The past 30 years have seen a huge increase in knowledge about bats, perhaps greater than has occurred in any other field of mammalogy. Wimsatt, who with his students has been in the vanguard of the removal of the "mystery" from bats, conceived the idea of a multivolume work to provide an upto-date summary of the biology of bats. The first two volumes have now appeared, and the list of contributors and the general excellence of the summaries are impressive.

Volume 1 contains 10 chapters. The first, "Bat origins and evolution" by Glenn L. Jepsen, in addition to summarizing the known fossil record includes an excellent series of stereophotographs of the earliest known bat, Icaronycteris index, a 50-million-yearold fossil from the Eocene of Wyoming. Robert J. Baker, in his chapter, tabulates known information concerning chromosome numbers and arrangements and relates this to classical bat taxonomy. Terry A. Vaughan provides a comparative anatomy of the major variations in osteology among the various kinds of bats, with special emphasis on adaptations for flight, and then provides similar information for striated muscles. A third chapter by Vaughan summarizes the functional anatomy of flight. Here again we are impressed by the diversity among bats, with styles of flight ranging from the "slow, highly maneuverable flight" of typical insectivorous bats to the flight of hoverers, fast fliers, and even "fly catcher" bats with "slow, delicate style of flight." The remaining chapters, on prenatal and postnatal development by Robert T. Orr, migration and homing by Donald R. Griffin, the ecology and physiological ecology of hibernation by Wayne H. Davis, thermoregulation and metabolism by Charles P. Lyman, and the urinary system by Robert M. Rosenbaum, all add further documentation of the extensive adaptive radiation in structure and habits evident in this group of mammals.

Volume 2 contains seven chapters. Six of these—"Integument and derivations" by W. B. Quay, "The central nervous system" by O. W. Henson, Jr., "Peripheral nervous system" by Quay, "The ear and audition" by Henson, "Vision, olfaction, taste" by Roderick A. Suthers, and "Pineal organ" by Quay—are summaries of the detailed morphology and function of various organs and organ systems. Chapter 7, "Bats in relation to the health, welfare,

and economy of man," by Denny G. Constantine, summarizes the role of bats in diseases, including rabies, as well as their impact on fruit growing in the tropics and insect control and guano production throughout tropical and temperate climates. The terminal portion of the chapter summarizes control measures for vampire, fruit, and insectivorous bats.

From the foregoing summary of contents, it is obvious that these two volumes will be of interest not only to profess onal chiroptologists but to many others, including vertebrate zoologists, anatomists, physiologists, and public health workers. Each chapter includes an extensive list of references.

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#### **Aerosols**

The Dynamics of Aerocolloidal Systems. G. M. Hidy and J. R. Brock. Pergamon, New York, 1971. xvi, 380 pp., illus. \$27. International Reviews in Aerosol Physics and Chemistry.

This book is intended to be the first of a series of International Reviews on Aerosol Physics and Chemistry and so it seems particularly appropriate that it should concentrate on the mechanical properties of aerosols.

In their introduction the authors state that their aim is "to explore the dynamical behaviour of idealized aerosol particles in the light of modern developments in classical mechanics." With this objective in view, they deliberately neglect the detailed microscopic properties of aerosol particles—except insofar as they can be included in macroscopic parameters—and treat the particles as smooth, chemically inert spheres.

Having made this idealization, the authors proceed to a stimulating consideration of aerosols from the point of view of the kinetic theory of gases. As they point out, it is, however, difficult to follow this through to give a rigorous statistical treatment of the general case. Nevertheless, many cases of practical interest can be covered by making the simplifying assumption that the aerosol particles do not interact with each other directly, and so the authors go on to develop a statistical mechanical model for this special case.

In this treatment they bring out very clearly the importance of the ratio of the size of the aerosol particles to the mean free path of a molecule in the suspending gas. They distinguish between the continuum regime, where the particles are very large compared to the mean free path of the mo ecules, and the other extreme, where the particles can simply be regarded as large molecules, and they discuss the difficult intermediate cases.

In the rest of the book, Hidy and Brock consider various special topics, such as heat and mass transport to aerosol particles, the diffusion of aerosols, and collisions between aerosol particles, using the basic framework established in the opening chapters. In each case they begin with a general mathematical formulation and then consider special cases which are of special interest or amenable to mathematical solution.

