

current, and gives a ratio of the international ohm to the absolute ohm of 1.00052. This is compared with earlier values, 1.00045 (United States National Bureau of Standards) 1.00050 (National Physical Laboratory), and 1.00048 (Physikalisch-Technische Reichsanstalt, Germany).

**PIERRE GRIVET**: A new phenomenon in the working of the photo-electric cell at high frequency.

**VICTOR SINN**: Researches on the reactions at the positive electrode of the lead accumulator. Determination of the amount of sulphuric acid used by the positive plate of a lead accumulator during discharge, when opposed to the hydrogen electrode, gave figures agreeing with the theory of Gladstone and Hibbert within 1 per cent.

**JACQUES DE LASSUS SAINT-GENIES**: The conditions of correct projection of crimped films.

**PAUL GESTEAU**: A method for the quantitative analysis of substances in solution by their absorption spectrum in the field of the ultra-violet.

**GEORGES ALBERT BOUTRY and JEAN GILLOD**: The properties of a new type of photo-emissive cell. Studies of a cell in which the cathode was formed by a thin layer of caesium deposited on silver.

**MARCEL MATRICON**: The application of the method of the self-consistent field to atomic nuclei.

**PAUL LAFFITTE**: The projection of flame in gaseous mixtures and on the phenomenon of shock in explosion motors.

**GEORGES CARPENI**: The preparation, electrometry and spectrography in the ultra-violet of *d*-araboscorbic acid.

**LOUIS HACKSPILL and LAMBERT A. VAN ALTNEA**: The action of caesium on carbon monoxide. Caesium combines at the ordinary temperature with carbon monoxide, even under low pressure, giving a stable exothermic compound (COCs)<sub>n</sub>, probably (COCs)<sub>2</sub>, reacting with dilute acids giving glyoxal.

**ANDRÉ ADRIEN SANFOURCHE**: The preparation and properties of the neutral lithium phosphate. Neutral lithium phosphate, free from LiOH, can only be obtained by neutralizing phosphoric acid with the exact proportion of lithium hydroxide. Its composition is Li<sub>3</sub>PO<sub>4</sub> · 9.5 H<sub>2</sub>O.

**MME. YVONNE KHOUVINE, GEORGES ARRAGON and YOSHINORI TOMODA**: The oxidation of tetramethyl-*α*-*d*-methyltagatoside with nitric acid.

**MILLE. DINAH BIQUARD**: The Raman spectra of indanone.

**CHARLES EMILE BRAZIER and LÉONIDE GÉNAUX**: The earthquake of June 11, 1938. Results shown by the seismographs at the Parc Saint-Maur Observatory.

**MENGLI ENIKEFF**: Researches on the subterranean waters of the interior delta of the Niger.

**HENRI BRANDSTETTER and JEAN LAGRULA**: Values of the magnetic inclination in the Sahara and the Sudan.

**RENÉ SOUÈGES**: The embryogeny of the Nyctaginaceæ. The development of the embryo in *Oxybaphus viscosus*.

**MARC SIMONET and PIERRE DANSEREAU**: Several tetraploid mutations of *Petunia* appearing after treatment with colchicine.

**WALTER RIESE**: The structure and function of the brain of the newly born bear.

**FERNAND LE CHUITON, CHARLES MISTRAL and JEAN DUBREUIL**: Attempts at the vaccination of the pig with the virus of swine fever after passage through the guinea pig. Rapid loss of virulence for the pig and also of the antigenic power against the original virus.

## Appointments Vacant

APPLICATIONS are invited for the following appointments, on or before the dates mentioned:

ASSOCIATE PROFESSOR OF ENTOMOLOGY in the Punjab Agricultural Service—The High Commissioner for India, General Department, India House, Aldwych, London, W.C.2 (August 15).

LECTURER IN ELECTRICAL ENGINEERING in the County Technical College, Worksop—The Principal (August 15).

PRINCIPAL of the Hendon Technical Institute—The Secretary to the Education Committee, Education Offices, 10 Great George Street, Westminster, S.W.1 (August 27).

LECTURER IN METALLURGY in the University of Leeds—The Registrar (September 1).

PRINCIPAL of the Bridgwater Art and Technical Institute—The Chief Education Officer, County Hall, Taunton (September 3).

LECTURER IN PHYSIOLOGY in the Portsmouth Municipal College—The Registrar.

