M. Ch. Moureu. An analysis of the gas arising from mineral springs in the region of the Pyrenees. All the gases examined contained argon in amounts varying from 0'9 to 1'8 per cent. Only one of the five samples examined could be shown to contain helium.—On cryolites, by M. E. Baud. A thermochemical paper.—On a new method for the volumetric estimation of hydroxylamine, by M. M. L. J. Simon. Hydroxylamine oxalate can be titrated with potassium permanganate in neutral solution in a perfectly definite manner, and an exact method for the titration of any salt of hydroxylamine can be based upon this fact. - On the method of manufacture of arms of the bronze period, by M. F. Osmond. By the application of the methods of micrographic analysis to specimens of ancient bronze implements, it has been found possible to trace differences in the mode of manufacture, and it is regarded as possible that a methodical study on these lines may lead to the classification of bronze implements with regard to time. - On the composition and constitution of the hydrates of sulphuretted hydrogen, by M. de Forcrand. The method of study is based upon the measurement of the dissociation pressures.—On the dibromide of metho-ethenylbenzene, by M. M. Tiffoneau—On the synthesis of an aromatic hydrocarbon derived from camphor, by M. C. Chabrie. A study of the interaction of benzene and monochlorocamphor in the presence of aluminium chloride .-On a method for transforming monochloro- and monobromoderivatives of hydrocarbons into monoiodo derivatives, by M. F. Bodroux (see p. 233).—On the decomposition of some diand tri-basic organic acids, by MM. (Echsner de Coninck and Malonic, succinic, tartaric, malic and citric acids were heated with glycol, glycerol and with sulphuric acid, and the decomposition products noted. -On the nature of the nitrogen compounds which exist in the soil at different heights, by M. C.

Andre.—Normal hermaphrodism in fishes, by M. Louis

Roule.—Organic variations in carnivorous fowls of the second
generation by M. E-Advis Management of the second generation, by M. Frédéric Houssay.—On the origin of the Nebenkirn and the nuclear movements in the spermatid of Notonecta glauca, by MM. J. Pantel and R. de Sinéty.—On the otocysts of polychætal annelids, by M. Pierre Fauvel.—On the nuclear emissions observed in the Protozoa, by MM. A. Conte and C. Vaney. The conclusion is drawn that the nucleus takes part directly in the formation of zymogen grains, and consequently it is of high importance in the phenomena of digestion, both intracellular and extracellular.—The organisation of Trepomonas agitis, by M. P. A. Dangeard.—On intermediary wood, by M. Paul Vuillemin.—The influence of formaldehyde upon the vegetation of some fresh-water Algæ, by M. Raoul Boullhac. In presence of light, certain moulds can grow in solutions containing small quantities of formaldehyde, and can utilise the latter as food.—On the vegetation of Lake Pavin, by M. C. Bruyant.—On a conidian form of the fungus of black rot, by M. C. Delacroix.—On some connections between the genesis of metalliferous layers and general geology, by M. L. de Launay.—On the age of the old volcanic formations of Martinique, by M. L. Giraud.—On the discovery of a new granitic Houches, by M. E. Haug and P. Corbin. Cryogenin in fevers, by M. Carriero. Cryogenin (metabenzaminosemicarbazide) has a marked effect in lowering the body temperature, especially in the case of fevers, and appears to be free from toxic properties. Its antithermic action is variable, but is especially strong in tuberculous subjects.

DIARY OF SOCIETIES.

THURSDAY, JANUARY 8.

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MATHEMATICAL SOCIETY, at 5.30.—A Method of representing Imaginary Points by Real Points in a Plane: Prof. A. Lodge.—On the Mathematical Expression of the Principle of Huygens: Dr. J. Larmor.—Generational Relations for the Abstract Group simply Isomorphic with the Linear Fractional Group in the Galois Field [2"]: Prof. L. E. Dickson.—Series connected with the Enumeration of Partitions (second paper): Rev. F. H. Jackson.—On the Jacobian of Two Binary Quantics considered Geometrically: Prof. W. S. Burnside.—On the Resolution of some Skew Invariants of Binary Quantics into their Factors in Terms of their Roots: Prof. W. S. Burnside.

Institution of Electrical Engineers, at 8.—Notes of Recent Electrical Design: W. B. Esson.—Notes on the Manufacture of Large Dynamos and Alternators; E. K. Scott.

FRIDAY, Lanuary o.

FRIDAY, JANUARY 9.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Preliminary Note on the Possible Existence of two Independent Stellar Systems: F. A. Bellamy and H. H. Turner.—New Double Stars detected with the 174-inch Reflector in the

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Year 1902: Rev. T. E. Espin.—The Sun's Stellar Magnitude, and the Parallax of Binary Stars: J. E. Gore.
GEOGRAPHICAL ASSOCIATION, at 3.30—The Australian Commonwealth: Sir John A. Cockburn.

MONDAY, JANUARY 12.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Recent Volcanic Eruptions in the West Indies: Dr. Tempest Anderson.

TUESDAY, JANUARY 13.

ROYAL INSTITUTION, at 5 .- Physiology of Digestion: Prof. A. Macfadyen. INSTITUTION OF CIVIL ENGINEERS, at 8 .- Electric Automobiles : H. F.

WEDNESDAY, JANUARY 14.

SOCIETY OF ARTS, at 8 - Industrial Trusts: Prof. W. Smart.

THURSDAY, JANUARY 15.

ROYAL INSTITUTION, at 5 - Pre-Phonician Writing in Crete and its Bearings on the History of the Alphabet; Dr. A. J. Evans, F.R.S. FRIDAY, JANUARY 16.

Institution of Civil Engineers, at 8.—The Measurement of Water: Prof. W. C. Unwin, F.R.S.

ROYAL INSTITUTION, at 9.-Low Temperature Investigations: Prof. Dewar, F.R.S.

Institution of Mechanical Engineers, at 8.—Cutting Angles of Tools for Metal Work, as Affecting Speed and Feed: H. F. Donaldson.

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