

Repose," by Annie Payson Call, who treats of such subjects as training for rest, rest in sleep, the body's guidance, training of the mind, etc.

— Macmillan & Co. announce an edition of Lock's well-known "Arithmetic," revised and adapted for the use of American schools by Professor C. A. Scott of Bryn Mawr College, Pennsylvania.

— The Stefanite aluminum process aims at introducing aluminum into iron, either in the blast-furnace, the cupola, or the puddling-furnace. During the process of manufacture, the liberation of the aluminum from its ores goes on concurrently with the manufacture or melting of the iron, the newly formed metal being instantly alloyed with the iron. It is well known that a minute percentage of aluminum has the effect of lowering the melting-point of iron and steel, rendering it extremely fluid, so that it can be run with great facility without blow-holes. The cost of the process has hitherto rendered its adoption very slow, in spite of the great economies which have been effected by the various electric and electrolytic processes for the production of aluminum. It is with the intention of reducing this cost that the Stefanite process is being introduced. It is not in actual operation in this country, the trials which have already been made having been conducted in Germany. As communicated to *Engineering*, the method of operation consists in the addition to the iron ore in the blast-furnace, or to the pig in the cupola, of emery and alum, either in powder or made up into briquettes. It is stated that the re-action of the alum on the emery gives rise to vapors of metallic aluminum, which instantly alloy themselves with the iron, imparting to it the improved qualities which have hitherto been gained by the addition of aluminum or ferro-aluminum in the ladle or the crucible. The subsequent blowing does not volatilize the aluminum which descends with the iron. When the materials are added in the puddling-furnace, the bars, we are informed, can be hardened and tem-

pered like steel, while their tensile strength is increased. The invention is in the hands of Mr. Thompson Freeman, of 2 Victoria Mansions, Westminster, London, England.

— "Nature's Wonder Workers" is the title of some short life-histories in the insect world, by Kate R. Lovell, which the Cassell Publishing Company have ready. In this book the author's aim is to interest the reader in what are called the "useless insects."

— "Supposed Tendencies to Socialism" is the title of the article that will open the March *Popular Science Monthly*. It is by Professor William Graham of Belfast, who gives his reasons for expecting a progressive improvement in the state of society, but no sudden social transformation. "Iron-Working with Machine-Tools" will be the special topic of an article in the American Industries Series. This division of the series is to conclude with an account of the steel-manufacture. In the tariff discussions of recent years, sisal has been one of the articles most frequently mentioned. How it is produced and what it looks like may be learned from the illustrated article on "Cultivation of Sisal in the Bahamas," by Dr. John I. Northrop. One of several articles announced for the same number of the *Popular Science Monthly* is an explanation of Dr. Koch's method of treating consumption, by Dr. G. A. Heron, a London physician, and a friend of the discoverer. An explanation of the real nature of Voodoo, traces of which are found among the negroes in our Southern States, with a description of the strange and wild ceremonies connected with it, will also appear in this number. The writer, Hon. Major A. B. Ellis, is an officer in the British Army.

— "Bibliotheca Polytechnica," a directory of technical literature, is a classified catalogue of all books, annuals, and journals published in America, England, France, and Germany, including their relation to legislation, hygiene, and daily life. It is edited by Fritz von Szczepanski. The first annual issue of this new international index to the progress of technical science has appeared

Publications received at Editor's Office,
Jan. 19-31.

- BARDEEN, C. W. Effect of the College Preparatory High School upon Attendance and Scholarship in the Lower Grades. Syracuse, N. Y., Bardeen. 5 p. 8¢.
- BIRNBAUM, Max, Prof. Koch's Method to cure Tuberculosis popularly treated by. Tr. by Dr. Fr. Brendecke. Milwaukee, Wis., H. A. Haferkorn. 106 p. 12¢.
- BROOKLYN Daily Eagle Almanac, 1891. Brooklyn, Daily Eagle Pr. 296 p. 8¢. 25 cents.
- GRAHAM, W. Socialism New and Old. New York, Appleton. 416 p. 12¢.
- HARRIS, W. T. Hegel's Logic. Chicago, Griggs. 403 p. 16¢. \$1.50.
- HEWITT, W. Elementary Science Lessons. Standard I. London and New York, Longmans, Green, & Co. 115 p. 16¢. 50 cents.
- HEYDENFELDT, S., Jr. The Union of the Conscious Force. New York, J. J. Little, Pr. 105 p. 8¢.
- HOOGWERFF, J. A. Magnetic Observations at the United States Naval Observatory, 1888 and 1889. Washington, Government. 100 p. 4¢.
- INGERSOLL, R. G. Liberty in Literature. Testimonial to Walt Whitman. New York, Truth Seeker Co. 77 p. 12¢. 50 cents.
- LEFFMANN, H., and BEAM, W. Examination of Water for Sanitary and Technical Purposes. 2d ed. Philadelphia, Blakiston. 130 p. 12¢.
- LONGE, G., ed. Plato Gorgias. Boston, Ginn. 308 p. 12¢. \$1.75.
- MARINE Biological Laboratory of Wood's Holl, Biological Lectures delivered at the, in the Summer Session of 1890. Boston, Ginn. 250 p. 12¢.
- MAXWELL, W. H. Examinations as Tests for Promotion. Syracuse, N. Y., Bardeen. 11 p. 8¢.
- MICHIGAN, Laws of the State of, relating to the Public Health, in Force in the Year 1890. Lansing, State. 173 p. 8¢.
- MISSOURI, Biennial Message of Gov. David R. Francis to the Thirty-sixth General Assembly of the State of. Jefferson City, State. 42 p. 8¢.
- NEW YORK Institution for the Blind, Fifty-fifth Annual Report of the Managers of the, for the Year ending Sept. 30, 1890. Albany, State. 77 p. 8¢.
- PENNSYLVANIA Oral School for the Deaf, Scranton, Fifth Report of the, for the Years 1888-89, 1889-90. Scranton, F. F. Schoen, pr. 27 p. 8¢.
- ROSE, G. H. Text-Book of Hygiene. 2d ed. Philadelphia, London, F. A. Davis. 421 p. 8¢. \$2.50.
- SABIN, H. Organization and System vs. Originality and Individuality on the Part of Teacher and Pupil. Syracuse, N. Y., Bardeen. 9 p. 8¢.
- SCRIBNER'S MAGAZINE, Comics from. New York, Scribner. 8¢. 10 cents.
- SOLDAN, F. L. Tiedemann's Record of Infant-Life. Syracuse, N. Y., Bardeen. 46 p. 16¢.

