

Societies and Academies.

PARIS.

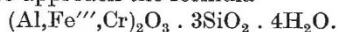
Academy of Sciences, July 17.—Charles Moureu, Charles Dufraisse, and Marius Badoche: Autoxidation and antioxygen action. The catalytic properties of phosphorus compounds. Details of the antioxygen action of various compounds of phosphorus towards benzaldehyde, furfuraldehyde, and styrolene. Phosphoric acid and the phosphate slow down some oxidations in a very marked manner.—S. Winogradsky: The agronomic application of a microbiological test. A modification of the azobacter test is described, which indicates the lime and phosphoric acid requirements within 48 hours.—S. Drzewiecki: A theoretical interpretation of the experimental ballistic curve $F(v)/v^2$.—Jean J. Trillat: A new method of X-ray spectrography. Application to the study of the orientation of the fatty acids by mercury.—C. Marie and Mlle. M. L. Claudel: The influence of the pH in the electrolytic deposit of copper in the presence of gelatine. It is known that when copper solutions containing gelatine in solution are electrolysed, the weight of the deposit is greater than that calculated from Faraday's law. This increase depends on the pH of the solution and is at a maximum for pH about 3.2.—A. Blanc: The photoelectric current as a function of the field and fatigue.—A. Morel, P. Preceptis, and A. Galy: The action of picric acid upon glycyl-glycine. This compound has been obtained in definite crystals, possessing the composition of a monoglycylglycine monopicrate. The crystallographic characters are given.—J. O. Haas and C. R. Hoffmann: Tertiary movements in the plain of Northern Alsace.—G. Nadson and N. Krasnitsnikov: Schizophytes of the caecum of the guinea-pig: *Anabæniolum*.—R. Dieuzeide: The evolutive cycle of *Pemphigella follicularia*.—R. Sazerac and H. Nakamura: The mechanism of the preventive action of bismuth against *Spirochaeta icterohemorrhagica*.

COPENHAGEN.

Royal Danish Academy of Science and Letters, May 11.—P. K. Prytz: A manometer based on the optical contact between a microscope and a mercury surface. The triple point of water. In determining the height of a mercury surface, a microscope making optical contact with the surface has many advantages over a pointer; and particularly, it allows of much greater precision. A method by which the vapour pressure of water at the triple point can be measured is given.—Niels Bjerrum: Potentiometric determinations of the hydrogen ion activity in mixtures of acids and bases at different salt concentrations and temperatures have been made with the assistance of Miss A. Unmack.

LENINGRAD.

Academy of Sciences (*Comptes rendus*, No. 12).—A. E. Fersman: Chemical constitution of the earth and meteorites. A comparison of average analyses of earth and of meteorites shows their extraordinary resemblance (except in the content of magnesium, calcium, sulphur, manganese, and carbon), which suggest the existence of some general laws of cosmic chemistry.—A. E. Fersman and N. Vlodev: Phenomena of kaolinisation in the emerald mines of the Ural. An analysis of a green clay-like mineral showed it to approach the formula



This mineral constitutes an indication of the possible presence of emeralds.—P. P. Lazarev: A method of determination of the age of a man based on the

sensitivity of the eyes. A formula for the determination is given.—S. Kostychev and S. Soldatenkov: Pyruvic acid as an intermediate product of alcoholic fermentation. It has always been found possible to isolate pyruvic acid from the products of fermentation of sugar under the influence of yeast when pure cultures of the latter are used.—M. A. Lavrova: Ancient dunes of the Onega peninsula. Geological and geographical description of the dunes.—S. D. Lvov: The active acidity and buffer properties of grapes and some other fruit. The pH value of the sap of fruit is not accidental, but is correlated with the processes of dissociation of acids of the sap.

VIENNA.

Academy of Sciences, May 18.—G. Koller and E. Krakauer: A synthesis of acridine and acridone.—G. Koller and E. Strang: A synthesis of acridinic acid.—H. V. Graber: Report on geological-petrographical researches in the region of the Hercynian Danube fault.—L. Waldmann: Studies on the metamorphosis in the Moldau-Danube primitive rocks of the Waldviertel.—J. Laimböck: The influence of radium radiation on the piezo-electric behaviour of a quartz plate.—E. Göllnitz: The quaternion functions $\log x$ and $\arctan x$.

May 24.—F. Kautsky: The biostratigraphic importance of the pectins of the Lower Austrian Miocene.—E. Gebauer-Fülneegg and F. von Meissner: The question of the preparation of derivatives of the phenol-monosulphonic chlorides.—E. Gebauer-Fülneegg: On aryl-sulpho-phenyl-chlor-amide.—E. Riess and W. Frankfurter: On sulphur-containing derivatives of acetophenone.—B. Karlik and E. Kara-Michailova: The luminescence excited by α -rays and its connexion with the energy of particles.

Official Publications Received.

BRITISH.

Eighth Annual Report of the Scientific and Industrial Research Council of Alberta, 1927. (Report No. 22.) Pp. 48. (Edmonton, Alta.)
The Journal of the Burma Research Society. Vol. 17, Part 2: Geography of South Tenasserim and the Mergui Archipelago. By H. L. Chhibber. Pp. 127-156. (Rangoon.)
Department of Commercial Intelligence and Statistics, India. Agricultural Statistics of India, 1925-26. Vol. 2: Area, Classification of Area, Area under Irrigation, Area under Crops, Live-Stock, and Land Revenue Assessment in certain Indian States. Pp. v+87. (Calcutta: Government of India Central Publication Branch.) 1.4 rupees; 2s. 3d.

FOREIGN.

Zemkopibas departamenta rakstu krājums, 7 burtnīca. Latvijas jūras zvejniecība 1927 gadā. (Bulletin statistique des Pêches maritimes de Lettonie, année 1927.) Sakopojis V. Miežis. Pp. 53. (Rīgā.)
Museums of the Brooklyn Institute of Arts and Sciences. Report upon the Condition and Progress of the Museums for the Year ending December 31, 1927. By William Henry Fox. Pp. 77+3 plates. (Brooklyn, N.Y.)

Diary of Societies.

FRIDAY, SEPTEMBER 7.

PHILOLOGICAL SOCIETY (at University College), at 5.30.—Sir W. A. Craigie: Lexicography.

SATURDAY, SEPTEMBER 8.

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS (Eastern District Meeting) (at Town Hall, Great Yarmouth), at 11.
INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS (North-Eastern District Meeting) (at Town Hall, Morpeth), at 2.

CONGRESSES.

AUGUST 30-SEPTEMBER 2.

SOCIÉTÉ HELVÉTIQUE DES SCIENCES NATURELLES (at Lausanne).—Including following Lectures:—Prof. E. Bosshard: Past and Future of the Wholesale Chemical Industry.—Prof. P. Termier: Recent Impressions of Travel.—Prof. M. Askanazy: Successes and Aims in the Study of Tumours.—Prof. A. Reymond: The Occult Sciences in Antiquity: a Methodological Study.

SEPTEMBER 3-10.

INTERNATIONAL CONGRESS OF MATHEMATICS (at Bologna).—In following sections:—Arithmetic, Algebra, Analysis; Geometry; Mechanics,