

The epidermal glands and excretion of resin in *Alnus viridis*.

November 27.—The vice-president announced the death of Sir Archibald Geikie, honorary member of the Academy.—S. Meyer: Communications of the Radium Institute, No. 171. Coefficients of atomic magnetism for the rare earths. New determinations with the purest material from C. Auer-Welsbach and for hafnium from G. Hevesy. Cassiopeium and hafnium are as diamagnetic as lanthanum and zirconium. Tetravalent præsodymium has nearly the same atomic magnetism as trivalent cerium, and tetravalent cerium nearly the same as trivalent lanthanum. The results are important for the co-ordination of electronic orbits in Bohr's atomic model.—J. Kaess: Construction of the angle 1° with compasses and ruler.—G. Weissenberger, F. Schuster, and N. Mayer: On the molecular compounds of the phenols, VI. The behaviour of naphthols, tetrahydronaphthol, and allied compounds.

December 4.—H. Pettersson: Communication of the Radium Institute, No. 172. The field of force of the atomic nucleus and Coulomb's law. Experiments seem to show that α -particles shot at the nucleus of certain elements are not reflected but remain at the nucleus. This, as well as the results obtained by Bieler, can be explained by considering the electrostatic induction between α -particle and nucleus on the basis of Coulomb's law.—J. Kaess: Division of a circle into 7 and into 9 parts by ruler and compasses.—L. Holzer: Estimation of the units in a cubic number-body (Zahlkörper).—F. Raas: The crystal form of the orthoclases. The growth velocities of single crystal surfaces are given numerically as relative central distances.—R. Mueller, E. Pinter, and K. Pretz: The electrochemistry of non-aqueous solutions, Communication VI. Experiments on the electrolytic deposition of some metals from solutions in amyl alcohol, acetonitrile, aniline, and chinoline.—B. Guth: On the chemistry of the higher fungi, Communication XVIII. Investigations on the muscarine problem.—J. Zellner: On the chemistry of heterotrophic phanerogams, Communication V. The parasite *Prosochanche Burmeisteri* contains special tannoids.—J. Pia: Remains of a land plant in the Noetsch coal strata in the eastern Gailtal Alps. A new fern, Gymnoneuropteris.

Official Publications Received.

United States Department of Agriculture. Department Bulletin No. 1235: Life History of the Codling Moth in the Yakima Valley of Washington. By E. J. Newcomer and W. D. Whitcomb. Pp. 77+3 plates. (Washington: Government Printing Office.) 15 cents.

Department of the Interior: Bureau of Education. Bulletin, 1924, No. 28: Statistics of State Universities and State Colleges for Year ending June 30, 1923. Prepared under the Supervision of Frank M. Phillips. Pp. 15. (Washington: Government Printing Office.) 5 cents.

Chemistry in the Service of the State. Pp. 31. (Madison, Wis.: Department of Chemistry, University of Wisconsin.)

Dove Marine Laboratory, Cullercoats, Northumberland. Report for the Year ending June 30th, 1924. Edited by Prof. Alexander Meek. Pp. 121. (Cullercoats.) 5s.

Proposed National Institute for Research in Colloid Chemistry. The Need for such an Institute, the Plan for its Operation, an Argument for its Location, Letters of Commendation. Pp. 104. (Madison, Wis.: University of Wisconsin.)

University of Birmingham: Executive Board of Mining Research. Report on the Work of the Mining Research Laboratory, 1921-1924. Pp. 32. (Birmingham.)

Scientific Papers of the Institute of Physical and Chemical Research. Vol. 1, No. 12, March: Spectra of Constricted Arc of Metals. By Toshio Takamine and Mitsuharu Fukuda. Pp. 207-216+plates 5-8. 45 sen. Vol. 1, No. 13, August: The Fine Structure of Mercury Lines and the Isotopes. By Hantaro Nagaoka, Voshikatsu Suguira, and Tadao Mishima. Pp. 217-258+plates 9-18. 2 yen. (Tokyo: Institute of Physical and Chemical Research, Komagome, Hongo.)

Department of Agriculture. Science Bulletin No. 33: Report on the Cost of Production of Maize Investigation for the Season 1921-22. By E. Parrish. Pp. 46. (Pretoria: Government Printing and Stationery Office.) 6d.

The Marine Biological Station at Port Erin (Isle of Man), being the Thirty-eighth Annual Report of the former Liverpool Marine Biology Committee, now the Oceanography Department of the University of Liverpool. Drawn up by Prof. Jas. Johnstone. Pp. 47. (Liverpool: University Press of Liverpool, Ltd.; London: Hodder and Stoughton, Ltd.) 1s. 6d. net.

The Botanical Society and Exchange Club of the British Isles. Vol. 7, Part 1: Report for 1923. By G. Claridge Bruce. Pp. 306+6 plates. (Arbroath: T. Bunce and Co.) 10s.

Osmania University, Hyderabad: Publications of the Nizamiah Observatory. Astrographic Catalogue 1900-0, Hyderabad Section, (Part 2). Dec. -20° to -24° , from Photographs taken and measured at the Nizamiah Observatory, Hyderabad, under the Direction of T. P. Bhaskaran. Vol. 5: Measures of Rectangular Co-ordinates and Diameters of 88,444 Star-images on Plates with Centres in Dec. -21° . Pp. xxxix+290. (Nizamiah: Osmania University.) 15 rupees; 20s. net.

