The Fauna of British India, including Ceylon and Burma: Diptera Nematocera (excluding Chironomidæ and Culicidæ). By E. Brunetti. Pp. xxix+581+xii plates. (London: Taylor and Francis.) 20s.

Les Progrès Recents de l'Astronomie. By Prof.

P. Stroobant. Pp. 173+iv plates. (Brussels:

Hayez.)

Technical Electricity. By Prof. H. T. Davidge and R. W. Hutchinson. Fourth Impression. (Third (London: W. B. Clive.) Pp. xii+590. Edition.)

Notes on Chemical Research. By W. P. Dreaper. Pp. x+68. (London: J. and A. Churchill.) 2s. 6d.

net.

Who's Who in Science. International, 1913. Edited by H. H. Stephenson. Pp. xvi+572. (London: J. and A. Churchill.) 8s. net.

The Dynamic Foundations of Knowledge. By A. nilip. Pp. xii+318. (London: Kegan Paul and Philip. (London: Kegan Paul and Co., Ltd.) 6s. net.

Industrial and Manufacturing Chemistry. Organic. By Dr. G. Martin and others. Pp. xii+726+plates. (London: Crosby Lockwood and Son.) 21s. net.

Die neue Tierpsychologie. By G. Bohn. German edition by Dr. R. Thesing, Pp. viii+183. (Leipzig:

Weit and Co.) 3 marks.

Memoirs of the Geological Survey. England and Wales. Explanation of Sheet 299. The Geology of the Country around Winchester and Stockbridge. By H. J. D. White. Pp. 89. (London: H.M.S.O.; E. Stanford, Ltd.) 18. 6d.

Das Auge von Palaemon Squilla. By Dr. E. Trojan. Pp. 54+vi plates. (Vienna: A. Holder.)
Memoirs of the Geological Survey. Scotland. The

The Parts i., ii., iii. Oil-shales of the Lothians. By R. G. Carruthers and others. Pp. xii + 199+2 plates + map. (Edinburgh: H.M.S.O.; London: E. Stanford, Ltd.) 2s. 6d.

Catalogue of the Photographic Collection at the Forest Research Institute, Dehra Dun, India. Pp. (Calcutta: Superintendent Government iii + 245.Printing, India.)

Memoirs of the Queensland Museum. Vol. i. Edited by Dr. R. Hamlyn-Harris. Pp. 216+16 plates. (Brisbane: A. J. Cumming.)

## DIARY OF SOCIETIES.

THURSDAY, JANUARY O.
CONCRETE INSTITUTE, at 7.30.—Concrete in its Legal Aspect: W. Valentine Ball.
INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Design of Apparatus for Improving the Power Factor of A. C. Systems: Prof. Miles Walker.
MATHEMATICAL SOCIETY, at 5.30.—The Reduction of Ideal Numbers: W. E. H. Berwick.—Proofs of Certain General Theorems Relating to Orders of Coincidence: J. C. Fields,

FRIDAY, JANUARY 10.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Observations of Comet 10122 (Gale): J. Tebbutt.—The Periodic Errors in the Right Ascensions of the Standard Catalogues: S. S. Hough.—Sunspots and Terrestial Magnetic Phenomena, 1808-1911. The Greater Magnetic Storms. II.: Rev. A. L. Cortie.—Observations of the Satellite of Neptune from Photographs taken between 1909, November 22, and 1910, April 15: Royal Observatory, Greenwich.—Probable Papers: The Motions and Distances of the Bright Stars of the Types B.—B5 (Stellar Motions, No. 4): H. C. Plummer.—The Short Period Variable SU Traconis: C. Martin and H. C. Plummer.

MONDAY, JANUARY 13.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Journeys in North-east Greenland: Einar Mikkelsen.

TUESDAY JANUARY 14.

ROYAL INSTITUTION, at 3.—The Heredity of Sex and Some Cognate Problems: Prof. W. Bateson.

ILLUMINATING ENGINEERING SOCIETY, at 8.—Acetylene Lighting: C. Hoddle.—Petrol Air Gas Lighting: E. Scott Snell.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Bridging Operations Conducted Under Military Conditions: Capt. C. E. Pym Sankey, R.E.

ROVAL SOCIETY OF ARTS, at 8.—The Present Condition and Future Prospects of the British Sea Fisheries: Dr. J. Travis Jenkins. ROVAL METEOROLOGICAL SOCIETY, at 7.30.—Annual General Meeting.—The Snowfall of the United States: C. F. Brooks.

AERONAUTICAL SOCIETY, at 8.30.—Stresses and Stress Diagrams Relative to Aeroplane Structure: F. Handley Page.

