

hæmoglobins, chlorophyll, and neodymium chloride.—**A. Colson**: Reduction of cryoscopy to the general laws of solubility.—**A. Noyes**: The counter e.m.f. of polarisation in sulphuric acid. The counter e.m.f. of a solution of sulphuric acid at first diminishes with the temperature, proportionally to the reciprocal of the absolute temperature. From 60° to 120° C. the fall is more rapid, and above 120° it scarcely varies at all. The change may be attributed to a difference in the mode of ionisation.—**G. Langlois**: A new synthesis of benzylidene-acetone. Cinnamene is condensed with acetyl chloride in presence of diethyl-aniline. The product was characterised as benzylidene-acetone by its oxidation products, formation of dibromide and semicarbazone, and by elementary analysis.—**J. Guyot** and **L. J. Simon**: The action of heat on the methylsulphates of the alkalis and alkaline earths. At 220°–280° C. sodium and potassium methylsulphates give methyl ether and a pyrosulphate, some methylsulphate being formed as a by-product. With barium and calcium methylsulphates methyl sulphate is the main product of the reaction, with minimal proportions of methyl ether.—**P. Pelseneer**: Production of hybrids in molluscs.—**L. Roule**: The first phases of embryonic development in *Palemon serratus*. Criticism of a recent communication to the *Comptes rendus* by M. E. Sollaud on the development of *Leander-Palemon squilla*.—**C. Vanev** and **A. Allemand-Martin**: The action of *Hippospongia equina* of the coasts of Tunis on the *Posidonia*.—**H. Coutière**: The morphology of the limb of the Crustacea.—**E. Fernández-Galiano**: The conjunctive tissue of the heart of the snail.—**C. Gessard**: An achromogenic variety of the pyocyanic bacillus. This new type gives pyocyanine on glycerine gelose-peptone, but gives no pigment when cultivated in aqueous peptone. **M. Ménard** and **C. Delval**: The action of the X-rays on fibro-myomas of the uterus in woman.—**A. Robin**: The hydration, soluble residue, and insoluble residue in cancer of the liver. A new theory on the genesis of cancer.

BOOKS RECEIVED.

An Introduction to the Study of Science. By W. P. Smith and E. G. Jewett. Pp. xi+620. (New York: The Macmillan Co.; London: Macmillan and Co., Ltd.) 7s. 6d. net.

The Foundations of Geography in the Twentieth Century. By F. Schrader. (Herbertson Memorial Lecture, 1919.) Pp. 26. (Oxford: At the Clarendon Press.) 2s. 6d. net.

The Analysis of Minerals and Ores of the Rarer Elements. By Dr. W. R. Schoeller and A. R. Powell. Pp. x+239. (London: C. Griffin and Co., Ltd.) 16s. net.

A Handbook of Medical Jurisprudence and Toxicology. By Dr. A. Brend. Pp. xiii+317. (London: C. Griffin and Co., Ltd.) 10s. 6d. net.

An Arithmetic for Preparatory Schools, with Answers. By T. Dennis. Second edition. Pp. xiv+376. (London: G. Bell and Sons, Ltd.) 4s. 6d.

Differential Calculus for Colleges and Secondary Schools. By Dr. C. Davison. Pp. viii+309. (London: G. Bell and Sons, Ltd.) 6s.

DIARY OF SOCIETIES.

THURSDAY, JUNE 19.

INSTITUTION OF MINING ENGINEERS, at 11.—Lt.-Col. D. Dale Logan: (a) The Difficulties and Dangers of Mine-rescue Work on the Western Front, and Mining Operations carried out by Men wearing Rescue-apparatus; (b) Accidents due to Structural Defects of Apparatus or Injury to Apparatus, and the Future of the Proto Apparatus.—M. W. Blyth and L. T. O'Shea: The Examination of Coal in Relation to Coal-washing.—Prof. F. W. Hardwick: Reply to the Discussion on his Paper on the Training of Students in Coal-mining, with Special

Reference to the Scheme of the Engineering Training Organisation.—W. Maurice: The Education of Colliery Managers for Administrative and Social Responsibilities.
ROYAL SOCIETY, at 4.30.—Bakerian Lecture. Hon. R. J. Strutt: A Study of the Line Spectrum of Sodium as Excited by Fluorescence.
LUNNEAN SOCIETY, at 5.—T. A. Dymes: Notes on the Life-history of the Yellow Flag, *Iris pseudacorus*, Linn., with Special Reference to the Seeds and Seedlings during their First Year.—Dr. G. H. Rodman: Egg-case of a Spider from the South of France—*Cyrtarachne tuberculifera*.—S. L. Moore: A Contribution to the Flora of Australia.—A. W. Waters: Observations on Certain Species of Bryozoa, chiefly belonging to the Selenariadae, Conescharellinidae, etc.—Dr. E. Penard: Studies on some Flagellata.—Dr. W. M. Tattersall: Report on the Stomatopoda and Macrurus Decapoda Collected by Mr. Cyril Crossland in the Sudanese Red Sea.
INSTITUTION OF MINING AND METALLURGY, at 5.30.—W. H. Goodchild: The Genesis of Igneous Ore Deposits.
CHEMICAL SOCIETY, at 8.

WEDNESDAY, JUNE 25.

GEOLOGICAL SOCIETY, at 5.30.—A. E. Kitson: Outlines of the Geology of Southern Nigeria (British West Africa), with Especial Reference to the Tertiary Deposits.—Prof. J. B. Harrison and C. B. W. Anderson: Notes on the Extraneous Minerals in the Coral-Limestones of Barbados.

THURSDAY, JUNE 26.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Dr. A. E. H. Tutton: Monoclinic Double Selenates of the Cobalt Group.—Bertha Ayrton: A New Method of Driving off Poisonous Gases.—Dr. F. W. Aston: Experiments with Perforated Electrodes on the Nature of the Discharge in Gases at Low Pressure.—Mary Seegar and Prof. Karl Pearson: De Saint-Venant Solution for the Flexure of Cantilevers of Cross-section in the Form of Complete and Curved Circular Sectors; and on the Influence of the Manner of Fixing the Built-in End of the Cantilever on its Deflection.—Dr. H. Jeffreys: The Relation between Wind and the Distribution of Pressure.

FRIDAY, JUNE 27.

PHYSICAL SOCIETY, at 5.—Prof. C. L. Fortescue: The Current-Voltage Characteristics of High-Voltage Thermionic Rectifiers.—Prof. Ernest Wilson: The Measurement of Small Susceptibilities by a Portable Instrument.

CONTENTS.

PAGE

Text-books of Botany	301
Optics and Mechanics. By Dr. H. S. Allen	302
Secret or Mystery?	303
Our Bookshelf	303
Letters to the Editor:—	
Wireless Telephony.—A. A. Campbell Swinton, F.R.S.	304
Camouflage of Ships of War.—Lt.-Comdr. Norman Wilkinson	304
Question Relating to Prime Numbers. (<i>With Diagram</i> .)—A. Mallock, F.R.S.	305
The Atlantic Flight	306
British Petroleum	306
Father Walter Sidgreaves, S.J.	307
Notes	308
Our Astronomical Column:—	
The Solar Eclipse of May 29	311
The Astrographic Catalogue	312
The British Science Guild	312
Imperial Education Conference	313
The Royal Observatory, Greenwich	313
The South-Eastern Union of Scientific Societies	314
The Texture of Sands. (<i>Illustrated</i> .) By P. G. H. B.	315
The American Philosophical Society	317
University and Educational Intelligence	317
Societies and Academies	319
Books Received	320
Diary of Societies	320

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