

and structure of the organism. The various topics of discussion were mechanisms of enzyme formation, including enzyme induction, cellular differentiation, and the role of nucleic acids in enzyme synthesis; the relationship of genes to enzymes; enzymes and cell structure; the enzymatic basis of some physiological functions, including muscular work, excretion, vision, and bioluminescence; the mechanisms of energy supply to the cell; and the natural and artificial regulation of enzyme activity in the cell.

The organizers of the symposium selected a panel of exceptional competence, so the published papers are authoritative and of the highest quality. Some of the papers contain new material not published elsewhere and will be of interest even to specialists. The symposium as a whole covers such a broad field that it should be of great value to both teachers and graduate students in the biological sciences as a guide to current interests and future trends in research on enzymes. There are few biologists whose viewpoint would not be broadened by a careful reading of this volume.

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## Books Reviewed in

### The Scientific Monthly, November

*Report of the Special Committee on the Federal Loyalty-Security Program of the Association of the Bar of the City of New York* (Dodd, Mead). Reviewed by Z. Chafee, Jr.

*Illustrations of the Huttonian Theory of the Earth*, J. Playfair (facsimile reprint with an introduction by G. W. White, University of Illinois Press). Reviewed by E. W. Berry.

*Plane Trigonometry*, E. R. Heineman (McGraw-Hill). Reviewed by J. R. Mayor.

*Man, Culture, and Society*. H. L. Shapiro, Ed. (Oxford University Press). Reviewed by R. F. Herzfeld.

*Soranus' Gynecology*, Translated with an introduction by O. Temkin with the assistance of N. J. Eastman, L. Edelstein, A. F. Guttmacher (Johns Hopkins Press). Reviewed by J. B. deC. M. Saunders.

*The Theory of Sound*, vols. 1 and 2, J. W. Strutt and B. Rayleigh (Dover).

*Demographic Yearbook 1955* (Statistical Office of the United Nations, New York).

*New Worlds of Modern Science*, L. Engel, Ed. (Dell).

## New Books

*Handbuch der Physik*, vol. XXXVI, *Atome II*. S. Flugge, Ed. Springer, Berlin, 1956. 424 pp. DM. 88.

*Antarctica in the International Geophysical Year*. Based on a symposium on the Antarctic. Geophysical Monogr. No. 1. American Geophysical Union, Washington, 1956. 133 pp.

*Information Theory*. Third London symposium, 1955. Colin Cherry, Ed. Academic Press, New York; Butterworths, London, 1956. 401 pp. \$11.50.

*Exploration for Nuclear Raw Materials*. Robert D. Nininger. Van Nostrand, Princeton, 1956. 293 pp. \$7.50.

*Neurotic Interaction in Marriage*. Victor W. Eisenstein, Ed. Basic Books, New York, 1956. 352 pp. \$5.50.

*Population Theory and Policy*. Selected readings. Joseph J. Spengler and Otis D. Duncan. Free Press, Glencoe, Ill., 1956. 522 pp. \$7.50.

*Engineering as a Career*. Ralph J. Smith. McGraw-Hill, New York, 1956. 365 pp. \$4.75.

*Currents, Fields, and Particles*. Francis Bitter. Technology Press, Cambridge, Mass.; Wiley, New York; Chapman & Hall, London, 1956. 599 pp. \$8.50.

*An Introduction to Cell and Tissue Culture*. By the Staff of the Tissue Culture Course, Cooperstown, N.Y., 1949-1953. Burgess, Minneapolis 15, Minn., 1955. 123 pp. \$4.

*Procedure in Taxonomy*. Including a reprint in translation of the *Regles Internationales de la Nomenclature Zoologique*. With titles and notes on the opinions rendered to the present date (1907 to 1956). Edward T. Schenk and John H. Masters, A. Myra Keen and Simeon William Muller, Eds. Stanford University Press, Stanford, Calif., ed. 3, 1956. \$3.50.

*Living Magic*. The realities underlying the psychical practices and beliefs of Australian aborigines. Ronald Rose. Rand McNally, New York, 1956. \$3.75.

*Steric Effects in Organic Chemistry*. Melvin S. Newman. Wiley, New York; Chapman & Hall, London, 1956. 710 pp. \$12.50.

*Robert Hooke*. Margaret 'Espinasse. University of California Press, Berkeley, 1956. 192 pp. \$3.75.

