

with generalities and seeks to separate facts from principles acquired by hypothetical speculations as well as to define precisely the meaning of terms employed. A methodical and rapid presentment is made of the laws of combination, of chemical equivalence, the atomic theory, of crystallographic laws, and of thermo-chemistry. It is shown that the atomic theory, a beautiful structure in itself, might still be done away with without in any degree undermining the laws of chemical equivalents. Great pains have been taken with the second part of the book, which deals with the metalloids as is evidenced in the exactness of the facts recorded. Original memoirs have in each case been consulted and when there has been doubt or contradiction the authors have verified their decision by actual experiment. So also with those portions treating of industrial chemical processes, modern and practical usage have alone been given passing over former processes in a few words as of historic interest only. This is a relief from the custom of many authors who through lamentable ignorance deceive the student with descriptions of processes as impossible as they are false. In short the features of the work are, an eminently successful departure from accepted notions of chemical text-books, a suppression of old and hoary errors which have descended through these same text-books from our ancestors to the present day, new methods of treatment and new illustrations. Some of the French scientific periodicals have predicted for the "Lecons de Chimie" "a place among the classics which will be as lasting as it is well merited" and such praise we feel confident will be accorded by all who peruse the work.

CHARLES PLATT.

NOTES AND NEWS.

ACCORDING to the State Board of Health of Michigan, the statistics of sickness have demonstrated the law that generally influenza (la grippe) is quantitatively related to the atmospheric ozone—the more ozone the more influenza; and the law that remittent fever is inversely related—the more ozone the less remittent fever. The unusual amount of ozone, the increase of influenza and the falling off of remittent fever shown in the State Board of Health Bulletin for the week ending November 18 illustrate these general laws.

—Bulletin No. 48 of the National Museum contains the collected writings upon Myriapods by the late Chas. H. Bollman. The volume is edited by Dr. Underwood, who also contributes an excellent list of the literature of the N. A. species. The writings of Mr. Bollman are given in their order as published in *Entomologica Americana*, Proc. of United States National Museum, and other publications, and include also many articles which were ready for the printer at the time of Mr. Bollman's death. These latter will be especially valuable to the student of N. A. Myriapods, as they include articles upon the "Classification of the Myriapoda" and a catalogue of the N. A. species. Mr. Bollman described sixty-five species new to N. A., nearly all of which will stand, and when we consider that he was not yet twenty-one years of age at the time of his death we can but regret that he was not spared for further work. The volume just published by the Museum is by far the best work on N. A. Myriapods that has appeared since Wood's paper in 1865.

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For Sale or Exchange for last editions of Standard Works on Vegetable Anatomy or Physiology: Practical Zoology, Marshall & Hurst; Elements of Embryology, Foster & Balfour; Zoology, Macalister; Guide to the Study of Insects, Packard; Geological Studies and Shall We Teach Geology, Winchell. Also have duplicates of Experiment Station publications which would like to exchange for any not in my file. L. R. Jones, Burlington, Vt.

For exchange.—Skins of *Aegialites nivosa*, *Ereunetes occidentalis*, *Aunnodramus Ardingi*, *A. rostratus*, *Chamara rasciata henshawi*, etc., for native or foreign skins with full data. Send lists. A. W. Anthony, 2042 Albatross st., San Diego, California.

I have a Beck New National monocular microscope, accessories, microtome, mounting material and a large number of fine slides. Will exchange the whole or in part for a first class type-writer or photograph outfit. A. C. Gruhlke, Waterloo, Ind.

Offered sidebloom eggs of *Bulimus oblongus* and exotic land and freshwater shells in exchange for Helices not in collection. Send lists to G. K. Gude, 5 Gresbach Road, upper Holloway, London, England.

Would like to exchange 100 specimens of Canadian Indian Relics for a photo outfit. E. J. Waters, 33 Hoffman St., Auburn, N. Y.

Wants.

A GEOLOGIST thoroughly conversant with the geology of the Southern States desires an engagement. Has complete knowledge of the economic geology of Iron, Coal, Lignite, as well as Clay and Kiesel. Five years' experience with Geological Surveys. Address K., 509 West Sixth Street, Austin, Texas.

WANTED.—Tuckerman's Geneva Lichenum and Carpenter on the Microscope, Wiley's Introduction to the Study of Lichens. State price and other particulars. Richard Lees, Brampton, Ont.

WANTED.—Icones Muscorum by W. D. Sullivan, with or without Supplement, but both preferred. Address, stating price and condition of books, Dr. G. N. Best, Rosemont, N. J.

WANTED.—A copy of Mascart & Joubert's Lessons in Electricity and Magnetism, Vol. I. Address R. W. Clawson, Vanderbilt University, Nashville, Tennessee.

CHEMIST.—Graduate of a polytechnical school, and studied photographic chemistry in Germany and Austria. Situation teaching or in analytical or experimental laboratory. M. B. Punnett, Rochester, N. Y.

WANTED.—A recent college graduate to assist in editorial work on Science. Those seeking large emoluments need not apply. N. D. C. Hodges, 874 Broadway, New York.