

posed of the magazine element of the weekly. Although the pictures will be, in the main, those employed in the weekly several months ago, there will be new and attractive reading matter. If it were not for this use of the plates the monthly would be an impossibility, the cost of making it being so great. The expense of publishing a weekly magazine of the character of the *Illustrated American* is so heavy that its price must necessarily be higher than the long-established weeklies. This price is the means of deterring many thousands from purchasing it, and in order to give people of small means a magazine at a nominal price it has been decided to issue the monthly at one dollar a year. Those who do not know the *Illustrated American* should ask for it the next time they pass a news-stand.

—G. P. Putnam's Sons have in press "The Living World: Whence it Came, and Whither it is Drifting," a review of the speculations concerning the origin and significance of life, of the facts known in regard to its development, and suggestions as to the direction in which the development is now tending, by H. W. Conn, professor of biology in Wesleyan University.

—A. E. Seaton, who is connected with Earle's Shipbuilding Company of Hull, England, will contribute to *Scribner's* steamship series an article on "Speed in Ocean Steamers," to appear in the July number. Commenting on the probability of "five-day steamers" on the Atlantic the author says: "It is always a question of *cui bono*, and when it is taken into consideration that the

voyage between Sandy Hook and Queenstown is now done in 140 hours, and to do the distance in five days would require a speed of nearly 23½ knots, with an increase in power of sixty-two per cent, and in fuel consumption of thirty-eight per cent, the cry must be regarded as a very far one at present. At the same time it is not desirable to believe that there is now finality in the speed of steamships, although by analogy with railway trains that conclusion might be arrived at."

—Macmillan & Co. have nearly ready for publication "A History of Human Marriage," by Dr. Edward Westermarck, lecturer on sociology at the University of Finland, Helsingfors. In an introductory note the work is commended to the attention of students by Dr. A. R. Wallace, who expresses a high opinion of the learning and insight displayed by the author. Dr. Westermarck differs widely in many respects from the opinions hitherto held by most anthropologists as to the development of the various forms of marriage.

—S. E. Cassino, 196 Summer Street, Boston, announces that the next edition of the "International Scientists' Directory" will be issued in the first half of 1892, two years from the date of publication of the former one. It is hoped that the new edition will contain nearly double the number of addresses given formerly, and the editor will be greatly pleased to receive any names which should be included. The foreign portion will be much more complete than formerly.

Publications received at Editor's Office,  
June 17-23.

HAMILTON, E. J. The Modalist; or, The Laws of Rational Conviction. Boston, Ginn. 331 p. 8°. \$1.40.  
IRON Ore District of East Texas, Reports on the, (Texas Geol. Survey). Austin, State. 326 p. 4°. \$1.00.  
NEW YORK Agricultural Experiment Station, Ninth Annual Report of, for 1890. Albany, State. 488 p. 8°. \$1.00.  
PURIFICATION of Sewage and Water. Experimental Investigations on, by the State Board of Health of Massachusetts. Part II. Boston, State. 910 p. 8°. \$1.00.  
WOODHEAD, G. S. Bacteria and their Products (Contemporary Science Series). New York, Scribner. 459 p. 12°. \$1.25.

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—The most prominent article in the *Review of Reviews* for July will be one prepared by Professor Herbert B. Adams of the Johns Hopkins University, entitled "University Extension and its Leaders." It is an account of the popular movement for the dissemination of advanced education among the people, in which the leading educators of America are now earnestly engaged, and it is illustrated with portraits of Professor Adams himself, Bishop Vincent, the head of the Chautauquan movement, Presidents Eliot of Harvard, Dwight of Yale, Adams of Cornell, Gilman of Johns Hopkins, Low of Columbia, Harper of Chicago, Northrop of Minnesota, Mr. Melvil Dewey, Professor E. J. James, and various other gentlemen. It may not be generally known in this country that the public school boards of Paris, London, and other great foreign cities, have finally come to the conclusion that it is necessary to feed, once a day at least, in all the public school buildings, the children of the poorer classes, in order to be sure that they may be in physical condition to receive intellectual instruction.

An article in the same number of the *Review* entitled "Food-Aided Education in Paris, London, and Birmingham," gives an account of the system under which this novel reform has been put into practice.

—An interesting paper on the habits of the moose, by Mr. J. G. Lockhart, appears in the June number of the *Zoologist*. One of the points noted is, that moose generally lie with the tail to windward, trusting to their senses of hearing and smelling, which are remarkably acute, to warn them of approaching danger from that quarter. They can use their eyes to warn them from danger to leeward, where hearing, and especially smelling, would be of little use. While they are sleeping or chewing the cud, their ears are in perpetual motion, one backward, the other forward, alternately. They also have the remarkable insight to make a short turn and sleep below the wind of their fresh track, so that any one falling thereon and following it up is sure to be heard or smelt before he can get within shooting distance.

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