forty people are cousins to the entire population of Boston; does that relation either prove or disprove their possession of traits in common that do not appear among 40 other cousins of 40 different names? ENQUIRER.

The Systematic Position of the Diptera.

In reply to the article, by Professor J. M. Aldrich, in Science of April 26, I will say that the Diptera are undoubtedly the most highly specialized order of insects. Professor Hyatt deserves credit for apparently being the first one to call attention to this idea and offer proofs to sustain it. His idea of what constitutes specialization is correct, from my standpoint. I realize the force of Professor Aldrich's remark, when he says that this line of reasoning will apparently lead us to the conclusion that the Pupipara are the highest insects; but I am inclined to believe that the higher families of Cyclorrhapha will be found to exhibit greater specialization. Everything points to their being of the most recent origin. If anything has been published on the the embryology of the Pupipara, I am not aware of it. Embryological research alone will clear up this point, and there is no reason in the world why it should not show that the Pupipara have long ago passed through stages now occupied by apparently more highly developed Diptera, but it is improbable, to say the least. If it can be demonstrated, I shall be glad to accept the Pupipara as the highest insects. C. H. TYLER TOWNSEND.

Las Cruces, N. M., May 26.

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.

NEO-DARWINISM AND NEO-LAMARCKISM. By LESTER F. WARD.

By LESTER F. WARD. Annual address of the President of the Biologica Society of Washington delivered Jan. 24, 1891. A historical and critical review of modern scientific thought relative to heredity, and especially to the problem of the transmission of acquired characters. The following are the several heads involved in the discussion Status of the Problem, Lamarckism. Darwinism, Acquired Characters. Theories of He-redity, Views of Mr. Galton, Teachings of Professor Weismann, A Critique of Weismann, Neo-Darwin-pication to the Human Race. In so far as views are expressed they are in the main in lina with the general current of American thought, and opposed to the extreme doctrine of the non-transmissibility of acquired characters. **Price, postpaid, 25 cents.**

Price, postpaid, 25 cents. N. D. C. HODGES, 874 Broadway, N.Y.

A TEMPORARY BINDER

for Science is now ready, and will be mailed postpaid on receipt of 75 cents.



This binder is strong, durable and elegant, has gilt side-title, and allows the opening of the pages perfectly flat. Any number can be taken out or replaced without disturbing the others, and the papers are not mutilated for subsequent permanent binding. Filed in this binder, Science is always convenient for reference.

N. D. C. HODGES, Publisher, 874 Broadway, New York.

A Botanical Congress and Botanical Nomenclature.

I HAVE read your note of May 20, with reference to the action of the Botanical Club of Washington upon the questions of a botanical congress and botanical nomenclature. It has always seemed to me wise for American botanists first to agree among themselves in reference to this matter, and then they will be in a better position to come to an understanding with the rest of the world. There is no more representative body of American botanists than the Botanical Club of the American Association. It is perfectly democratic; every botanist in the country can join it and take part in its discussions. It may be questioned whether its boundaries are not too ill-defined to make it a fit body to decide such important questions; but it is surely a capital place for their discussion. JOHN M. COULTER.

Bloomington, Ind., May 25.

AMONG THE PUBLISHERS.

THE first number of the Yale Review, a quaterly journal of history and political science, has just been issued for the month of May. It is edited by Professor George P. Fisher and others of Yale University, but will welcome contributions from every quarter and from every school. The papers in this opening number are on "German Tariff Policy, Past and Present," by Henry Villard and Henry W. Farnam; on "The Demarcation Line of Pope Alexander VI," by E. G. Bourne; on "Legal

Exchanges.

[Freeof 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 skies of birds for sale, including a full local collection of bird skins, show-ing some great variations of species; also quantity of skulls with horns of deer and mountain sheep, and mounted heads of same. Will give good ex-change 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 mak-ing 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.

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 Ivring Browne; or other works amounting to value of books exchanged, on the question of govern-mental legislation in reference to religion, personal liberty, 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 bal-ance (2009. to 1-10mc.), platinum dishes and crucibles, agate motors, 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 en-quirers. 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 Eng-land; "Samuels" "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 'I Ce Age in North America'' and Le Conte's "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 Ani-mals," 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.

Any person seeking a position for which he is quali-fied by his scientific attaimments, 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 FREBOF COST, if he satisfies the publisher of the suit-able character of his application. Any person seeking information on any scientific question, the address of auy scientific man, or who can in any way use this column for a purpose consonant with the mature of the paper, is cordially invited to do so.

We paper, is covariatly invited to as so. WANTED.—We want any and all of the following providing we can trade other books and maga-zines or buy them cheap for cash: Academy, Lon don, vol. 1 to 28, 35, Jan. and Feb., '89; Age of Steel, vol. 1 to 66; American Antiquarian, vol. 1, 2; Ameri-can Architect, vol. 1 to 6, 9; American Art Review, vol. 3; American Field, vol. 1 to 21; American Geol-ogist, vol. 1 to 6; American Machinist, vol. 1 to 4; Art Amateur, vol. 1 to 7, Oct., '4; Art Interchange, vol. 1 to 20; Art Union, vol. 1 to 44; Godey's Lady's Book, vol. 1 to 20; New Englander, vol. 11; Zoologist, Series 1 and 1, Series 8 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 Col-lege 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.—A teacher of Geology who is familiar with the fossils of the Hamilton Group, as instructor of Geology during July next at the Natu-ral Science Camp on Canandaigua lake. Apply to ALBERT L. AREY, Director, 229 Averill Ave., Rochester, N. Y.