This approach is perhaps the greatest strength and weakness of the book. Obviously the generalized formulations have the advantage that they can be used by workers in different fields They are, however, necessarily highly mathematical, and considerable effort will often be required to obtain practical results. The authors are clearly aware of this difficulty and have deliberately included more detailed experimental and theoretical results and an extensive bibliography. These features should help to make this book of value, not only to students seeking a general understanding of aerosol mechanics, but also to workers concerned with practical problems involving aerocolloidal systems.

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#### **Books Received**

Animal Gametes (Female). A Morphological and Cytochemical Account of Yolk Formation in Oogenesis. Vishwa Nath. Asia Publishing House, New York, 1971. xx, 196 pp. + plates. \$17.

Advances in Microbial Physiology. Vol. 5. A. H. Rose and J. F. Wilkinson, Eds. Academic Press, New York, 1971. x, 302 pp., illus. \$14.50.

Aerodynamic Characteristics of Atmospheric Boundary Layers. Erich P. Plate. U.S. Atomic Energy Commission, Oak Ridge, Tenn., 1971 (available as TID-25465 from the National Technical In(Continued on page 855)

#### **BOOKS RECEIVED**

(Continued from page 807)

formation Service, Springfield, Va.). viii, 190 pp., illus. Paper, \$3. AEC Critical Review Series.

Anatomy of the Normal Human Thalamus. Topometry and Standardized Nomenclature. A. Dewulf. Elsevier, New York, 1971. xiv, 196 pp., illus. \$26.

Applied Coastal Geomorphology. J. A. Steers, Ed. M.I.T. Press, Cambridge, Mass., 1971. 228 pp. + plates. \$10.

Arithmetic. An Introduction to Mathematics. Bevan K. Youse. Canfield, San Francisco, 1971. x, 294 pp., illus. \$8.95.

Aspects of the Biology of Symbiosis. Proceedings of a symposium, Boston, December 1969. Thomas C. Cheng, Ed. Butterworths, London, and University Park Press, Baltimore, Md., 1971. x, 328 pp., illus. \$14.50.

Atlas of Energy Budgets of Plant Leaves. David M. Gates and LaVerne E. Papian. Academic Press, New York, 1971. viii, 278 pp., illus. \$14.50.

Atlas of United States Trees. Vol. 1, Conifers and Important Hardwoods. Elbert L. Little, Jr. U.S. Forest Service, Washington, D.C., 1971 (available from the Government Printing Office, Washington, D.C.). Variously paged, with overlays. \$16.75.

Atoms, Stars, and Nebulae. Lawrence H. Aller. Harvard University Press, Cambridge, Mass., ed. 2, 1971. xii, 352 pp., illus. \$11.95.

**Biological Principles and Processes.** Claude A. Villee and Vincent G. Dethier. Saunders, Philadelphia, 1971. xxii, 1010 pp., illus. \$11.25.

The Biology of Flowering. Frank B. Salisbury. Published for the American Museum of Natural History by the Natural History Press, Garden City, N.Y., 1971. xiv, 176 pp., illus. \$5.95.

Biophysik. Eine Einführung in die Physikalische Analyse biologischer Systeme. Walter Beier. Thieme, Leipzig, ed. 3, 1968. x, 420 pp., illus. 39.50 M.

Les Bombycoïdes (Lepidoptera-Bombycoïdea) de l'Europe et du Bassin Méditerranéen. Vol. 1, Lemoniidae, Bombycidae, Brahmaeidae, Attacidae, Endromididae. P.-C. Rougeot. Masson, Paris, 1971. viii, 164 pp. + plates. 80 F. Faune de l'Europe et du Bassin Méditerranéen, vol. 5.

The Born-Einstein Letters. Correspondence between Albert Einstein and Max and Hedwig Born, from 1916 to 1955, with commentaries by Max Born. Translated by Irene Born. Walker, New York, 1971. xii, 240 pp. + plates. \$8.50.

Centurie de Lépidoptères de l'Île de

Centurie de Lépidoptères de l'Île de Cuba. Ph. Poey. Classey, Paris, 1970 (U.S. distributor, Entomological Reprint Specialists, Los Angeles). Unpaged, illus. \$30. Reprint of the 1832 edition.

The Challenge of Genetics. Problems Designed to Enlighten and Stimulate Students of Genetics. Edward H. Simon and Joseph Grossfield. Addison-Wesley, Reading. Mass., 1971. vi, 218 pp., illus. Paper, \$3.50.

Chemistry. Elementary Principles. Paul F. Weller and Jerome H. Supple. Addison-Wesley, Reading, Mass., 1971. xii, 644 pp., illus. \$10.75.

