

sults are tabulated in three groups showing the number of spots, their distribution in latitude, and the distribution of the faculæ in latitude.—M. **Philippon**: The manufacture of silica bricks. A summary of the conclusions resulting from researches made at the Dunes factory during 1916 and 1917. Full details will be given in a later communication. The bricks now being made melt at about 1780° C., and have up to the present supported 200 melts in the Martin furnace.—Ph. **Giangeaud**: The geology of the neighbourhood of Bort (Corrèze).—Ph. **Flajolet**: Disturbances of the magnetic meridian at Lyons (Saint-Genis-Laval) during the second quarter of 1917.—P. **Guérin**: The stamen and the development of the pollen of the sages.—L. **Daniel**: Heredity of the abbreviation of development in the cultivated carrot and beet.—R. **Souèges**: The embryogeny of the Alismaceæ.—J. **Laborde**: The constitution of the fixed acidity of healthy and diseased wines.—E. **Kayser**: Contribution to the study of alcoholic ferments.—L. **Mencièrre**: Physiological properties and medico-surgical applications of guaiacol and benzoic acid. These two substances, associated with other substances of the aromatic series, have powerful antiseptic properties, and the advantage of not being toxic to the cell. Examples of their application in practice are given.—G. A. **Le Roy**: The photographic analysis of fresh and preserved eggs.

BOOKS RECEIVED.

French Scientific Reader. Edited, with Introduction, Notes, and Vocabulary, by Dr. F. Daniels. Pp. xvi+748. (New York and London: Oxford University Press.) 10s. 6d. net.

Tommy Smith at the Zoo. By E. Selous. Pp. vii+183+8 illustrations. (London: Methuen and Co., Ltd.) 1s. 9d. net.

How to Enlighten our Children. By Dr. M. Scharlieb. Pp. 202. (London: Williams and Norgate.) 3s. 6d. net.

A Course of Pure Geometry, containing a Complete Geometrical Treatment of the Properties of the Conic Sections. By Dr. E. H. Askwith. New edition. Pp. xi+284. (Cambridge: At the University Press.) 7s. 6d. net.

The Historical Register of the University of Cambridge. Edited by Dr. J. R. Tanner. Pp. xii+1186. (Cambridge: At the University Press.) 12s. 6d. net.

Cambridge Essays on Education. Edited by Dr. A. C. Benson. Pp. xix+232. (Cambridge: At the University Press.) 7s. 6d. net.

Elements of Constructive Philosophy. By Dr. J. S. Mackenzie. Pp. 487. (London: G. Allen and Unwin, Ltd.) 12s. 6d. net.

The Principles of Audosis and Clinical Methods for its Study. By A. W. Sellards. Pp. vi+117. (Cambridge, Mass.: Harvard University Press.) 4s. net.

The Fishing Village and other Writings. By W. Omer-Cooper. Pp. 184. (Bournemouth: H. G. Commin.)

DIARY OF SOCIETIES.

THURSDAY, JANUARY 10.

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—Electrical Signalling and Control on Railways: C. M. Jacobs.

MATHEMATICAL ASSOCIATION (London Day Training College), at 11.—The Uses and Functions of a School Mathematical Library: Dr. W. P. Milne.—Nomography: Dr. S. Brodetsky.—Some Suggestions for a Presentation of Mathematics in Closer Touch with Reality: G. Goodwill.—At 2.30.—President's address: Mathematics and Individuality: Prof. T. P. Nunn.—Discussion: The Position of Mathematics in the New Scheme of the Board of Education for Secondary Schools: Openers: W. D. Eggar, P. Abbott, Miss J. Dow.

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FRIDAY, JANUARY 11.

ROYAL GEOGRAPHICAL SOCIETY (Kensington Town Hall), at 3.30.—The Old Life in Egypt: Miss Mary Brodrick.

ROYAL ASTRONOMICAL SOCIETY, at 5.

MONDAY, JANUARY 14.

FARADAY SOCIETY, at 5.30.—Discussion: The Setting of Cements and Plasters.—The Mechanism of the Setting Process in Plaster and Cement: Dr. C. H. Desch.—Crystalloids v. Colloids in the Theory of Cements: Prof. H. Le Chatelier.—The Theory of Setting: Prof. F. G. Donnan.—The Constitution and Hydration of Portland Cement: A. A. Klein.—The Setting and Hardening of Portland Cement: George A. Rankin.—The Setting of Cement in its Relation to Engineering Structures: Bertram Blount.—Note on the Colloidal Theory of Setting: John Rhodin.—The Effect of the Addition of Suitable Slag on the Setting Properties of Portland Cement: E. H. Lewis and E. Deny.—Ancient and Modern Mortar: W. J. Dibdin.

TUESDAY, JANUARY 15.

ROYAL INSTITUTION, at 3.—Palestine and Mesopotamia: Prof. Flinders Petrie.

ILLUMINATING ENGINEERING SOCIETY, at 5.—Ten Years of Illuminating Engineering: its Lessons and Future Prospects: L. Gaster.

INSTITUTION OF PETROLEUM TECHNOLOGISTS, at 8.—The Petroleum Industry of Rumania: Capt. T. S. Masterson.

MINERALOGICAL SOCIETY, at 5.30.—Rock Diagrams: Dr. J. W. Evans.—The Use of the Gnomonic Projection in the Calculation of Crystals: Dr. G. F. Herbert Smith.

ROYAL STATISTICAL SOCIETY, at 5.15.—Urban Housing Problems: J. Calvert Shensley.

WEDNESDAY, JANUARY 16.

ROYAL METEOROLOGICAL SOCIETY, at 5.—Annual General Meeting.

ROYAL MICROSCOPICAL SOCIETY, at 8.—Presidential Address: The Royal Microscopical Society during the Great War—and After: E. Heron-Allen.

ENTOMOLOGICAL SOCIETY, at 8.—Annual Meeting.

THURSDAY, JANUARY 17.

LINNEAN SOCIETY, at 5.—(1) Restoration of the Head of Osteolepis; (2) Femur of Pterodactyl from the Stonesfield Slate: E. S. Goodrich.—Some Early Cape Botanists: J. Britten.—A Hybrid Stachys: C. E. Salmon.

INSTITUTION OF MINING AND METALLURGY, at 5.30.—The Incidence of Taxation upon Metalliferous Mining in the British Isles: H. Louis.—Molybdenum in Norway: E. R. Woakes.

FRIDAY, JANUARY 18.

ROYAL INSTITUTION, at 5.30.—Studies on Liquid Films: Sir James Dewar.

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—Traction on Bad Roads or Land: L. A. Legros.—Utility of Motor Tractors for Tillage Purposes: A. Amos.

SATURDAY, JANUARY 19.

ROYAL INSTITUTION, at 3.—The Chemical Action of Light: Prof. W. J. Pope.

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