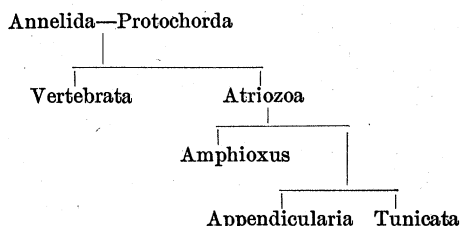


SCIENTIFIC JOURNALS.

The American Naturalist, November.—‘Cephalic Homologies. A contribution to the determination of the ancestry of vertebrates,’ CHARLES SEDGWICK MINOT; Advocates the following phylogeny:



‘The Limits of Organic Selection,’ HENRY FAIRFIELD OSBORN: Opening a discussion at Detroit already reported in SCIENCE. ‘The Geological Congress in Russia,’ CHARLES PALACHE. ‘Some Unwritten History of the Naples Zoological Station.’ An account of an address given by Dr. Anton Dohrn, at Woods Holl, on October 10th. ‘Wind River and Bridger Beds in the Huerfano Lake Basin,’ HENRY FAIRFIELD OSBORN. ‘Peculiar Zonal Formations of the Great Plains,’ FREDERIC E. CLEMENTS. ‘The Cricket as a Thermometer,’ A. E. DOLBEAR.

The Astrophysical Journal, November.—‘The Importance of Astrophysical Research and the Relation of Astrophysics to other Physical Sciences,’ JAMES E. KEELER. ‘Aspects of American Astronomy,’ SIMON NEWCOMB. ‘The Aim of the Yerkes Observatory,’ GEORGE E. HALE: Three addresses given on the occasion of the dedication of Yerkes Observatory. ‘Spectroscopic Notes,’ SIR WILLIAM and LADY HUGGINS: Discusses the spectra of the stars in the trapezium of the Great Nebula of Orion, the spectra of the colored components of β Cygni, the ultra violet spectra of α Lyræ and of Arcturus and on the effect of density on the spectrum of calcium. ‘New Investigations of the Spectrum of β Lyræ,’ A. BÉLOPOLSKY. ‘On the Constitution of the Red Spectrum of Argon,’ J. R. RYDBERG. ‘Spectra of Bright Southern Stars,’ EDWARD C. PICKERING.

The American Journal of Science, December.—‘A Microsclerometer, for determining the

Hardness of Minerals,’ T. A. JAGGAR, JR.: Descriptions with illustration of the author’s instrument. ‘Recent Observations on European Dinosaurs,’ O. C. MARSH: Communication made to the National Academy of Sciences, noticed in the last issue of this JOURNAL. ‘Sapphires from Montana, with special reference to those from Yogo Gulch in Fergus county,’ G. F. KUNZ. ‘Corundum-bearing Rock from Yogo Gulch, Montana,’ L. V. PIRSON. ‘Crystallography of the Montana Sapphires,’ J. H. PRATT: These three papers discuss the sapphires from Montana and their petrological and crystallographic aspects. ‘Electrical Measurement by Alternating Currents,’ H. A. ROWLAND: Describes numerous new methods for measuring capacities, inductances and resistances. ‘The Alleged Jurassic of Texas. A Reply to Professor Jules Marcou,’ R. T. HILL.

NEW BOOKS.

La culture des mers en Europe. GEORGES ROCHÉ. Paris, Félix Alcan. 1898. Pp. 328. 6 fr.

Physical Problems and their Solutions. A. BOURGONON. New York, D. Van Nostrand. 1897. Pp. iv+222.

La face de la terre. ED. SUESS. Translated into French by EMMANUEL DE MARGERIE and MARCEL BERTRAND. Paris, Armand Colin et Cie. Pp. 835. 5 fr.

The Strength of Materials. MANSFIELD MERRIMAN. New York, John Wiley & Sons. 1897. Pp. 124.

Report of the Commissioner of Education for the year 1895-6. Vol. 2. Washington, Government Printing Office. 1897. Pp. vii+2173.

Scientific Aspects of Christian Evidences. G. FREDERICK WRIGHT. New York, D. Appleton & Co. 1898. Pp. vii+362. \$1.50.

Erratum: In the article on ‘Primitive Man in the Delaware Valley’ by Professor W. H. Holmes, in the last issue of SCIENCE, pages 827-8, the two cuts were placed over the wrong titles and should be transferred.