

the Fecampia, endoparasitic turtellaria, by MM. M. Caullery and F. Mesnil. The embryogeny of Fecampia is, on broad lines, similar to those described by Metchnikoff, Hallez and Jijima for certain Triclaides and Rhabdoceles.—On a new type of Rhizocephalus, a parasite of the Alpheidae, by M. H. Coutière.—Pathogenic and teratogenic actions, by M. Étienne Rabaud.—Some new attempts at experimental parthenogenesis in Amphibians, by M. E. Bataillon.—On the primitive form of crystallised bodies, by M. F. Wallerant.—On the geological constitution of the western Maroc, by M. S. Brives.—The recent discoveries of the Prince of Monaco at Baoussé-Roussé. A new type of human fossil, by M. R. Verneau. The cave known as the *Grotte des Enfants* has already yielded such valuable results in the hands of M. Rivière that the Prince of Monaco resolved to continue its exploration methodically. The most important result up to the present has been the discovery, at the depth of 7.75 metres, of a human skeleton of a new type, apparently negroid, for which the name of the Grimaldi type is suggested.—Researches on the experimental production of parasitic races of plants by harmful bacteria, by M. L. Lepoutre. Three abundant species of bacteria were studied—*B. fluorescens*, *B. mycoides* and *B. mesentericus vulgatus*—and attempts were made to infect the tubercles of potato plants grown under varying conditions.

DIARY OF SOCIETIES.

THURSDAY, MAY 1.

ROYAL SOCIETY, at 4.30.—Coefficients of the Cubical Expansion of Ice, Hydrated Salts, Solid Carbonic Acid, and other Substances at Low Temperatures: Prof. J. Dewar, F.R.S.—The Conditions determinative of Chemical Change and of Electrical Conduction in Gases, and of the Phenomena of Luminosity: Prof. H. E. Armstrong, F.R.S.—Contributions to a Theory of the Capillary Electrometer: I. The Insulation-Resistance of the Capillary Electrometer, and the Minimum Quantity of Electricity required to produce a Visible Excursion: G. J. Burch, F.R.S.
ROYAL INSTITUTION, at 3.—Recent Geological Discoveries: Dr. A. Smith Woodward, F.R.S.
LINNEAN SOCIETY, at 8.—(1) On the Mammalian Cerebellum, with special reference to the Lemurs; (2) On the Brain of the Elephant Shrew, *Macroscelides proboscideus*: Dr. Elliot Smith.—On the Early Condition of the Shoulder-Girdle in the Polyprotodont Marsupials, *Dasyurus* and *Perameles*: Dr. R. Brown.
INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Automatic Relay Translation for Long Submarine Cables: S. G. Brown.
RÖNTGEN SOCIETY, at 8.30.—The Relation between X-Rays and allied Phenomena in Light and Electricity: Ernest Payne. (*Discussion*.)

FRIDAY, MAY 2.

ROYAL INSTITUTION, at 9.—Experimental Researches on the Constitution of Crystals: A. E. Tutton, F.R.S.

MONDAY, MAY 5.

SOCIETY OF CHEMICAL INDUSTRY, at 8.—On the mixed Carbides of Manganese and Calcium: J. S. Brame and Prof. Vivian B. Lewes.—Dangerous Chemical Substances: Oscar Guttmann.
SOCIETY OF ARTS, at 8.—Glass for Optical Instruments: Dr. R. T. Glazebrook, F.R.S.
VICTORIA INSTITUTE, at 4.30.—Procopius's African Monument of Joshua's Conquest of Canaan: Martin L. Rouse.

TUESDAY, MAY 6.

ZOOLOGICAL SOCIETY, at 8.30.—On the Mammals collected during the Whitaker Expedition to Tripoli: Oldfield Thomas, F.R.S.—The Wild Sheep of the Upper Ili Valley: R. Lydekker, F.R.S.—A List of the Fishes, Batrachians and Reptiles collected by Mr. J. ffolliott Darling in Mashonaland, with Descriptions of new Species: G. A. Boulenger, F.R.S.
SOCIETY OF ARTS, at 8.—The Printing of Modern Illustrated or Decorated Books: C. T. Jacobi.

WEDNESDAY, MAY 7.

ENTOMOLOGICAL SOCIETY, at 8.—On a new Cricket of Aquatic habits, found in Fiji by Prof. Gustave Gilson: Prof. L. C. Miall, F.R.S., and Prof. G. Gilson.—On the Lepidoptera of the Chatham Islands: Edward Meyrick.—On Asymmetry in the Males of Hemarid and other Spingies: Dr. T. A. Chapman.
SOCIETY OF PUBLIC ANALYSTS, at 8.
IRON AND STEEL INSTITUTE, at 10.30 a.m.—Report of Council.—The Bessemer Gold Medal for 1902 will be presented to his Excellency F. A. Krupp, of Essen.—A selection of the following papers will be read and discussed:—Report by the Committee appointed to investigate the Nomenclature of Metallography.—On a New Vacuum Tuyere for Blast Furnaces: H. Allen.—On the Microstructure of Hardened Steel: Prof. J. O. Arnold and A. McWilliam.—On the Compression of Fuel before Coking: J. H. Darby.—On Gas from Wood for use in the Manufacture of Steel: J. Douglas.—On a combined Blast-Furnace and Open-Hearth

Process: P. Eyermann.—On the Physical and Chemical properties of Carbon in the Hearth of the Blast-Furnace: W. J. Foster.—On the Sulphur contents of Slags and other Metallurgical Products: Baron H. von Jüptner.—On the Elimination of Silicon in the Acid Open-Hearth Furnace: A. McWilliam and W. H. Hatfield.—Report on Research Work carried out during the past year: J. A. Mathews.—On the Iron Ore of Brazil: H. Kilburn Scott.—On the Recovery of By-products in Coking: J. Thiry.—On Brinell's researches on the influence of Chemical composition on the soundness of Steel Ingots: Axel Wahlberg.

AUSTRALIAN CHAMBER OF COMMERCE (Australian Club), at 4.—The Coal Resources of Australia: James Stirling.
SOCIETY OF ARTS, at 8.—Origin and History of Carriages: A. Chancellor.

THURSDAY, MAY 8.

IRON AND STEEL INSTITUTE, at 10.30 a.m.—A Selection of Papers from the list given under May 7 will be read and discussed.
ROYAL INSTITUTION, at 3.—Recent Geological Discoveries: Dr. A. Smith Woodward, F.R.S.
SOCIETY OF ARTS (Indian Section), at 4.30.—The Past and Present Connection of England with the Persian Gulf: T. J. Bennett.
MATHEMATICAL SOCIETY, at 5.30.—On Groups in which every two Conjugate Operations are Permutable: Prof. Burnside, F.R.S.—Fermat's Theorem on Binary Powers: H. E. Western.
INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Form of Model General Conditions. (Conclusion of Discussion).

FRIDAY, MAY 9.

COLD STORAGE AND ICE ASSOCIATION (Society of Arts), Afternoon.—The Rationale of Cooling Phenomena: Dr. W. Hampson.—The Business Side of Cold Storage: R. J. Key.
ROYAL INSTITUTION, at 9.—Exploration and Climbing in the Canadian Rocky Mountains: Prof. J. Norman Collie, F.R.S.
ROYAL ASTRONOMICAL SOCIETY, at 8.
MALACOLOGICAL SOCIETY, at 8.

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