

tions for testing completeness of registration and of statistical reporting as well as for assessment of the quality of the data. The suggestions are not exhaustive, but they are indicative of the directions evaluation may take.

The *Handbook* is, in effect, a commentary on the 1953 *Principles for a Vital Statistics System* that demonstrates from actual practices the rationale behind the latter document. Its recognition that more than one method may serve the principles laid down enhances its effectiveness.

The annexes include a chronology of important events in registration and vital statistics history, a reproduction of the earlier *Principles of a Vital Statistics System*, definitions of "stillbirth" in 84 countries, and an extremely valuable list of references classified by subject matter. The index is sufficiently detailed to afford ready reference to specific subjects.

Altogether, the *Handbook* provides a liberal education in its field. It should be read by every consumer of vital statistics. For registrars and producers of vital statistics, it is a must, and for areas that are building a vital statistics system, it represents an indispensable *vade mecum*.

CARL L. ERHARDT

Bureau of Records and Statistics,  
New York City Department of Health

## New Books

*Swine Production*. W. E. Carroll and J. L. Krider. McGraw-Hill, New York, ed. 2, 1956. 496 pp. \$6.50.

*Microscopic Petrography*. Wm. Heinrich. McGraw-Hill, New York, 1956. 296 pp. \$6.50.

*Physics of Fully Ionized Gases*. Lyman Spitzer, Jr. Interscience, New York, 1956. 105 pp. Paper, \$1.75; cloth, \$3.50.

*Economic Geography of Industrial Materials*. Albert S. Carlson, Ed. Reinhold, New York; Chapman & Hall, London, 1956. 494 pp. \$12.50.

*Kernmomente*. Hans Kopfermann. Akademische Verlagsgesellschaft, Frankfurt, 1956. 462 pp.

*General Biology*. Harrington Wells and Patrick H. Wells. McGraw-Hill, New York, 1956. 520 pp. \$6.50.

*Alcoholism, Its Psychology and Cure*. Frederick B. Rea. Philosophical Library, New York, 1956. 143 pp. \$3.50.

*Life in Fresh Water*. E. S. Brown. Geoffrey Cumberlege. Oxford Univ. Press, London, 1955. 64 pp. \$2.75.

*Voices on the Wind*. Polynesian myths and chants. Katharine Luomala. Bishop Museum Press, Honolulu, 1955. 191 pp.

*Portraits from Memory*. Recollections of a zoologist. Richard B. Goldschmidt. Univ. of Washington Press, Seattle, 1956. 181 pp. \$3.50.

*The Physical World*. Paul McCorkle. McGraw-Hill, New York, ed. 2, 1956. 465 pp. \$5.25.

*Biochemical Mechanisms in Inflammation*. Valy Menkin. Thomas, Springfield, Ill., ed. 2, 1956. 437 pp. \$9.50.

*A Venture Forward*. A history of the American College of Hospital Administrators. Ira A. Kipnis, Comp. American College of Hospital Administrators, Chicago, Ill., 1955. 145 pp.

*A Textbook of General Physiology*. Philip H. Mitchell. McGraw-Hill, New York, ed. 5, 1956. 885 pp. \$10.50.

*Culture, Psychiatry and Human Values*. The methods of a social psychiatry. Marvin K. Opler. Thomas, Springfield, Ill., 1956. 242 pp. \$6.

*Every Other Bed*. Mike Gorman. World, Cleveland, 1956. 318 pp. \$4.

*Thinking Things Through*. An introduction to logic. Maylon H. Hepp. Scribner's, New York, 1956. 455 pp. \$5.50.

*The Annual Survey of Psychoanalysis*. A comprehensive survey of current psychoanalytic theory and practice. vol. III, 1952. John Frosch, Ed., and Nathaniel Ross, Sidney Tarachow, and Jacob A. Arlow. International Universities Press, New York, 1956. 682 pp. \$10.

*Art in Coinage*. The aesthetics of money from Greece to the present day. C. H. V. Sutherland. Philosophical Library, New York, 1956. 223 pp. \$7.50.

*The Religion of Negro Protestants*. Changing religious attitudes and practice. Ruby Funchess Johnston. Philosophical Library, New York, 1956. 224 pp. \$3.

*History of American Technology*. John W. Oliver. Ronald Press, New York, 1956. 676 pp. \$6.50.

*Proceedings of the International Conference on the Peaceful Uses of Atomic Energy*. vol. 15, *Applications of Radioactive Isotopes and Fission Products in Research and Industry*. 327 pp. \$7.50. vol. 16, *Record of the Conference*. 203 pp. \$5. United Nations, New York, 1956 (order from Columbia University Press, New York).

*Textbook of Chemistry*. Edward Mack, Jr., Alfred B. Garrett, Joseph F. Haskins, Frank H. Verhoek. Ginn, Boston, ed. 2, 1956. 854 pp. \$6.50.

