

Schawlow makes the point that each person involved in history sees events differently and that there will be inevitable differences of opinion about what to emphasize and even about facts. Nevertheless he finds the book a "sound outline of the way things developed." All of us who have tried to fill in parts of this complex history will agree.

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## Some Other Books of Interest

**Extinctions.** MATTHEW H. NITECKI, Ed. University of Chicago Press, Chicago, 1984. x, 354 pp., illus. \$30; paper, \$16. From a symposium, Chicago, May 1983.

The contributions to this volume are based on papers presented at the Sixth Annual Spring Systematics Symposium held at the Field Museum. (For accounts of the symposium see J. Diamond, *Nature* **304**, 396 [1983] and R. Lewin, *Science* **220**, 1140 [1983] and **223**, 383 [1984]). The papers included are: "Death of species" by D. M. Raup; "Patterns of extinction in the fossil record of vascular plants" by A. H. Knoll; "Marine mass extinctions: a dominant role for temperatures" by S. M. Stanley; "Extinction in hominid evolution" by A. Walker; "Catastrophic extinctions and late Pleistocene Blitzkrieg: two radiocarbon tests" by Paul S. Martin; "'Normal' extinctions of isolated populations" by J. M. Diamond; "Mammalian extinction and biogeography in the southern Rocky Mountains" by B. D. Patterson; and "Ecosystem decay of Amazon forest remnants" by T. E. Lovejoy *et al.* (A paper by Walter Alvarez presented at the symposium is not represented here.) Abstracts of the eight papers are gathered in an appendix, and author and subject indexes have been provided.—K.L.

**Orders and Families of Recent Mammals of the World.** SYDNEY ANDERSON and J. KNOX JONES, JR., Eds. Wiley-Interscience, New York, 1984. xiv, 686 pp., illus. \$54.95.

This volume is a successor to *Recent Mammals of the World: A Synopsis of Families*, also edited by Anderson and Jones (Ronald, 1967; reviewed in *Science* **157**, 1420 [1967]). The new work, sponsored like its predecessor by the American Society of Mammalogists, is about 40 percent longer and has 13 new

contributors. A general introduction by the editors is followed by an order-by-order discussion of the fossil histories of Recent mammals by M. R. Dawson and L. Krishtalka. The remainder of the chapters are devoted to the various orders. Monotremes and marsupials are dealt with by L. G. Marshall, insectivores, elephant shrews, tree shrews, and dermopterans by T. L. Yates, bats by K. F. Koopman, primates by R. W. Thorington, Jr., and S. Anderson, xenarthrans and pholidotes by J. C. Barlow, and lagomorphs by V. E. Diersing. The treatment of rodents comprises an introduction by M. D. Carleton and accounts of the various suborders by C. A. McLaughlin, Carleton and G. G. Musser, D. Klingener, and C. A. Woods. Cetaceans are dealt with by D. W. Rice, carnivores by H. J. Stains, tubulidentates, proboscideans, and hyracoideans by C. Jones, sirenians by G. B. Rathbun, perissodactyls by D. C. Carter, and artiodactyls by C. D. Simpson. For each family within an order information is given on diagnosis, general characters, habits, habitat, Recent distribution (including maps), Recent genera, geologic range, and major fossil groups. A 69-page section of references and an index of scientific (to the level of genus) and vernacular names are included.—K.L.

## Books Received

**Airlines of Latin America since 1919.** R. E. G. Davies. Smithsonian Institution Press, Washington, D.C., 1984. xiv, 698 pp., illus. \$47.50.

**Amphibian Morphogenesis.** Harold Fox. Humana, Clifton, N.J., 1984. xvi, 301 pp., illus. \$59.50. Bio-science.

**Animal Mechanics.** R. McNeill Alexander. 2nd ed. Blackwell Scientific, Palo Alto, Calif., 1983. x, 301 pp., illus. \$30. A Packard Publishing Limited Book.

