

one month to two years. In four cases the clinical diagnosis was confirmed bacteriologically, and in these the course of the treatment and its results are described in detail.—J. Vallot: The existence of dust in the air on the upper glaciers of Mt. Blanc and its effects.

BOOKS RECEIVED.

Die Zelle der Bakterien. By Prof. A. Meyer. Pp. vi+285+plate. (Jena: G. Fischer.) 12 marks.

Das Ostseegebiet. By Dr. G. Braun. Pp. iii+108+map. (Leipzig: B. G. Teubner.) 1.25 marks.

Beiträge zur Naturdenkmalpflege. Edited by H. Conwentz. Dritter Band. Pp. xvi+688. (Berlin: Gebrüder Borntraeger.) 18.75 marks.

The Children's World. By S. Shenessey. Pp. 64. (London: A. and C. Black.) 1s. 6d.

Black's School Geography. Geographical Pictures, Series III.—Sculpture of the Earth's Crust. Packets Nos. 1 and 2. (London: A. and C. Black.) Each 6d.

Studies in Terrestrial Magnetism. By Dr. C. Chree. Pp. xii+206. (London: Macmillan and Co., Ltd.) 5s. net.

Gardening for the Ignorant. By Mrs. C. W. Earle and E. Case. Pp. xxiii+232. (London: Macmillan and Co., Ltd.) 1s. net.

Wissenschaft und Wirklichkeit. By M. Frisch-eisen-Köhler. Pp. viii+478. (Leipzig and Berlin: B. G. Teubner.) 8 marks.

Moths of the Months, and How to Identify Them. By Rev. S. N. Sedgwick. Pp. 60. (London: C. H. Kelly.) 1s. net.

Grunlinien der anorganischen Chemie. By W. Ostwald. Dritte Auflage. Pp. xxii+860. (Leipzig: W. Engelmann.) 18 marks.

Quain's Elements of Anatomy. Eleventh edition. Edited by Profs. Schäfer, Symington, and Bryce. In four volumes. Vol. ii., part i. Microscopic Anatomy. By E. A. Schäfer. Pp. xi+739. (London: Longmans and Co.) 25s. net.

How to Make an Orchard in British Columbia. By J. T. Bealby. Pp. viii+86. (London: A. and C. Black.) 1s. 6d.

DIARY OF SOCIETIES.

THURSDAY, APRIL 11.

MATHEMATICAL SOCIETY, at 5.30.—An Application of the Theory of Integral Equations to the Equation $v^2u + kvu = 0$: H. S. Carslaw.—On Mersenne's Numbers: A. Cunningham.

CONCRETE INSTITUTE, at 8.—The True Bending Moments of Beams with various degrees of Fixity: Maurice Béhar.

FRIDAY, APRIL 12.

ROYAL ASTRONOMICAL SOCIETY, at 5.—(1) Recent Observations of Nova Cygni (1876); (2) Micrometrical Measures and Focal Peculiarities of Nova Lacerte (Espin): E. E. Barnard.—The Planet Jupiter in 1889: A. Stanley Williams.—The Spectrum of the New Star in Gemini, 1912, March: W. E. Curtis.—Definition of Correlation Coefficients: J. C. Kapteyn.—*Probable Papers*: (1) A Proposal for the Comparison of the Stellar Magnitude Scales of the Different Observatories taking part in the Astrogaphic Catalogue. Second Note: The Bordeaux Magnitudes. (2) A Tentative Explanation of the "Two Star Streams" in Terms of Gravitation. Second Note: The Position of the Centre of our System: H. H. Turner.—Nova Geminorum, Positions for 1900.0 of Ninety-five Stars surrounding it: F. A. Bellamy.—Photographs of the Spectrum of Nova Geminorum No. 2: Cambridge Observatory.

MALACOLOGICAL SOCIETY, at 8.—The Genus *Dosinia* and its Subdivisions: A. J. Jukes-Browne, F.R.S.—On the Generic Name to be applied to the *Venus islandica*, Linn.: E. A. Smith.—Note on *Lapparia Parkii*: H. Suter.—Characters of Three New Species of Fresh-water Shells from Uruguay; New Species of Limicola from British East Africa: H. B. Preston.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Exminster Sewage-disposal Works: H. G. Hoskings.

MONDAY, APRIL 15.

