

winters, has participated in both eras of exploration; he counters the tendency of many operational and scientific specialists to disparage "old explorers" by showing the interdependent role of the explorer-scientist in any scientific pursuit: "for the explorers who go into an unknown area to uncover the existence of land are primarily concerned with giving a first approximation of *what* exists rather than precisely *where* it exists. It is the duty of those who come later to locate precisely what is there and where it is. Unfortunately, the almost inevitable poor positioning of the first explorers is invariably the target of criticism by these latecomers, concerned with filling in the details of geology and geography. Both groups are vital to the process of exploration!" Readers may mentally add—and to scientific progress.

GERALD PAGANO

U.S. Army Research Office,  
Washington 25, D.C.

## New Books

*Atmospheric Diffusion and Air Pollution*. vol. 6, *Advances in Geophysics*. F. N. Frenkiel and P. A. Sheppard, Eds. Academic Press, New York, 1959. 488 pp. \$12. Proceedings of a symposium held at Oxford, England, 24–29 August 1958, and sponsored by the International Union of Theoretical and Applied Mechanics and the International Union of Geodesy and Geophysics.

*The Chemical Analysis of Air Pollutants*. Morris B. Jacobs. Interscience, New York, 1960. 448 pp. \$13.50.

*College Physics*. Francis Weston Sears and Mark W. Zemansky. Addison-Wesley, Reading, Mass., ed. 3, 1960. 1047 pp. \$9.75.

*Dreams and Personality Dynamics*. Manfred F. DeMartino. Thomas, Springfield, Ill., 1959. 394 pp. \$10.50.

*Encyclopedia of Medical Syndromes*. Robert H. Durham. Hoeber-Harper, New York, 1960. 642 pp. \$13.50. The *Encyclopedia's* stated purpose is "to present in an editorial style a comprehensive reference text of medical syndromes with an accompanying list of correlated synonyms." The result is an alphabetically arranged, cross indexed list of approximately 1000 syndromes. The description of each syndrome is followed by reference to key literature; descriptions vary in length from a single line to more than a page. The index is arranged by classifications: allergic syndromes, connective-tissue disorders, and so forth.

*Essentials of Healthier Living*. Justus J. Schiffer. Wiley, New York, 1960. 343 pp. \$5.50.

*Geologic Names of North America Introduced in 1936–1955*. Bull. 1056-A. Druid Wilson, William J. Sando, Rudolph W. Kopf. U.S. Geological Survey, Washington, D.C., 1959. 405 pp. \$1. The

*Lexicon of Geologic Names of the United States* was published in 1938 and reprinted in 1951 and in 1957. This bulletin is the first step in revising the lexicon; North America, including Greenland and the West Indies, the Pacific Island possession of the United States, and the Trust Territory of the Pacific Islands are included.

*Histochemistry*. Theoretical and applied. A. G. Everson Pearse. Little, Brown, Boston, Mass., ed. 2, 1960. 1008 pp. \$20.

*The New Frontier*. Man's survival in the sky. K. G. Williams. Thomas, Springfield, Ill., 1959. 169 pp. \$5.50.

*Severdrup's Arctic Adventures*. T. C. Fairley. Longmans, Green, New York, 1960. 317 pp. \$6. This book was adapted from *New Land: Four Years in the Arctic Regions, 1904*. Fairley has added some new chapters.

*Strange World of the Moon*. An inquiry into its physical features and the possibility of life. V. A. Firsoff. Basic Books, New York, 1960. 236 pp. \$6.

*Tukani*. Helmut Sick. Translated by R. H. Stevens. Eriksson-Taplinger, New York, 1960. 240 pp. \$5. Translated from *Tukani* published by Paul Parey, Hamburg, 1957.

*The Zoological Record*. vol. 93. G. Burder Stratton, Ed. Zoological Society of London, London, 1959. 20 sections. £8. This annual volume comprises 19 sections, which, with the exception of the section on comprehensive zoology and the list of new genera and subgenera, record the literature relating to a class or phylum of the animal kingdom. In addition to the bound volume, each section is published separately as soon as it is completed—for example, the Aves section of volume 94 was published on 16 September 1958, and that of volume 95 on 11 October 1959.

## Miscellaneous Publications

(Inquiries concerning these publications should be addressed not to Science, but to the publisher or agency sponsoring the publication.)