*American Social Patterns*. Studies of race relations, popular heroes, voting, union democracy, and government bureaucracy. William Petersen, Ed. Doubleday, Garden City, N.Y., 1956. 263 pp. \$0.95.

*Laboratory Experiments in General Chemistry*. G. Brooks King and William E. Caldwell. American Book, New York, 1956. 324 pp. \$3.25.

*Chromosomes, Sex-Cells and Evolution in a Mammal*. Based mainly on studies of the reproductive glands of the gerbil and a new list of chromosome numbers of mammals. Phillip V. Tobias. Percy Lund, Humphries, London, 1956. 420 pp. 60s.

*Dictionary of Photography*. Reference book for amateur and professional photographers. A. L. M. Sowerby, Ed. Iliffe, London; Philosophical Library, ed. 18, New York, 1956. 719 pp. \$10.

*Human Generation, Conclusions of Burdach, Dollinger and von Baer*. Arthur W. Meyer. Stanford University Press, Stanford, Calif.; Geoffrey Cumberlege, Oxford University Press, London, 1956. 143 pp. \$3.50.

*Handbook of Scientific and Technical Awards in the United States and Canada*. Margaret A. Firth, Ed. Special Libraries Assoc., New York 3, 1956. 491 pp. \$10.

*Handbook of Basic Circuits*. TV-AM-FM. Matthew Mandl. Macmillan, New York, 1956. 365 pp. \$7.50.

*Fundamentals of Physics and Applications*. Howard O. Sterns. Macmillan, New York, ed. 2, 1956. 384 pp. \$6.50.

*Dictionary of Poisons*. Ibert Mellan and Eleanor Mellan. Philosophical Library, New York, 1956. 150 pp. \$4.75.

*The Biological Basis of Human Freedom*. Theodosius Dobzhansky. Columbia University Press, New York, 1956. 139 pp. \$2.95.

*Creative Communication*. Edwin Laird Cady. Reinhold, New York; Chapman & Hall, London, 1956. 158 pp.

*Engineering Inspection, Measurement and Testing*. H. C. Town and R. Colbourne. Philosophical Library, New York, 1956. 192 pp. \$8.75.

*Induction Heating Practice*. A handbook on the high-frequency induction process for all concerned with engineering production. D. Warburton-Brown. Philosophical Library, New York, 1956. 192 pp. \$10.

*Social Characteristics of Urban and Rural Communities, 1950*. Otis D. Duncan and Albert J. Reiss, Jr. *Census Monograph Series*. Wiley, New York; Chapman & Hall, London, 1956. 421 pp. \$6.50.

## Miscellaneous Publications

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

*A Revision of the Genus Megarthroglossus Jordan and Rothschild, 1915 (Siphonaptera: Hystrichopsyllidae)*. University of California Publ. in Entomology, vol. 11, No. 3. Eustorgio Mendez. 34 pp. \$0.85. *A Revisional Study of the Bees of the Genus Perdita F. Smith, with Special Reference to the Fauna of the Pacific Coast (Hymenoptera, Apoidea)* pt. II. Publ. in Entomology, vol. 11, No. 5. P. H. Timberlake. 104 pp. \$2. *The Armored Scale Insects of California*. Bull. of the California Insect Survey, vol. 5. Howard L. McKenzie. 209 pp. Cloth, \$6; paper, \$4.50. University of California Press, Berkeley, 1956.

*Statistical Tables for Use with Binomial Samples—Contingency Tests, Confidence Limits, and Sample Size Estimates*. Donald Mainland, Lee Herrera, Marion I. Sutcliffe. New York University College of Medicine, New York 16, 1956. 83 pp. \$2.

*Permafrost and Some Characteristics of Bogs and Vegetation of Northern Quebec*. Bull. du Service de Biogeographie No. 14. John E. Potzger and Albert Courtemanche. Service de Biogeographie, Université de Montreal, Montreal, Canada, 1955. 6 pp.

*Meliaceae, Anacardiaceae, Tamericeae, Cornaceae, Oleaceae, Bignoniaceae of Nevada*. Contributions toward a Flora of Nevada No. 40. Elbert L. Little, Jr. U.S. Department of Agriculture, Plant Industry Station, Beltsville, Md., 1956. 81 pp.