

by workers in federal agencies. The section on the central valley recalls early times in Michigan, the Chicago area, Wisconsin, and briefly in Ohio, Indiana, Minnesota, Iowa, Kansas, and Texas. The section on our western lands includes the Rocky Mountain area and California and the coastal area. Chapter 17 is a chronological review of societies and journals—the means of communication. The “Epilogue” permits the author to “look out his laboratory window” and philosophize a bit.

Clark writes with charm and with an accuracy based on study of the records and personal knowledge of most of the “pioneers.” His portrayals are sympathetic, concise, and interesting. The cut-off date is 1919, but in some instances, which he must be forgiven since he is writing history and not a card file, he goes much beyond that date—for example, in the discussion of homologous serum jaundice induced by a virus in yellow fever vaccine (1941, 1942).

Very few worthy personalities are omitted. Some familiarity with the material involved leads me to say this volume is a remarkably accurate, interesting, and valuable book which should be read by all bacteriologists. More such books should be written in this and in other fields. It is one thing to write a great man's biography but quite another to take a whole era and to set into its record the trends, the actors, and the accomplishments—and to do this in proper perspective and accurately. This Clark has done.

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Essays on Psychiatry

Lectures in Psychiatry. Pittsburgh Bicentennial Conference. Henry W. Brosin, Ed. University of Pittsburgh Press, Pittsburgh, Pa., 1961. x + 361 pp. \$7.50.

This volume is a compilation of lectures given at a conference on experimental psychiatry at the Western Psychiatric Institute and Clinic in March 1959. Essentially the volume amounts to essays on various topics by well-chosen experts. Accordingly, the book is far more readable than other published symposia based upon edited tape recordings of lectures.

All of the lectures are well done, and together they present an excellent overall view of the principal avenues along which research in modern psychiatry is progressing. The reader, depending upon his scientific biases, will enjoy some of the lectures more than others, but he can profit from all of them.

Examples of the content of the volume are as follows: discussion of the interaction of genetic and experiential variables in child development by John D. Benjamin; a review of the history, development, and implications of psychopharmacology by Joel J. Elkes; a conceptual analysis of the organization of human behavior by David McK. Rioch; and an account of recent developments in cybernetics by Warren S. McCulloch.

I recommend this book highly to anyone interested in the behavioral sciences.

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New Books

Biological and Medical Sciences

Advances in Tuberculosis Research. vol. 11. Hans Birkhauser, Hubert Block, and G. Canetti, Eds. Karger, New York, 1961. 279 pp. Illus. \$18.

Adaptation. Bruce Wallace and Adrian M. Srb. Prentice-Hall, Englewood Cliffs, N.J., 1961. 124 pp. Illus. Paper, \$1.50.

Animal Diversity. Earl D. Hanson. Prentice-Hall, Englewood Cliffs, N.J., 1961. 128 pp. Illus. Paper, \$1.50.

Biotic Principles. Herbert L. Stahnke. Merrill Books, Columbus, Ohio, 1961. 671 pp. Illus. + plates.

Canadian Cancer Conference. Proceedings of the fourth Canadian Cancer Research Conference, 1960. vol. 4. R. W. Begg, Arthur Ham, C. P. Leblond, R. L. Noble, and R. J. Rossiter, Eds. Academic Press, New York, 1961. 477 pp. Illus. \$12.

Coffee. Botany, cultivation, and utilization. Frederick L. Wellman. Hill, London; Interscience, New York, 1961. Illus. \$13.

Comparative Animal Physiology. C. Ladd Prosser and Frank A. Brown, Jr. Saunders, Philadelphia, Pa., ed. 2, 1961. 697 pp. Illus. \$15.50.

Ergebnisse der Bluttransfusionsforschung. vol. 6. R. Stahl. Karger, New York, 1961. 396 pp. Illus. \$16.

The Eucalypts. Botany, cultivation, chemistry, and utilization. A. R. Penfold and J. L. Willis. Hill, London; Interscience, New York, 1961. 571 pp. Illus. + plate. \$13.25.

Formation and Breakdown of Haemoglobin. C. P. Stewart, Ed. Elsevier, New York, 1961 (order from Van Nostrand, Princeton, N.J.). 71 pp. Illus.

Gnetum. Botanical Monograph No. 1. P. Maheshwari and Vimla Vasil. Council of Scientific and Industrial Research, New Delhi, India, 1961. 154 pp. Illus. + plates.

Heredity. David M. Bonner. Prentice-Hall, Englewood Cliffs, N.J., 1961. 126 pp. Illus.

The Merck Manual of Diagnosis and Therapy. Charles E. Lyght, Ed. Merck Sharp and Dohme Research Laboratories, Philadelphia, Pa., 1961. 1923 pp. Illus.

Oncogenic Viruses. Ludwik Gross. Pergamon, New York, 1961. 404 pp. Illus. \$12.

The Ontogeny of Insects. Acta Symposii de Evolutione Insectorum, Prague 1959. I. Hrdy, Ed. Czechoslovak Acad. of Sciences, Prague; Academic Press, New York, 1960. 406 pp. Illus. \$10.

Pharmaceutical Analysis. Takeru Higuchi and Einar Brochmann-Hanssen, Eds. Interscience, New York, 1961. 863 pp. Illus. \$28.50.

Physiology of Reproduction and Artificial Insemination of Cattle. G. W. Salisbury and N. L. VanDemark. Freeman, San Francisco, 1961. 651 pp. Illus. \$12.50.

Saliva and Its Relation to Oral Health. D. Ofonsky. Univ. of Alabama Press, University, 1961. 809 pp. \$12.

Samson Wright's Applied Physiology. Cyril A. Keele and Eric Neil. Oxford Univ. Press, London, ed. 10, 1961. 562 pp. Illus. \$13.50.

Some Aspects of Life in Fresh Water. Edward J. Popham. Harvard Univ. Press, Cambridge, Mass., 1961. 135 pp. Illus. \$2.25.

Translocation in Plants. A. S. Crafts. Holt, Rinehart, and Winston, New York, 1961. 192 pp. Illus. \$5.

Vertebrate Speciation. W. Frank Blair, Ed. Univ. of Texas Press, Austin, 1961. 658 pp. Illus. \$8.50. Twenty-one papers covering isolating mechanisms, evolution of behavior, polymorphism and polytypic species, population dynamics, and age and origin of species. The papers were read at a 5-day conference held in October 1958 at the University of Texas.

General

Ancient, Medieval, and Modern Christianity. Charles Guignebert. University Books, New York, 1961. 539 pp. \$7.50.

Divinity and Experience. The religion of the Dinka. Godfrey Lienhardt. Oxford Univ. Press, New York, 1961. 336 pp. Illus. \$6.75.

Emotion. A comprehensive phenomenology of theories and their meanings for therapy. James Hillman. Northwestern Univ. Press, Evanston, Ill., 1961. 328 pp. \$6.

Intervention and the War. Richard H. Ullman. Princeton Univ. Press, Princeton, N.J., 1961. 376 pp. Illus. \$7.50.

Physicist and Christian. William G. Pollard. Seabury Press, Greenwich, Conn., 1961. 191 pp. \$4.25.

Science and the New Nations. Ruth Bruber, Ed. Basic Books, New York, 1961. 329 pp. \$6.50.

Science Awakening. B. L. Van der Waerden. Translated by Arnold Dresden. Oxford Univ. Press, New York, 1961. 306 pp. Illus. \$7.50.