

Weiss.—A. Liénard: Electromagnetic energy and thermodynamic potential of a system of currents.—A. Portevin and J. Durand: Anomaly of expansion of the gold-copper alloys.—L. Forsén: The constitution of the derivatives of molybdic acid.—J. Martinet and O. Dornier: Isatin 5-sulphonic acid. Isatin has not hitherto been directly sulphonated. Details are given for the preparation of isatin 5-sulphonic acid from isatin and fuming sulphuric acid, and some of its salts are described.—H. Bouygues: Considerations on the endoderm.—M. and Mme. G. Villedieu: The non-toxicity of copper for mildew. The results of experiments on *Phytophthora infestans* (the mildew of potato), controverting the usually accepted view that it is the copper in anticryptogamic mixtures which is efficacious in destroying mildew.—W. Kopaczewski: The rôle of surface tension in the phenomena of shock. The surface tension of serum is reduced by the addition of a solution of sodium hyposulphite. The author attributes the suppression of the anaphylactic shock by sodium hyposulphite solutions to this change in surface tension, and not to the effect of this salt in dispersing flocculated serum.—A. Trillat: The influence of the state of division of droplets containing bacteria on the infection of culture media.—MM. Desgrez, Guillemard, and Labat: The use of the alkaline polysulphides for the neutralisation of certain toxic gases. Spraying with a sodium polysulphide soap solution, originally suggested for the removal of chloropicrin vapour from air, has been found to be also efficacious in removing other toxic gases. Figures are given for the amounts required to remove chlorine, phosgene, acrolein, bromoacetone, and other noxious vapours.

### Books Received.

The Government of the Philippine Islands. Philippine Census, A.D. 1918. Manila: The Climate and Weather of the Philippines, 1903 to 1918. By the Rev. J. Coronas. Pp. 195. (Manila: Bureau of Printing.)

What to Read on Social and Economic Subjects. A Select Bibliography Compiled by the Fabian Society. Sixth edition. Pp. xii+80. (London: The Fabian Society; G. Allen and Unwin, Ltd.) 2s. net.

The Boy in Industry and Leisure. By the Rev. R. R. Hyde. (Social Service Library.) Pp. xxviii+281. (London: G. Bell and Sons, Ltd.) 6s. net.

Small Single Phase Transformers. By E. T. Painton. Pp. x+95. (London: Sir I. Pitman and Sons, Ltd.) 2s. 6d. net.

Elementary Principles of Continuous-Current Armature Winding. By F. M. Denton. Pp. x+102. (London: Sir I. Pitman and Sons, Ltd.) 2s. 6d. net.

A Guide to the Preparation of a Note-Book of Biology. By E. W. Shann. Pp. 48. (London: G. Bell and Sons, Ltd.) 2s. 6d. net.

Mitteilungen der Naturforschenden Gesellschaft in Bern aus dem Jahre 1919. Pp. lxxv+231+v Tafel. (Bern: K. J. Wyss Erben.)

The Breeding and Feeding of Farm Stock. By J. Wilson. Pp. vii+152. (London: Methuen and Co., Ltd.) 6s. net.

A Book of Butter: A Text on the Nature, Manufacture, and Marketing of the Product. By Prof. E. S. Guthrie. Pp. xv+270. (New York: The Macmillan Co.; London: Macmillan and Co., Ltd.) 12s. net.

Report of the Indian Association for the Cultivation of Science and Proceedings of the Science Convention for the Year 1918. Pp. iii+199+xxxii+plates. (Calcutta.)

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Economic Mineralogy: A Practical Guide to the Study of Useful Minerals. By T. Crook. Pp. xi+492. (London: Longmans, Green and Co.) 25s. net.

Insect Life. By C. A. Ealand. Pp. xii+340+lxixv plates. (London: A. and C. Black, Ltd.) 30s. net.

In Farthest Burma: The Record of an Arduous Journey of Exploration and Research through the Unknown Frontier Territory of Burma and Tibet. By Capt. F. K. Ward. Pp. 311. (London: Seeley, Service and Co., Ltd.) 25s. net.

The Subject Index to Periodicals, 1917-19. B-E: Historical, Political, and Economic Sciences. Pp. 248. (London: The Library Association.) 21s. net.

