

andergreifen und ihre astronomischen Ursprünge und Regulatoren. By C. Beckenhaupt. Pp. 104. (Brackwede i. W. : Dr. W. Breitenbach.) 2 marks.

The British Bird-Book. Edited by F. B. Kirkman. Section viii. Pp. 195 to 412+plates. (London and Edinburgh: T. C. and E. C. Jack.) 10s. 6d. net.

Annuals, Hardy and Half-hardy. By C. H. Curtis. Pp. 116. (London and Edinburgh: T. C. and E. C. Jack.) 1s. 6d. net.

Opere Matematiche del Marchese Giulio Carlo de' Toschi di Fagnano. Pubblicate sotto gli auspici della Società Italiana per il Progresso delle Scienze dai soci V. Volterra, G. Loria, D. Gambioli. Vol. Primo. Pp. a-q+474. Vol. Secondo. Pp. xi+471. Vol. Terzo. Pp. xi+227+ii plates. (Milano, Roma & Napoli: Albrighi, Segati e C.)

A Text-book of Rand Metallurgical Practice. By R. Stokes and others. In 2 vols. Vol. i. Pp. xix+468. (London: C. Griffin and Co., Ltd.) 21s. net.

Methods of Air Analysis. By Dr. J. S. Haldane. Pp. x+130. (London: C. Griffin and Co., Ltd.) 5s. net.

The Prevention and Treatment of Disease in the Tropics. By E. S. Crispin. Pp. 95. (London: C. Griffin and Co., Ltd.) 1s. net.

Handwörterbuch der Naturwissenschaften. Edited by E. Korschelt and others. Sechste Lief. Pp. 481-640. Siebente Lief. Pp. 641-800. (Jena: G. Fischer.) 2.50 marks each.

Publications of the American Ethnological Society. Vol. iii.—Haida Songs. By J. R. Swanton. Tsimshian Texts (new series). By F. Boas. Pp. v+284. (Leiden: Late E. J. Brill.) 8s. 6d.

Meteorology: a Text-book on the Weather, the Causes of its Changes, and Weather Forecasting. By Prof. W. I. Milham. Pp. xvi+549+charts L. (London: Macmillan and Co., Ltd.) 19s. net.

Earth Features and their Meaning. By Prof. W. H. Hobbs. Pp. xxxix+506. (London: Macmillan and Co., Ltd.) 12s. 6d. net.

Essais de Synthèse Scientifique. By E. Rignano. Pp. xxxi+205. (Paris: F. Alcan.) 5 francs.

Scientific Memoirs by Officers of the Medical and Sanitary Departments of the Government of India. New series. No. 48—Investigations into the Jail Diets of the United Provinces, &c. By Major D. McCay. Pp. viii+200. New series. No. 49—Epidemic Dropsy in Calcutta. By Major E. D. W. Greig. (Calcutta: Superintendent, Government Printing.) 3s. and 2s. 6d.

Royal Botanic Gardens, Kew. Bulletin of Miscellaneous Information. Additional Series x.—Flora of Kwangtung and Hongkong (China). By S. T. Dunn and W. J. Tutcher. Pp. 370. (London: H.M.S.O.; Wyman and Sons, Ltd.) 4s. 6d.

## DIARY OF SOCIETIES.

THURSDAY, APRIL 25.

ROYAL SOCIETY, at 4.30.—The Diffusion and Mobility of Ions in a Magnetic Field: Prof. J. S. Townsend, F.R.S.—On the Observed Variations in the Temperature Coefficients of a Precision Balance: J. J. Manley.—On the Torque produced by a Beam of Light in Oblique Refraction through a Glass Plate: Dr. Guy Barlow.—Contributions to the Study of Flicker. III: Dr. T. C. Porter.

ROYAL INSTITUTION, at 3.—Synthetic Ammonia and Nitric Acid from the Atmosphere: Prof. A. W. Crossley, F.R.S.

ROYAL SOCIETY OF ARTS, at 4.30.—The Central Provinces: Sir John O. Miller, K.C.S.I.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Third Kelvin Lecture: Prof. H. du Bois.

CONCRETE INSTITUTE, at 8.—Discussion on reports presented by the Tests Standing Committee, entitled (1) The Testing of Concrete, Reinforced Concrete, and Materials Employed therein; (2) The Testing of Reinforced Concrete Structures on Completion.

FRIDAY, APRIL 26.

ROYAL INSTITUTION, at 9.—Sir William Herschel: Sir George Darwin, K.C.B., F.R.S.

PHYSICAL SOCIETY, at 5.—Adjourned Discussion: The Coefficients of Expansion of Fus-d Silica and Mercury: H. Donaldson.—The Solution of Network Problems by Determinants: R. Appleyard.—A Method of Measuring Small Inductances: S. Butterworth.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Principles and Practice of Accountancy in Relation to Engineering Design and Work: T. Frame Thomson.

MONDAY, APRIL 29.

ROYAL SOCIETY OF ARTS, at 8.—Heavy Oil Engines: Captain H. R. Sankey.

