

crops, preservation of forests, and writing insurance. Nothing, perhaps, touches people's mundane welfare at so many points as the weather; and yet, as a science, meteorology is really in its infancy. In many civilized countries there are, aside from the official weather bureaus, independent associations made up of persons who are interested in their own or other people's investigations of the weather, in some of its bearings upon the happiness of man. Such are the New England, Royal, and Scottish Meteorological Societies. Some of the members are professional and hard working meteorologists, of national or world-wide fame, like Dr. Buchan and the Hon. Ralph Abercrombie; and some are wealthy but intelligent enthusiasts, like Mr. G. Lawrence Rotch of Boston, who has built and equipped one of the finest private observatories in the world, and in a quiet way contributes much to the advancement of science. There can be no question as to the value of such an organization. A few minutes' reflection should satisfy any well-informed resident of this city and vicinity that men enough, admirably qualified to conduct such an enterprise, are to be found hereabouts; and the advantages of affiliation for this purpose ought to be too apparent to need pointing out. The discussion of appropriate papers from members or outside experts, the education which even the most accomplished scholars would derive from others' labors, the stimulus and direction given to individual investigation, the procuring of a common library for use in meteorological research, the shaping of popular ideas about weather, and the depreciation of "cranks" of the Wiggins type, would be among these benefits. Whether those persons best fitted to carry on this work have the time and inclination to carry the proposed society through a short infancy into an assured permanence and a usefulness worthy of the American metropolis and its environs, is really the only question to be solved. I should be glad to be the humble means of bringing together for organization those who will favor the movement in private letters to the editor of *Science*. JAMES P. HALL.

Brooklyn, N.Y., May 20.

BOOK-REVIEWS.

Midnight Talks at the Club. Reported by AMOS K. FISKE. New York, Fords, Howard, & Hulbert. 16°. \$1.

MOST of the chapters of this book were originally published as a series of articles in the Sunday edition of the *New York Times*, and purport to be accounts of certain talks and discussions at the Asphodel Club, at which the author was present as a listener. The principal talker is known as "the Judge," who is obviously intended as the author's mouthpiece. The talks are almost entirely on religious themes, "the Judge's" views being those of the most advanced liberal Christians of the present day. He is represented as regarding "the restraint and elevating influence of Christianity over society as necessary to the uplifting of mankind from their low condition, the salvation of free institutions, and the system of popular government" (p. 108). But he holds that "the Church, in order to maintain its great influence and power for good, and do the work which most needs to be done, absolutely must range itself in line with modern progress in knowledge and thought" (p. 221). But the Church, he says, has not kept up with the intellectual progress of recent times, and for this reason is losing its hold upon the world. The remedy that "the Judge" proposes is to "discard the requirement of a belief in the miraculous" as a condition of admission to Christian fellowship. Such a loosening of the bonds of dogma would, he thinks, bring into the Church all the best minds of the age, and make it the saving and elevating power that it ought to be. It will be seen, therefore, that the views expressed in the book are those now commonly held by scientific men and historical critics, but they have not until recently been expressed in this country with such freedom and emphasis. Unfortunately, however, "the Judge's" views, like those of most liberal Christians, are mainly negative and critical; and he has little to say as to the positive side of religion, except that he believes in the being of God and the immortality of the soul. Hence, although the work is written in an excellent spirit, and contains many good points, the reader lays it down with the consciousness of something lacking.

Epitomes of Three Sciences: Comparative Philology, Psychology, and Old Testament History. Chicago, Open Court Publ. Co. 12°. 75 cents.

THIS volume contains three essays designed to give an account of recent investigations in certain departments of science, with their most important results. The ablest and most interesting is the first, on "The Study of Sanskrit," written by Professor H. Oldenberg of Kiel. It is not, as the title of the book would lead us to think, an exposition of comparative philology, which is only incidentally alluded to, but is an historical account of the discovery and elucidation of the ancient Sanscrit literature. Beginning with Sir William Jones, the author traces the progress of Sanscrit studies through various vicissitudes and difficulties to the present day, and shows how much has been done toward the recovery of this important literature, and by what means the work has been accomplished.

The second paper, entitled "Aspects of Modern Psychology," by Professor Joseph Jastrow, is really devoted to the new science of psycho-physics. It is not a summary of the science, but a brief history of its origin and development. The contributions of the different nations are recorded, those of Germany naturally occupying the most prominent place; and there are also a few pages on recent investigations in comparative psychology and in animal psychology.