Transactions of the Norfolk and Norwich Naturalists' Society. Presented to Members for 1919-20. Vol. xi., part 1, December. Pp. xiii+101. (Norwich.) 7s. 6d.

Annuaire Astronomique et Météorologique pour 1921. 57 Année. By C. Flammarion. Pp. 251. (Paris: E. Flammarion.) 8 francs.

Department of Applied Statistics (Computing Section), University of London, University College. Tracts for Computers. Edited by Karl Pearson. No. iv.: Tables of the Logarithms of the Complete  $\gamma$ -function to Twelve Figures. Originally computed by A. M. Legendre. Pp. 4+10. (London: Cambridge University Press.) 3s. 9d. net.

The National Physical Laboratory. Collected Researches. Vol. xv., 1920. Pp. iv+329+plates. (London: H.M. Stationery Office.) 20s. net.

### Diary of Societies.

THURSDAY, MARCH 3.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—F. Balfour Browne: Mason Wasps.

ROYAL SOCIETY, at 4.30.—Discussion on Isotopes to be opened by Sir J. J. Thomson, followed probably by Dr. F. W. Aston, Prof. F. Soddy, Prof. T. R. Merton, and Prof. F. A. Lindemann.

ROYAL AERONAUTICAL SOCIETY (at Royal Society of Arts), at 5.—J. W. W. Dyer: Airship Fabrics.—Major T. Orde Lees: Parachutes.

LINNEAN SOCIETY, at 5.—R. T. Günther: A Manuscript of Matthias de Lobel, from the Library of Magdalen College, Oxford.—Dr. B. Daydon Jackson: Naturalists and their Indebtedness to the National Trust.

ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.—Dr. G. Graham: Glycemia and Glycosuria (Goulstonian Lecture).

CHILD-STUDY SOCIETY (at Royal Sanitary Institute), at 6.—Miss M. G. Buysman: The Value of the Drama in the Training of the Child's Emotions.

CHEMICAL SOCIETY, at 8.—C. K. Ingold and J. F. Thorpe: The Chemistry of the Glutaconic Acids. Part XII. The Simultaneous Occurrence of 1:2 and of 1:3-Addition to Glutaconic Ester. A Study in Mobile Equilibrium involving the Utilisation of the Labile Ester in the "Nascent" Condition.—E. O. C. Baly and W. F. Barker: The Photochemical Reaction between Hydrogen and Chlorine, and its Variation with the Intensity of the Light.—J. Kenner and W. V. Stubbings: A Second Form of 6:6'-Dinitrodiphenic Acid and its Conversion into New Cyclic Systems.—J. Moir: The Calculation of the Colour of Monocyclic Coloured Substances.—N. V. Sidgwick and E. K. Ewbank: The Stability of Tautomeric Formaldehydrazones.—F. W. Atack and L. Whinyates: The Structural Isomerism of Oximes. Part III. A Fourth Benzil-dioxime.

ROYAL SOCIETY OF MEDICINE (Obstetrics and Gynaecology Section), at 8.—Dr. G. Evans: A Study of the Condition of the Arteries in a Uterus Removed 24 Days after Delivery.—Dr. A. Bourne: Puerperal Salpingo-peritonitis.

FRIDAY, MARCH 4.

ROYAL SOCIETY OF MEDICINE (Laryngology Section), at 4.

ROYAL SOCIETY OF ARTS (Indian Section), at 4.30.

ROYAL ASTRONOMICAL SOCIETY (Geophysical Discussion), at 5.—Problems of Seismology: opened by Prof. H. Lamb, followed by Dr. G. W. Walker, R. D. Oldham, and J. J. Shaw. Chairman: Prof. H. H. Turner.

INSTITUTION OF MECHANICAL ENGINEERS AND THE SOCIETY OF CHEMICAL INDUSTRY (Joint Meeting), at 6.—P. Kestner: Degassing and Purification of Boiler Feed-Water.

INSTITUTION OF ELECTRICAL ENGINEERS (Students' Meeting) (at Faraday House), at 6.30.—A. Rosen: Telephone Transmission through Submarine Cables.

JUNIOR INSTITUTION OF ENGINEERS (at Caxton Hall), at 8.—W. H. Simmons: Manufacture of Gun-cotton.