VICTORIA INSTITUTE, at 4.30.—Directivity of Life as seen in the Structure of Plants and Animals: Prof. G. Henslow.

NO. 2215, VOL. 89]

TUESDAY, APRIL 16.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Remodelling and Equipment of Madras Harbour: Sir Francis J. E. Spring, K.C.I.E.—The Alteration in the Form of Madras Harbour: Fr. H. G. Mitchell.

ILLUMINATING ENGINEERING SOCIETY, at 8.—Lighting of Private Houses by Gas and Electricity: W. H. Y. Webber and W. R. Rawlings.

WEDNESDAY, APRIL 17.

ROYAL SOCIETY OF ARTS, at 8.—Municipal Chemistry: J. H. Coste.

GEOLOGICAL SOCIETY, at 8.—The Pre-Cambrian and Cambrian Rocks of Brawdy, Hayscastle, and Brimston (Pembrokeshire): H. H. Thomas and Prof. O. T. Jones.—The Geological Structure of Central Wales and the Adjoining Region: Prof. O. T. Jones.

ROYAL METEOROLOGICAL SOCIETY, at 7.30.—Report on the Phenological Observations for 1911: J. E. Clark and R. H. Hooker.—A Method of Summarising Anemograms: R. G. K. Lemfert and W. Braby.

ROYAL MICROSCOPICAL SOCIETY, at 8.—Note on the Life-history of a Marine Diatom from Bournemouth: J. D. Siddall.—A modified form of the Lever Fine-Adjustment, and a Simple Turn-out Device for the Substage Condenser: E. B. Stringer.

THURSDAY, APRIL 18.

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

LINNEAN SOCIETY, at 8.—*Botrychioxylon paradoxum*, a Palaeozoic fern with secondary wood: Dr. D. H. Scott, F.R.S.—On *Psymnophyllum majus*, sp. nova, from the Lower Carboniferous rocks of Newfoundland, together with a revision of the genus, and remarks on its affinities: Dr. E. A. Newell Arber.—The Alpine Flora of the Canadian Rocky Mountains: Mrs. Henshaw.

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

INSTITUTION OF MINING AND METALLURGY, at 8.

FRIDAY, APRIL 19.

ROYAL INSTITUTION, at 6.—Electricity Supply: Past, Present, and Future: A. A. Campbell Swinton.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Tenth Report to the Alloys Research Committee on the Alloys of Aluminium and Zinc: Dr. W. Rosenhain and S. L. Archbutt.

CONTENTS.

PAGE

Krümmel's Handbook of Oceanography	133
The Insurance Act, 1911	133
Jaekel's Classification of Vertebrates. By R. L.	134
The Production of Wheat. By A. D. H.	135
Actual Electrochemistry. By J. Swinburne, F.R.S.	136
A Treatise on Cholera. By R. T. H.	136
Our Bookshelf	137
Letters to the Editor:—	
Skull of a Neanderthal Type in the Cambridge Fens.	
Prof. A. Keith	138
Are Eyes Autophanous?—K. H. Barnard	138
Centre of Pressure on Triangular Plane Gliders at Small Angles of Incidence. (<i>With Diagram</i>).—Prof. Herbert Chatley	138
Red Water.—H. Warth	138
Siam. (<i>Illustrated</i>).	138
The Smoke Problem. (<i>Illustrated</i>).	139
The British Antarctic Expedition	141
Notes	142
Our Astronomical Column:—	
The Eclipse of April 17	147
The El Nakhla el Baharia Meteorite	147
A Daylight Meteor	147
The Stonyhurst Observatory	147
Photographs of Halley's Comet	147
Cycles of the Sun and Weather. By Prof. R. A. Gregory	147
The Etnean Eruption of September, 1911. By C. D. Water Resources of the United States	150
The Port Erin Biological Station	150
Heat-Waves in Asia: Sunshine at Trieste. By Dr. E. Gold	151
The Total Eclipse of the Sun, 1911, as Observed at Vavau, Tonga Islands. (<i>Illustrated</i>). By Dr. William J. S. Lockyer	151
The Relationship of Neanderthal Man and Pithecanthropus to Modern Man. By Prof. Arthur Keith	155
University and Educational Intelligence	156
Societies and Academies	156
Books Received	158
Diary of Societies	158