

treatment of a number of issues. In its portrayal of the English school as the founders of modern historical geology it both exaggerates their modernity and undervalues the contributions of others.

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Some Other Books of Interest

Catastrophes and Earth History. The New Uniformitarianism. W. A. BERGGREN and JOHN A. VAN COUVERING, Eds. Princeton University Press, Princeton, N.J., 1984. xii, 465 pp., illus. \$65; paper, \$19.50. From symposiums, Woods Hole, Mass., June 1977, and Lawrence, Kansas, Aug. 1977.

The majority of the papers in this volume were presented at a 1977 symposium at Woods Hole, Massachusetts, on the theme of the state of uniformitarianism as a scientific subject. The first section of the book, headed The Concept of Catastrophe as a Natural Agent, consists of papers by S. J. Gould, R. H. Benson, P. E. Gretener, D. V. Ager, and C. R. Denham. The second section is a set of eight papers from the Second North American Paleontological Convention that deal with the Cretaceous-Tertiary boundary event. The authors are N. D. Newell, A. G. Fischer, E. G. Kauffman, A. Boersma, L. J. Hickey, R. H. Tschudy, J. D. Archibald and W. A. Clemens, and D. A. Russell. Part 3, Catastrophic Processes in the Geological Record, contains papers by N.-A. Möerner, S. D. Webb, and R. H. Benson. Part 4, Catastrophes and the Real World, consists of a single paper, "Marine mineral resources and uniformitarianism," by K. O. Emery. Several of the papers cite references as recent as 1980. The volume lacks an index.—K.L.

Island Ecology. SVEN-AXEL BENGTON and PEHR H. ENCKELL, Eds. Munksgaard, Copenhagen, 1983 (available from *Oikos* editorial office, Department of Animal Ecology, Ecology Building, 2-223 62 Lund, Sweden). 255 pp., illus. Paper, Sw. Cr. 100. *Oikos*, vol. 41, no. 3.

The editors of this special issue of *Oikos* posed to the contributors the questions "What remains of the theory of island ecology (biogeography) today to distinguish it from other theories formulated to explain the function of mainland communities? Where do we stand and where do we go next?" The contributors were invited to deal with these questions

"by presenting new facts, by refuting established ideas, or by presenting alternatives to accepted dogma." The first "chapter," headed Origins and Composition of Island Faunas, consists of six papers (by Reymont, Diamond and Gilpin, Graves and Gotelli, Haila, Ahlén, and Southwood and Kennedy) that, in the editors' words, "describe and discuss their data at the lowest possible taxonomic level." In the chapter Processes in Island Communities, "species turnover . . . is a central theme." The chapter includes two experimental papers (Rey and Strong; Crowell) and a simulation study (Wright and Hubbell). The authors of the other papers are Schoener, Williamson, Abbott, Jennerston *et al.*, Janzen, Toft and Schoener, Case, Travis and Ricklefs, and Connor and Simberloff. The third and final chapter, Extensions and Alternatives, includes theoretical papers by Rummel and Roughgarden and by Stenseth and papers by Wright, Bengtson and Block, Berry, and Grant and Grant that utilize empirical data. The issue has no index, but the papers include abstracts in both English and Russian. The editors' preface contains a brief assessment of the implications of the work as a whole.—K.L.

Books Received

Advances in Transport Processes. Vol. 3. Arun S. Mujumdar and R. A. Mashelkar, Eds. Halsted (Wiley), New York, 1984. viii, 452 pp., illus. \$44.95.

Aging and Cell Structure. Vol. 2. John E. Johnson, Jr., Ed. Plenum, New York, 1984. xvi, 223 pp., illus. \$42.50.

Airborne and Allergenic Pollen of North America. Walter H. Lewis, Prathibha Vinay, and Vincent E. Zenger. Johns Hopkins University Press, Baltimore, 1984. xiv, 254 pp., illus., + plates. \$60.

Algebra. Larry C. Grove. Academic Press, New York, 1983. xiv, 301 pp. \$32. Pure and Applied Mathematics.

Algeny. A New Word—A New World. Jeremy Rifkin, with Nicanor Perlas. Penguin, New York, 1984. xii, 298 pp. Paper, \$6.95. Reprint, 1983 ed.

Ambulatory Medicine. Barry Stimmel, Ed. Raven, New York, 1984. xii, 332 pp., illus. Paper, \$19.50.

American Medicine and Statistical Thinking, 1800–1860. James H. Cassedy. Harvard University Press, Cambridge, Mass., 1984. xiv, 306 pp., illus. \$22.50.

Animal Thinking. Donald R. Griffin. Harvard University Press, Cambridge, Mass., 1984. xiv, 237 pp. \$17.50.

Animals and Why They Matter. Mary Midgley. University of Georgia Press, Athens, 1984. 158 pp. \$14.

Annual Review of Physiology. Vol. 46. Robert M. Berne and Joseph F. Hoffman, Eds. Annual Reviews, Palo Alto, Calif., 1984. xii, 727 pp., illus. \$27.

Blood Platelet Function and Medicinal Chemistry. Andrew Lasslo, Ed. Elsevier, New York, 1984. xviii, 324 pp., illus. \$49.50.

Brain Slices. Raymond Dingledine, Ed. Plenum, New York, 1984. xviii, 442 pp., illus. \$50.

The Business of Risk. Peter G. Moore. Cambridge University Press, New York, 1984. x, 244 pp., illus. \$39.50; paper, \$9.95.

Calcium in Biology. Thomas G. Spiro, Ed. Wiley-Interscience, New York, 1984. x, 278 pp., illus. \$75.

Metal Ions in Biology. vol. 6.