British Museum (Natural History). *Bulletin*, Entomology, vol. 8, No. 5, *The Walker Types of Fruit Flies (Tephritidae-Diptera) in the British Museum Collection*, D. Elmo Hardy, 84 pp. 30s. Historical Ser., vol. 2, No. 1, *Darwin's Journal*, Gavin de Beer, Ed., 22 pp., 8s. Historical Ser., vol. 2, No. 2, *Darwin Notebooks on Transmutation of Species*; part 1, *First Notebook (July 1837–February 1838)*, Gavin de Beer, Ed., 1960. *The John Murray Expedition, 1933–34, Scientific Reports*, vol. 10, No. 5, *Sponges*, Maurice Burton, 130 pp. £2; vol. 10, No. 6, *Report of the Brachiopoda of the John Murray Expedition*, Helen M. Muir-Wood, 36 pp., £1, 1959. British Museum (Natural History), London.

Institute pour la Recherche Scientifique en Afrique Centrale. *Eleventh Annual Report*. 1958. The Institute, Brussels, Belgium, 1959. 375 pp.

Institute of International Education. *Thirty-ninth Annual Report*. 1 January 1958–30 June 1959. Institute of International Education, New York 21, 1959. 64 pp.

*International Geophysical Year, 1957–58, United States Program*. Report of the U.S. Committee. Stanley Ruttenberg, Ed.

IGY World Data Center A, National Acad. of Sciences, Washington 25, 1960. 90 pp. \$1.

*Mental Health Problems of Automation*. Report of a study group. WHO Tech. Rept. Ser. No. 183. World Health Organization, Geneva, 1959 (order from Columbia Univ. Press, New York). 30 pp. \$0.30.

National Academy of Sciences–National Research Council, Office of Scientific Personnel. Tech. Rept. No. 15, *Validation of Fellowship Selection Instruments against a Provisional Criterion of Scientific Accomplishment*. Lindsey R. Harmon. 10 pp. Tech. Rept. No. 16, *Effects of a Summary Score on Panel Judgements*. Herbert Soldz. 13 pp. *Report of the Conference on Chemical Compounds of Certified High Purity*. Sponsored by the Academy–Council and the National Science Foundation, 22–23 June 1959. 62 pp. National Academy of Sciences–National Research Council, Washington 25, D.C.

National Science Foundation. *Ninth Annual Report, 1959*. National Science Foundation, Washington, D.C. (order from Supt. of Documents, GPO, Washington 25).

*The Nth Country Problem and Arms Control*. A statement by the NPA special projects committee on security through arms control and a technical report written by William C. Davidson, Marvin I. Kalstein, and Christoph Hohenemser. National Planning Assoc., Washington, D.C., 1960. 62 pp. \$1.

*Natural Aerosols and Nuclear Debris Studies*, GRB Research Notes, No. 24, M. I. Kalkstein et al., 36 pp. *Global Fallout and Its Variability*, Geophysical Research Paper No. 65, E. A. Martell, 26 pp. *Scientific Studies at Fletcher's Ice Island, T-3, 1952–1955*, vol. 1, Geophysical Research Papers No. 63, Vivian Bushnell, Ed. Air Research and Development Command, Bedford, Mass., 1959 (order from U.S. Department of Commerce, Office of Technical Services, Washington 25).

*Occurrence and Biological Effects of Fluorine Compounds*, Annotated Bibliography. vol. 1, books 1 and 2, *The Inorganic Compounds*. Irene R. Campbell and Evelyn M. Widner. Univ. of Cincinnati, Ohio, 1958. 995 pp. \$25.

*The Puerto Rican Population: A Study in Human Biology*. Frederick P. Thieme. Univ. of Michigan, Ann Arbor, 1959. 200 pp. \$2.50.

*Qualifications and Teaching Loads of Mathematics and Science Teachers*. Circular No. 575. Kenneth E. Brown and Ellsworth S. Obourn. U.S. Office of Education, Washington, D.C., 1959. 101 pp. \$0.70.

*Quality in Laboratory Animals*. Report of a symposium. Laboratory Animals Centre, Collected Papers, vol. 8, M.R.C. Laboratories, Woodmansterne Rd., Carshalton, Surrey, England, 1959. 68 pp. 10s.

*Survey of Geology-Geophysics Students in the Colleges and Universities of United States and Canada in 1958–59*. Compiled by Bonnie C. Henderson. American Geological Institute, 2101 Constitution Avenue, NW, Washington 25, 1959, 23 pp. \$0.50.