

thus obtained by means of dextrorotatory tartaric acid.—Louis Longchambon: The tartaric acids. Study of the preparation and properties of anti-tartaric acid (inactive).—André Duparque: The microscopic structure of coals.—Mlle. Yvonne Wahl: Tectonic and stratigraphic observations in the region of the lake of Allos (Basses-Alpes).—J. Savornin: The discovery of native gold at Djebel Mekam, near Berguent (Eastern Morocco).—Maxime Coutin: A layer of molybdenite in Morocco.—R. Cerighelli: The influence of light and temperature on the germination of seeds in the absence of calcium. In the germination of the pea, in the absence of lime, light exerts no influence on the growth of the root and stem, but the temperature has a marked action on each of these organs.—A. Guilliermond: The relations of the vacuolar system with the reticular apparatus of Golgi in plants.—Marcel Brandza: The influence of heat and of rapid evaporation on calcareous myxomycetes living in full sunlight.—Pierre Georgévitch: *Armillaria mellea*, the cause of the drying up of the oak forests of Jugoslavia.—A. Quidor and Marcel A. Hérubel: The monocular perception of relief by direct observation.—H. Simonnet and G. Tanret: The action of ergotinine on the uterus of the guinea-pig.—Pierre Lesne: A coleopterologic Pliocene fauna in the north of England.—Émile André and Mlle. Th. François: Contribution to the study of the oils of marine animals. Researches on cachalot and spermaceti oils.—Mme. Phisalix: The vaccination of the rabbit against intracerebral inoculation of fixed rabies virus, by subcutaneous inoculation of virus-serum mixtures from the viper, the adder, or the hedgehog, with excess of virus.—Loubat and Duférié: The influence of vascular ligatures on experimental gas gangrene.

ROME.

Royal Academy of the Lincei, January 17.—Umberto Cisotti: Mechanical actions of a plane current investing two circular profiles separated by a convenient distance.—Secondo Franchi: Discoveries of Priabonian foraminifera in the Taveyannaz arenaria, confirming the Eocene age demonstrated for the Annot arenaria in 1916.—Harry Levy: Canonical form of the ds^2 for which Riemann's symbols with five indices are annulled.—Alfredo Rosenblatt: The case of general collision in the problem of three bodies.—A. Pontremoli: New investigations on the accidental double refraction of colloids in motion.—Elena Freda: Propagation of stationary electric currents under the action of a magnetic field.—A. Carrelli: The compound photo-electric effect.—Giulio Bemporad: The principle of the arithmetic mean.—G. R. Levi and R. Haardt: The catalytic action of metals of the platinum group and their degree of subdivision (r). Measurement of the dimensions of the granules of a number of preparations of platinum black and spongy platinum shows that it is possible to alter the magnitude of these granules by varying the method of preparation. Reduction of cold chloroplatinic acid by means of aluminium yields granules only five times as large as the elementary cell.—P. Pasquini: The structure of pecten and its morphological and functional significance in the eye of the bird.

Pontificia Accademia delle Scienze (Nuovi Lincei), February 21.—Tonietti: Telluric movement of Amiata at Montalcino.—Luigioni: Specific validity of *Anoxia sicula* Motsch, a beetle of the scarab family.—Gianfranceschi: The law of distribution of energy in the spectrum of the black body.—Scatizzi: A type of derivative of variable index capable of

summing its index with another derivative of the first type.—Silvestri: Invariable radiophonic receiver.

VIENNA.

Academy of Sciences, January 22.—K. Höfler: The iron content and local iron concentration in the cell walls of Desmidiaceæ.—A. Kailan and J. Schroth: The electric conductivity of mixtures of hydrochloric and sulphuric acids with orthophosphoric acids prepared in various ways.—A. Kailan and J. Schroth: The esterification of malonic acid by hydrochloric acid in glycerin.—R. Dworzak: Ester-condensation in relation to the exchange of functional groups under the influence of aluminium ethylate.—B. P. Wiesner: The sexual cycle of the rat. (1) The oestrous rhythm and the oestrous cycle; (2) phases of the sexual cycle; (3) castration and extirpation of the suprarenals; (4) periodicity in the secretory function of the ovary and the oestrous rhythm.—O. Lehmann: Devastation in the Sandling group in the early autumn, 1920.—L. Hofmann: The axonometric theorems of Kruppa and Pohlk in non-Euclidean space. It relates to descriptive geometry and projections and curves of the second degree.—A. M. Hugetz: The influence of the alcoholic components on the velocity of saponification of acetic ester.—M. Skrabal and M. Zlatewa: The velocity of saponification of tetra-acetyl-penta-erythrit.—M. Glässner: New Emyden discoveries in the Vienna basin and fossil species of *Clemmys* in the Mediterranean region.—A. Kieslinger: Geology and petrography of the Kor Alps.

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Catalogue of Indian Insects. Part 10: Stephanidae. By G. R. Dutt. Pp. iii+14. (Calcutta: Government of India Central Publication Branch.) 5 annas; 6d.

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The National Benzole Association. Third Report of the Joint Benzole Research Committee of the National Benzole Association and the University of Leeds. Pp. 20+7 plates. (London: National Benzole Association.)

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Thirteenth Report of the R-search Sub-Committee of the Gas Investigation Committee of the Institution of Gas Engineers. 1: Aeration of Lighting Burners; 2: Determination of Specific Gravity of Gases. Pp. 102-167. Fourteenth Report of the Research Sub-Committee of the Gas Investigation Committee of the Institution of Gas Engineers. The Experimental Gas Plant at Leeds University. Sir Corbet Woodall Memorial. Pp. 168-195. (London: Institution of Gas Engineers.)

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Suomen Geodeettisen Laitoksen Julkaisu: Veröffentlichungen des Finnischen Geodätischen Institutes. No. 5: Schwerkraft und isostatische Kompensation in Norwegen. Von W. Heiskanen. Pp. 33. No. 6: Die Erddimensionen nach den europäischen Gradmessungen. Von W. Heiskanen. Pp. 26. (Helsinki.)

Aeronautical Research Committee. Reports and Memoranda, No. 986 (Ae. 198): On the System of Vortices generated by a Circular Cylinder in Steady Motion through a Fluid. By C. N. H. Lock. (A.I.A. Dynamical Similarity, etc., 58—T. 2044.) Pp. 6+1 plate. 4d. net. Reports and Memoranda, No. 993 (Ae. 204): Note on the Minimum Speed from which the Direction of a Gliding Aeroplane can be changed to a Horizontal Path for Landing. By F. W. Meredith. (A.2.a. Calculations and Model Experiments, 96—T. 2103.) Pp. 5+1 plate. 4d. net. (London: H.M. Stationery Office.)

Transactions of the Royal Society of Edinburgh. Vol. 54, Part 2, No. 7: The Scottish Kames and their Evidence on the Glaciation of Scotland. By Prof. J. W. Gregory. Pp. 395-432. 5s. Vol. 54, Part 2, No. 9: The Geology of Vides, S.W. Iceland; a Record of Igneous Action in Glacial Times. By Dr. Martin A. Peacock. Pp. 441-465+1 plate. 3s. 6d. (Edinburgh: Robert Grant and Son; London: Williams and Norgate, Ltd.)

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