The third essay, "Rise of the People of Israel," by Professor C. H. Cornill of Königsberg, is an attempt to state the grains of historical truth in the early traditions and legends of the Israelites. The author holds that every such historical legend has a basis of truth; but by what criterion he discriminates between the truth and its attendant falsehoods he does not tell us. However, he sets before us what he believes to be the real outline of Israelitish history from Abraham to David, which has at least the merit of being based on conscientious and painstaking study. On the whole, this little volume is well worthy of perusal.

Pure Logic and other Minor Works. By W. STANLEY JEVONS. New York, Macmillan. 8°. \$2.50.

THIS volume is made up of several of the author's shorter works, with a preface by Professor Robert Adamson. It contains the work on "Pure Logic" first published in 1864; "The Substitution of Similar," which appeared in 1869; and some minor logical essays, closing with the four papers entitled "John Stuart Mill's Philosophy Tested," originally published in the *Contemporary Review*. As all of them have long been before the world, and most students of logic and philosophy have already formed their opinion of them, we shall not discuss them here; but we cannot help recording our opinion that neither these nor the author's other works have such high merit as his admirers claim for them. Jevons was always trying to be original, and to revolutionize the branches of knowledge with which he dealt; yet his only valuable contributions to them relate to minor points. The criticisms of Mill might better, we should think, have been left to slumber in the pages of the magazine in which they originally appeared, as they are no benefit to their author's reputation. He does, indeed, point out some defects in Mill's philosophy; but many of his criticisms are worthless and misleading, while their tone and temper are about as bad as is possible. They are, in fact, models of all that controversial writings ought not to be.

How to Remember History. By VIRGINIA CONSER SHAFFER. Philadelphia, Lippincott. 8°. \$1.

THE main object of this work is to assist the student of history in remembering dates. It presents a summary of the leading events of the sixteenth, seventeenth, eighteenth, and nineteenth centuries, some thirty or forty in each one, with charts designed to make the dates and character of these events apparent to the eye. The occurrences of each century are first stated in brief chronological form, it being intended that these statements shall be committed to memory; and then follows a succinct historical account of the events themselves. But the charts are the peculiar feature of the work, and are believed, not only by the authoress but by others who have used them, to be valuable aids to the memory. The plan of the charts was originally borrowed from

some German writer, but is here given with modifications, each chart consisting of one hundred squares representing the years of the century, while colored sections within the squares indicate the important events. The plan is certainly ingenious; but we must confess to having considerable doubt as to the efficacy of any such contrivances. It may be worth trying, however, and the book is meritorious even apart from the charts.

AMONG THE PUBLISHERS.

IN *Lippincott's Magazine* for June, Robert Kennaway Douglas has an article upon "The Origin of Chinese Culture and Civilization." Mr. Douglas maintains that the Chinese were not aboriginal in China, but were immigrants into that country from Babylonia.

—Messrs. John Wiley & Sons announce as in preparation "Least Squares," by Professor W. W. Johnson of the United States Naval Academy.

—Henry Holt & Co. have issued a new catalogue covering their educational publications in science, mathematics, history and political science, English, French, German, Greek, Latin, Italian, and Spanish.

—Robert Bonner's Sons, New York, announce "Africa Re-Discovered: Five Years with the Congo Cannibals," by Herbert Ward. Mr. Ward's travels in Africa commenced in 1884, when he received an appointment in the service of the Kongo Free State.

He was a member of the Stanley Relief Expedition, and made his memorable canoe journey of eleven hundred miles on the Kongo in the service of H. M. Stanley.

—Columbia College, in its recent change of administration, has attracted to itself considerable public attention. The *New England Magazine*, in the coming June number, will contain an illustrated article on this subject by Professor Van Amringe.

—President Seth Low (ex-mayor of Brooklyn), in his article on "The Rights of the Citizen as a User of Public Conveyances," in the June *Scribner*, says, "The most valuable city franchises in the United States have been parted with, for the most part, for nothing. In Europe they have been largely retained as a source of revenue to the community. If we can find the reason for the facts as they exist here, much light may be thrown on the question of remedy."