*Handbook of Mammals of Kansas*. Misc. Publ. No. 7. Contribution from the State Biological Survey of Kansas. E. Raymond Hall. Museum of Natural History, University of Kansas, Lawrence, 1955. 303 pp. Paper, \$1.50; cloth, \$4.

*Cultures Tropicales*. vol. I, *Plantes Vivrières*. Raoul Cerighelli. Bailliere, Paris, 1955. 635 pp.

*Gall Midges of Economic Importance*. vol. VII, *Gall Midges of Cereal Crops*. H. F. Barnes. Lockwood, London, 1956. 261 pp. 21s.

*Methods of Biochemical Analysis*. vol. III. David Glick, Ed. Interscience, New York, 1956. 437 pp. \$9.50.

*The Navajos*. Ruth M. Underhill. University of Oklahoma Press, Norman, 1956. 299 pp. \$4.50.

*Frequency Response*. Rufus Oldenburger, Ed. Macmillan, New York, 1956. 372 pp. \$7.50.

*The Science Teacher in Action*. Helen Lawrence Merrill. Christopher, Boston, Mass., 1956. 84 pp. \$2.25.

*Essays in Educology*. Being the first report from the archives of the Association for the Preservation of Humor in Educational Workers. Lowry W. Harding. Brown, Dubuque, Iowa, 1956. 186 pp. \$2.50.

## Index of Books Reviewed in SCIENCE, 15 April 1955 through 20 April 1956

### Astronomy

*Frontiers of Astronomy*, F. Hoyle (Harper), 23 Mar. 1956, 512

*Gas Dynamics of Cosmic Clouds*, International Union of Theoretical and Applied Mechanics and International Astronomical Union (Interscience; North-Holland), 11 Nov. 1955, 928

*Le Magnétisme des Corps Célestes*, vol. 1, *Magnétisme Solaire et Stellaire Couronne Solaire et Lumière Zodiacale*; vol. 2, *Variations et Origine du Géomagnétisme*, pts. II and III of *Physique Cosmique*, A. Dauvillier (Hermann), 8 July 1955, 81

*Principes Fondamentaux de Classification Stellaire*, Centre National de la Recherche Scientifique (Le Centre), 25 Nov. 1955, 1023

*Radio Astronomy*, J. L. Pawsey and R. N. Bracewell (Oxford Univ. Press), 23 Dec. 1955, 1237

*Transactions of the International Astronomical Union*, P. Th. Oosterhoff, Ed. (Cambridge Univ. Press), 10 June 1955, 827

*Variable Stars and Galactic Structure*, C. Payne-Gaposchkin (Athlone), 19 Aug. 1955, 338

### Biochemistry

*Adrenal cortex*, E. P. Ralli, Ed. (Josiah Macy, Jr., Foundation), 28 Oct. 1955, 835

*Advances in Enzymology and Related Subjects of Biochemistry*, F. F. Nord, Ed. (Interscience), 6 May 1955, 669

*Advances in Protein Chemistry*, vol. IX, M. L. Anson, K. Bailey, J. T. Edsall, Eds. (Academic), 19 Aug. 1955, 336

*The Alkaloids: Chemistry and Physiology*, R. H. F. Manske and H. L. Holmes, Eds. (Academic), 29 Apr. 1955, 637

*Analysis of Development*, B. H. Willier, P. A. Weiss, V. Hamburger, Eds. (Saunders), 12 Aug. 1955, 289

*Biochemical Investigations in Diagnosis and Treatment*, J. D. N. Nabarro (Little, Brown), 15 Apr. 1955, 565

*Biochemistry and Physiology of Protozoa*, vol. II, S. H. Hutner and A. Lwoff, Eds. (Academic), 26 Aug. 1955, 380

*Biochemistry of the Aminosugars*, P. W. Kent and M. W. Whitehouse (Academic), 16 Sept. 1955, 520

*Biochemistry of the Developing Nervous System*, H. Waelsch, Ed. (Academic), 6 Apr. 1956, 591

*Biochemistry of Nitrogen*, N. J. Toivonen, E. Tommila *et al.*, Eds. (Suomalainen Tiedeakatemia), 12 Aug. 1955, 290

*The Biochemistry of Semen*, T. Mann (Methuen; Wiley), 13 Apr. 1956, 637

*Chemical Pathways of Metabolism*, vol. I, D. M. Greenberg, Ed. (Academic), 1 July 1955, 38

*The Chemistry of Lipids of Biochemical Significance*, J. A. Lovern (Wiley), 14 Oct. 1955, 696

*Ciba Foundation Symposium on Chemistry and Biology of Pteridines*, G. E. W. Wolstenholme and M. Cameron, Eds. (Little, Brown), 26 Aug. 1955, 381

*Colchicine—in Agriculture, Medicine, Biology, and Chemistry*, O. J. Eigsti and