

Ultrastructure and Cellular Chemistry of Neural Tissue. vol. II of *Progress in Neurobiology*. Heinrich Waelsch, Ed. Hoeber-Harper, New York, 1957. xv + 249 pp. Illus. \$7.50.

This volume contains the proceedings of the second of the symposia organized by Saul Korey and John Nurnberger. The organizers deserve commendation for these discussions. Themselves able clinicians as well as scientists, their policy of holding these seminars coincident with clinical meetings serves as an important adjuvant to the interpenetration of the basic and clinical sciences. The present volume has no unifying theme but is, rather, a sampling of the entire field. Heinrich Waelsch's introduction succinctly justifies the existence of neurochemistry as a field in its own right and pleads for basic neurological research unhampered by demands for practical results.

What is so impressive is the multiplication of techniques and the correlations between so many fields. Appropriately, the volume opens with papers, by Robertson and Palay, stressing the relationships of chemical composition and function to ultrastructure. Among the remaining papers the dominant spirit is that of the replacement of the older chemistry and metabolism of nervous tissue as a whole by the precise localization of metabolic processes and the characterization of single components. Lowry's study of enzymes in single neurons, Geiger's technique for the tissue culture of cortical cells, Nurnberger and Gordon's differential counting of neuronal and non-neuronal nuclei, Loeser's method of scanning of cells stained with fluorescent dyes illustrate this trend. It is also seen in the four papers on the histochemical localization of enzymes in individual cells (Koelle, Gomori) and in those on the layers of cerebral cortex (Pope, Hess, and Allen) and cerebellum (Robbins, Smith, and Jen). The other contributions in the volume study biochemical changes in relation to development (Keup), neuropathology (Feigin, Wolf, and Carter; Pope), and drug actions (Bain, Berger). Lajtha and Furst discuss the blood-brain barrier and protein turnover.

If the volume has a defect it is in the omission of any discussion of the control of ionic movements in nerve, so central to modern electrophysiology and an important frontier of neurochemistry. It should also be mentioned that the date on which this symposium was held is kept a very dark secret throughout the volume.

NORMAN GESCHWIND
Massachusetts Institute of Technology

New Books

Atomic Energy in Medicine. K. E. Hannan. Philosophical Library, New York, 1957. 167 pp. \$6.

Buildings for Industry. An architectural record book. F. W. Dodge Corp., 1957. 309 pp. \$12.50.

Physics and Chemistry of the Earth. vol. 2. L. H. Ahrens, Frank Press, Kalervo Rankama, S. K. Runcorn, Eds. Pergamon Press, New York and London, 1957. 267 pp. \$10.

Autonomic Imbalance and the Hypothalamus. Implications for physiology, medicine, psychology, and neuropsychiatry. Ernst Gellhorn. University of Minnesota Press, Minneapolis, 1957. 314 pp. \$8.50.

Religion, Philosophy, and Science. An introduction to logical positivism. Burnham P. Beckwith. Philosophical Library, New York, 1957. 251 pp. \$3.75.

Intention. G. E. M. Anscombe. Cornell University Press, Ithaca, N.Y., 1957. 104 pp. \$1.50.

Of Things Bi-Illogical. Collected by Bernal R. Weimer. Bethany Press, St. Louis, 1957. 79 pp.

Circles. D. Pedoe. Pergamon Press, New York and London, 1957. 88 pp. \$3.75.

Fundamentals of Hydro- and Aeromechanics. Based on lectures of L. Prandtl. O. G. Tietjens. Translated by L. Rosenhead. Dover, New York, 1957. 286 pp. \$1.85.

Hemophilia and Hemophiloid Diseases. International Symposium. Kenneth M. Brinkhaus, Ed. University of North Carolina Press, Chapel Hill, 1957. 289 pp. \$7.50.

Physik und Technik der Atomreaktoren. Ferdinand Cap. Springer, Vienna, Austria, 1957. 516 pp. \$15.25.

Microscopic Anatomy of the Temporal Bone. A photographic survey of serial sections of the temporal bone cut in the three routine planes of sectioning human specimens. Dorothy Wolff, Richard J. Bellucci, Andrew A. Eggston. Williams & Wilkins, Baltimore, 1957. 422 pp. \$12.50.