- TERRY, J. Sculptured Anthropoid Ape Heads. New York, Amer. Mus. Nat. Hist. 15 p. 4¢.
- THOMPSON, S. P. Lectures on the Electromagnet. New York, W. J. Johnston Co. 287 p. 12¢.
- U. S. GEOLOGICAL SURVEY. Topographical Map of the United States. Washington, Government. 9 sheets. 1¢.
- Topographical Maps of Portions of New Jersey, Pennsylvania, Delaware, Maine, New Hampshire, Wisconsin. Washington, Government. 12 maps. 1¢.

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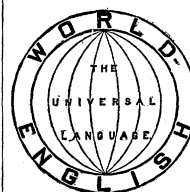
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—We learn from the *Journal of Economics* that a new serial publication devoted to economic discussion is about to appear in England as the organ of the newly founded British Economic Association. The association was organized in November last, with Mr. Goschen as president, and other men of eminence in the economic world in the other offices. The aim of the association is to promote economic study and discussion by all the means usually employed by such societies, but more particularly through the medium of the new journal, the first number of which will appear in March. It will not be the mouthpiece of any one school, but will welcome contributions from any writer who is master of his subject. In view of the prominence of English writers in the development of economic science, it is a little strange that such a movement has not been made by them before; but, now that it has been started, it can hardly fail to be important. There is also to be another periodical issued in England, called the *Economic Review*, which will deal with economic subjects in their moral and social aspects, and which will number among its contributors both English and American writers. The appearance of the new journals will be awaited with interest.

—In October last appeared the first number of the *International Journal of Ethics*, published in Philadelphia and London, and edited by a committee consisting of Americans,

Englishmen, and Germans. It is the successor of the *Ethical Record*, which was an organ of the ethical societies; but the new magazine is of a broader character, and devoted to the discussion of all ethical subjects, both theoretical and practical, without being an organ of any movement or opinion whatever. The first number was of a high order, the papers by Messrs. Sidgwick, Adler, and Höffding being especially suggestive, and the whole magazine giving excellent promise for the future. The January issue, however, is not so good, and contains some of those superficial and half-digested essays which are nowadays all too common. It opens with a well-considered article by Professor D. G. Ritchie, on "The Rights of Minorities," in which the writer maintains that the essential right of minorities is that of freely inculcating their views so as to persuade other people to adopt them, thus converting the minority into a majority. Next follow a review of Professor James's "Psychology," by Josiah Royce; an article on "The Inner Life in Relation to Morality," by J. H. Muirhead; and others on "Moral Theory and Practice," by John Dewey, and on "Morals in History," by Fr. Jodl; but none of these can be said to carry much weight. "The Ethics of Doubt," by W. L. Sheldon, is a thoughtful paper on Cardinal Newman, and some of the lessons of his life and career. Mr. F. H. Giddings has a brief article on "The Ethics of Socialism," and there is an interesting account by Mrs. M. McCallum of the ethical societies of Great Britain. On the whole, there is promise of much good in the new journal; but its conductors must maintain a high standard, and require thorough workmanship on the part of their contributors, if it is to hold the place that it ought to hold in the periodical literature of the time. The journal is published at 1602 Chestnut Street, Philadelphia, at two dollars a year.

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Presidential Address
Steps in our Knowledge of the Organic World.
The Mountain Sphinx.
Appendicularia, with its "Haus," Illustrated.
Koch's Remedy for Tuberculosis.
Aspect of the Heavens—January.
Half-an-Hour at the Microscope, with Mr. Tuffen West.
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