

long annealing is required.—R. Seligman and P. Williams: Cleaning aluminium utensils. Aluminium is not attacked by water-glass solutions or by hot soda solution containing a little sodium silicate. Attack by a 5 per cent. soda solution is immediately arrested by the addition of an amount of sodium silicate equal to 1/100 of the soda. Satisfactory detergents consisting of a mixture of soda and sodium silicate are articles of commerce; among them are "Carbosal," "Pearl Dust," and "Aquamol."—W. Rosenhain and J. D. Grogan: The effects of overheating and melting on aluminium. Exposure to an unduly high temperature during melting, and repeated re-melting even at ordinary melting temperatures, are thought to cause deterioration approximating to the condition generally described as "burnt" aluminium. High-grade aluminium was poured at temperatures up to 1000° C. and also at the usual pouring temperature after heating for some hours at 1000° C. The castings rolled and tested in the annealed state showed no deterioration. High-grade aluminium and also aluminium containing  $\frac{1}{2}$  per cent. each of iron and silicon were cast to  $\frac{1}{2}$ -in. slabs and rolled to 0.01 in. sheet; the sheet was re-melted and the process repeated ten times. Test pieces from each melt showed no systematic change.

## SYDNEY.

Linnean Society of New South Wales, July 26.—Mr. G. A. Waterhouse, president, in the chair.—A. E. Shaw: Description of new Australasian Blattidae, with a note on the blattid coxa. Nine cockroaches are described as new, three belonging to Platyzosteria, five to Cutilia, and one doubtfully to Zonioploca.—H. H. Karny: A remarkable new gall-thrips from Australia. These thrips infest the branchlets of the "Belah" (*Casuarina Cambagei*) and cause rounded galls of aborted tissue to form, in which large colonies of thrips develop.—G. F. Hill: A new Australian termite. The new species of *Caloterme* from near Condon, W.A., is distinct from any described Australian species and easily distinguished in the soldier caste by the long narrow head, large mandibles, dentition, third joint of antennæ, and enlarged femora.—E. W. Ferguson and G. F. Hill: Notes on Australian Tabanidae, part ii. Eight new species, including 1 species of *Silvius* and 7 of *Tabanus*, and two varieties of species of *Tabanus* are described.—J. McLuckie: Studies in symbiosis, part ii. The apogeotropic roots of *Macrozamia spiralis* and their physiological significance. Root-tubercles occur upon many of the seedlings and older plants of *Macrozamia spiralis*, particularly about the soil-level. They are seldom present on the more deeply situated secondary roots, but may be induced to develop by artificial inoculation. The root-tubercles are due to infection by soil bacteria, the presence of which stimulates the development of the cortex and sheath, so that the tubercles are more massive than ordinary roots.

## Official Publications Received.

Proceedings of the South London Entomological and Natural History Society 1921-22. Pp. xvii + 83. (London: Hibernia Chambers, London Bridge.) 5s.

Merchant Venturers' Technical College. Calendar for the 67th Session, 1922-23. Pp. 54. (Bristol.) 6d.

Ministerio da Agricultura, Industria e Commercio: Directoria de Meteorologia. Boletim Meteorologico: Anno de 1912. Pp. 110. Boletim Meteorologico: Anno de 1913. Pp. 130. (Rio de Janeiro.)

Papers of the Peabody Museum of American Archaeology and Ethnology, Harvard University. Vol. 8, No. 3: The Turner Group of Earthworks, Hamilton County, Ohio. By Charles C. Willoughby; with Notes on the Skeletal Remains, by Earnest A. Hooton. Pp. viii + 132 + 27 plates. (Cambridge, Mass.)

Smithsonian Institution: United States National Museum. Contributions from the United States National Herbarium. Vol. 23, Part 2: Trees and Shrubs of Mexico (Fagaceae-Fabaceae). By Paul C. Standley. Pp. xxxvii + 171-515. (Washington: Government Printing Office.)

memoirs of the Department of Agriculture in India. Entomological Series, Vol. 7, No. 7: New and Rare Indian Odonata in the Pusa Collection. By Major F. C. Fraser. Pp. 39-81. (Calcutta: Thacker, Spink and Co.; London: W. Thacker and Co.) 1.4 rupees; 1s. 9d.

Annual Report of the Meteorological Observatory of the Government-General of Chosen for the Year 1918. (Results of Observations.) Pp. iv + 134. For the Year 1919. (Results of Observations.) Pp. iv + 143. (Jinsen.)

Sixth Annual Report of the National Research Council. Pp. 72. (Washington: Government Printing Office.)