Class Context and Family Relations. A Cross-National Study. Leonard I. Pearlin. Little, Brown, Boston, 1971. xvi, 224 pp. \$7.95.

Combustion-Driven Oscillations in Industry. Abbott A. Putnam. Elsevier, New York, 1971. xiv, 208 pp., illus. \$18.50. Fuel and Energy Series.

Computer Methods for Ships Surface Design. Chengi Kuo. Elsevier, New York, 1971. x, 224 pp., illus \$15.90

Conference on Beneficial Uses of Thermal Discharges. Albany, N.Y., September 1970. Satyendra P. Mathur and Ronald Stewart, Eds. New York State Department of Environmental Conservation, Albany, 1971. 228 pp., illus. Paper, \$10.

A Course in Statistical Thermodynamics.

A Course in Statistical Thermodynamics. Joseph Kestin and J. R. Dorfman. Academic Press, New York, 1971. xviii, 578 pp., illus. \$17.50.

Crystal Chemistry and Semiconduction in Transition Metal Binary Compounds. J. P. Suchet. Academic Press, New York, 1971. xx, 380 pp., illus. \$22.

Developments in Applied Spectroscopy. Vol. 9. Papers from a symposium, Chicago, June, 1970. E. L. Grove and A. J. Perkins, Eds. Plenum, New York, 1971. x, 454 pp., illus. \$19.50.

Dialysis and Renal Transplantation. Vol. 7. Proceedings of conference, Barcelona, June 1970. J. Stewart Cameron, Daniel Fries, and Chisholm S. Ogg, Eds. Pitman, London, 1971 (U.S. distributor, Williams and Wilkins, Baltimore, Md.). xvi, 528 pp., illus. \$22.

The Distributional History of the Biota of the Southern Appalachians. Part 1, Invertebrates. A symposium, Blacksburg, Va., June 1968. Perry C. Holt, Richard L. Hoffman, and C. Willard Hart, Jr., Eds. Virginia Polytechnic Institute, Blacksburg, 1969. viii, 298 pp., illus. Paper, \$4.95. VPI Research Division Monograph 1.

Electroacoustics. Microphones, Earphones, and Loudspeakers. M. L. Gayford. Elsevier, New York, 1971. xii, 290 pp., illus. \$15. Standard Telephones and Cables Monograph.

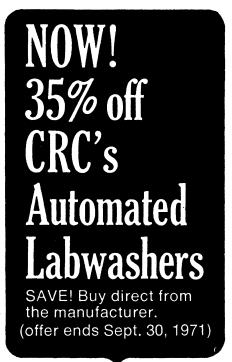
Electronic Properties of Materials. A Guide to the Literature. Vol. 3. D. L. Grigsby, Ed. IFI/Plenum, New York, 1971. Part 1, xiv, 1162 pp. Part 2, x, 756 pp. \$150.

The End of a Tradition. Culture Change and Development in the Município of Cunha, São Paulo, Brazil. Robert W. Shirley. Columbia University Press, New York, 1971. xvi, 304 pp. \$10.

Experiments Using Marine Animals. Fred A. Diehl, James B. Feeley, and Daniel G. Gibson, III. John M. King, Ed. Aquarium Systems, Eastlake, Ohio, 1971. iv, 92 pp., illus. Paper, \$4.50.

Forecasters' Guide to Tropical Meteorology. Gary D. Atkinson. Air Weather Service (MAC), Scott Air Force Base, Ill., 1971 (available from the National Technical Information Service, Springfield, Va.). Variously paged, illus. Paper, \$6. Technical Report 240.

Forest Resources in Canada. Current Status, Adequacy, Desirable and Future Development. Background Study for the Science Council of Canada. J. Harry G. Smith and Gilles Lessard. Information Canada, Ottawa, 1970. 204 pp. Paper,





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pleat Scientist, Samuel Wendell Williston (1851-1918). Elizabeth Noble Shor. University of Oklahoma Press, Norman, 1971. xiv, 286 pp., illus. \$8.95.

400 Ideas for Design. Vol. 2, Best Ideas for Design from Electronic Design, 1965 through 1970. Frank Egan, Ed. Hayden, New York, 1971. xvi, 280 pp., illus. \$11.95.

Gateway to Science. The Weizmann Institute at Twenty-Five. Lillie Shultz, Ed. Photographed by Peter Fink. Weidenfeld and Nicolson, Jerusalem, 1970. 192 pp., illus. Boxed.

