

Books of the Week

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ANNUAL SURVEY OF ORGANOMETALLIC CHEMISTRY, Vol. 1, Covering the Year 1964—Dietmar Seyferth and R. Bruce King—Elsevier Pub. Co. (N.Y.), 330 p., diagrams, \$20. Discusses the organic compounds of the main group metals and transition metal organic chemistry.

APES AND MONKEYS—Desmond Morris—McGraw, 36 p., illus. by Barry Driscoll, \$2.95. Describes and depicts for young readers the physical characteristics of the different species of primates.

BIRD STUDIES AT OLD CAPE MAY: An Ornithology of Coastal New Jersey, Vols. I and II—Witmer Stone, new introd. by Roger Tory Peterson—Dover, 941 p., 121 plates, 277 line drawings, paper, \$2.75 each. Unabridged republication of 1937 edition.

COMPUTER PROGRAMMING FOR CHEMISTS—Kenneth B. Wiberg—Benjamin, W.A., 269 p., \$12.50. This text-monograph deals specifically with the application of computers to problems in organic chemistry.

CONFERENCE ON THE TOXICITY OF CYC-ADDS (Fourth)—Marjorie Grant Whiting, Ed.—PHS, 201 p., paper, single copies free upon request direct to Dr. Marjorie Grant Whiting, Epidemiology Branch, NINDB, National Institutes of Health, Bethesda, Md. 20014. Proceedings of conference.

CONSUMER REPORTS: The Buying Guide Issue 1965/66—Consumers Union, 448 p., paper, \$1.95 direct to publisher, Mount Vernon, N. Y. 10550. Copyrighted test results and ratings of more than 2700 brands of household equipment.

THE DEMAND AND PRICE SITUATION FOR FOREST PRODUCTS, 1965—Dwight Hair and Alice H. Ulrich—Forest Service USDA, (GPO), 43 p., paper, 35¢. Presents information on current national trends.

EDUCATOR'S GUIDE TO FREE GUIDANCE MATERIALS—Mary H. Saterstrom and Joe A. Steph; Gail F. Farwell, Consultant—Educators Progress Service, 4th ed., 190 p., paper, \$6.50. Identifies existing free counseling resources in film, printed materials, filmstrips and tapes.

EDUCATORS GUIDE TO FREE SOCIAL STUDIES MATERIALS—Patricia Horkheimer Suttes. William H. Hartley, Cons.—Educators Progress Service, 5th ed., 478 p., paper, \$6.75. Annotated listing of currently available materials.

ELECTRICAL CONDUCTION IN SOLIDS—H. Inokuchi—Dover, 56 p., diagrams, paper, \$1.35.

An account of the transport of elementary electrons through solids, on undergraduate level.

ESKIMO ADMINISTRATION III: Labrador—Diamond Jenness—Arctic Institute of North America, 94 p., illus., \$3. Covers the period of Moravian rule, the period between the two world wars, and Labrador today.

EXCHANGE SCHOLARS: A New Dimension in International Understanding—Board of Foreign Scholarships, Oscar Handlin, Chmn.—U.S. Dept. of State, 35 p., paper, single copies free upon request direct to publisher, Washington, D.C. 20520. Third annual report.

FIRE PREVENTION—Dorothy Wilson—Watts, F., 71 p., illus., \$2.65. Explains in simple terms the nature of fire, trouble spots in the home and out-of-doors, and what to do in case of a fire.

THE GEOGRAPHY OF SOIL—Briant T. Bunting—Aldine Pub. Co., 213 p., illus., \$5. British geographer presents the results of modern international soil studies and discusses the soils of the world on a regional rather than on a zonal basis.

HIGH FIDELITY SYSTEMS—A Layman's Guide to the Installation and Care of Sound Systems in the Home—Roy F. Allison—AR (Dover), 2nd ed., 91 p., illus., paper, \$1. Revised republication of 1962 edition.

HOSPITAL PLANNING FOR NUCLEAR DIS-ASTER—Division of Health Mobilization—PHS (GPO), 61 p., paper, 25¢. Discusses elements of hospital planning, their operation and presents sample plan.

HOW DOCTORS DIAGNOSE HEART DISEASE—Heart Information Center N.I.H., 6 p., illus., paper, single copies free upon request direct to publisher, Bethesda, Md. 20014. Describes and explains some of the tests physicians may use in determining heart disease.

HOW TO SUCCEED IN HIGH SCHOOL and **Score High on College Entrance Examinations**—George Weigand—Barron's Educational Series, 129 p., illus., paper, 95¢. Tells students how to study.

LIFE IN THE SEA—Gwynne Vevers—McGraw, 36 p., illus. by Barry Driscoll, \$2.95. A natural science picture book for young readers.

LIFE ON THE SEA-SHORE—A. J. Southward—Harvard Univ., Press, 153 p., illus., \$3. Studies in the biology of plant and animal life within the habitat between low tide and high water mark.

THE MEN OF THE OLD STONE AGE (Palaeolithic and Mesolithic)—Henri Breuil and Raymond Lantier, transl. from French by B. B. Rafter—St. Martins, 272 p., 16 plates, \$6. Guides the reader through the evidence of prehistoric man dated 50,000 to 150,000 years ago.

MODERN COMPUTING METHODS—Mathematics Division, National Physical Laboratory—Philosophical Lib., 2nd ed., 170 p., \$6. Reprint (1961).

THE ASSISTANT MEDICAL OFFICER: The Training of the Medical Auxiliary in Developing Countries—Edwin F. Rosinski and Frederick J. Spencer—Univ. of N.C. Press, 199 p., \$6. Presents material gathered through the descriptive-survey method of research.

