

bers of structures variously strained. Rankine's unique studies, and the graphics of that author and of continental writers, find illustration and useful application in intelligible and practically available shape; and the methods of connection of parts in practical construction are given in a form likely to meet the approval of the practitioner, as well as of the learner. Tables of constants for use in connection with computations of proportions of parts, and good illustrations, are distributed throughout the book. The work is somewhat extensive, even for students in engineering schools, and will prove valuable for office use as well as in the classroom. We observe that it is dedicated to Mr. Wm. McDonald, the generous donor of the new engineering buildings and equipment of McGill University; a graceful and well-deserved compliment to a man who has done more, perhaps, than any other citizen of Canada to promote this essential element of modern progress in his native State. The composition and printing are excellent; but the paper is thin, probably designedly so, in view of the fact that the volume is a bulky one at best. The book is well worth its price.

AMONG THE PUBLISHERS.

THE Century Co. is about to publish "A Handbook of Invalid Cooking," by Mary A. Boland, instructor in cooking in the Johns Hopkins Hospital Training-School for Nurses. The book is intended not only for nurses in training-schools and private practice, but for all who care for the sick. Besides recipes, menus, suggestions for the proper feeding of children, etc., a part of the book is devoted to "Explanatory Lessons," wherein the various food principles are described, with chapters on Nutrition, Digestion, Chemical Changes in Food, etc.

—J. J. Audubon, the great naturalist, wrote, many years ago, the story of his youth for his children. It was found accidentally in an old volume where it had long been hidden, and is to be printed for the first time in its entirety in *Scribner's Magazine*

for March. The youth of Audubon was most romantic, and at times exciting, and his story of it is told with an ingenuous charm which makes it as interesting as a novel.

—Professor Henry Drummond will deliver the Lowell lectures at Boston this spring. The subject will be "The Evolution of Man." Professor Drummond has not yet decided as to the date of the publication of these lectures, but has taken steps to protect his copyright in America.

—Professor William Holms Chambers Bartlett, the author of "Treatise on Optics" (New York, 1839), "Synthetical Mechanics" (1850), "Analytical Mechanics" (1853), and "Spherical Astronomy" (1855), died at his home in Yonkers, N.Y., on the 11th of February, aged eighty-nine.

—Instances of the recognition of the claims of science by the general press are always worth chronicling. It is therefore not without interest that we notice that the *Queenslander* (a Brisbane weekly) is issuing a series of extended descriptive articles on the Butterflies of Queensland, the work of an entomologist writing under the *nom de plume* of "Aurelia." This, we believe, is the first attempt to accomplish a connected account of Australian Rhopalocera, and, as Queensland contains by far the larger proportion of the species inhabiting the Australian sub-regions, these contributions to science are of especial significance.

—Charles Scribner's Sons are preparing a novel and interesting contribution to the World's Fair in the form of an "Exhibition Number" of *Scribner's Magazine* to be published simultaneously with the opening of the Exposition at Chicago. It is not proposed that the text shall relate chiefly to the Fair, but, on the contrary, the leading writers and artists have been asked to contribute to the number what they themselves think will best represent them. The pages of text and illustration will be largely increased, and the appearance of the number is likely to be looked for with eagerness by all readers interested in the work of American magazines.

Dyspepsia

Dr. T. H. Andrews, Jefferson Medical College, Philadelphia, says of
Horsford's Acid Phosphate.

"A wonderful remedy which gave me most gratifying results in the worst forms of dyspepsia."

It reaches various forms of Dyspepsia that no other medicine seems to touch, assisting the weakened stomach, and making the process of digestion natural and easy.

Descriptive pamphlet free on application to
Rumford Chemical Works, Providence, R. I.

Beware of Substitutes and Imitations.

For sale by all Druggists.

Exchanges.

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

For sale, or for exchange for books on medicine or surgery, new editions only, a large geological library, containing nearly all the State and Government Reports since 1855. Will be pleased to answer letters of inquiry and give information. Address R. ELLSWORTH CALL, Louisville, Ky.

