

lysing the inulin to levulose.—J. **Sarthou**: The presence in cow's milk of a catalase and an anaerxydase. The statement of M.M. Bordas and Touplain that the insoluble casein of milk is capable of decomposing hydrogen peroxide is denied, and experiments detailed which tend to show that this action is due to a mixture of a physiological catalase and a bacterial catalase.—Louis **Roule**: The structure of the epidermal protuberances of certain Amphibia and their morphological affinities with the nails.—J. **Nageotte**: A new formation of the myeline layer.—J. **Mawas**: The structure of the ganglion nerve cells of the amyelinic cord of the Cyclostomes.—A. **Contamin**: The immunisation against cancer of mice inoculated with tumours modified by the X-rays.—L. **Bull**: The mechanics of insect flight.—C. **Levaditi** and K. **Landsteiner**: Researches on experimental infantile paralysis. The preventive inoculation of animals by means of the dried spinal cord is possible.—A. **Thiroux** and W. **Dufougeré**: A new spirilla from *Cercopithecus patas*. This organism resembles in its morphological characters the *Spirillum duttoni* of tick fever, from which, however, it is distinct. The name *Spirillum pitheci* is proposed.—L. **Cayeux**: The prolongation of the Silurian oolitic iron deposits under the Paris basin.—E. **de Martonne**: The mechanical theory of glacial erosion.—Alfred **Angot**: The value of the magnetic elements at the Val-Joyeux Observatory on January 1, 1910.—E. **Esclangon**: The intensity of gravity and its anomalies at Bordeaux and neighbourhood.—E. **Péroux**: The mineral contents and chemical analysis of the water from the artesian wells of Maisons-Laffitte.—André **Brochet**: New determinations of the radio-activity of the thermal springs of Plombières. These springs are strongly radio-active, this effect being due to the radium emanation.

DIARY OF SOCIETIES.

THURSDAY, JANUARY 20.

ROYAL SOCIETY, at 4.30.—Further Observations on the Pathology of Gastric Ulcer (Progress Report): Dr. C. Bolton.—(1) The Velocity of Reaction in the "Absorption" of Specific Agglutinins by Bacteria, and in the "Adsorption" of Agglutinins, Trypsins, and Sulphuric Acid by Animal Charcoal; (2) On the Absorption of Agglutinin by Bacteria, and the Application of Physico-chemical Laws thereto: Dr. Georges Dreyer and J. Sholto Douglas.—Observations on the Rate of Action of Drugs (Alcohol, Chloroform, Quinine, Aconitine) upon Muscle as a Function of Temperature: Dr. V. H. Veley, F.R.S., and Dr. A. D. Waller, F.R.S.—An Examination of the Physical and Physiological Properties of Tetrachlorethane and Trichlorethylene: Dr. V. H. Veley, F.R.S.—The Action of Antimony Compounds in Trypanosomiasis in Rats: J. D. Thomson and Prof. A. R. Cushny, F.R.S.—"Amakebe" (a Disease of Calves in Uganda): Colonel Sir David Bruce, F.R.S., Captains A. E. Hamerton and H. R. Bateman, R.A.M.C., and Capt. F. P. Mackie, I.M.S.—On Scandium: Sir William Crookes, For. Sec. R.S.

ROYAL INSTITUTION, at 3.—Assyriology: Rev. C. H. W. Johns.

LINNEAN SOCIETY, at 8.—Discussion on the Origin of Vertebrates: Dr. Gaskell, Dr. Gadow, Mr. Goodrich, Prof. Starling, Prof. MacBride, Dr. Smith Woodward, Prof. Dendy.

INSTITUTION OF MINING AND METALLURGY, at 8.—Copper Leaching Plant in the Ural Mountains: A. L. Simon (*Adjoined discussion*).—Some Analyses of Copper Blast Furnace Slags and Determination of their Melting Points: A. T. French.—The Detection of Minute Traces of Gold in Country Rock: A. R. Andrew.—Errors due to the Presence of Potassium Iodide in testing Cyanide Solutions for Protective Alkalinity: B. Collingridge.