NO. 2254, VOL. 90

ENTOMOLOGICAL SOCIETY, at 8.—Annual Meeting.
ROYAL MICROSCOPICAL SOCIETY, at 8.—Presidential Address: Bedellus immortalis: H. G. Plimmer.

THURSDAY JANUARY 16.

THURSDAY JANUARY 16.

ROYAL SOCIETY, at 4.30.—Probable Papers: The Effect of Junctions on the Propagation of Electric Waves along Conductors: Lord Rayleigh.—The Influence of Chemical Constitution upon Interfacial Tension and upon the Formation of Composite Surfaces: W. B. Hardy.—Duration of Luminosity of Electric Discharge in Gases and Vapours: Hon. R. J. Strutt.—Some Electrical and Chemical Effects of the Explosion of Azoimide: Rev. P. J. Kirkby and J. E. Marsh.—Negative After-images with Pure Spectral Colours: Dr. G. J. Burch.—Factors Affecting the Measurement of Absorption Bands: H. Hartridge.—A New Method of Measuring the Torque produced by a Beam of Light in Oblique Refraction through a Glass Plate: Dr. G. Barlow.—The Positive Ionisation produced by Platinum and by certain Salts when Heated: Dr. F. Horton.—The Refraction and Dispersion of the Halogens, Halogen Acids, Ozone, Steam Oxides of Nitrogen and Ammonia; and the Causes of the Failure of the Additive Law: Clive Cuthbertson and Maude Cuthbertson.—Liquid Measurement by Drops: R. Donald.—The New Theory of Integration: Prof. W. H. Young.

ROYAL INSTITUTION, at 3.—Birds of the Hill Country: Seton Gordon.

LINNEAN SOCIETY, at 8.—A Visit to Madagascar in Search of Subfossil Lemuroids: The Hon. P. Methuen.—Les Caridines des Seychelles, avec des Observations sur leurs Variations: Prof. E. L. Bouvier.—Psychodidz. of the Seychelles: Ephemeridae of the Seychelles: The Rev. A. E. Eaton.—Odonata of the Seychelles: H. Campion.—A New Land Leech from the Seychelles: W. A. Harding.—Some New British Plants: G. C. Druce.

ROYAL Society of Arts, at 4.30.—Agricultural Progress in Western India: G. F. Keatinge.

Seychenes: W. A. Harding.—Some New British Plants: G. C. Druce.
ROYAL SOCIETY OF ARTS, at 4.30.—Agricultural Progress in Western
India: G. F. Keatinge.
INSTITUTION OF MINING AND METALLURGY, at 8.—Specification of a
Precision-Theodolite (for Workings on Lodes of Medium Inclination and
Narrow or Medium Thickness): L. H. Cooke.

FRIDAY, JANUARY 17.

ROYAL INSTITUTION, at 9.—Further Applications of the Method of Positive Rays: Sir J. J. Thomson,
INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Indicators: J. G.

	PAGE
Science and Technology. By G. T. M The Production of Cane Sugar, By C. S Monographs on Biochemistry. By H. E. R	500
The Production of Cane Sugar. By C. S	500
Monographs on Biochemistry, By H. E. R.	510
Books on Forestry and Arboriculture	511
Our Bookshelf	512
Letter to the Editor:-	J
The Influence of Icebergs on the Temperature of the	
Sea. (With Diagram.)—Dr. John Aitken, F.R.S.	513
Amundsen's Antarctic Expedition. (Illustrated.) By	5-3
Dr. Hugh Robert Mill	515
Dr. Hugh Robert Mill Arts and Crafts in the Torres Straits. (Illustrated.)	518
Leon Philippe Teisserenc de Bort. By Dr. W. N.	3.0
Shaw, F.R.S.	519
Notes	520
Our Astronomical Column:—	340
The Attraction of Sun-spots for Prominences	525
The Next Return of Encke's Comet	526
The Magnitude and Colour of Brooks's Comet. 1911	526
Tohn Goodricke	526
"The Companion to the Observatory"	526
John Goodricke	526
The Inheritance of Fecundity in Fowls. By Walter	520
E Collinge	526
Egyptian Soda. By T. M. L.	527
Agriculture in India	528
Natural Science Papers and Memoirs	528
Radiations Old and New. (Illustrated.) By Prof.	320
Radiations Old and New. (Ithistratea.) by 1101.	529
W. H. Bragg, F.R.S	529
Societies and Academies	
Books Received	
Diary of Societies	534
I	

Editorial and Publishing Offices: MACMILLAN & CO., LTD., ST. MARTIN'S STREET, LONDON, W.C.

Advertisements, and business letters to be addressed to the Publishers.

Editorial Communications to the Editor.

Telegraphic Address: Phusis, London. Telephone Number: GERRARD 8830.