

A Text-Book of Physiology. By M. FOSTER, M.D. Sixth Edition, Revised. Part IV. (comprising the remainder of Book III., The Senses and Some Special Muscular Mechanisms, and Book IV., The Tissues and Mechanisms of Reproduction). New York, Macmillan & Co. 1891.

WITHOUT doubt Foster's "Text-Book of Physiology" must be accorded the foremost place among the works upon this subject, which have been published in the English language. It embodies the results of the most recent researches in this department of biological science, and is not only comprehensive, up to date, and accurate, but is admirably arranged and most convenient as an encyclopædic work of reference upon all that relates to the subject.

A large portion of the present volume is devoted to the senses, including sight, auditory sensations, olfactory sensations, gustatory sensations, cutaneous sensations, the muscular sense, and tactile perceptions and judgments. Each of these subjects is treated in a masterly manner, the anatomical elements concerned in each special sense being minutely described, and the facts and theories relating to the perception of various sensations being fully detailed.

Chapter VII., "On Some Special Muscular Mechanisms," contains three sections: one devoted to the voice, one to speech, and one to walking.

Book IV., which concludes the volume and the work, gives a

very satisfactory account of "the tissues and mechanisms of reproduction."

Diphtheria, Its Natural History and Prevention. By R. THORNE THORNE, Assistant Medical Officer to Her Majesty's Local Government Board. London and New York, Macmillan & Co. 1891.

THIS is a valuable résumé of what is known at the present day with reference to the etiology and prevention of diphtheria. The volume abounds in interesting details relating to the prevalence of the disease in England and Wales, and gives numerous facts showing the not infrequent transmission of the disease by contaminated milk and its probable transmission by cats, which have been proved to be subject to the disease as a result of experimental inoculations in the trachea with bits of diphtheritic membrane, or cultures of the Klebs-Löffler diphtheria bacillus.

According to Thorne Thorne there has been a progressive increase in the mortality from diphtheria in England and Wales during the past twenty years, and this progressive increase has coincided in time with steady improvement in regard to such sanitary circumstances as water-supply, sewerage, and drainage; and also with a continuous diminution in the death-rate from the group of zymotic diseases and from typhoid fever.

The diphtheria mortality remains, as heretofore, greater in the sparsely-peopled districts, but there is a marked increase in its prevalence in large towns and cities.

Publications Received at Editor's Office.

- BENOTIRE, CAPT. CHARLES. Life Histories of American Birds. Washington, Government. 4°. Paper. 413 p. Ill.
- CHADWICK, FRENCH E. Temperament, Disease and Health. New York, G. P. Putnam's Sons. 8°. 85 p. 75 cts.
- DALL, WILLIAM H. Instructions for Collecting Mollusks. Washington, Government. 8°. Paper. 56 p.
- MOOREHEAD, WARREN K. Primitive Man in Ohio. New York, G. P. Putnam's Sons. 8°. 262 p. \$3.
- PHILOSOPHICAL SOCIETY OF WASHINGTON. Bulletin 1888-91. Washington, The Society. 8°. 652 p.
- RIDGWAY, ROBERT. The Humming Birds. Washington, Government. 8°. Paper. 381 p.
- RILEY, C. F. Directions for Collecting and Preserving Insects. Washington, Government. 8°. Paper. 147 p.
- UNIVERSITY OF MINNESOTA. Quarterly Bulletin. Vol. I., No. 1. 4°. Paper. 32 p.

Reading Matter Notices.

Ripans Tabules: best liver tonic.
Ripans Tabules cure jaundice.

Societas Entomologica.

International Entomological Society, Zurich-Hottingen, Switzerland.
Annual fee, ten francs.

The Journal of the Society appears twice a month, and consists entirely of original articles on entomology, with a department for advertisements. All members may use this department free of cost for advertisements relating to entomology.

The Society consists of about 450 members in all countries of the world.

The new volume began April 1, 1892. The numbers already issued will be sent to new members.

For information address Mr. FRITZ RUHL, President of the Societas Entomologica, Zurich-Hottingen, Switzerland.

SCIENCE CLUBBING RATES.

10% DISCOUNT.

We will allow the above discount to any subscriber to *Science* who will send us an order for periodicals exceeding \$10, counting each at its full price.

N. D. C. HODGES, 874 Broadway, N. Y.

Exchanges.

[Free of charge to all, if of satisfactory character. Address N. D. C. Hodges, 874 Broadway, New York.]

Taxidermist going out of business has quantity of finely mounted specimens of North American birds, mammals and reptiles and skins of birds for sale, including a full local collection of bird skins, showing some great variations of species; also quantity of skulls with horns of deer and mountain sheep, and mounted heads of same. Will give good exchange for Hawk Eye camera with outfit. Apply quickly to J. R. Thurston, 265 Yonge St., Toronto, Canada.

For exchange.—A fine thirteen-keyed flute in leather covered case, for a photograph camera suitable for making lantern slides. Flute cost \$27, and is nearly new. U. O. COX, Mankato, Minn.

To exchange; Experiment Station bulletins and reports for bulletins and reports not in my file. I will send list of what I have for exchange. P. H. ROLFS, Lake City, Florida.