FRIDAY, JANUARY 21.

ROYAL INSTITUTION, at 9.—Light Reactions at Low Temperatures: Sir James Dewar, F.R.S.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Ninth Report to the Alloys Research Committee: On the Properties of some Alloys of Copper, Aluminium, and Manganese (with an Appendix on the Corrosion of Alloys of Copper and Aluminium when exposed to the Sea): Dr. W. Rosenhain and F. C. A. H. Lantsberry.

PHYSICAL SOCIETY, at 5.—Saturation Specific Heats, &c., with van der Waals' and Clausius' Characteristics: R. E. Baynes.—The Polarisation of Dielectrics in a Steady Field of Force: Prof. W. M. Thornton.—On the Use of Mutual Inductometers: Albert Campbell.

MONDAY, JANUARY 24.

ROYAL SOCIETY OF ARTS, at 8.—Textile Ornamentation: A. S. Cole.

VICTORIA INSTITUTE, at 4.30.—The Attitude of Science towards Miracles (being the Gunning Prize Essay, 1909): Prof. H. Langhorne Orchard.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Travels in Northern Arabia: D. Caruthers.

TUESDAY, JANUARY 25.

ROYAL INSTITUTION, at 3.—The Cultivation of the Sea: Prof. W. A. Herdman, F.R.S.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.30.—Annual General Meeting.—Presidential Address: The Influence of Environment on Man: Prof. W. Ridgway.

MINERALOGICAL SOCIETY, at 5.30.—On a Group of Minerals formed by the Combustion of Pyritous Shales: S. J. Shand.—A Crystal-holder for Measuring Large Specimens: W. J. Lewis.—Some Observations on Pleochroism: T. Crook.—Notes on the Weight of the "Cullinan"

Diamond and on the Value of the Carat-weight: L. J. Spencer.—On a Basalt from RathJordan, Co. Limerick: G. T. Prior.—On a Fluoro-arsenate from the Indian Manganese Deposits: G. F. H. Smith and G. T. Prior.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Reconstruction of the Tyne North Pier (*Discussion*): I. Collingwood Barling.

WEDNESDAY, JANUARY 26.

ROYAL SOCIETY OF ARTS, at 8.—Goldsmiths' and Silversmiths' Work: O. Ramsder.

GEOLOGICAL SOCIETY, at 8.—On a Skull of Megalosaurus from the Great Oolite of Munchinhampton: Dr. A. S. Woodward.—Problems of Ore-deposition in the Lead- and Zinc-veins of Great Britain: A. M. Finlayson.—On the Vertebrate Fauna found in the Cave-earth at Dog Holes, Warton Crag (Lancashire): J. W. Jackson.

BRITISH ASTRONOMICAL ASSOCIATION, at 5.

THURSDAY, JANUARY 27.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Note on Carbon Monosulphide: Sir James Dewar, F.R.S., and Dr. H. O. Jones.—Long-period Determination of the Rate of Production of Helium from Radium: Sir James Dewar, F.R.S.—On the Extinction of Colour by Reduction of Luminosity: Sir William de W. Abney, K.C.B., F.R.S.—The Initial Accelerated Motion of Electrified Systems of Finite Extent, and the Reaction produced by the Resulting Radiation: George W. Walker.—On the Nature of the Magnetocathodic Rays: H. Thirkill.

ROYAL INSTITUTION, at 3.—Assyriology: Rev. C. H. W. Johns.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Equitable Charges for Tramway Supply: H. E. Yerbury.

FRIDAY, JANUARY 28.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Some Uses of Mechanical Power in Engineering Construction: H. F. Donaldson.

SATURDAY, JANUARY 29.

ESSEX FIELD CLUB (at Essex Museum of Natural History, Stratford), at 6.—Trawl Fishing in the North Sea: S. H. Goodchild.

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