

phenomenon appears to be general and the presence of pyrites is not indispensable, similar effects being traced to the presence of galena, mispickel, sulphides of copper, pyrolusite, and other minerals. The effect can be reproduced in the laboratory.—Paul Guérin: The mucilage of the Urticaceæ. Mucilage is widely distributed in this order, and its presence in the various organs of these plants constitutes a character of real value, and should be taken into account along with other anatomical peculiarities.—H. Jumelle: The Neophloga, Madagascan palm trees.—A. Guilliermond and G. Mangenot: The signification of Holmgren's canals.—Eugène Bonnet: The action of soluble salts of lead on plants. The plants studied included wheat, peas, and beans, and the lead solution surrounding the rootlet between one-thousandth normal and half that amount of lead. Lead arrests the growth of the stem and diminishes the length of the roots.—Gabriel Bertrand and Mme. M. Rosenblatt: The variations in the proportions of manganese in leaves with age.—Gustave Rivière and Georges Pichard: The partial sterilisation of the soil. Experiments on the use of sodium arsenate for the partial sterilisation of the soil. Used in the proportion of between 21 and 42 kilograms per hectare the protozoa are destroyed and the useful bacteria multiply. This indirect fertilising action is shown by increased yields, which on the large scale have been shown to be 20 per cent. to 50 per cent.—Auguste Lumière and Henri Couturier: The resistance of females during pregnancy to anaphylactic and anaphylactoid shock. Female guinea-pigs during pregnancy are immune from shock caused either by the injection of serum or of flocculent inert material. The cause of the immunity has been traced to the increase in the volume of the blood: the immunity could be destroyed in females by bleeding and conferred on males by injecting physiological serum.—M. Champy: The conditions of the genesis of the sexual harmonie in Batrachians.—Henri Jean Frossard: Respiratory gymnastics and the tests of Valsalva and of Muller.—Foveau de Courmelles: Combined radiotherapy of the breast and the ovaries against tumours of the breast.

Official Publications Received.

Meddelanden från Statens Skogsförsöksanstalt. Hälften 18, Nr. 4: Stamforms-Undersökningar en Sammanfattande Analys av Norr-ländskt Tallmaterial med Avseende på de Faktorer som Bestämna Noggrannheten vid Apterung på Rot. (Stem Form Investigations: Accuracy of Yield Estimation of Standing Trees.) By Sven Petrin. Pp. 165-220. Hälften 18, Nr. 5: Till Kännedomen om Förhållandet mellan Solbladens och Skuggbladens Kolhydratproduktion. By M. G. Stålfelt. Pp. 221-280. Hälften 18, Nr. 6-9: Skogsinsekternas Skadegörelse under 1918, die Beschädigungen der Forstsektion im Jahre 1918. By Ivar Trägårdh. Bidrag till Kännedomen om Splintborrarnas Näringsnag: Beitrag zur Kenntnis des Ernährungsfrasses bei den europäischen Splintkäfern. By Paul Spessivtseff. Årsberättelser 1920. Årsberättelser 1921. Pp. 281-352. (Stockholm.)

I.—1922. Ceylon. Report of the Industries Commission. Pp. 91. (Colombo: Government Record Office.) 2.75 rupees.

Nigeria. Annual Report on the Forest Administration for the Year 1920 and period 1st January to 31st March 1921. Pp. 24. (Ibadan: Forestry Department.)

Bulletin of the American Museum of Natural History. Vol. 45. I.: On the Distribution of the Ants of the Ethiopian and Malagasy Regions. By Wm. M. Wheeler. II.: The Ants collected by the American Museum Congo Expedition. By Wm. M. Wheeler. Pp. 13-269+plates 2-23. (New York.)

U.S. Department of Agriculture: Bureau of Biological Survey. North American Fauna, No. 45: A Biological Survey of Alabama. By Arthur H. Howell. 1: Physiography and Life Zones. 2: The Mammals. Pp. 88+11 plates. (Washington: Government Printing Office.)

The Carnegie Foundation for the Advancement of Teaching. Sixteenth Annual Report of the President and of the Treasurer. Pp. vi+205. (New York City.)

Hydro-Electric Survey of India. Vol. 3: Triennial Report, with a Preliminary Forecast of the Water Power Resources of India, 1919 to 1921. By J. W. Meares. Pp. ix+199. (Calcutta: Government Printing Office.) 4 rupees.

Ministry of Agriculture, Egypt. Report on the Motor Tractor Trials organized by the Ministry of Agriculture. Part A: At Kafr Bata—December 1920. Part B: At Damanhur—April 1921. Pp. iv+55+plates. (Cairo: Government Press.) P.T. 15.

Department of Agriculture, Mysore. Mysore Agricultural Calendar 1922. Pp. iii+56. (Bangalore: Government Press.) 1 anna.

Imperial Department of Agriculture for the West Indies. Report on the Agricultural Department, St. Lucia, 1920. Pp. iv+28. (Barbados.) 6d.

Trinidad and Tobago. Council Paper No. 100 of 1921. Department of Agriculture. Administration Reports of the Director of Agriculture for the Years 1919 and 1920. Pp. 84. (Port of Spain: Government Printing Office.) 2s. 3d.

