

Caffarella.—G. Pellizzari: Transition from guanidine to cyanoamide, and from diguanide to dicyanodiamide.—Papers communicated through fellows:—C. Burali-Forti: Real numbers and magnitudes, i.—A. Artom: Apparatus for directional radio-mechanics. The currents from two receivers at right angles (or at any other angle) operate on two separate galvanometer coils, fixed at a similar angle to the receivers, in such a way that the deviation of the galvanometer needle depends on the difference of intensity of the currents generated in the coils, and its position thus indicates the direction from which the radio-telegraphic waves are received. The apparatus admits of several modifications.—The present number of the *Atti* contains obituary notices read at the preceding meeting (March 6) by Prof. R. Pirotta on the late Prof. G. Cuboni, and by Prof. Cerulli on the late Prof. Giovanni Celoria.

NEW SOUTH WALES.

Linnean Society, March 30.—Mr. J. J. Fletcher, president, in the chair.—J. J. Fletcher: Presidential address. The work of the society during the past year was reviewed and reference made to recent important events of scientific interest, including the establishment of the Australian National Research Council and of the Commonwealth Institute of Science and Industry; the first Pan-Pacific Science Conference; and the resumption of regular meetings of the Australasian Association for the Advancement of Science. The last part of the address referred to the Macleay Museum of the Sydney University, founded by Sir William Macleay. The history of the formation of the Macleay collections was related. In conclusion, the University of Sydney, which is joint trustee with the society for the museum, was criticised for neglect of its trust. Changes made in the building have caused the disruption of the Macleay collections, so that they no longer form an exposition of the fauna of Australia.—Mr. G. A. Waterhouse, elected president for the year 1921-22, then took the chair.—E. W. Ferguson: Revision of the Amycterides (Coleoptera). Part vi., *Acantholophus*. A detailed historical account is given, together with a critical revision of the genus and of the species referred to it. The genus is divided into two sections; in the first, the head is separated from the rostrum by the intercrystal ridge, the prothorax is produced above, and ocular lobes are present; in the second, the head is separated from the rostrum by a transverse impression, the prothorax is subtruncate above, and ocular lobes are absent. Fifty-nine species, ten of them new, are referred to the genus.—Dr. R. Greig-Smith: The high-temperature organism of fermenting tan bark. Part i. The fermentation of spent wattle-bark in the corrosion of white lead is caused by a stout, rod-shaped bacterium having a terminal spore. Its optimum laboratory temperature is 60° C.; in the corroding stacks the temperature may rise to 80°. Raw spent wattle-bark requires preliminary treatment. As conditions which oxidise tannin substances favour the fermentation of the raw bark, it is probable that the residual tannins inhibit fermentation.

Books Received.

Introduction to the Theory of Fourier's Series and Integrals and the Mathematical Theory of the Conduction of Heat. By Prof. H. S. Carslaw. Second edition, completely revised. Vol. i.: *Fourier's Series and Integrals*. Pp. xi+323. (London: Macmillan and Co., Ltd.) 30s. net.

The Fine Cotton Spinners' and Doublers' Association. NO. 2693, VOL. 107]

tion, Ltd., Manchester: Experimental Department. A Method for Measuring the Length of Cotton Hairs. By Dr. W. Lawrence Balls. Pp. 62. (London: Macmillan and Co., Ltd.) 3s. 6d. net.

The Purple Sapphire and other Posthumous Papers. Selected from the Unofficial Records of the University of Cosmopoli by Christopher Blayre. Pp. x+210. (London: P. Allan and Co.) 7s. 6d. net.

The Scientific Papers of the Hon. Henry Cavendish, F.R.S. Vol. i.: *The Electrical Researches*. Edited by Prof. J. Clerk Maxwell, revised by Sir Joseph Larmor. Pp. xxviii+452. Vol. ii.: *Chemical and Dynamical*. Edited by Sir Edward Thorpe. Pp. xii+496+vi plates. (Cambridge: At the University Press.) 6l. net the 2 vols.

The Salvaging of Civilization. By H. G. Wells. Pp. v+202. (London: Cassell and Co., Ltd.) 7s. 6d. net.

Festschrift der Kaiser Wilhelm Gesellschaft zur Förderung der Wissenschaften zu ihrem Zehnjährigen Jubiläum Dargebracht von ihren Instituten. Pp. iv+282. (Berlin: J. Springer.) 100 marks.

The Psychology of Day-Dreams. By Dr. J. Varendonck. Pp. 367. (London: G. Allen and Unwin, Ltd.; New York: The Macmillan Co.) 18s. net.

The Case-Hardening of Steel. By Harry Brearley. Second edition. Pp. xi+207. (London: Longmans, Green and Co.) 16s. net.

Factory Chemistry: Preparatory to Courses in Metallurgy and Metallography. By Wm. H. Hawkes. Pp. vii+59. (London: Longmans, Green and Co.) 4s. 6d. net.

The Correspondence of Commerce. By A. Risdon Palmer. (Pitman's Commerce Series.) Pp. xii+159. (London: Sir I. Pitman and Sons, Ltd.) 6s. net.

Ameboid Movement. By Prof. Asa A. Schaeffer. Pp. vii+156. (Princeton: University Press; London: Oxford University Press.) 10s. 6d. net.

Medical Research Council and Department of Scientific and Industrial Research: Reports of the Industrial Fatigue Research Board. No. 13: A Statistical Study of Labour Turnover in Munition and other Factories. (General Series, No. 4.) Pp. 92. (London: H.M. Stationery Office.) 3s. net.

Einführung in die Theoretische Physik mit besonderer Berücksichtigung ihrer Modernen Probleme. By Prof. Arthur Haas. Zweiter Band. Erste und Zweite auflage. Pp. vi+286. (Berlin and Leipzig: Walter de Gruyter and Co.) 12s. 6d.

Vorlesungen über die Theorie der Wärmestrahlung. By Prof. Max Planck. Vierte auflage. Pp. xi+224. (Leipzig: J. A. Barth.) 36 marks.

Elemente der Theoretischen Physik. By Prof. C. Christiansen and Prof. Johs. J. C. Muller. Vierte auflage. Pp. xxiv+680. (Leipzig: J. A. Barth.) 80 marks.

Moderne Magnetik. By Felix Auerbach. Pp. viii+304. (Leipzig: J. A. Barth.) 48 marks.

Stanford University Publications: University Series. Mathematics and Astronomy, vol. i. No. 1: Primitive Groups. By Prof. W. A. Manning. Part i. Pp. 108. (California: Stanford University.) 1.25 dollars.

Die Theorie der Allotropie. By Prof. A. Smits. Pp. xvi+500. (Leipzig: J. A. Barth.) 100 marks.

Etudes élémentaires de Météorologie Pratique. By Albert Baldit. Pp. ix+347. (Paris: Gauthier-Villars et Cie.) 15 francs net.

La forme et le Mouvement. Essai de Dynamique de la Vie. By Georges Bohn. Pp. 175. (Paris: E. Flammarion.) 4.50 francs net.

Petrographic Methods and Calculations, with some Examples of Results Achieved. By Dr. Arthur Holmes. Pp. xix+515+iv plates. (London: T. Murby and Co.) 31s. 6d. net.