**Annual Review of Earth and Planetary Sciences.** Vol. 12. George W. Wetherill, Arden L. Albee, and Francis G. Stehli, Eds. Annual Reviews, Palo Alto, Calif., 1984. x, 533 pp., illus. \$44.

**Annual Review of Public Health.** Vol. 5. Lester Breslow, Jonathan E. Fielding, and Lester B. Lave, Eds. Annual Reviews, Palo Alto, Calif., 1984. viii, 473 pp. \$27.

**Antibodies: Their Structure and Function.** M. W. Steward. Chapman and Hall, London, 1984 (U.S. distributor, Methuen, New York). 96 pp., illus. Paper, \$6.95. Outline Studies in Biology.

**Antimalarial Drugs II.** Current Antimalarials and New Drug Developments. W. Peters and W. H. G. Richards, Eds. Springer-Verlag, New York, 1984. xviii, 520 pp., illus. \$147. Handbook of Experimental Pharmacology, vol. 68/II.

**Antiviral Chemotherapy, Interferons and Vaccines.** David O. White. Karger, Basel, 1984. viii, 112 pp., illus. \$46.25. Monographs in Virology, vol. 16.

**Brücken: Ästhetik und Gestaltung.** Bridges: Aesthetics and Design. Fritz Leonhardt. MIT Press, Cambridge, Mass., 1984. 308 pp., illus. \$50. MIT Press Series in Structural Mechanics.

**Butterflies East of the Great Plains.** An Illustrated Natural History. Paul A. Opler and George O. Krizek. Johns Hopkins University Press, Baltimore, 1984. xviii, 294 pp., illus., + plates. \$49.50.

**Cancer Rehabilitation.** Albert E. Gunn, Ed. Raven, New York, 1984. xiv, 223 pp., illus. \$38.

**Carbon-Functional Organosilicon Compounds.** Václav Chvalovsky and Jon M. Bellama, Eds. Plenum, New York, 1984. xiv, 303 pp., illus. \$45. Modern Inorganic Chemistry.

**Carbonate Chemistry of Aquatic Systems.** Vol. 2,

High Salinity Waters. R. E. Loewenthal and G. v. R. Marais. Butterworths, Boston, 1984. Various pages, illus. \$39.95. An Ann Arbor Science Book.

**Cardiology Update.** Reviews for Physicians. 1984 Edition. Elliot Rapaport, Ed. Elsevier, New York, 1984. xvi, 245 pp., illus. \$39.95.

**Careers in Science.** Thomas A. Easton. Dow Jones-Irwin, Homewood, Ill., 1984. x, 127 pp. Paper, \$9.95.

**Catalytic Conversions of Synthesis Gas and Alcohols to Chemicals.** Richard G. Herman, Ed. Plenum, New York, 1984. xii, 475 pp., illus. \$69.50.

**Cellular and Molecular Biology of Neuronal Development.** Ira B. Black, Ed. Plenum, New York, 1984. xxvi, 363 pp., illus. \$49.50. From a symposium, St. Thomas, U.S. Virgin Islands, March 1983.

**Discourse Development.** Progress in Cognitive Development Research. Stan A. Kuczaj, II, Ed. Springer-Verlag, New York, 1984. xvi, 203 pp., illus. \$25.90. Springer Series in Cognitive Development.

**Distributed Computer Control Systems 1983.** M. G. Rodd, Ed. Published for the International Federation of Automatic Control by Pergamon, New York, 1984. x, 185 pp., illus. \$56. IFAC Proceedings Series. From a workshop, Sabi-Sabi, Transvaal, South Africa, May 1983.

**Drained Field Agriculture in Central and South America.** J. P. Darch, Ed. B.A.R., Oxford, England, 1983. xiv, 263 pp., illus. Paper, £16. BAR International Series 189. From a congress, Manchester, 1982.

