

—The favorable reception accorded in the past to the Easter-card packets put up by H. H. Carter & Co., Boston, has encouraged this enterprising house to prepare their 1889 packages with even greater care than heretofore. Being one of the largest dealers in this class of goods in the country, and selling paper directly from the mills, they are enabled to give exceptionally good values. People dealing with them are sure to find their goods satisfactory.

—Contortionists and "Snake-men" will be described in the April *Scribner* by Dr. Thomas Dwight of the Harvard Medical School, who has made a thorough investigation of their peculiar anatomy. Photographs of several expert contortionists in their most wonderful feats will be reproduced in the article. Henrik Ibsen, the Norwegian dramatist, a literary genius little known in this country, is the subject of a paper in the same number. Charles Francis Adams's paper on "The Prevention of Railway Strikes" was written nearly three years ago, but held back by the author for fear that, in existing conditions, it might result in more harm than good. A practical scheme for giving employees a part in the management of the road is suggested. Pictures showing stages in the building of the great ocean steamers, the "City of New York" and others, will illustrate Mr. Rideing's article on "Ocean Greyhounds."

—At a regular meeting of the Nineteenth Century Club, New York, on the 9th of November last, a resolution was passed appointing a committee to prepare and publish a memorial volume to the founder and first president of the club, and to solicit subscriptions to defray the expenses. This volume is now ready for publication. The book will contain the funeral orations, the addresses delivered at the memorial meetings, and essays and letters since received. It will consist of about two hundred pages, octavo, printed on heavy Holland paper, and richly bound in levant morocco. This edition, upon which no pains or expense will be spared to make it worthy of the club and of the occasion, will cost five dollars per copy. For those who desire it, an edition, handsomely bound in cloth, will be supplied at a cost of three dollars per copy. As frontispiece there will be a portrait of Courtlandt Palmer. As the committee have decided to print only such copies of the memorial volume as are ordered in advance, it is desirable that no time should be lost in notifying John H. Beach, 25 East 57th Street, of the number of copies and the kind of binding which may be desired.

—Mr. Andrew Lang is a frequent contributor of leading articles on social and literary topics to the *London Daily News*; and some of his admirers think that not a little of his most characteristic writing is to be found in these "leaders," as the English call them. One of these admirers, with the author's permission, has gathered some thirty of these essaylets in a volume which Longmans, Green, & Co. will publish shortly, under the apt title of "Lost Leaders." Among the subjects treated are "Thackeray's Drawings," the "Art of Dining," "Phiz," "Amateur Authors," and the "Lending of Books."

—James W. Queen & Co., 924 Chestnut Street, Philadelphia, announce a clearance sale of microscopes, objectives, accessories, and sundries, and have issued a new catalogue. The firm's stock-taking strongly calls attention to the fact that some microscopical accessories (and other goods) have not shown, of late, such activity of commercial movement as is desirable. They have therefore picked them out, described them in their special catalogue, and cut the prices, to make them move along. The articles described in this list are new and perfect unless otherwise noted.

—The following are from the table of contents of the April number of *The Chautauquan*: "Gossip about Greece," by J. P. Mahaffy, M.A., of Dublin University; "Agesilaus," by Thomas D. Seymour, M.A., of Yale University; "Greek Art," by Clarence Cook; "Color in the Animal World," by the Rev. J. G. Wood; "What Inventors have done for Farming," by James K. Reeve; "The Care of the Insane," by A. G. Warner, Ph.D.; "Sunday Labor," by the Rev. Jesse H. Jones; "The First Presidential Inauguration," by Charles Carleton Coffin; "English Pronunciation," by Robert McLean Cumnock, of Northwestern University; "Stu-

dent Life in Paris," by F. M. Warren; "British Columbia," by Sheldon Jackson, D.D., United States general agent of education in Alaska; "Women's Clubs in London," by Susan Hayes Ward; "A Virginia Plantation," by C. W. Coleman; "The Secret Service of the Treasury Department," by Mrs. Carl Barus.

LETTERS TO THE EDITOR.

* * *Correspondents are requested to be as brief as possible. The writer's name is in all cases required as proof of good faith.
The editor will be glad to publish any queries consonant with the character of the journal.

Twenty copies of the number containing his communication will be furnished free to any correspondent on request.

Origin of Fish in Isolated Waters.

A FEW months ago I called attention to the abundance of fish in certain isolated ponds in Florida, which become dry at times. (*Science*, xii. p. 280). Mr. Henry W. Howe of Boston suggested in reply that fish may be transported from one pond to another by birds. This is an interesting suggestion, as indicating a possible explanation, though I am not aware that there is any evidence to that effect at present. Alligators might also be mentioned as a possible transporting agency. But any such means would seem to be inadequate to produce the observed results. Since my former communication, I have had further opportunity to investigate this subject. The past season in Florida has been a very unusual one. The rainy season, which usually begins in the peninsular portion of the State, about the 1st of June, failed to make its appearance, and a severe drought resulted. Ponds, swamps, creeks, and wells became dry. Then in the fall, when the rainy season usually closes, "the windows of heaven were opened," and a very wet fall and winter followed. But the ponds, which were dry for many weeks during the hottest part of the year, now swarm with little fish; and during the heavy rains fish could be seen not only in ponds, but in ditches beside the railroad, in ditches beside the fields, and in shallow rain pools which would dry in a few days, and had no connection with other waters. In fact, minnows have been almost abundant enough to give color to the old notion of the *rainings-down* of fish, frogs, tom-cats, lean meat, etc., reports of which are occasionally seen in the newspapers. There is certainly some certain and rapid means of populating the waters of isolated and temporary pools, which is well worth investigating.

CHS. B. PALMER.

Orange Heights, Fla., March 11.

The Soaring of Birds.

I HOPE I may be allowed space for a few short comments on Messrs. Gilbert and Kimball's letters in *Science*, xiii. pp. 169 and 170.

My conception of relative velocity does not differ from Mr. Gilbert's, as he supposes, and accordingly the statements of his paper were as clear to me as the restatements of his letter. So far as his presentation of the differential motion theory of soaring is concerned, my only criticism was that his assumption as to the dynamical effect of the wind on the bird during the turn seemed to demand more than mere assertion. One of my statements as to what this assumption implied, Mr. Gilbert questions as follows: "I do not admit 'that during the turn his [the bird's] velocity relative to the earth will change by an amount equal to twice the velocity, relative to the earth, of the medium in which the turn is made.' His velocity relative to the earth will change by an amount equal to twice his velocity relative to the medium." Both positions are correct, however. We are merely using the term "velocity" in different senses,—Mr. Gilbert as connoting both rate and direction of motion, I as connoting rate of motion simply. I used the term in this sense, because it was the sense in which Mr. Gilbert had used it when he asserted that the velocity of the bird relative to the air would be the same after a turn as before.

Both Mr. Gilbert and Dr. Kimball hold that the velocity of wind or bird relative to the earth "has nothing to do with the question." That surely depends, however, upon what the question is. If we undertake, as I did, to account for the fact that some birds are able, without flapping of wings, to describe paths which, *relatively to the earth*, are spirals about lines inclined upwards, velocities relative to the earth must be taken into consideration. If, how-