

Die neuen Vererbungsgesetze. By Prof. C. Correns. Pp. viii+75. (Berlin: Gebrüder Borntraeger.) 2 marks.

Experimental Domestic Science. By R. H. Jones. Pp. ix+235. (London: W. Heinemann.) 2s. 6d.

Matter and Energy. By F. Soddy. Pp. 256. (London: Williams and Norgate.) 1s. net.

Ueber Vererbung und Rassenhygiene. By Prof. H. Bayer. Pp. iv+50+5 plates. (Jena: G. Fischer.) 2 marks.

Trattato di Chimica Organica Generale e Applicata all' Industria. By Prof. E. Molinari. Seconda Edizione. Pp. xxiv+1087. (Milano: U. Hoepli.) 18 lire.

Modern Science and the Illusions of Prof. Bergson. By the Hon. S. R. Elliot. Pp. xix+257. (London: Longmans and Co.) 5s. net.

Cocoa: its Cultivation and Preparation. By W. H. Johnson. Pp. ix+186. (London: J. Murray.) 5s. net.

The National Physical Laboratory. Collected Researches. Vol. viii., 1912. Pp. iv+251+plates. (Teddington: The National Physical Laboratory.)

The National Physical Laboratory. Report for the Year 1911. Pp. 103+plates. (Teddington: The National Physical Laboratory.)

For and Against Experiments on Animals. By S. Paget. (London: H. K. Lewis.) 3s. 6d. net.

Handbuch der Pharmakognosie. By A. Tschirch. Lief. 29 and 30. Pp. 641-775+xi. (Leipzig: C. H. Tauchnitz.) Each 2 marks.

DIARY OF SOCIETIES.

THURSDAY, MAY 2.

ROYAL SOCIETY, at 4.—Election of Fellows.—At 4.30.—Petrifications of the Earliest European Angiosperms: Dr. 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 Palæozoic seed *Lagenostoma ovoides*, Will: Miss T. L. Prankerd.—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. Wallis.—*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.

GEOLOGISTS' ASSOCIATION, at 8.—The Geology of Sunderland and District with special reference to the Whitsundale Excursion: Dr. D. Woolacott.

MONDAY, MAY 6.

SOCIETY OF ENGINEERS, at 7.30.—The Effect of Intermittency in Limiting Electric Traction for City and Suburban Passenger Transport: W. Yorath Lewis.

ARISTOTELIAN SOCIETY, at 8.—Imagery and Memory: Beatrice Edgell.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—United Nigeria: C. L. Temple, C.M.G.

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

VICTORIA INSTITUTE, at 4.30.—International Arbitration in the Greek World: Marcus N. Tod.

SOCIETY OF CHEMICAL INDUSTRY, at 8.—A New Apparatus for the Coking Tests of Coal: R. Lessing.—A New Method for the Determination of Ferrocyanides: H. E. Williams.—A Drying Oven: J. H. Coste.—India Rubber as a Protective Colloid: E. W. Lewis and H. Waumsley.

TUESDAY, MAY 7.

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

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—Geographical Distribution of Certain Primitive Appliances: H. Balfour.

ZOOLOGICAL SOCIETY, at 8.30.—Lantern and Kinematograph Demonstrations of Photographs of Fishes and Aquatic Animals in Natural Illumination: Dr. Francis Ward.—On a Collection of Fishes made by Mr. A. Blayney Percival in British East Africa to the East of Lake Baringo: G. A. Boulenger, F.R.S.—Studies in the Fossorial Wasps of the Family Scoliidæ, Sub-families Eloidinæ and Anthoboscinae: Rowland E. Turner.—Notes on the Spanish Ibex: Abel Chapman.

RÖNTGEN SOCIETY, at 8.15.—The Education of the Brain, considered as an Electrical Machine: W. Deane Butcher.

ROYAL SOCIETY OF ARTS, at 4.30.—Colonial Vine Culture: Alan Burgoyne, M.P.

WEDNESDAY, MAY 8.

ROYAL SOCIETY OF ARTS, at 8.—British Rule in Nigeria: E. D. Morel.