Insect Flight. J. W. S. Pringle. Cambridge University Press, London, 1957. 141 pp. \$3.

Textile Chemicals and Auxiliaries. With special reference to surfactants and finishes. Henry C. Speel and E. W. K. Schwarz. Reinhold, New York; Chapman & Hall, London, 1957. 551 pp. \$13.50.

Non-Group Enrollment for Health Insurance. A study of administrative approaches of Blue Cross plans. Sol Levine, Odin W. Anderson, Gerald Gordon. Harvard University Press, Cambridge, Mass., 1957. 182 pp. \$5.

The Immense Journey. Loren Eiseley. Random House, New York, 1957. 210 pp. \$3.50.

How to Do an Experiment. Philip Goldstein. Harcourt, Brace, New York, 1957. 192 pp. \$2.60.

Advances in Enzymology. And related subjects of biochemistry. vol. XIX. F. F. Nord, Ed. Interscience, New York, 1957. 462 pp. \$9.85.

Advances in Veterinary Science. vol. III. C. A. Brandly and E. L. Jungherr,

Eds. Academic Press, New York, 1957. 590 pp. \$13.

Crop Production in the South. Glenn C. Klingman. Wiley, New York, 1957. 424 pp. \$4.95.

Man-Made Moons. The earth satellites and what they will tell us. Irving Adler. Day, New York, 1957. 128 pp. \$2.95.

The Pigeon. Wendell Mitchell Levi. Levi Publishing, Sumter, S.C., ed. 2, 1957. 694 pp. \$20.

The Planet Earth. D. R. Bates. Pergamon Press, London and New York, 1957. 317 pp. 35s.

Yeasts. K. Arima, W. J. Nickerson, M. Pyke, H. Schanderl, A. S. Schultz, A. C. Thaysen, R. S. W. Thorne. W. Roman, Ed. Junk, The Hague, 1957. 246 pp.

Climatology. Treated mainly in relation to distribution in time and place. W. G. Kendrew. Oxford University Press, London, ed. 2, 1957. 415 pp. \$6.75.

The Analytical Uses of Ethylenediamine Tetraacetic Acid. Frank J. Welcher. Van Nostrand, Princeton, N.J., 1957. 380 pp. \$8.50.

Chemotherapy and the Central Nervous System. Henry McIlwain. Little, Brown, Boston, 1957. 336 pp. \$10.

Miscellaneous Publications

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

Changes in the Fauna of Ontario. F. A. Urquhart. University of Toronto Press for Royal Ontario Museum, Toronto 5, Canada, 1957. 75 pp. \$1.50.

Washington's Potomack Canal Project at Great Falls. A Great Falls Park and Nature Preserve. A proposal for the preservation of a natural area and the restoration of a historic site as a lasting monument to George Washington at the Great Falls of the Potomac in Virginia. C. J. S. Durham. Nature Conservancy, Wildlife Management Institute and Fairfax County Park Authority, Washington, D.C. and Fairfax County, Va., 1957. 44 pp.

Pelagic Polychaetes of the Pacific Ocean. Bulletin of the Scripps Institution of Oceanography, vol. 7, No. 2. R. Phillips Dales. University of California Press, Berkeley, 1957. 70 pp. \$3.

American Society for Artificial Internal Organs, Transactions. vol. III. Chicago, 14-15 Apr. 1957. For the Society by Georgetown University Printing Dept., Washington, 1957 (available from G. E. Schreiner, Georgetown University Medical Center, Washington, D.C.). 96 pp.

1957 National Conference on Instrumental Methods of Analysis. ISA Proceedings. Instruments Society of America, Pittsburgh 22, 1957. 25 papers. \$7.50.

Bengal Immunity Research Institute, Five-Year Report (Jan. 1951-Dec. 1955). The Institute, 39, Lower Circular Road, Calcutta 16, India, 1957. 35 pp.

Bibliography of Scientific Publications of South and South East Asia. vol. 1, 1955. UNESCO Science Cooperation Offices for South and South East Asia. INSDOC, National Physical Laboratory, New Delhi, India, 1957. 188 pp.