## PARIS.

Academy of Sciences, December 13.-M. Ed. Perrier in the chair .- G. Bigourdan: The forgotten astronomer, Jean de Lignières, and the renaissance of astronomy in Europe. Riccioli ("Astronomia Reformata," 1665), giving the latitudes and longitudes of various stars, reproduced a small catalogue, the author of which was unknown to him, and since called by the name of Astronomus incognitus. Reasons are now given showing that this unknown astronomer was Jean de Lignières, a master of the University of Paris. The positions given in this catalogue are for the year 1364.

G. Humbert: The approximation of real irrationals.

H. Douvillé: The Orbitoids of the Danian and of the Tertiary.—J. Guillaume: Observations of the sun made at the Observatory of Lyons during the second quarter of 1915. The observations made on seventytwo days are tabulated, showing the number of spots, their distribution in latitude, and the distribution of the faculæ in latitude.—M. Mesnager: The elastic equilibrium of an indefinite plate of uniform thickness, compressed by two equal and opposite forces uniformly distributed along two parallel right lines situated in a plane normal to the bases .- Pierre Breteau: The preparation of phosphorescent calcium sulphide. Modifica-tions of Verneuil's method are suggested. The sul-phide is first prepared from a mixture of calcium carbonate and sulphur by ignition at a red heat, and this is then impregnated with 1/10,000 of its weight of bismuth. This is again raised to a red heat and allowed to cool slowly .- Mlle. Yvonne Dehorne: An Actinostromid of the Cenomanian.—J. Repelin: The discovery of deposits of large Pythonomorphs in the Upper Cretacean in the neighbourhood of Jerusalem.—Ph. Flajolet: Perturbation of the magnetic meridian at Lyons (Saint-Genis-Laval) during the second quarter of 1915 .- A. F. Legendre: General considerations on the structural forms of south-western China and the Tibetian borders.—C. Sauvageau: The commencements of the development of Saccorhiza bulbosa. -Arthur Compton: The influence of some meteorological factors on the appearance of cases of cerebrospinal meningitis. The degree of humidity of the atmosphere would appear to be a meteorological factor of great importance in determining the appearance of this disease when the organism is already present in the country.—M. Weinberg and P. F. Seguin: Researches on gas gangrene. This communication gives the results of the study of a hundred cases of this infection, together with suggestions for a serum treatment.-E. Vasticar: The terminations of the acoustic nerve.

## BOOKS RECEIVED.

Illustrations of the New Zealand Flora. Edited by T. F. Cheeseman, with the assistance of W. B. Hemsley; the plates drawn by Miss M. Smith. Vol. i. Pp. 8+121 plates and descriptions. Vol. ii. Plates 122-250 and descriptions+pp. xxxiv. (Wellington, N.Z.: J. Mackay.)

Transactions of the English Ceramic Society. Vol. xiv. Session 1914-15. (Stoke-on-Trent: The Society.) Department of Marine and Fisheries. Report of the Meteorological Service of Canada, Central Office, Toronto, for the Year ended December 31, 1912. Vol. i., Introduction and Parts i.-iii. Pp. xvi+367. Vol. ii., parts iv.-vi. Pp. 368-568. (Ottawa: J. de L. Taché.)

An Introduction to the Principles of Physical Chemistry from the Standpoint of Modern Atomistics and Thermodynamics. By Prof. E. W. Washburn. Pp. xxv+445. (New York: McGraw-Hill Book Company, Inc.; London: Hill Publishing Co., Ltd.) 15s. net.

Hancock's Applied Mechanics for Beginners. Revised and rewritten. By Prof. H. C. Riggs. Pp. xiii+441. (New York: The Macmillan Co.; London: Macmillan and Co., Ltd.) 10s. 6d. net.

The Wheat Industry. By N. A. Bengtson and D. Griffith. Pp. xiii+341. New York: The Macmillan Company; London: Macmillan and Co., Ltd.) 3s.

Catalysis and its Industrial Applications. By E. Jobling. Pp. viii + 120. (London: J. and A. Churchill.) 2s. 6d. net.

## DIARY OF SOCIETIES.

MONDAY, JANUARY 3.

ARISTOTELIAN SOCIETY, at 8.—Time, Space, and Relativity: Prof. A. N. Whitehead

SOCIETY OF CHEMICAL INDUSTRY, at 8.

TUESDAY, JANUARY 4.

RÖNTGEN SOCIETY, at 8.15.—Some Observations upon the Occurrence of Uranium: J. H. Gardiner.

WEDNESDAY, JANUARY 5.
GEOLOGICAL SOCIETY, at 5.30.—The Islay Anticline (Inner Hebrides):
E. B. Bailey.

THURSDAY, JANUARY 6.

OPTICAL SOCIETY, at 8.—The Use of a Graticule in Binoculars and Telescopes: S. D. Chalmers.

FRIDAY, JANUARY 7.

GEOLOGISTS' ASSOCIATION, at 7.30.—The Discovery and Excavation of a Large Specimen of Elephas antiquus near Chatham: Dr. C. W. Andrews.

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