Cancer Invasion and Metastasis. Biologic and Therapeutic Aspects. Garth L. Nicolson and Luka Milas, Eds. Raven, New York, 1984. xx, 481 pp., illus. \$65. From a symposium, Houston, Feb. 1983.

Catalytic Transition Metal Hydrides. D. W. Slo-

cum and William R. Moser, Eds. New York Academy of Sciences, New York, 1983. x, 325 pp., illus. Paper, \$65. Annals of the New York Academy of Sciences, vol. 415. From a conference, Nov. 1982.

Causes and Effects of Changes in Stratospheric Ozone. Update 1983. National Academy Press, Washington, D.C., 1984. xiv, 254 pp., illus. Paper, \$15.50.

The Chemical Formulary. Collection of Commercial Formulas for Making Thousands of Products in Many Fields. Vol. 25. H. Bennett, Ed. Chemical Publishing Company, New York, 1983. x, 435 pp. \$35.

Dice, Data and Decisions. Introductory Statistics. K. W. Kemp. Horwood, Chichester, England, and Halsted (Wiley), New York, 1984. 314 pp., illus. \$64.95. Ellis Horwood Series in Mathematics and Its Applications.

Diffusion of Biomass Energy Technologies in Developing Countries. 2nd ed. National Academy Press, Washington, D.C., 1984. viii, 120 pp., illus. Paper, \$9.25.

Direct Nuclear Reactions. Norman K. Glendenning. Academic Press, New York, 1983. xviii, 378 pp., illus. \$62.

Engineers and Electrons. A Century of Electrical Progress. John D. Ryder and Donald G. Fink. IEEE Press, New York, 1984. xx, 251 pp., illus. \$29.95.

Equilibrium Thermodynamics. C. J. Adkins. 3rd ed. Cambridge University Press, New York, 1984. xiv, 285 pp., illus. \$39.50; paper, \$14.95.

Essentials of Psychological Testing. Lee J. Cronbach. 4th ed. Harper and Row, New York, 1984. xx, 630 pp., illus. \$31.50.

The Healing and Scarring of Atheroma. Moshe Wolman, Ed. Plenum, New York, 1984. viii, 156 pp., illus. \$32.50. Advances in Experimental Medicine and Biology, vol. 168. From a congress, Jerusalem, 1981.

A History of Neurophysiology in the 17th and 18th Centuries. From Concept to Experiment. Mary A. B. Brazier. Raven, New York, 1984. xiv, 230 pp., illus. \$65.

Hospital Library Management. Jana Bradley, Ruth Holst, and Judith Messerle, Eds. Medical Library Association, Chicago, 1983. xvi, 412 pp. \$67.50.

Human Ecology and Infectious Diseases. Neil A. Croll and John H. Cross, Eds. Academic Press, New York, 1983. xvi, 364 pp., illus. \$46.

Humoral Factors in Host Defense. Yuichi Yamamura *et al.*, Eds. Academic Press, New York, 1983. xviii, 364 pp., illus. \$32. From a symposium, Kyoto, Japan, Oct. 1982.

Hydrazine and Its Derivatives. Preparation, Properties, Applications. Eckart W. Schmidt. Wiley-Interscience, New York, 1984. xxviii, 1059 pp., illus. \$85.

Interferometry. W. H. Steel. 2nd ed. Cambridge University Press, New York, 1984. xvi, 308 pp., illus. \$69.50 Cambridge Monographs on Physics.

An Introduction to APL. S. Pommier. Cambridge University Press, New York, 1984. viii, 136 pp. \$29.95; paper, \$11.95. Cambridge Computer Science Texts, 17. Translated from the French edition (Paris, 1978) by Bronwen A. Rees.

Introduction to Numerical Computations. James S. Vandergraft. 2nd ed. Academic Press, New York, 1983. xiv, 374 pp. \$29.50. Computer Science and Applied Mathematics.

Latent Dyslipoproteinemias and Atherosclerosis. J. L. de Gennes, J. Polonovski, and R. Paoletti, Eds. Raven, New York, 1984. xviii, 316 pp., illus. \$42.

Life and Land Use on the Bahrain Islands. The Geoarchaeology of an Ancient Society. Curtis E. Larsen. University of Chicago Press, Chicago, 1984. xxii, 339 pp., illus. \$20; paper, \$9. Prehistoric Archaeology and Ecology.

Life in the Chesapeake Bay. Alice Jane Lippson and Robert L. Lippson. Illustrations by Alice Jane Lippson. Johns Hopkins University Press, Baltimore, 1984. x, 230 pp. Paper, \$12.95.

Life-Span Developmental Psychology. Nonnormative Life Events. Edward J. Callahan and Kathleen A. McCluskey, Eds. Academic Press, New York, 1983. xvi, 331 pp. \$29.50. From a conference, Morgantown, W. Va., May 1980.

Logical and Combinatorial Algorithms for Drug Design. V. E. Golender and A. B. Rozenblit. Research Studies Press, Letchworth, England, and Wiley, New York, 1984. xiv, 289 pp., illus. \$63.95. Chemometrics Series.

Magnetic Atoms and Molecules. William Weltner, Jr. Scientific and Academic Editions (Van Nostrand Reinhold), New York, 1983. xvi, 422 pp., illus. \$42.50.

Mathematical Models of the Circadian Sleep-Wake Cycle. Martin C. Moore-Ede and Charles A. Czeisler, Eds. Raven, New York, 1984. viii, 216 pp., illus. \$45. From a symposium.

Maximum Life Span. Roy L. Walford. Avon, New York, 1984. xvi, 256 pp., illus. Paper, \$3.95. Reprint, 1983 edition.

(Continued on page 444)