A Geography of Landforms. John H. Vann. Brown, Dubuque, Iowa, 1971. x, 138 pp., illus. Paper, \$1.95.

A Guide to Fluidics. Arthur Conway, Ed. Macdonald, London, and Elsevier, New York, 1971. vi, 146 pp., illus. \$8.

Handbook of Drug Interactions. Gerald Swidler. Wiley-Interscience, New York, 1971, x, 384 pp. \$15.

A Handbook on Evolution. Gavin de Beer. British Museum (Natural History), London, ed. 4, 1970. xii, 132 pp., illus.

Industrial Organization and Management. Lawrence L. Bethel, Franklin S. Atwater, George H. E. Smith, and Harvey A. Stackman, Jr. Revised by James L. Riggs. McGraw-Hill, New York, ed. 5, 1971. xiv, 682 pp., illus. \$12.50.

Introduction to Coastline Development. J. A. Steers, Ed. M.I.T. Press, Cambridge, Mass., 1971. 230 pp., illus. \$10.

The Jerusalem Symposia on Quantum Chemistry and Biochemistry. Vol. 3, Aromaticity, Pseudo-Aromaticity, Anti-Aromaticity. Proceedings, Jerusalem, March 1970. Ernst D. Bergmann and Bernard Pullman, Eds. Israel Academy of Sciences and Humanities, Jerusalem, 1971 (U.S. distributor, Academic Press, New York). 398 pp., illus. \$21.50.

Lazare Carnot Savant. Charles Coulston Gillispie. Princeton University Press, Princeton, N.J., 1971. xii, 360 pp., illus. \$17.50.

Let There Be Light. George M. Greenfield. Vantage, New York, 1971. 58 pp. \$3.50.

Life and Death in a Coral Sea. Jacques-Yves Cousteau, with Philippe Diolé. Translated from the French by J. F. Bernard. Doubleday, Garden City, N.Y., 1971. 302 pp., illus. \$8.95.

Linear Models. S. R. Searle. Wiley, New York, 1971. xxiv, 532 pp., illus. \$19.95.

The Mathematical Papers of Isaac Newton. Vol. 4, 1674-1684. D. T. Whiteside, Ed., with the assistance in publication of M. A. Hoskin and A. Prag. Cambridge University Press, New York, 1971. xxxiv, 678 pp., illus. \$55.

Mechanical Engineering and Economics and Ethics for Professional Engineering Examinations. Eugene Stamper and Stanley Dublin. Hayden, New York, 1971. xxii, 392 pp., illus. \$14.95.

The Micropalaeontology of Oceans. Proceedings of a symposium, Cambridge, England, September 1967. B. M. Funnell and W. R. Riedel, Eds. Cambridge University Press, New York, 1971. x, 828 pp., illus. \$55.

Middle Albian Stratigraphy in the Anglo-Paris Basin. Hugh Gwvn Owen. British Museum (Natural History), London, 1971. 164 pp. + plates + foldout maps. Paper, £6. Geological (Palaeontological) Series, Supplement No. 8.

Models of Manpower Systems. Proceedings of a conference, Oporto, Portugal, September 1969. A. R. Smith, Ed. Elsevier, New York, 1971. xii, 432 pp., illus. \$20.

Molecular Aspects of Sickle Cell Hemoglobin. Clinical Applications. Robert M. Nalbandian, Ed. Thomas, Springfield, Ill., 1971. xviii, 200 pp., illus. \$15.75.

The Monroe Doctrine. An American Frame of Mind. Charles Morrow Wilson. Auerback, Princeton, N.J., 1971. 156 pp.

Narcotic Drugs. Biochemical Pharmacology. Doris H. Clouet, Ed. Plenum, New York, 1971. xxii, 506 pp., illus. \$28.

Olmec. An Early Art Style of Precolumbian Mexico. Charles R. Wicke. University of Arizona Press, Tucson, 1971. xx, 188 pp., illus. \$12.

Optical Holography. Robert J. Collier, Christoph B. Burckhardt, and Lawrence H. Lin. Academic Press, New York, 1971. xviii, 606 pp., illus. \$22.

Organometallic Reactions. Vol. 2. Ernest I. Becker and Minoru Tsutsui, Eds. Wiley-Interscience, New York, 1971. xii, 450 pp., illus. \$22.