Trinidad and Tobago. Council Paper No. 105 of 1924. Agricultural Credit Societies: Report by the Registrar of Agricultural Credit Societies for the Year ended 30th June, 1924. Pp. 8. (Port-of-Spain.) 4d.

Bulletin of the American Museum of Natural History. Vol. 51, Art. 7: The Pectoral Limb of *Eryops* and other Primitive Tetrapods. By Roy Waldo Miner. Pp. 145-312. (New York.)

Department of the Interior: Bureau of Education. Bulletin, 1923, No. 55: Bibliography of Educational and Psychological Tests and Measurements. Compiled by Margaret Doherty and Josephine MacLachy under the Direction of B. R. Buckingham. Pp. ix+233. (Washington: Government Printing Office.) 25 cents.

Fifty-fifth Annual Report of the Trustees of the American Museum of Natural History for the Year 1923. Pp. xxiv+269+13 plates. (New York City.)

Conseil Permanent International pour l'Exploration de la Mer. Rapports et procès-verbaux des réunions. Vol. 35: Rapport Atlantique 1923 (Travaux du Comité du Plateau Continental Atlantique) (Atlantic Slope Committee). Publié avec l'aide de Dr. Ed. Le Danois. Pp. 55+11 planches. (Copenhague: Andr. Fred. Høst et fils.)

Methods and Problems of Medical Education. (Second Series.) Pp. 11+118. (New York: The Rockefeller Foundation.)

Diary of Societies.

SATURDAY, FEBRUARY 7.

ROYAL SOCIETY OF MEDICINE (Otolaryngology Section), at 10.30 A.M.—L. Colledge: Demonstration of Kinematograph Pictures of Cases of Facial Paralysis treated by Nerve Anastomosis.—G. J. Jenkins: Septicæmia as a Complication of Middle-ear Infection.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Dr. E. H. Fellowes: The Elizabethan Ayre.

GILBERT WHITE FELLOWSHIP (at 6 Queen Square, W.C.), at 3.—Dr. J. R. Leeson: The Evolution of Man.

INSTITUTE OF BRITISH FOUNDRYMEN (Lancashire Branch) (at Grand Hotel, Manchester), at 4.—V. C. Faulkner: A Psychological Examination of Foundry Life.

HULL ASSOCIATION OF ENGINEERS (at Hull Municipal Technical College), at 7.15.—J. Sim: Recent Developments in Marine Auxiliaries.

MONDAY, FEBRUARY 9.

ROYAL IRISH ACADEMY (at Dublin), at 4.15.

ROYAL SOCIETY OF EDINBURGH, at 4.30.—W. L. Calderwood: The Relation of Sea Growth to the Spawning Frequency in *Salmo salar*.—Prof. F. J. Cole: A Monograph on the General Morphology of the Myxinoidei Fishes based on a study of Myxine. Pt. 6: The Blood Vascular and Lymphatic Systems.—Sir Thomas Muir: The Theory of Compound Determinants from 1900 to 1920.

VICTORIA INSTITUTE (at Central Buildings, Westminster), at 4.30.—Prof. A. T. Clay: The Amaru.

BIOCHEMICAL SOCIETY (in Biochemical Department, University College), at 5.—H. J. Channon: Cholesterol Synthesis in the Animal Body.—G. A. Harrison and H. J. Channon: Observations on the Composition of Subcutaneous Fat in Cases of Sclerema Neonatorum.—C. R. Harrington: 3:4:5 Tri-iodophenyl-pyrrolidone-carboxylic Acid.—J. C. Drummond and K. H. Coward: (a) Further Observations on the Chemical Nature of the Vitamin Fraction of Cod Liver Oil; (b) Ultra-violet Radiation and Growth.—S. Tsubura: Comparison of the Reducing Properties of Plain and Striated Muscle.—Dr. P. Haas and T. G. Hill: An Oxygen Absorbing Mechanism in *Mercurialis perennis* and Accompanying Colour Changes.—A. Wormall: The Tyrosinase-tyrosine Reaction: the Theory of Deamination.—F. C. Hapgood and H. S. Raper: The Supposed Deaminating Action of Tyrosinase on Amino Acids.—C. Rimmington and H. D. Kay: The Phosphorus of Caseinogen (Preliminary Communication).

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. V. E. Negus: Some Disorders of the Larynx.

INSTITUTION OF ELECTRICAL ENGINEERS (Informal Meeting), at 7.—Capt. P. P. Eckersley and others: Discussion on Broadcasting.

INSTITUTION OF MECHANICAL ENGINEERS (Graduates Section), at 7.—K. Rowell: Recent Developments in Solid Injection Oil Engines.

INSTITUTE OF METALS (Scottish Local Section) (at 39 Elmbank Crescent, Glasgow), at 7.30.—J. A. Gardner: Methods of Keeping Foundry Records.

ROYAL SOCIETY OF MEDICINE (Epidemiology and State Medicine, Comparative Medicine, Disease in Children Sections), at 8.—Dr. Robertson, Dr. Niven, and others: Special Discussion on the Control of Tuberculosis and the Milk Supply.

SURVEYORS' INSTITUTION, at 8.

ROYAL GEOGRAPHICAL SOCIETY (at Eolian Hall), at 8.30.—J. M. de Navaro: Ancient Trade Routes in Europe.

MEDICAL SOCIETY OF LONDON (at 11 Chandos Street, W.), at 8.30.—Sir Thomas Horder, Bart., and others: Discussion on the Treatment of Lymphadenoma.