Finished specimens of all colors of Vermont marble for fine fossils or crystals. Will be given only for valuable specimens because of the cost of polishing. GEO. W. PERRY, State Geologist, Rutland, Vt.

For exchange.—Three copies of "American State Papers Bearing on Sunday Legislation," 1891, \$2.50, new and unused, for "The Sabbath," by Harmon Kingsbury, 1840; "The Sabbath," by A. A. Phelps, 1842; "History of the Institution of the Sabbath Day, Its Uses and Abuses," by W. L. Fisher, 1859; "Humorous Phases of the Law," by Irving Browne; or other works amounting to value of books exchanged, on the question of government's relation to religion, personal liberty, etc. For particulars, I will send "American State Papers," and buy other books on the subject. WILLIAM AD- DISON BLAKELY, Chicago, Ill.

For Sale or Exchange for books a complete private chemical laboratory outfit. Includes large Becker balance (200g. to 1-10mg.), platinum dishes and crucibles, agate mortars, glass-blowing apparatus, etc. For sale in part or whole. Also complete file of *Silliman's Journal*, 1862-1885 (62-71 bound); Smithsonian Reports, 1854-1883; U. S. Coast Survey, 1854-1869. Full particulars to enquirers. F. GARDINER, JR., Pomfret, Conn.

Wanted, in exchange for the following works, any standard works on Surgery and on Diseases of Children: Wilson's "American Ornithology," 3 vols.; Coues' "Birds of the Northwest" and "Birds of the Colorado Valley," 2 vols.; Minot's "Land and Game Birds of New England"; Samuel's "Our Northern and Eastern Birds," all the Reports on the Birds of the Pacific R. R. Survey, bound in 2 vols., Morocco; and a complete set of the Reports of the Arkansas Geological Survey. Please give editions and dates in corresponding. R. ELLSWORTH CALL, High School, Des Moines, Iowa.

To exchange Wright's "Ice Age in North America" and "Elements of Geology" (Copyright 1882) for "Darwinism," by A. R. Wallace, "Origin of Species," by Darwin, "Descent of Man," by Darwin, "Man's Place in Nature," Huxley, "Mental Evolution in Animals," by Romanes, "Pre-Adamites," by Winchell. No books wanted except latest editions, and books in good condition. C. S. Brown, Jr., Vanderbilt University, Nashville, Tenn.

Wants.

Any person seeking a position for which he is qualified by his scientific attainments, or any person seeking some one to fill a position of this character, be it that of a teacher of science, chemist, draughtsman, or what not, may have the "Want" inserted under this head FREE OF COST, if he satisfies the publisher of the suitable character of his application. Any person seeking information on any scientific question, the address of any scientific man, or who can in any way use this column for a purpose consonant with the nature of the paper, is cordially invited to do so.

A JOHNS HOPKINS graduate (1892) desires a position as instructor in mathematics and physics. Address A. B. TURNER, Johns Hopkins University, Baltimore, Md.

WANTED.—A collection of postage stamps; one made previous to 1870 preferred. Also old and curious stamps on original letters, and old entire U. S. stamped envelopes. Will pay cash or give in exchange first-class fossils, including fine crinoids. WM. F. E. GURLEY, Danville, Ill.

WANTED.—To purchase laboratory outfit; balances, evaporating dishes, burettes, etc., wanted immediately for cash. C. E. SPIERS, 23 Murray street, New York. P. O. Box 1741.

WANTED.—The services of a wide-awake young man as correspondent, in a large manufacturing optical business; one preferred who has a thorough knowledge of microscopy and some knowledge of photography. Address by letter, stating age and references. Optical, care of Science, 874 Broadway, New York.

WANTED.—We want any and all of the following, providing we can trade other books and magazines or buy them cheap for cash: Academy, London, vol. 1 to 23, 35, Jan. and Feb., '89; Age of Steel, vol. 1 to 66; American Antiquarian, vol. 1, 2; American Architect, vol. 1 to 6, 9; American Art Review, vol. 3; American Field, vol. 1 to 21; American Geologist, vol. 1 to 6; American Machinist, vol. 1 to 4; Art Amateur, vol. 1 to 7, Oct., '4; Art Interchange, vol. 1 to 9; Art Union, vol. 1 to 4, Jan., '44, July, '45; Bibliotheca Sacra, vol. 1 to 46; Godey's Lady's Book, vol. 1 to 20; New Englander, vol. 11; Zoologist, Series 1 and 1, Series 3 vol. 1 to 14; Allen Armendale (a novel). Raymer's "Old Book" Store, 243 4th Ave. S., Minneapolis, Minn.

WANTED.—By a young man, a Swarthmore College junior, a position as principal of a public high school in one of the Gulf States, or as instructor in botany, physiology, and geology in an academy or normal school. Address B., care of Librarian, Swarthmore College, Penn.

WANTED.—To act as correspondent for one or two daily or weekly papers. Have worked on paper for about two years. Would like a position on editorial staff of humorous paper. Address GEO. C. MASON, 14 Elm St., Hartford, Conn.

TRANSLATOR wanted to read German architectural works at sight (no writing). One familiar with technical terms desired. Address "A," Box 149, New York Post Office.