

period of incubation obeys very exactly the law of Gauss, the average duration being thirty-four days.—**L. Roy**: The problem of reflection and refraction by plane periodic waves.—**F. B. de Lemaizan**: The resistance of the electric spark.—**P. L. Mercanton**: The magnetic state of some prehistoric pottery. The articles examined were taken from Swiss lakes (Bienne, Zurich, Pfäffiken), and from magnetic observations on nine pieces the conclusion is drawn that at the time and place of manufacture the terrestrial magnetic inclination was nearly zero.—**P. Chevenard**: The determination of the velocities of cooling necessary for the realisation of tempering in carbon steels. The results for a series of steels with carbon graded from 0.2 per cent. to 0.8 per cent. are given in the form of curves.—**C. Matignon** and **F. Meyer**: The double sulphate of soda and ammonia. Thermochemical and solubility data.—**P. de Sousa**: The epigenetic movements during the Quaternary at Algarve, Portugal.—**E. Hernandez-Pacheco**: The Archæocyatidæ of the Sierra de Cordoba (Spain).—**A. Guébard**: Remarks on the sedimentary crust.—**E. Saillard**: The balance of some constituent principles of the sugar-beet during the manufacture of sugar. The various products arising during the extraction of sugar from the sugar-beet have been analysed, and the data used to construct balance-sheets for the dry material, nitrogen, potash, soda, and phosphoric acid. The three last-named substances can be practically all recovered and returned to the soil, but about one-half of the nitrogen cannot be utilised.—**L. Devillers**: The determination of the indigestible residue *in vitro* produced by pancreatin acting upon wheat or the products of milling and baking. Figures are given for fourteen samples of wheat, flour, and bread.—**F. Guitel**: The first stages of the development of the adhesive apparatus of *Lepadogaster*.—**A. Nanta**: The initial alterations of the liver in great traumatism.

#### BOOKS RECEIVED.

The Third and Fourth Generation: An Introduction to Heredity. By E. R. Downing. Pp. xi+164. (Chicago: University of Chicago Press; London: Cambridge University Press.) 1 dollar net.

Plant Products and Chemical Fertilizers. By S. H. Collins. Pp. xvi+236. (London: Baillière, Tindall, and Cox.) 7s. 6d. net.

The Alkali Industry. By J. R. Partington. Pp. xvi+304. (London: Baillière, Tindall, and Cox.) 7s. 6d. net.

University of Chicago. Publications of the Members of the University, 1902-1916. Pp. x+518. (Chicago: University of Chicago Press; London: Cambridge University Press.)

Bibliography of the Geology and Eruptive Phenomena of the More Important Volcanoes of Southern Italy. Compiled, with the assistance of Madame A. Johnston-Lavis, by Dr. H. J. Johnston-Lavis. Second edition. Pp. xxiv+374. (London: University of London Press, Ltd.)

Yorkshire Type Ammonites. Edited by S. S. Buckman. Part xv. (London: W. Wesley and Son.) 3s. 3d. net.

The *Athenaeum* Subject Index to Periodicals, 1916. Science and Technology, including Hygiene and Sport. Pp. 162. (London: The *Athenaeum*.) 10s. net.

A Handbook on Antiseptics. By Drs. H. D. Dakin and E. K. Dunham. Pp. ix+129. (New York: The Macmillan Co.; London: Macmillan and Co., Ltd.) 7s. net.

The Botany of Iceland. Edited by Drs. L. K. Rosenvinge and E. Warming. Part ii. Pp. 347 to 675. (Copenhagen: J. Frimodt; London: J. Wheldon and Co.) 5s. 6d. net.

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#### DIARY OF SOCIETIES.

**THURSDAY, MAY 16.**  
**ROYAL SOCIETY**, at 4.30.—Note on Certain Coloured Interference Bands and the Colours of Tempered Steel: A. Mallock.—General Factors in Mental Measurements: J. C. M. Garnett.—The Absorption of X-Rays in Copper and Aluminium: C. M. Williams.—The Electrical Resolution and Broadening of Helium Lines: Dr. T. R. Merton.  
**ROYAL INSTITUTION**, at 3.—The Prosecution and Punishment of Animals: Sir J. G. Frazer.  
**ROYAL SOCIETY OF ARTS**, at 4.30.—The Freedom of the Sea: John Leyland.  
**INSTITUTION OF MINING AND METALLURGY**, at 5.30.

**FRIDAY, MAY 17.**  
**ROYAL INSTITUTION**, at 5.30.—The Story of a Grass: Dr. A. B. Rendle.

**TUESDAY, MAY 21.**  
**ROYAL INSTITUTION**, at 3.—A Master of Method—Pitt-Rivers: Prof. A. Keith.

**THURSDAY, MAY 23.**  
**ROYAL INSTITUTION**, at 3.—The Abode of Snow: Its Appearance, Inhabitants, and History: Sir Francis Younghusband.  
**INSTITUTION OF ELECTRICAL ENGINEERS**, at 6.—Some Transient Phenomena in Electrical Supply Systems: Prof. E. W. Marchant.

**FRIDAY, MAY 24.**  
**ROYAL INSTITUTION**, at 5.30.—Internal Ballistics: Lt.-Col. A. G. Hadcock.  
**LINNEAN SOCIETY**, at 3.—Anniversary Meeting.

**SATURDAY, MAY 25.**  
**ROYAL INSTITUTION**, at 3.—Problems in Bird-Migration: Prof. C. J. Patten.

**TUESDAY, MAY 28.**  
**ZOOLOGICAL SOCIETY**, at 5.30.—A Case of Hermaphroditism in a Lizard, *Lacerta viridis*: Noel Taylor.—Fresh-water Fish as Food: C. Tate Regan.

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