chemically induced changes. In that case, the remedy for the rat ailment might prove useful to humans.

The chemicals which cause the arthritic and other damage are aminonitriles. Discovery of their role in rat arthritis is announced by Drs. S. Wawzonek, I. V. Ponseti, R. S. Shepard and L. G. Wiedenmann, of the departments of chemistry and orthopedics in *Science* (Jan. 14).

Science News Letter, January 29, 1955

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