

**Crudei**: Rhombic systems with uniform rotation in electronic dynamics.—**Paolo Stranco**: Theory of Einstein fields with axial symmetry.—**Guido Horn d' Arturo**: Flying shadows visible during solar eclipses.—**Rita Brunetti**: Fine structure of the helium line 5876 Å.U.—**G. Carobbi**: Double chromates of rare earth and alkali metals. I. Lanthanum and potassium chromates. Investigation of the isotherm for 25° reveals the existence of double salts containing  $\text{La}(\text{CrO}_4)_3$ ,  $\text{K}_2\text{CrO}_4$ , and  $\text{H}_2\text{O}$  in the molecular proportions, 1:1:2, 1:3:2, 1:4:2, 1:4.5:2, and 1:5:2, these corresponding with the proportions found in the double sulphates of the same metals, excepting that, in the latter case, the 1:3-compound is anhydrous, and the 1:4-salt monohydrated.—**Roberto Savelli**: Genetic value of the process of ionolysis of gametes.—**Marcello Boldrini**: Internal and external measurements of certain long bones in man and in woman. III. The volume of the medullary cavity and hematopoiesis in the two sexes.—**A. Clementi**: Adaptation of tadpoles to the chemico-physical conditions of the surrounding medium.—**Boldrino Boldrini**: Biological reactions observed in the blood serum of woman during and after the lacteal decline. III. Demonstration of the existence of proteolytic enzymes capable of hydrolysing the proteins of human milk.—**Carlo Jucci**: Varying proclivity to parthenogenesis in different races of silkworms (*Bombyx mori*) and its probable correlation with the varying tendency to bivoltinism.—**Sergio Sergi**: Myorabdotic cellular groups in the thoracic region and the limits between the thoracic and lumbar regions in the spinal medulla of the chimpanzee.

## VIENNA.

Academy of Sciences, January 8.—**K. Umrath**: The conduction of excitation in the leaf of *Mimosa pudica*. The velocity of conduction is discontinuous and is dependent on the nature and strength of the stimulus. The separate stages may be ascribed to separate conducting systems. The velocity is less in the leaflets than in the secondary leaf-stalk, and less in them than in the primary leaf-stalk. The system of greatest velocity is in the chief bundles.—**T. Ciurapajlowicz**: Two proofs of Fermat's great theorem.—**L. Waldmann**: Report on the geological survey of Moravian territory between Eggenburg, Pernegg, and Theras. A series of orthogneiss intrusions and strata of rocks of sedimentary origin.—**G. Weissenberger**, **F. Schuster**, and **K. Wojnoff**: Molecular compounds of the phenols. VI. The behaviour of hydrated cresols and allied compounds.—**L. Moser** and **E. Reitschl**: The determination and separation of the rare metals from other metals. VI. Determination of the solubility and sensitiveness of complex compounds of caesium and rubidium and their application in analysis. For quantitative analysis only the chloroplatinate, perchlorate, and bitartrate come into consideration. A quantitative separation was not attained. There is no special caesium or rubidium reagent, only sensitiveness is decisive. The best indication is given by silico-molybdic acid, by which potassium is not precipitated. Phosphotungstic acid is still more sensitive, but precipitates potassium also.

## Official Publications Received.

University of London: University College. Report of the University College Committee (February 1924-February 1925), with Financial Statements (for the Session 1923-24), and other Documents, for Presentation to the Senate. Pp. 101. (London.)

Smithsonian Institution: United States National Museum. Report on the Progress and Condition of the United States National Museum for the Year ended June 30, 1924. Pp. ix+205. (Washington: Government Printing Office.) 63 cents.

Journal of the College of Agriculture, Hokkaido Imperial University, Sapporo, Japan. Vol. 13, Part 3: On the Phenomena of Sex Transition in *Arisaema japonica* Bl. By Tokujiro Maekawa. Pp. 217-305+1 plate. Vol. 13, Part 2: Das Urogenitalsystem der Urodelen. Von Samuro Yamagiwa. Pp. 37-82+4 Tafeln. (Sapporo.)

Department of Commerce: U.S. Coast and Geodetic Survey. Serial No. 278: Results of Observations made at the United States Coast and Geodetic Survey Magnetic Observatory near Honolulu, Hawaii, in 1921 and 1922. By Daniel L. Hazard. Pp. 100+4 charts. Serial No. 282: Results of Observations made at the United States Coast and Geodetic Survey Magnetic Observatory at Sitka, Alaska, in 1921 and 1922. By Daniel L. Hazard. Pp. 100+10 charts. (Washington: Government Printing Office.) 25 cents each.

Ceylon Administration Reports for 1923. Department of Agriculture: Report of the Director of Agriculture for 1923. Pp. D54. (Peradeniya.)

Report on the Operations of the Department of Agriculture, Madras Presidency, for the Official Year 1923-24. Pp. 48. (Madras: Government Press.) 6 annas.

Memoirs of the Geological Survey of India. Vol. 48, Part 2: The Geology of parts of the Persian Provinces of Fars, Kirman and Laristan. By Dr. Guy E. Pilgrim. Pp. iv+116+xiii+plates 11-16. (Calcutta: Government of India Central Publication Branch.) 3.12 rupees; 6s. 3d.