THURSDAY, MAY 9.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: On the Variation with Temperature of the Rate of a Chemical Change, with an Appendix by Prof. W. Esson, F.R.S.: Dr. A. Vernon Harcourt, F.R.S.—Some Phenomena of Sun-spots, and of Terrestrial Magnetism: Dr. C. Chree, F.R.S.—On the Ultimate Lines and the Quantities of the Elements producing the Lines in Spectra of the Oxyhydrigen Flame and Spark: Sir W. N. Hartley, F.R.S., and H. W. Moss. The Transformations of the Active Deposit of Thorium: E. Marsden and C. G. Darwin.—On the β Particles Reflected by Sheets of Matter of Different Thicknesses: W. Wilson.

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

INSTITUTION OF ELECTRICAL ENGINEERS, at 7.30.—The Behaviour of D.C. Watt-hour Meters, more especially for Traction Loads: S. W. Melsom and H. Eastland.—Electric Meters on Variable Loads: Prof. D. Robertson.

FRIDAY, MAY 10.

ROYAL INSTITUTION, at 9.—The Gaumont Speaking Kinematograph Films: Prof. W. Stirling.

ROYAL ASTRONOMICAL SOCIETY, at 5.

MALACOLOGICAL SOCIETY, at 8.—A Synopsis of the Recent and Tertiary Fresh-water Mollusca of the Californian Province: Harold Hannibal.—On *Dosinia lucinalis*, Lam., and its Synonyms: A. J. Jukes-Browne, F.R.S.

—New Generic Names and New Species of Marine Mollusca: T. Iredale.

PHYSICAL SOCIETY, at 8.—A Method of Measuring Small Inductances: S. Butterworth.—The Conversion of Starch into Dextrin by X-Rays: H. A. Colwell and Dr. S. Russ.—Demons ration of Apparatus for showing the Generation of Electricity by Carbon at High Temperatures: Dr. J. A. Harker and Dr. G. W. C. Kaye.—Calibration of Wave-meters for Radiotelegraphy: Prof. G. W. O. Howe.

INSTITUTE OF METALS, at 8.30.—The Inner Structure of Simple Metals: Sir J. A. Ewing, K.C.B., F.R.S.

CONTENTS.

PAGE

Chemical Spectroscopy. By Prof. E. C. C. Baly, F.R.S.	211
The Constitution of the Silicates. By Dr. C. H. Desch	212
British Vegetation. By A. D. C.	212
Recent Botanical Publications	213
Our Bookshelf	214
Letters to the Editor:—	
Burdon Sanderson and Vitalism.—Dr. J. S. Haldane, F.R.S.	215
A Peculiarity in the Shadows Observed during a Partial Eclipse of the Sun.—Edwin Edser	216
Halo during the Solar Eclipse of April 17.—Dr. Marie C. Stopes	217
The Smoke Problem.—Prof. J. B. Cohen, F.R.S.; The Reviewer	217
Remains of Prehistoric Horse in the Stort Basin.—Rev. Dr. A. Irving	218
An Anode Dark Space in the Discharge in Oxygen.—F. W. Aston	218
May Meteor-showers.—John R. Henry	218
The Solar Eclipse of April 17. (<i>Illustrated.</i>) By Dr. William J. S. Lockyer	219
Colonial Surveys. By H. G. L.	222
Notes	223
Our Astronomical Column:—	
Astronomical Occurrences for May	227
Cometary Spectra. (<i>Illustrated.</i>)	227
The Spiral Nebulæ	228
Leeds University: New Textile Extension	228
Memoirs of the Geological Survey. By G. A. J. C.	229
Discussions of Climatology	230
Bird Notes. By R. L.	231
University and Educational Intelligence	232
Societies and Academies	233
Books Received	235
Diary of Societies	236

SUPPLEMENT.

Human Geography	iii
Chemistry in its Relation to Manufacture. By G. T. M.	iv
Flowers and their Insect Guests	v
Cosmogonies, Old and New	vi
Tannins, Dyes, and Colours. By C. S.	vii
Cytological Problems. By J. B. F.	viii
An American Manual of Farm Livestock. By Dr. Francis H. A. Marshall	ix
Technology and Literature. By R. S. B.	x