INSTITUTE OF ACTUARIES, at 5.—On the Superannuation and Pension Funds of certain Metropolitan Borough Councils, their Establishment, Administration, and Actuarial Investigation: H. W. Manly and T. G. Ackland. With Tables of Progress of Typical Funds for Officers and Workmen and Examples: L. E. Cinton.

TUESDAY, APRIL 30.

ROYAL INSTITUTION, at 3.—Insect Distribution with Special Reference to the British Islands: F. Balfour Browne.

WEDNESDAY, MAY 1.

ROYAL INSTITUTION, at 5.—Annual Meeting.

ROYAL SOCIETY OF ARTS, at 8.—Ancient Egyptian Ceramics: William Burton.

SOCIETY OF PUBLIC ANALYSTS, at 8.—The Analysis of Lithopone: W. L. Austin and Dr. C. A. Keane.—The Effect of Calcium on the Ammonium Molybdate Lead Assay: C. O. Bannister and W. McNamara.—The Constituents of Oil of Savin: J. Watson Agnew and R. B. Croad.—The Detection of Heavy Petroleum in Paints and Vegetable Oils: W. B. Pollard.

ENTOMOLOGICAL SOCIETY, at 8.—The Colour-groups of the Hawaiian Wasps: Dr. R. C. L. Perkins.

GEOLOGICAL SOCIETY, at 8.—Insect Remains from the Midland and South-Eastern Coal-Measures: H. Bolton.—On the Geology of Mynydd Gader, Dolgelly, with an Account of the Petrology of the Area between Dolgelly and Cader Idris: P. Lake and Prof. S. H. Reynolds.

THURSDAY, MAY 2.

ROYAL SOCIETY, at 4.30.—Probable Papers: Petrifications of the Earliest European Angiosperms: Marie C. Stopes.—The Distribution of Oxidases in Plants and their rôle in the Formation of Pigments: Dr. F. Keeble and Dr. E. F. Armstrong.—The Manifestation of Active Resistance to the Growth of Implanted Cancer: Dr. B. R. G. Russell.—The Nature of the Immune Reaction to Transplanted Cancer in the Rat: Dr. W. H. Woglom.—On the Instability of a Cortical Point: T. G. Brown and Prof. C. S. Sherrington, F.R.S.—The Measurement of *Trypanosoma rhodesiense*: Dr. J. W. W. Stephens and Dr. H. B. Fantham.

ROYAL INSTITUTION, at 3.—Explorations in the Canadian Rocky Mountains: Prof. J. Norman Collie, F.R.S.

LINNEAN SOCIETY, at 8.—On the Structure of the Palaeozoic seed *Lagenosmia ovoides*, Will: Miss T. L. Pranker.—Additions to the Flora of Western and North-Western Australia: Dr. Karl Domin.—Freshwater Rhizopoda from the States of New York, New Jersey, and Georgia, U.S.A.; with a Supplement on the Collection from the Seychelles: G. H. Wales.—*Ligidium hypnorum* a Woodlouse new to Britain: W. M. Webb.—New Light on the Linnean Herbarium: The General Secretary.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Adjourned Discussion: The Causes Preventing the More General Use of Electricity for Domestic Purposes.

FRIDAY, MAY 3.

ROYAL INSTITUTION, at 9.—The Use of Pedigrees: W. C. D. Whetham, F.R.S.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Resumed discussion: Tenth Report to the Alloys Research Committee: on the Alloys of Aluminium and Zinc: Prof. J. O. Arnold.

## CONTENTS.

	PAGE
In Nature's Byways	185
Soil Structure and Plant Growth. By Dr. E. J. Russell	186
The Advance of Photography. By C. J.	187
The Grammar of Science	188
A Biological Dictionary	189
Our Bookshelf	189
Letters to the Editor:—	
Insect Parasites on Trees.—Right Hon. Sir Herbert Maxwell, Bart., F.R.S.	191
The Propagation of Long Electric Waves during the Solar Eclipse ( <i>With Diagram</i> ).—Dr. W. H. Eccles	191
Glazed Frost.—Andrew H. Palmer	192
Animal Intelligence.—M. N. W.	192
The Eclipse of the Sun on April 17. ( <i>Illustrated</i> ).	192
Sardines	194
Prof. A. Lawrence Rotch. By E. G.	195
Notes	195
Our Astronomical Column:—	
Cometary Statistics	199
The Best Value of the Solar Constant	199
Observations of Saturn and its Rings	199
The Cañon Diablo Crater	199
Nova Geminorum No. 2 ( <i>Illustrated</i> ). By F. E. Baxendall; William E. Rolston	200
The Loss of the "Titanic"	201
Reports upon Meteorological Observations	202
The Origin of Radium. ( <i>With Diagrams</i> ). By Frederick Soddy, F.R.S.	203
The Crocker Land Expedition	206
University and Educational Intelligence	206
Societies and Academies	207
Books Received	209
Diary of Societies	210