Koninklijk Magnetisch en Meteorologisch Observatorium te Batavia. Verhandelingen No. 8: Het Klimaat van Nederlandsch-Indië (The Climate of the Netherlands Indies). Deel 1 (Vol. 1), Algemeene Hoofdstukken (General Chapters), Aftewering 7 (Part 7). With English Summaries. Pp. iv+417-497+199-248. (Batavia.)

Forest Research Institute, Dehra Dun, (U.P.), India: Economic Branch. Testing of Raw Materials: Scheme of Operation No. 1 for Project No. 5, Paper Pulp Section. By W. Raitt. Pp. iii+10. (Calcutta: Government of India Central Publication Branch.) 5 annas; 6d.

Publications of the South African Institute for Medical Research. Edited by Dr. W. Watkins-Pitchford. No. 18: An Investigation into the Significance of Localized and more or less Persistent Râles in the Marginal Areas of the Lungs of apparently Healthy Natives. By Dr. W. Watkins-Pitchford and Dr. Peter Allan. Pp. 35. (Johannesburg.) 5s.

Calendario della Basilica Pontificia del Santissimo Rosario in Valle di Pompei per 1925. Pp. 256. (Valle di Pompei.)

First Greenwich Catalogue of Stars for 1925-0. Catalogue of 2648 Stars from Observations with the Transit Circle made at the Royal Observatory, Greenwich, during the Years 1915-1921, under the Direction of Sir Frank Watson Dyson. Pp. xix+68. (London: H.M. Stationery Office.) 20s. net.

Astronomical and Magnetical and Meteorological Observations made at the Royal Observatory, Greenwich, in the Year 1922, under the Direction of Sir Frank Dyson. Pp. 8+A57+B4+C2+Dix+D51+E5+Bxi+E84+20. (London: H.M. Stationery Office.) 35s. net.

Publikationer fra det Danske Meteorologiske Institut. Aarbøger. Isforholdene i de Arktiske Have (The State of the Ice in the Arctic Seas) 1924. Pp. 38+5 maps. (København: G. E. C. Gad.)

The Marine Biological Station at Port Erin (Isle of Man). Supplement to Thirty-eighth Annual Report. List of the Published Works of the late Sir William A. Herdman, C.B.E., F.R.S., D.Sc., etc. Arranged by E. Catherine Herdman. Pp. 25. (Liverpool: University Press of Liverpool, Ltd.; London: Hodder and Stoughton, Ltd.)

Journal of the Marine Biological Association of the United Kingdom. New Series, Vol. 13, No. 3, March. Pp. 531-754. (Plymouth.) 6s. net.

Journal of the Chemical Society: containing Papers communicated to the Society. 1925, Vol. 127, February. Pp. iv+viii+305-498. (London: Gurney and Jackson.)

Journal of the Chemical Society. Supplementary Number, containing Title-pages, Contents and Indexes. 1924, Vol. 125. Pp. 2699-2796+xxx+4. (London: Gurney and Jackson.)

Abstracts of Chemical Papers issued by the Bureau of Chemical Abstracts. A: Pure Chemistry. Supplementary Number, containing Title-pages and Indexes. 1924, Vol. 126. Pp. ii.377-ii.1304+20. (London: Gurney and Jackson.)

Transactions and Proceedings of the Perthshire Society of Natural Science. Vol. 8, Part 1, 1923-24. Pp. 15+xv+5 plates. (Perth.)

U.S. Department of the Interior. Annual Report of the Commissioner of Education to the Secretary of the Interior for the Fiscal Year ended June 30, 1924. Pp. iii+32. (Washington: Government Printing Office.) 5 cents.

## Diary of Societies.

## SATURDAY, MARCH 14.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir Ernest Rutherford: The Counting of the Atoms (III.)

INSTITUTE OF BRITISH FOUNDRYMEN (Lancashire Branch) (at Manchester College of Technology), at 4.—G. Edgington: Oil-Sand Cores.

## SUNDAY, MARCH 15.

C.B.C. SOCIETY FOR CONSTRUCTIVE BIRTH CONTROL AND RACIAL PROGRESS (at Criterion Theatre, Piccadilly Circus, W.), at 3.—Dr. H. M. Telling, Dr. M. Thomson, Dr. Jane L. Hawthorne, Dr. Marie Stopes, and others: Why Doctors Disagree about Birth Control.

## MONDAY, MARCH 16.

ROYAL IRISH ACADEMY, at 4.15.

ROYAL GEOGRAPHICAL SOCIETY (at Lowther Lodge, Kensington Gore), at 5.—R. D. Oldham: The Portolan Maps of the Rhone Delta.

INSTITUTE OF AUTOMOBILE ENGINEERS (Loughborough Graduates' Meeting) (at Loughborough College), at 7.—E. R. Caffyn: A Few Features of Early Car Design.

INSTITUTE OF ELECTRICAL ENGINEERS (Mersey and North Wales (Liverpool) Centre) (at Liverpool University), at 7.—Informal Discussion on The Application of Electricity on Board Ship.