**Drugs and the Lung.** Gordon Cumming and Giovanni Bonsignore, Eds. Plenum, New York, 1984. viii, 285 pp., illus. \$49.50. Ettore Majorana International Science Series, Life Sciences, vol. 14. From a school, June 1982.

**Dynamic Semiconductor RAM Structures.** A. Cardon and L. J. L. Fransen. Pergamon, New York, 1984. xxiv, 469 pp., illus. \$95. EPO Applied Technology Series, vol. 1.

**The Dynamics of Nuclear Proliferation.** Stephen M. Meyer. University of Chicago Press, Chicago, 1984. xvi, 229 pp. \$20.

**Earthquake Engineering.** Damage Assessment and Structural Design. S. F. Borg. Wiley Heyden, New York, 1984. xiv, 110 pp., illus. \$21.95. Wiley Series in Methods and Applications in Civil Engineering.

**Ecogenetics.** Genetic Variation in Susceptibility to Environmental Agents. Edward J. Calabrese. Wiley-Interscience, New York, 1984. xvi, 341 pp., illus. \$65. Environmental Science and Technology.

**Forest Policy.** A Contribution to Resource Development. F. C. Hummel, Ed. Nijhoff/Junk, The Hague, 1984 (U.S. distributor, Kluwer Boston, Hingham, Mass.). xx, 310 pp., illus. \$60. Forestry Sciences.

**Foundations of Laser Spectroscopy.** Stig Stenholm. Wiley-Interscience, New York, 1984. xiv, 268 pp., illus. \$36.95.

**Fuel Economy in Aviation.** Jeffrey L. Ethell. National Aeronautics and Space Administration, Washington, D.C., 1983 (available from the Superintendent of Documents, Washington, D.C.). x, 111 pp., illus. \$15. NASA SP-462.

**Fuller's Earth.** A Day with Bucky and the Kids. Richard J. Brennenman. St. Martin, New York, 1984. x, 180 pp., illus. \$13.95.

**Fundamentals of Meteorology.** Louis J. Battan. 2nd ed. Prentice-Hall, Englewood Cliffs, N.J., 1984. xiv, 304 pp., illus. \$26.95.

**Galactic and Extragalactic Infrared Spectroscopy.** M. F. Kessler and J. P. Phillips, Eds. Reidel, Boston, 1983 (distributor, Kluwer Boston, Hingham, Mass.). xii, 472 pp., illus. \$58. Astrophysics and Space Science Library, vol. 108. From a symposium, Toledo, Spain, Dec. 1982.

**Gas Transfer at Water Surfaces.** Wilfried Brutsaert and Gerhard H. Jirka, Eds. Reidel, Boston, 1984 (distributor, Kluwer Boston, Hingham, Mass.). x, 641 pp., illus. \$78. Water Science and Technology Library. From a symposium, Ithaca, N.Y., June 1983.

**Gaseous Air Pollutants and Plant Metabolism.** M. J. Koziol and F. R. Whatley, Eds. Butterworths, Boston, 1984. xiv, 466 pp., illus. \$99.95. From a symposium, Oxford, England, Aug. 1982.

**The Hidden Sun.** Solar Eclipses and Astrophotography. James Lowenthal. Avon, New York, 1984. 108 pp., illus., + plates. Paper, \$5.95.

**Hospital with a Heart.** Women Doctors and the Paradox of Separatism at the New England Hospital, 1862-1969. Virginia G. Drachman. Cornell University Press, Ithaca, N.Y., 1984. 259 pp., illus. \$19.95.

**How You Can Explore Higher Dimensions of Space and Time.** T. B. Pawlicki. Prentice-Hall, Englewood Cliffs, N.J., 1984. xiv, 188 pp., illus. \$16.95; paper, \$6.95.

**Human Anatomy.** Kent M. Van De Graaff. Brown, Dubuque, Iowa, 1984. xviii, 677 pp., illus., + appendices. \$38.95.

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