—*The Chautauquan* for June opens with the second of a two-part article on "The Making of Italy," by Edward A. Freeman, the eminent English historian; James A. Harrison, LL.D., of Washington and Lee University, takes "The Archæological Club in Italy" to the end of its journey; Bella H. Stillman continues her studies of "Life in Modern Italy," this time giving a glimpse of the customs of the upper classes; Principal James Donaldson, LL.D., of the University of St. Andrews, Scotland, closes his series of articles on "Roman Morals;" a characteristic article on "How to Travel in Italy" is contributed by J. P. Mahaffy, M.A.,

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Publications received at Editor's Office,
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- BONAPARTE, Prince Roland. *Le Glacier de l'Aletsch et le Lac de Mârlajen*. Paris, The Author. 26 p. 4°.
- *Le Premier Etablissement des Néerlandais à Maurice*. Paris, The Author. 60 p. 4°.
- CHURCH, A. H. *The Chemistry of Paints and Painting*. London, Seeley & Co., 310 p. 12°. (New York, Macmillan, \$1.75.)
- DURHAM, W. *Evolution, Antiquity of Man, Bacteria, etc.* Edinburgh, Adam & Charles Black. 127 p. 12°. 50 cts.
- FISKE, A. K. *Midnight Talks at the Club*. New York, Fords, Howard & Hulbert. 298 p. 16°. \$1.
- HENSHAW, S. *Bibliography of the More Important Contributions to American Economic Entomology*. Parts I., II., III. The More Important Writings of Benjamin Dann Walsh and Charles Valentine Riley. Washington, Government. 454 p. 8°.
- HENSOLDT, H. *Zwei Jahre in Ceylon*. New York, Druck der Cherouny Pr. and Publ. Co. 51 p. 8°.
- JEVONS, W. S. *Pure Logic and other Minor Works*. Ed. by R. Adamson and Harriet A. Jevons. London and New York, Macmillan. 299 p. 8°. \$2.50.
- MARILAU, A. K. v. *Allgemeine Naturkunde*. Lief. 118-123. Pflanzenleben, II. Hefte 1-6. Leipzig, Bibliographische Institut. 320 p. 8°. (New York, Westermann.)
- OLD TESTAMENT STORIES in Scripture Language, From the Dispersion at Babel to the Conquest of Canaan. (Riverside Literature Series, No. 46.) New York and Boston, Houghton, Mifflin, & Co. 100 p. 16°. 15 cents.
- OLDENBERG, H.; JASTROW, J.; and CORNILL, C. H. *Epitomes of Three Sciences. Comparative Philology, Psychology, and Old Testament History*. Chicago, Open Court Publ. Co. 139 p. 12°. 75 cts.
- SHAFFER, Virginia C. *How to Remember History*. Philadelphia, Lippincott. 143 p. 8°. \$1.
- THAYER, W. R., ed. *The Best Elizabethan Plays*. Boston, Ginn & Co. 611 p. 12°. \$1.40.
- WARNER, F. *A Course of Lectures on the Growth and Means of Training the Mental Faculty*. Cambridge, University Pr. 222 p. 12°. (New York, Macmillan, 90 cents.)
- WILEY, H. W. *Record of Experiments in the Production of Sugar from Sorghum in 1889*. Washington, Government. 112 p. 8°.
- WITNESS, The. Vol. I, No. 1. m. Frankfort, Ky., S. F. Smith. 4 p. f°. 25 cents per year.

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By APPLETON MORGAN, Esq. 12°. 20 cents.

In this book Mr. Morgan, who is president of the New York Shakespeare Society, sets forth what he believes to be the true function of a Shakespeare Society, which in many respects he makes essentially scientific.

Ready June 7.

PROTOPLASM, THE CELL DOCTRINE, AND SPONTANEOUS GENERATION.

By C. F. COX. 12°. 75 cents.

The author of this book was for some years president of the New York Microscopical Society, and in this volume he sets forth his views on the spontaneous generation theory and its relation to the general theory of evolution, and on protoplasm and the cell doctrine.

Ready July 5.

THE CHEROKEES IN PRE-COLUMBIAN TIMES

By CYRUS THOMAS. 12°. \$1.

Dr. Thomas in this work will reverse the usual method of dealing with prehistoric subjects; that is to say, he will commence with the earliest recorded history of the tribe as a basis and trace the chain back step by step by the light of the mounds, traditions, and other evidence, as far as possible. He has already presented to the public some reasons for believing the Cherokees were mound-builders, but additional evidence bearing on the subject has been obtained. A more careful study of the Delaware tradition respecting the Tallegwi satisfies him that we have in the Bark Record (Walam Olum) itself proof that they were Cherokees. He thinks the mounds enable us to trace back their line of migration even beyond their residence in Ohio to the western bank of the Mississippi. The object is therefore threefold: 1. An illustration of the reverse method of dealing with prehistoric subjects; 2. Incidental proof that some of the Indians were mound-builders; 3. A study of a single tribe in the light of the mound testimony. This work will be an important contribution to the literature of the Columbian discovery which will doubtless appear during the coming two years.

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