

Botanical Survey of South Africa. Memoir No. 6: A Preliminary Check List of Plant Diseases occurring in South Africa. Compiled by Dr. E. M. Doidge. Pp. 56. (Pretoria: Agricultural Department.)

U.S. Department of Agriculture. Farmers' Bulletin No. 1364: Important Pecan Insects and their Control. By John B. Gill. Pp. 49. (Washington: Government Printing Office.) 10 cents.

The Carnegie United Kingdom Trust. Tenth Annual Report (for the Year ending 31st December 1923) submitted by the Executive Committee to the Trustees on Friday, 14th March 1923. Second impression. Pp. ii+90. (Dunfermline.)

Scripta Universitatis atque Bibliothecae Hierosolymitanarum. Vol. 1, VII: Beweis der Nichtexistenz eines überall regulären zentrisch symmetrischen Feldes nach der Feld-Theorie von Th. Kaluza. Von Albert Einstein und Jakob Grommer. Pp. 5+4. Vol. 1, XII: Fluid Motion past Circular Barriers. By S. Brodetsky. Pp. 14+14. Der Vibrationssinn. Von David Katz. Pp. 14+10. (Hierosolymis [Jerusalem]; The Hague: Martinus Nijhoff.)

Observatoire de Zi-ka-wei. Notes de Sismologie, No. 5: Étude sur les microséismes. Principaux sismogrammes, juillet-décembre 1923. Par le Rev. P. E. Gherzi. Pp. 19+8 planches. (Zi-ka-wei, Chang-hai.)

Statens Meteorologisk-Hydrografiska Anstalt. Årsbok, 5, 1923. 1: Månadsöversikt över väderlek och vattentillgång. Pp. 124. (Stockholm.) 250 kr.

City of Norwich. The Report of the Castle Museum Committee to the Town Council, 1923. Pp. 25. (Norwich.)

The British Science Guild. Annual Report, 1923-1924. Pp. 16. (London: 6 John Street, Adelphi.)

The University of Leeds: Department of Coal Gas and Fuel Industries (with Metallurgy). Report of the Livesey Professor for the Session 1922-1923. Pp. 11. (Leeds.)

The Institute of Physics. Report of the Board for the Year 1923. Pp. 13. (London: 10 Essex Street, Strand.)

Transactions of the Royal Society of Edinburgh. Vol. 53, Part 2, No. 23: The Geology of Prince Charles Foreland, Spitsbergen. By Dr. G. W. Tyrrell. Pp. 443-478+2 plates. (Edinburgh: R. Grant and Son; London: Williams and Norgate.) 5s.

## Diary of Societies.

SATURDAY, MAY 31.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—C. Nabokoff: Shakespeare in Russia.

MONDAY, JUNE 2.

INSTITUTE OF ACTUARIES, at 5.—Annual General Meeting.

ROYAL SOCIETY OF ARTS (Dominions and Colonies Section), at 5.—Sir Frederick Lugard: The Mandate System and the British Mandates.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.—General Meeting.

ARISTOTELIAN SOCIETY (at University of London Club), at 8.—Prof. G. Dawes Hicks: Force and Energy in Nature.

SOCIETY OF CHEMICAL INDUSTRY (London Section) (at Chemical Society), at 8.

ROYAL GEOGRAPHICAL SOCIETY (at Eolian Hall), at 8.30.—R. A. Frazer and E. F. Relf: Central Spitsbergen and Northeast Land.

TUESDAY, JUNE 3.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Major W. S. Tucker: Acoustical Problems (II). Outdoor Problems.

ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—H. S. Pearson: (1) The Skull of the Dicynodont Reptile *Kannemeyeri*; (2) A Dicynodont Reptile reconstructed.—R. I. Pocock: The External Characters of the Pangolins (Manidae).—Prof. J. P. Hill and Dr. E. A. Fraser: Some Observations on the Female Urogenital Organs of the Didelphidae.—Mary L. Hett: A New Land-Nemertean from New South Wales.—Hem Singh Pruthi: (1) The Post-Embryonic Development and Homology of the Male Genital Organs of *Tenebrio molitor* (Coleoptera); (2) The Development of the Ovipositor and the Efferent Genital Ducts in *Tenebrio molitor* (Coleoptera), with Remarks on the Comparison of the latter Organs in the two Sexes.—Dr. C. F. Sonntag: (1) The Comparative Anatomy of the Tongues of the Mammalia. X. Rodentia; (2) The Comparative Anatomy of the Tongues of the Mammalia. XI. Marsupialia and Monotremata.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—The Analysis of Motion by Kinematography.