Department of the Interior: Bureau of Education. Bulletin, 1920, No. 39: Facilities for Foreign Students in American Colleges and Universities. By Samuel P. Capen. Pp. 269. (Washington: Government Printing Office.)

Department of the Interior: U.S. Geological Survey. Water-Supply Paper 459: Surface Water Supply of the United States, 1917. Part IX.: Colorado River Basin. Pp. 192+xxxiii. Water-Supply Paper 460: Surface Water Supply of the United States, 1917. Part X.: The Great Basin. Pp. 277+xl. Water-Supply Paper 475: Surface Water Supply of the United States, 1918. Part V.: Hudson Bay and Upper Mississippi River Basins. Pp. 153+xxx. (Washington: Government Printing Office.)

Annual Report of the Board of Regents of the Smithsonian Institution, showing the Operations, Expenditures, and Condition of the Institution for the Year ending June 30, 1919. (Publication 2590.) Pp. xii+557. (Washington.)

Diary of Societies.

FRIDAY, MARCH 10.

ROYAL ASTRONOMICAL SOCIETY, at 5.

PHYSICAL SOCIETY OF LONDON (at Imperial College of Science and Technology), at 5.—R. L. Smith-Rose: The Electromagnetic Screening of a Triode Oscillator.—Dr. H. P. Waran: A New Form of High Vacuum Automatic Mercury Pump.—W. N. Bond: Viscosity Determination by means of Orifices and Short Tubes.

MALACOLOGICAL SOCIETY OF LONDON (at Linnean Society).

ROYAL SOCIETY OF MEDICINE (Clinical Section), at 5.30.—Prof. H. Maclean and Dr. I. Jones: Some Observations on the Production of Lactic Acid in Stomach Diseases.

JUNIOR INSTITUTION OF ENGINEERS, at 8.—C. H. Plant: Friction.

ROYAL SOCIETY OF MEDICINE (Ophthalmology Section), at 8.30.—P. G. Doyne: Coloured Vision.—R. A. Greeves: A Series of Sympathising Eyes examined Microscopically.

ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Prof. T. R. Merton: Problems in the Variability of Spectra.

SATURDAY, MARCH 11.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir Ernest Rutherford: Radioactivity (2).

MONDAY, MARCH 13.

ROYAL GEOGRAPHICAL SOCIETY (at Lowther Lodge, Kensington Gore, S.W.7), at 5.—C. C. Fagg: A Description of the Regional Survey of the Croydon Natural History and Scientific Society.

ROYAL SOCIETY OF MEDICINE (War Section), at 5.30.—Squadron Leader H. E. Whittingham: Observations on Sandfly Fever in Malta.

INSTITUTE OF TRANSPORT (at Institution of Civil Engineers), at 5.30.—T. R. Johnson: Railway Problems in China and Australia.

MEDICAL SOCIETY OF LONDON (at 11 Chandos Street, W.1), at 8.—Dr. E. W. Goodall: The Differential Diagnosis of the Common Exanthemata.

TUESDAY, MARCH 14.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir Arthur Keith: Anthropological Problems of the British Empire. Series I. Racial Problems in Asia and Australasia (4).

ROYAL SOCIETY OF MEDICINE (Therapeutics and Pharmacology Section) (at University College), at 4.30.

EUGENICS EDUCATION SOCIETY (at Royal Society), at 5.—H. Cox: The Reduction of the Birth Rate as a Necessary Instrument for the Improvement of the Race.

ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.—Dr. M. Greenwood: The Influence of Industrial Employment on General Health (Milroy Lectures) (2).

ROYAL SANITARY INSTITUTE (90 Buckingham Palace Road, S.W.1), at 5.30.—A. H. Barker, and others: Central Heating in Relation to Domestic and other Buildings.

WOMEN'S ENGINEERING SOCIETY (at 26 George Street, W.1), at 6.15.—F. S. Button: Women's Place in Industry.

INSTITUTION OF PETROLEUM TECHNOLOGISTS (at Royal Society of Arts), at 6.30.—Prof. J. S. S. Brame: Presidential Address.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—Annual General Meeting.

QUEKETT MICROSCOPICAL CLUB, at 7.30.—B. S. Curwen: Mounting in Glycerine with Wax Seals, with Special Reference to Entomostraca.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—J. P. Mills: The Lhota Nagas.

ROYAL SOCIETY OF MEDICINE (Psychiatry Section), at 8.30.—Adjourned Discussion on the Ideal Clinic for Nervous and Borderland Cases.

WEDNESDAY, MARCH 15.

ROYAL SOCIETY OF MEDICINE (History of Medicine Section), at 5.—F. Romer: A Short History of Bonesetting.

INSTITUTION OF CIVIL ENGINEERS (Students' Meeting), at 6.—G. FitzGibbon: The Great Ship-Canals of the World (Vernon Harcourt Lectures) (1).

ROYAL METEOROLOGICAL SOCIETY, at 7.30.—Dr. E. M. Wedderburn: Seiches; and the effect of Wind and Atmospheric Pressure on Inland Lakes.