For exchange.—Slides of Indian Territory Loup Fork Tertiary Diatoms for other microscopic fossils. Address S. W. WILLISTON, Univ. of Kansas, Lawrence, Kans.

For exchange.—Will exchange an "Ideal" Microscope of R. and J. Beck, London, 2 eye pieces 3 objectives, 3 inch, 1 inch, 1-6 inch; bull's eye condenser on stand, substage condenser, mechanical stage, etc., for any of the leading makes of type writers. Particulars by mail. DELOS FALL, Albion College, Albion, Mich.

Sale, or exchange for similar material; Diatoms (*Isthmia nervosa*), unmounted, from San Francisco Bay. M. J. ELROD, Bloomington, Ill.

For sale or exchange.—I have a few copies of my translation of "Strasburger's Manual of Vegetable Histology, 1887," now out of print, which I will send post-paid for \$3 or for one dozen good slides illustrating plant or animal structure. Address A. B. Hervey, St. Lawrence University, Canton, N. Y.

The undersigned has the following specimens to exchange for crystals of any eastern or foreign localities or Indian relics: tin ore, metacinnabarite, stibnite, garnierite, calenante, hanksite, ulexite, rubellite, lepidolite, blue and green onyx, Cal. pine-ite, aragonite on chalcodony, cinnabar, double refracting spar, clear and clouded, and others. J. R. Bush, care of General Delivery, Los Angeles, Cal.

For sale or exchange.—A private cabinet of about 200 species of fossils, well distributed geologically and geographically. Silurian, about 40; Devonian, about 50; Carboniferous, about 80; others, about 30. Frank S. Aby, State University, Iowa City, Ia.

For exchange.—Minerals, fossils, F. W. shells, land shells, native woods, Indian relics, two vols. of Smithsonian reports, odd numbers of scientific magazines, copper cents, etc., for good minerals not in my collection, good arrow- and spear-heads and natural history specimens of all kinds. Correspondence solicited with list of duplicates. G. E. Wells, Manhattan, Kan.

Wants.

CAN any one inform me as to the age to which cats have lived? I have one twenty years old. Edward D. Webb, 132 W. Eighty-first St., New York.

WANTED.—Second-hand. Foster's Physiology, Balfour's Comparative Embryology, Claus & Sedgwick's Zoology, Flower's Osteology of Mammalia, Vine's Physiology of Plants. Please state editions and prices asked and address Richard Lees Brampton, Ontario, Canada.

WANTED.—American Journal of Conchology, seven volumes. Parties having these for sale will please address the undersigned, stating condition and price. R. Ellsworth Call, Louisville, Ky.

A GRADUATE ENGINEER will give instruction evenings in geometry, trigonometry and surveying, mechanics, physics, mechanical drawing and general engineering construction. Five years' experience in field and editorial work on engineering journal. References furnished. C. S. H., 102 Tribune Building, New York.

WANTED.—By well-qualified and experienced science master and associate of the Royal School of Mines, London, aged 26 (at present in England), a mastership in technical college or university for any of the following subjects: Engineering sciences, geology and mineralogy, physics, chemistry and metallurgy, etc., etc. Can provide excellent references and credentials. Apply, J. G., 17 Sussex St., Rochdale, England.

A GRADUATE of the University of Pennsylvania and a practical mineralogist of twenty years' experience desires to give his services and a cabinet of 25,000 specimens, all named, with about the same number of duplicates, in minerals, crystals, rocks, gems, fossils, shells, archaeological and ethnological specimens and woods to any institution desiring a fine outfit for study. The owner will increase the cabinet to 50,000 specimens in two years and will act as curator. Correspondence solicited from any scientific institution. J. W. Hortter, M.D., Ph.D., San Francisco, Cal., General P. O. Delivery.

POPULAR MANUAL OF VISIBLE SPEECH AND VOCAL PHYSIOLOGY.

For use in Colleges and Normal Schools. Price 50 cents
Sent free by post by

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