RÖNTGEN SOCIETY (at Institution of Electrical Engineers), at 8.15.—Annual General Meeting.

WEDNESDAY, JUNE 4.

GEOLOGICAL SOCIETY OF LONDON, at 5.30.—Prof. H. H. Swinnerton: A New Catopterid Fish from the Keuper of Nottingham.—Dr. C. E. Tilley: A Preliminary Survey of Metamorphic Zones in the Southern Highlands of Scotland.

ROYAL MICROSCOPICAL SOCIETY (Biological Section), at 7.30.—Dr. C. Da Fano: A Parasitic Form of Encephalitis of the Domestic Rabbit in its relation to the Experimental Transmission of Epidemic Encephalitis.

ENTOMOLOGICAL SOCIETY OF LONDON, at 8.

INSTITUTE OF METALS (at Institution of Mechanical Engineers), at 8.—Dr. F. W. Aston: Atoms and Isotopes (May Lecture).

THURSDAY, JUNE 5.

ROYAL SOCIETY, at 4.30.—J. E. Littlewood and A. Walfisz: The Lattice-Points of a Circle.—P. L. Kapitza: A Method of producing Strong Magnetic Fields.—Dr. V. Henri and H. de László: The Analysis of the Absorption Spectrum of Naphthalene Vapour: The Structure and Activation of the Molecule of Naphthalene.—W. Jevons: The Band Spectra of Silicon Oxide and Chloride, and Chlorides of Carbon, Boron, and Aluminium.—R. C. Johnson: Ultra-violet Emission Bands associated with Oxygen.—Sir Richard Paget, Bart.: The Nature and Artificial Production of Consonant Sounds.—Prof. H. S. Allen: The Band Spectrum of Hydrogen.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. C. G. Seligman: The Veddas of Ceylon.

CHEMICAL SOCIETY, at 8.—Prof. T. M. Lowry and H. S. French: The Absorption Spectra of Camphor and of Camphorquinone.—H. Burgess and Prof. T. M. Lowry: Studies of Dynamic Isomerism. Part XVI. Mutarotation of Beryllium Benzoylcamphor. Formation of an Addition-compound with Chloroform. The Optical Activity of Beryllium.

FRIDAY, JUNE 6.

PHILOLOGICAL SOCIETY (at University College), at 5.30.—W. Worrall: Dictionary Evening.

ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Lord Rayleigh: The Glow of Phosphorus.

SATURDAY, JUNE 7.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—C. Nabokoff: The Historical Trilogy of Count Alexis Tolstoy.

## PUBLIC LECTURES.

SATURDAY, MAY 31.

BRITISH EMPIRE EXHIBITION (Conference on Science and Labour), at 11.—Sir Arthur Newsholme, Dr. C. S. Myers, Dr. Cyril Burt, Miss May Smith, and others: Science and the Human Factor. Chairman: Miss Margaret Bondfield.—At 5.—R. H. Tawney, Sir Thomas Holland, Dr. R. P. Scott, and others: Science in Educational Organisation. Chairman: Rt. Hon. Arthur Greenwood.

TUESDAY, JUNE 3.

BRITISH EMPIRE EXHIBITION (Empire Mining and Metallurgical Congress), at 11 A.M.—Viscount Long of Wraxall: Mineral Resources, and their relation to the Prosperity and Development of the Empire.

WEDNESDAY, JUNE 4.