Paleoecological Aspects of a Modern Coastal Lagoon, John E. Warme. University of California Press, Berkeley, 1971. viii, 132 pp., illus. + loose charts. Paper,

Patterns in Cancer Mortality in the United States: 1950-1967. Fred Burbank. National Cancer Institute. National Institutes of Health, Bethesda, Md., 1971 (available from the Superintendent of Documents, Washington, D.C.). xvi, 594 pp., illus. \$6.25.

The Physiology of Excitable Cells. D. J. Aidley. Cambridge University Press, New York, 1971. x, 468 pp., illus. \$15.

Polyacetals. S. J. Barker and M. B. Price. Published for the Plastics Institute by Elsevier, New York, 1971. 176 pp., illus. \$8.50.

Polarization Phenomena in Nuclear Reactions. Proceedings of a symposium, Madison, Wis., August 1970. H. H. Barschall and W. Haeberli, Eds. University of Wisconsin Press, Madison, 1971. xxx, 930 pp., illus. \$15.

Post-Partum Family Planning. A Report on the International Program. Gerald I. Zatuchni, Ed. McGraw-Hill, New York, 1971. xxxii, 478 pp. \$15.

Proceedings of the 1970 CERN Computing and Data Processing School. Varenna, Italy, August 1970. European Organization for Nuclear Research (CERN), Geneva, 1971. x, 470 pp., illus. Paper. CERN 71-6.

Pulsating Stars 2. A Nature Reprint. Plenum, New York, 1971. xii, 116 pp., illus. \$12.

Rapport d'Activité, 1968. Centre National de la Recherche Scientifique, Paris, 1969. 304 pp. Paper.

Rapport d'Activité, 1969. Centre National de la Recherche Scientifique, Paris, 1970. 336 pp., illus. Paper.

Regional Input-Output Study. Recollections, Reflections, and Diverse Notes on the Philadelphia Experience. Walter Isard and Thomas W. Langford. M.I.T. Press, Cambridge, Mass., 1971. xviii, 228 pp., illus. \$10.

Safety in the Chemical Laboratory. Vol. 2. Norman V. Steere, Ed. Chemical Education, Easton, Pa., 1971. viii, 132 pp., illus. Paper, \$3.50. Reprinted from the Journal of Chemical Education, 1967–1970.

Science and Civilisation in China. Vol. 4, Physics and Physical Technology. Part 3, Civil Engineering and Nautics. Joseph Needham, with the collaboration of Wang Ling and Lu Gwei-Djen. Cambridge University Press, New York, 1971. Iviii, 932 pp., illus. + foldout maps. \$55.

Science and the Future of Man. Proceedings of a conference, Boston, December 1969. Robert L. Carovillano and James W. Skehan, Eds. M.I.T. Press, Cambridge, Mass., 1971. xiv, 196 pp. \$10.

The Scientific Origins of National Socialism. Social Darwinism in Ernest Haeckle and the German Monist League. Daniel Gasman. Macdonald, London, and Elsevier, New York, 1971. xxxii, 208 pp. + plates. \$13.50. History of Science Library.

The Scientific Papers of Sir Geoffrey Ingram Taylor. Vol. 4, Mechanics of Fluids, Miscellaneous Papers. G. K. Batchelor, Ed. Cambridge University Press, New York, 1971. x, 580 pp. + plates. \$35.

The Scientist's Role in Society. A Comparative Study. Joseph Ben-David. Prentice-Hall, Englewood Cliffs, N.J., 1971. xii, 208 pp. Cloth, \$6.95; paper, \$2.95. Foundations of Modern Sociology Series.

Screening Methods in Pharmacology.
Vol. 2. Robert A. Turner and Peter Hebborn, Eds. Academic Press, New York, 1971. xx, 288 pp., illus. \$17.50.

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Secrets of the Great Pyramid. Peter Tompkins. Harper and Row, New York, 1971. xvi, 416 pp., illus. \$12.50.

Selected Readings in Economic Theory from Econometrica. Kenneth J. Arrow, Ed. M.I.T. Press, Cambridge, Mass., 1971. x, 448 pp. \$15.

Sensorineural Hearing Loss. A Ciba Foundation symposium, London, December 1969. G. E. W. Wolstenholme and Julie Knight, Eds. Churchill, London, 1970 (U.S. distributor, Williams and Wilkins, Baltimore, Md.). x, 358 pp., illus. \$14.

Shock Waves in Collisionless Plasmas. D. A. Tidman and N. A. Krall. Wiley-Interscience, New York, 1971. xii, 176 pp., illus. \$10.50.

