including Several Species not before recorded from the Northern States,” by H. Garns.

The annual of the Office of Naval Intelligence (United States Navy Department), bearing date of June, 1890, has just appeared. It is No. IX. of the General Information Series, and is intended to bring to the attention of naval officers and others interested in naval matters the year’s progress in naval development abroad, and to preserve a record of it in permanent form for reference. The volume exhibits the progress of foreign nations rather than that of our own; and the information conveyed in the “Notes,” which occupy the most prominent place in the volume, is compiled from professional papers and journals, almost all of it having already appeared in print. Among the contents are notes on ships and torpedo-boats and on machinery, ordnance, and armor; on the application of electricity in the navy; and on the naval manoeuvres of 1889. There are also papers on “The Ministries of Marine and Personnel of Several European Navies,” “Administration of the Merchant Marine in Foreign Countries,” “The Development of Rapid-Fire Guns for Naval Use,” “The Year’s Development of Home Resources for the Production of War Material,” “Liquid Fuel for Torpedo-Boats,” “The Manoeuvring Distances of Steamers,” and “Automobile Torpedoes.” Twelve plates add to the value of the work.

The Popular Science Monthly will make a new departure in 1891 by publishing a series of comprehensive and fully illustrated articles on “The Development of American Industries since Columbus,” in which the progress of iron and steel making, of the cotton manufacture, and of the woolen, glass, leather, and other leading industries, will be described by writers of long practical acquaintance with their respective subjects. It has been announced that one of the features of the coming world’s fair is to be a comparison of the great manufactures of to-day with the condition of the same industries at the discovery of America, and it is the design of these papers to describe the successive steps by which the distance between those two stages has been passed over. The series begins in the issue for December, 1890 (the second number of Volume XXXVIII.), with an account of the first steps in iron-making in the Colonies, written by Mr. W. F. Durfee of Pennsylvania. The full prospectus of the Monthly for the coming year will be printed in the same number. Hon. David A. Wells will also begin during the coming year a series of papers on “The Principles of Taxation;” Dr. Andrew D. White’s “New Chapters in the Warfare of Science” will be continued; and other articles bearing upon the advances of science, and upon questions of the day, are promised. What shall we do with the “Dago?”—a puzzling question that seems likely to take rank with the Chinese problem—will be discussed by Mr. Appleton Morgan in the December number. Among the greatest achievements of science are the discoveries that sound, heat, and light are vibratory movements, each in its proper medium. The nature of electricity, however, has long remained unknown; but at last Dr. Henri Hertz of Heidelberg has reached a result that has been widely accepted by the most eminent physicists. A translation of his own account of his discoveries, under the title “The Identity of Light and Electricity,” will be printed in the same number. The industries of the Amazon will also be described by Mr. John C. Branner, State geologist of Arkansas. The “bore,” which is one of the most impressive phenomena of nature, occurs only in narrow estuaries where high tides prevail.
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CALENDAR OF SOCIETIES.

Nov. 4.—J. W. Powell, Transformation; W. J. Hoffman, Menomini Shamanism.

Philosophical Society, Washington.

Academy of Science and Art, Pittsburgh, Penn.
Nov. 7.—Gustave Guttenberg, Some Thoughts suggested by a Visit to the Allegheny Conservatory (illustrated by lantern slides).

Appalachian Mountain Club, Boston.
Nov. 12.—William H. Niles, Influence of Mountains upon Human Life.

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