MOLECULAR PHOTOCHEMISTRY—Nicholas J. Turro—Benjamin, W. A., 286 p., diagrams, \$12.50. Introductory text on the mechanisms and applications of organic photochemical reactions.

NATIONAL CYSTIC FIBROSIS RESEARCH FOUNDATION: Annual Report 1965, Tenth Anniversary—Milton Graub, M.D., Pres.—Nat. Cystic Fibrosis Research Foundation, 16 p., illus., paper, single copies free upon request direct to publisher, 521 Fifth Ave., New York, N.Y. 10017.

THE ORGANIZATION OF RESEARCH ESTABLISHMENTS—Sir John Cockcroft, Ed.—Cambridge Univ. Press, 275 p., plates, \$11.50. The heads of 13 research establishments discuss the problems involved in organizing research in fields ranging from physics to psychiatry, from agriculture to transportation.

OXFORD ECONOMIC ATLAS OF THE WORLD—The Economist Intelligence Unit and Cartographic Department of the Clarendon Press—Oxford Univ. Press, 3rd ed., 286 p., maps, tables, \$15. Contains world commodity maps grouped in ten sections, from cereals to industries, and statistical index arranged country by country.

PHARAOHS OF EGYPT—Jacquetta Hawkes, Editors of Horizon Magazine and Bernard V. Bothmer, Consultant—Am. Heritage Pub. Co. (Harper), 153 p., illus., \$3.95. Handsomely illustrated highlights of the contributions of the pharaohs to Egyptian history.

POPULATION DYNAMICS: International Action and Training Programs—Minoru Muramatsu and Paul A. Harper, Eds.—Johns Hopkins Press, 248 p., \$6.50. Proceedings of 1964 conference describ-

ing the action of countries with a national policy of birth control programs.

REPRODUCTION OF SOUND—Edgar Villechur—Acoustic Research (Dover), 92 p., illus., paper, \$1. Unabridged reprint of 1962 edition.

THE RESEARCH AND DEVELOPMENT EFFORT in Western Europe, North America and the Soviet Union—C. Freeman and A. Young—O.E.C.D.-McGraw, 152 p., paper, \$2.50. An experimental international comparison of research expenditures and manpower in 1962.

RURAL YOUTH IN A CHANGING ENVIRONMENT: Report of the National Conference, 1963—Ruth Cowan Nash, Ed.—Nat. Committee for Children and Youth, 344 p., paper, \$2.75 direct to publisher, 1145 19th St., N.W., Washington, D.C. Includes speeches, work group recommendations and catalogue of existing programs.

SELECTED FILMS ON CHILD LIFE—Inez D. Lohr—Children's Bureau (GPO), rev. ed., 114 p., paper, 40¢. Lists films considered of value for people and organizations active in some field concerned with children.

SOUND AND HEARING—S. S. Stevens, Fred Warshofsky and the Editors of LIFE—Time-Life Bks., 200 p., illus., \$3.95 direct to publisher, Time & Life Bldg., Chicago, Ill. 60611. Explains sound waves and the machinery of hearing, the route to the brain, echo sensing, deafness and acoustics, with color photographs and diagrammatic essays.

TABLE OF META-STABLE TRANSITIONS FOR USE IN MASS SPECTROMETRY—J. H. Beynon, R. A. Saunders and A. E. Williams—Elsevier Pub. Co., 784 p., \$16.50. Intended to make it easy to determine the ionic reaction which gives rise to any meta-stable peak in a mass spectrometer.

WORK ACTIVITIES AND ATTITUDES OF SCIENTISTS AND RESEARCH MANAGERS: Data from a National Survey—Howard M. Vollmer—SRI (Clearinghouse), 216 p., paper, \$6. Data are classified according to professional affiliation, type of employer, geographic region, educational level and age.

THE WORLD OF ROCKETS—Alexander L. Crosby—Random House, 80 p., photographs, illus., \$1.95. Factual data for boys and girls.

• Science News Letter, 89:12 January 1, 1966

GEOLOGY

Fossil Coral From Sand Indicates Ice Age Thaw

► AN 80,000-YEAR-OLD piece of coral, found on a high fossil sand dune in the Bahamas, led scientists to believe that a huge thaw suddenly occurred during the last Ice Age, melting the vast continental glaciers and flooding the coastal shores of the world.

Evidence of the great thaw comes from an elevated ledge that was once a shoreline on Lignum Vitae Cay in the Berry Islands of the Bahamas. The raised ledge, discovered by Dr. Norman D. Newell of the American Museum of Natural History, is topped by a fossilized sand dune, and stands eight or nine feet higher than today's shoreline. This indicates that water from the melting receding glaciers once raised the sea level to this height.

The sudden thaw may have taken place during the last of the Pleistocene Ice Age, during a time called the Wisconsin stage, he said. In geological time scale, the thaw was comparatively brief, lasting from 4,500 to 9,000 years. This is a much shorter period of time than the interglacials, which are the warm stages separating the four main glacier periods of the Pleistocene Ice Age.

Terraces at the level of the shoreline discovered by Dr. Newell have been found in widely scattered parts of the world, particularly in the Pacific Islands and the Mediterranean Sea. They may record a world-wide high sea level.

The Wisconsin stage of the Ice Age may have lasted about 90,000 years, scientists estimate. The entire Pleistocene Ice Age lasted from one million to 1.7 million years.

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ANALOG COMPUTER

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