Silicon Nitride for Microelectronic Applications. Part 1, Preparation and Properties. John T. Milek. IFI/Plenum, New York, 1971. viii, 118 pp., illus. \$10. Handbook of Electronic Materials, vol. 3.

Spectrochemical Methods of Analysis. Quantitative Analysis of Atoms and Molecules. J. D. Winefordner, Ed. Wiley-Interscience, New York, 1971. xiv, 530 pp., illus. \$23. Advances in Analytical Chemistry and Instrumentation, vol. 9.

Speech Pathology. An Applied Behavioral Science. William H. Perkins. Mosby, Saint Louis, Mo., 1971. xiv, 450 pp., illus. \$11.75.

Statisitcal Analysis of Geological Data.

Vol. 11. George S. Koch, Jr., and Richard F. Link. Wiley, New York, 1971. x, 438 pp., illus. \$17.50.

Statistical Ecology. Vol. 1, Spatial Patterns and Statistical Distributions. A symposium, New Haven, Conn., August 1969. G. P. Patil, E. C. Pielou, and W. E. Waters, Eds. Pennsylvania State University Press, University Park, 1971. xxviii, 582 pp., illus. \$14.50.

Stochastic Processes in Information and Dynamical Systems. Eugene Wong. McGraw-Hill, New York, 1971. xii, 308 pp. \$13.95.

The Stress of Life. Hans Selye. Mc-Graw-Hill, New York, 1971. xviii, 328 pp., illus. Paper, \$2.95. Reprint of the 1956 edition.

Subnuclear Phenomena. 1969 International School of Physics "Ettore Majorana." An Italian Ministry of Public Education–NATO Advanced Study Institute, Erice, Italy. A. Zichichi, Ed. Academic Press, New York, 1970. Part A, xx + pp. 1–328. Part B, xvi + pp. 329–710 + foldout chart. Illus. \$24 each.

The Successful Engineer-Manager. A Practical Guide to Management Skills for Engineers and Scientists. Robert C. Haavind and Richard L. Turmail, Eds. Hayden, New York, 1971. x, 164 pp., illus. \$8.95.

Terminology of Forest Science, Technology Practice and Products. English-Language Version. F. C. Ford-Robertson, Ed. Society of American Foresters, Washington, D.C., 1971. xxii, 350 pp. \$10. Multilingual Forestry Terminology Series, No. 1.

Theory of Resistive Mixers. Adel A. M. Saleh. M.I.T. Press, Cambridge, Mass., 1971. xvi, 184 pp., illus. \$12. M.I.T. Research Monograph No. 64.

Thermodynamics. Kenneth Wark. Mc-Graw-Hill, New York, ed. 2, 1971. xvi, 784 pp., illus. \$16.50.

Thick-Film Microelectronics. Fabrication, Design, and Applications. Morton L. Topfer. Van Nostrand Reinhold, New York, 1971. xii, 210 pp., illus. \$10.95. Microelectronics Series.

III-V Semiconducting Compounds. M. Neuberger. IFI/Plenum, New York, 1971. vi, 116 pp. \$10. Handbook of Electronic Materials, vol. 2.

Time and the Space-Traveller. L. Marder. Allen and Unwin, London, 1971. 216 pp. £3.25.

**Topics in Carbocyclic Chemistry.** Vol. 1. Douglas Lloyd, Ed. Logos, London, and Plenum, New York, 1971. xii, 372 pp., illus. \$26.

Touch, Tickle and Pain. Part 2. Yngve Zotterman. Pergamon, New York, 1971. x, 294 pp., illus. \$8.

Visual Thinking. Rudolf Arnheim. University of California Press, Berkeley, 1971. xii, 346 pp., illus. Paper, \$4.25. Reprint of the 1969 edition.

War and the Human Race. Maurice N. Walsh, Ed. Elsevier, New York, 1971. viii, 96 pp. \$5.75. University of California at Los Angeles Faculty Lecture Series, 1968.

The War with Words. Structure and Transcendence. Harley C. Shands. Mouton, The Hague, 1971. 128 pp. 23 G. Approaches to Semiotics, vol. 12.

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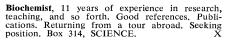
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Curatorial opening, now exists for a Ph.D. in Zoology to be responsible in a New York City cultural institution for the design and administration of innovative educational programs in the fields of zoological and environmental sciences. Visiting students served by these programs range from preschool to college level. Ability to speak and write on zoological subjects for both scientific and popular audiences are requisites. An Equal Opportunity Employer.

Please send curriculum vitae to

Box 319, SCIENCE