## Reports and other Publications

(not included in the monthly Books Supplement)

### Other Countries

Spisy vydávané Přírodovědeckou Fakultou, Masarykovy University. Čís. 248: O difúzních potenciálech, VI (On the Diffusion Potential, VI). Napsal V. Čupr. Pp. 15. Čís. 249: Trois notes sur les espaces abstraits (Tři poznámky o abstraktních prostorech). Par Bedřich Pospíšil. Pp. 9. Čís. 250: Morfologický vývoj těšínského podbeskydí (Morphologische Entwicklung des Těšínského Hügellandes). Napsal Fr. Vitásek. Pp. 18. Čís. 251: Processus lemuringicus. Von Dr. Karl Kahn. Pp. 23. Čís. 252: Akustická měření katodovým oscilografem (Akustische Messungen mit dem Kathodenooszilografen). Napsal J. Zahradníček. Pp. 10. Čís. 253: O pasivité chromu a ferrochromu v kyselých roztocích (Passivity of Chromium and Ferrochromium in Acid Solutions). Napsal V. Čupr a O. Lasák. Pp. 16. Čís. 254: O přemístění rovnostranného trojúhelníka v prostoru a speciální ploše osmého stupně vytvořené tímto pohybem (Sur le déplacement d'un triangle équilatéral dans l'espace et sur une surface spéciale d'ordre huitième). Napsal Miloslav Peříšek. Pp. 28. Čís. 255: Vliv přípravy kyslíčkové zinečnatého na jeho redukci vodíkem (On the Influence of Preparation of Zinc Oxide on its Reduction by Hydrogen). Napsal F. Schacherl. Pp. 13. Čís. 256: Sur les caractères des points dans les espaces topologiques (O charakterech bodů v topologických prostorech). Par Bedřich Pospíšil. Pp. 23. Čís. 257: Pohlavní dvojitvárnost larev a kukel pakomárů (Geschlechtsdimorphismus der chironomidenlarven und -Puppen). Napsal Jan Závřel. Pp. 23. Čís. 258: i. Sur les espaces compacts (O kompaktních prostorech); ii. Sur les caractères des points dans les espaces  $\mathbb{E}$  (O charakterech bodů v  $\mathbb{E}$ -prostorech). Par Eduard Čech et Bedřich Pospíšil. Pp. 14. (Brno: A. Píša.) [197]

U.S. Department of Agriculture. Circular No. 478: The American Dog Tick, Eastern Carrier of Rocky Mountain Spotted Fever. By F. C. Bishop and Carroll N. Smith. Pp. 26. 5 cents. Farmers' Bulletin No. 1798: Control of Common White Grubs in Cereal and Forage Crops. By Philip Luginbill. Pp. 20. 5 cents. Technical Bulletin No. 599: Biology of the Pea Weevil in the Pacific Northwest with Suggestions for its Control on Seed Peas. By A. O. Larson, T. A. Brindley and F. G. Hinman. Pp. 48. 10 cents. (Washington, D.C.: Government Printing Office.) [207]

Mexico's Resources for Livelihood: a Study of the Influence of Foreign Ownership. By Alejandra Carrillo. Pp. 34. 25 cents. Gold and Poverty in South Africa: a Study of Economic Organization and Standards of Living. By Max Yergan. Pp. 24. 15 cents. (The Hague and New York: International Industrial Relations Institute.) [217]

Briefe Franz Xaver Freiherrn von Zach und seines Nachfolgers Bernhards von Lindenau von 1791-1816 an P. Martin Alois David. Herausgegeben von Otto Seydl. (Publikace Pražské Státní Hvězdárny, Č. 11.) Pp. 206. (Praha: Státní Hvězdárna Republiky Československé.) [246]

Lucknow University Studies. No. 10: The General Field Theory of Schouten and Van Dantzig. By Prof. N. G. Shabde. Pp. iv+58. (Lucknow: Lucknow University.) [17]

Verhandelingen der Koninklijke Nederlandsche Akademie van Wetenschappen. Afdeling Natuurkunde, Sectie 1, Deel 16, No. 4: Second Report on Viscosity and Plasticity. Prepared by the Committee for the Study of Viscosity of the Academy of Sciences at Amsterdam. Pp. viii+287+2 plates. (Amsterdam: N.V. Noord-Hollandsche Uitgeversmaatschappij.) [17]

Festschrift zum 60. Geburtstag von Prof. Dr. Embrik Strand: enthaltend dem Jubilar gewidmete Arbeiten ausländischer Zoologen und Paläontologen. Vol. 1. Pp. ii+644+14 plates. Vol. 2. Pp. ii+652+37 plates. Vol. 3. Pp. ii+608+20 plates. Vol. 4. Pp. ii+784+16 plates. (Riga: Sistematisks Zoologijas Instituts.) [17]

U.S. Department of Agriculture. Circular No. 474: Muskrat Investigations in Dorchester County, Md., 1930-34. By Frank R. Smith. Pp. 24. 10 cents. Leaflet No. 161: The Eastern Tent Caterpillar. By F. M. Wadley. Pp. 4. 5 cents. Technical Bulletin No. 601: Selenium Occurrence in Certain Soils in the United States with a Discussion of Related Topics; Third Report. By Horace G. Byers, John T. Miller and K. T. Williams, and H. W. Lakin. Pp. 75. 15 cents. Technical Bulletin No. 607: Occurrence of the Beet Leafhopper and Associated Insects on Secondary Plant Successions in Southern Idaho. By D. E. Fox. Pp. 44. 10 cents. (Washington, D.C.: Government Printing Office.) [267]