BRITISH EMPIRE EXHIBITION (Empire Mining and Metallurgical Congress), at 10.30, 2, and 4.30.—The following Papers will be introduced and discussed on this and the following day:—Section A—Mining: E. Williams: Economics of the Coal Mining Industry.—Prof. H. Louis and H. F. Marriott: Economics of the Metalliferous Mining Industry.—Researches on Safety Problems in Mining: (a) Introduction by Sir Edward Troup, with Sections dealing with: (b) Coal-mining Explosives, Sir Frederic Nathan; (c) Spontaneous Combustion of Coal, Dr. J. S. Haldane; (d) Fire-damp Explosions, Prof. H. B. Dixon; (e) Coal-dust Explosions, W. Mason; (f) Electricity in Coal Mines, R. Nelson; (g) Miners' Safety Lamps, Dr. R. V. Wheeler.—Dr. J. S. Haldane: Physiological Problems in Mining.—Dr. T. L. Llewellyn: Miners' Nystagmus—Its Prevention and Cure.—Prof. D. Hay and R. Clive: Ventilation in Mines.—E. L. Hann: Provision of Compressed Air in Mines.—S. Mavor: Mechanical Problems in Coal-getting.—F. S. Sinnatt and H. E. Mitton: Preparation of Coal for the Market.—S. G. Blaylock and others: The Mining and Treatment of Zinc-Lead-Silver Ores at the Sullivan Mines, British Columbia.—R. H. Kendall and A. F. Hosking: Treatment of the Gold-bearing Quartz of the Kolar Goldfield.—L. G. Attenborough: Tin-mining in the Federated Malay States.—Section B—Petroleum: Sir Robert Waley-Cohen: Economics of the Oil Industry.—T. Dewhurst: Petroleum Geology.—A. Beeby Thompson: Petroleum Engineering and Drilling.—C. Dalley: Petroleum Engineering.—Dr. A. E. Dunstan and J. Kewley: Crude Oils of the Empire.—E. M. Bailey: Refining of Oil-Shale.—H. Barringer: Oil Transport: Tankers and Pipe Lines.—Sir Frederick W. Black: Bulk Distribution of Oil: Depots and Bunkering.—Section C—Metallurgy of Iron and Steel: Sir William J. Larke and M. S. Birkett: Economics of the Iron and Steel Industry.—C. S. Cameron: Development of the Iron and Steel Industry in Canada.—H. M. S. Tuckwell: The Iron and Steel Industry in India: Its Rise, Present Position, and Future Prospects of Development.—F. W. Harbord and E. F. Law: British Iron and Steel Industry.—F. Clements: Modern British Blast-Furnace Practice.—Sir Robert A. Hadfield, Bart.: Fuel Economy in Iron and Steel Works.—G. Hebdson: A Comparative Survey of Coke-Oven Practice in various Countries.—W. H. Hatfield: Modern Developments in the Metallurgy of Special Steels.—E. H. Saniter: Railway Steels.—J. G. Pearce: The British Cast Iron Research Association: Its Present Work and Future Development.—Section D—Non-Ferrous Metallurgy: Dr. W. Rosenhain: Aluminium and Light Alloys.—Dr. J. L. Haughton: Metallurgical Research in Government Laboratories.—Dr. R. S. Hutton: The Work of the British Non-Ferrous Research Association.—Prof. H. C. H. Carpenter: Metallurgical Education of University Rank in Great Britain.

CHELSEA PHYSIC GARDEN (Chelsea Embankment), at 5.15.—Sir David Prain: The Economic and Hygienic Relationships of Cinchona Bark and its Alkaloids (Chadwick Lecture).

LONDON SCHOOL OF ECONOMICS, at 5.30.—Rt. Hon. L. C. Amery: The Defences of the Empire.

THURSDAY, JUNE 5.

BRITISH EMPIRE EXHIBITION (Empire Mining and Metallurgical Congress), at 10.30, 2, and 4.30.

INSTITUTE OF PATHOLOGY AND RESEARCH, ST. MARY'S HOSPITAL, at 5.—Dr. W. Trotter: The Sensibility of the Skin in relation to Neurological Theory.

FRIDAY, JUNE 6.

BRITISH EMPIRE EXHIBITION (Conference of Engineering Societies), at 10.30.—E. Benedict and E. J. Flight: The Channel Tunnel.—R. Freeman-Matthews: Sanitation and Water and Gas Supply at the British Empire Exhibition.—A. Honeysett: Pumping in relation to Irrigation.—G. V. Mathieson: Surveying and Pioneer Roadwork in W. Africa.

BRITISH EMPIRE EXHIBITION (Empire Mining and Metallurgical Congress), at 11.30.