## Diary of Societies.

## MONDAY, OCTOBER 9.

INSTITUTE OF BREWING.—S. K. Thorpe, and others: Discussion on the Expenses incurred in connection with the Shipment of Foreign Barleys.

ROYAL SOCIETY OF MEDICINE (War Section) (at Royal Army Medical College, Millbank), at 5.—Lt.-Gen. Sir John Goodwin: Presidential Address.

## TUESDAY, OCTOBER 10.

ROYAL SOCIETY OF MEDICINE (Therapeutics and Pharmacology Section), at 4.30.—Dr. W. Langdon Brown: The Problems of Asthma (Presidential Address).—Dr. T. Izod Bennett: The Modification of Gastric Function by means of Drugs.

INSTITUTION OF PETROLEUM TECHNOLOGISTS (at Chemical Society), at 5.30.—Dr. A. E. Dunstan: The Work of the Standardization Committee.

INSTITUTE OF MARINE ENGINEERS, INC., at 6.30.—A. Keenes: Conditions to get High Economy from Oil Fuel.

QUEKETT MICROSCOPICAL CLUB, at 7.30.—F. Martin Duncan: Crustacea.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 8.—Dr. R. S. Clay: The Development of the Photographic Lens from the Historical Point of View (the Twenty-fifth Annual Traill-Taylor Memorial Lecture).

INSTITUTION OF HEATING AND VENTILATING ENGINEERS, INC. (at Caxton Hall), at 8.15.—R. Fortune: Some Points in the Law of Heating Engineers' Contracts.

## WEDNESDAY, OCTOBER 11.

INSTITUTION OF HEATING AND VENTILATING ENGINEERS, INC. (at Caxton Hall), at 8.—J. L. Musgrave: Heating and Ventilating of Passenger Ships.

ROYAL MICROSCOPICAL SOCIETY (at Examination Hall, 8-11 Queen Square, W.C.1), at 7.30.—A Conversazione.

INSTITUTION OF AUTOMOBILE ENGINEERS (at Royal Automobile Club), at 8.—Lt.-Col. D. J. Smith: Presidential Address.

## THURSDAY, OCTOBER 12.

OPTICAL SOCIETY (at Imperial College of Science and Technology), at 7.30.—Dr. L. C. Martin: A Physical Study of Coma.—F. W. Preston: The Structure of Sand-blasted and Ground Glass Surfaces.

INSTITUTE OF METALS (London Section) (at Institute of Marine Engineers), at 8.—Dr. D. Hanson: Chairman's Address.

ROYAL SOCIETY OF MEDICINE (Neurology Section), at 8.30.—Dr. W. Harris: Toxic Polyneuritis (Presidential Address).

## FRIDAY, OCTOBER 13.

ASSOCIATION OF ECONOMIC BIOLOGISTS (in Botanical Lecture Theatre, Imperial College of Science), at 2.30.—Dr. E. J. Butler: Virus Diseases in Plants.—Dr. J. A. Arkwright: Virus Diseases in Animals and Man.

ROYAL SOCIETY OF MEDICINE (Clinical Section), at 5.30.—(Ophthalmology Section), at 8.30.—N. Bishop Harman: A Visual Standard for School Teachers.

JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—E. C. West: Artificial Ice Making.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 8.—Dr. C. A. Swan: Carcassonne and the Pyrenees.

## PUBLIC LECTURES.

## MONDAY, OCTOBER 9.

UNIVERSITY COLLEGE, at 5.—Prof. G. Elliot Smith: The Beginnings of Science.

KING'S COLLEGE, at 5.30.—Prof. G. B. Jeffery: Einstein's Theory of Relativity.

## TUESDAY, OCTOBER 10.

UNIVERSITY COLLEGE, at 5.—Prof. C. Spearman: The Nature of Intelligence.

## WEDNESDAY, OCTOBER 11.

UNIVERSITY COLLEGE, at 5.30.—Miss A. S. Cooke, Col. J. M. Mitchell, and Capt. R. Wright: Discussion on Recent Developments in Rural Library Work.—Miss Lillas Armstrong: The Use of Phonetics in the Class Room. (As applied to the teaching of French.)

BEDFORD COLLEGE FOR WOMEN, at 5.30.—Prof. E. A. Gardner: Delphi and Delos.

UNIVERSITY COLLEGE, at 7.—A. H. Barker: Standard Ratings for Radiators, Boilers, and Complete Heating Installations.

## THURSDAY, OCTOBER 12.

CITY OF LONDON Y.M.C.A. (186 Aldersgate Street), at 6.—Sir Arthur E. Shipley: Fleas, Flies, and Mosquitoes.

## SATURDAY, OCTOBER 14.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—H. Shaw: Flight in all Ages.