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 architec-tural works at sight (no writing). One familiar with technical terms desired. Address "A.," Box 149, New York Post Office.

WANTED.—A position in a manufacturing estab-lishment by a manufacturing Chemist of in-ventive ability. Address M. W. B, care of *Science*, 874 Broadway, N. Y.

WANTED.-Books on Anatomy and Hypnotism. Will pay cash or give similar books in ex-change. Also want medical battery and photo out-fit. DR. ANDERSON, 182 State street, Chicago, Ill.

WANTED.-A college graduate with some normal training, to teach the sciences, at \$1,800 per year, in a Southern college. A Baptist or a Method-ist preferred. Must also be a first-class Latin scholar. A. H. Beals, Box K, Milledgeville, Ga.

A DDRESS WANTED.—Will some one please send the address of the Secretary of the American Philological Society. Also that of Herbert Spencer. "ADDISON," Room 84, 164 Madison St., Chicago, Ill.

Wants.

JUNE 3, 1892.]

SCIENCE.

Theories of Price Regulation," by Arthur T. Hadley; on "Massachusetts and the Saybrook Platform," by Williston Walker; and on "Labor Troubles between 1834 and 1837," by Evans Woollen, together with a few pages of comment and a number of book reviews. The articles are essentially of the same quality as those that have appeared on similar topics elsewhere in this country during the past ten or twenty years, but we fail to find in them anything new or striking. The appearance of this new Review, indeed, raises the question whether this subject of political science is not in danger of being run into the ground by our young and ambitious writers. The Review is published by Ginn & Co., of Boston, at 75 cents a number or \$3 a year.

-Professor W. O. Atwater, in an instructive article in The Forum for June, points out the curious fact, that, in the extraordinary applications of science to practical problems in recent years, one of the most important fundamental problems has been strangely overlooked, viz., the scientific study of food. The coming man will avoid four mistakes that are now largely made: (1) he will not buy as expensive kinds of food as are now generally bought, because some of the least expensive foods are the most nutritive and palatable; (2) with further scientific information the coming man will value foods in proportion to their

ITERARY

nutritive qualities; (3) if foods are bought and eaten with reference to their nutritive qualities, and not to mere fashion or habit, it would require a much less quantity to keep a man in his best working condition than is now generally consumed; (4) there will be a revolution wrought in the present way of cooking, which is both wasteful and primitive and far behind our advancement in almost every other art. Professor Atwater gives the results of practical studies in diets made to show these conclusions. And he asks: "Has man yet reached his highest development? The poorer classes of people - and few of us realize how numerous they are - the world over are scantily nourished. The majority of mankind live on a nutritive plane far below that with which we are familiar. We may hope for the best culture, not of the intellectual powers, but of the higher Christian graces in the minds and hearts of men, in proportion as the care of their bodies is provided for. Happily, with advance of knowledge comes the improvement of material conditions. May we not, hope that the future development of our race will bring that provision for physical wants which is requisite for the best welfare of mind and soul?" President Dwight, in his article, also in the June Forum, on the recent action of Yale College in admitting women to its advanced courses, makes an eloquent discussion of the higher education of women in the United States.

Exhaustion

Horsford's Acid Phosphate. A wonderful remedy, of the highest value in mental and nervous exhaustion.

Overworked men and women, the nervous, weak and debilitated, will find in the Acid Phosphate a most agreeable, grateful and harmless stimulant, giving renewed strength and vigor to the entire system.

Dr. Edwin F. Vose, Portland, Me., says: "I have used it in my own case when suffering from nervous exhaustion, with gratifying results. I have prescribed it for many of the various forms of nervous debility, and it has never failed to do good.'

Descriptive pamphlet free.

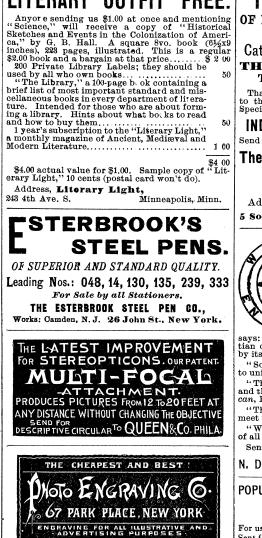
Rumford Chemical Works, Providence, R. I.

Beware of Substitutes and Imitations.

CAUTION.-Be sure the word "Horsford's" is on the label. All others are spurious. Never sold in bulk.

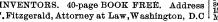
FOSSIL RESINS.

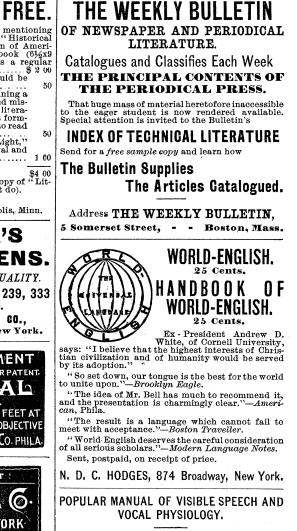
This book is the result of an attempt to collect the scattered notices of fossil resins, exclusive of those on amber. The work is of interest also on account of descriptions given of the insects found embedded in these longpreserved exudations from early vegetation.



OUTFIT







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

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

By CLARENCE LOWN and HENRY BOOTH 12°. \$1. N. D. C. HODGES, 874 Broadway, N. Y. Broadway,