

group of cells as a whole thus is defined some time before differentiation becomes visible.—C. G. Bull: A mechanism of protection against bacterial infection. Bacteria circulating in the blood are quickly removed when they are agglutinated or clumped, and the clumps deposited within the organs are taken up by phagocytes and digested. They appear not to be destroyed by solution or lysis through the operation of serum constituents of the blood.—C. A. Kofoid and Elizabeth B. Christiansen: The life-history of *Giardia*. *Giardia muris* and *Giardia microti* produce a readily recognisable enteritis in mice, and both binary and multiple fission take place in the free non-encysted stage. There is no Octomitus stage. The morphological characters separate six species. The parasite in mice appears to be distinct from that in man.—F. W. Clarke and W. C. Wheeler: The stony corals have been repeatedly analysed and with generally concordant results. Thirty analyses here made have confirmed the older data. The object of the investigation is to determine what each group of organisms contributes to the formation of marine limestones. The highest proportions of calcium phosphate are commonly associated with high values for magnesia.—C. R. Stockard: An experimental analysis of the origin and relationship of blood corpuscles and the lining cells of vessels. Vascular endothelium erythrocytes and leucocytes, although all arise from mesenchyme, are really polyphyletic in origin; that is, each has a different mesenchymal anlage.

BOOKS RECEIVED.

Scientific Ideas of To-day. By C. R. Gibson. Fifth edition. Pp. 344. (London: Seeley, Service and Co., Ltd.) 5s. net.

Mathematics for Machinists. By R. W. Burnham. Pp. viii+229. (New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 5s. 6d. net.

Determinative Mineralogy, with Tables for the determination of Minerals by Means of their Chemical and Physical Characters. By Prof. J. V. Lewis. Pp. vii+155. (New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 6s. 6d. net.

Properties of Steam and Ammonia. By Prof. G. A. Goodenough. Pp. vii+108. (New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 5s. 6d. net.

Wisconsin Geological and Natural History Survey. Bulletin No. xlv. Economic Series. No. 20: The Peat Resources of Wisconsin. By F. W. Huels. Pp. xvii+274. (Madison, Wis.)

Tuberculosis: a General Account of the Disease, its Forms, Treatment, and Prevention. By Dr. A. J. Jex-Blake. Pp. viii+231. (London: G. Bell and Sons, Ltd.) 2s. 6d. net.

DIARY OF SOCIETIES.

THURSDAY, NOVEMBER 25.

ROYAL SOCIETY, at 4.—Special General Meeting to receive the Annual Report of Council: at 4.30.—The Measurement of the Rate of Heat Loss at Body Temperature by Convection, Radiation and Evaporation: M. Flack, O. W. Griffith and L. Hill.—The Growth of the Body in Man; The Relationship between the Body Weight and the Body Length (Stem Length) E. W. A. Walker.—The Rate of Absorption of Various Phenolic Solutions by Seeds of *Hordeum vulgare* and the Factors Governing the Rate of Diffusion of Aqueous Solutions across the Semi-permeable Membranes: Prof. A. J. Brown and F. Tinker.—The Controlling Influence of Carbonic Dioxide. Part III. The Retarding Effect of Carbon Dioxide on Respiration: F. Kidd.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Some Difficulties of Design of High-speed Generators: Prof. A. B. Field.

OPTICAL SOCIETY, at 8.—The Influence of Visual Errors in Musketry: J. H. Sutcliffe.

FRIDAY, NOVEMBER 26.

PHYSICAL SOCIETY, at 5.—Obtaining and Maintaining a Bright Hydrogen Spectrum, with special reference to the 4341 Line: J. Guild.—Determination of the Coefficient of Diffusion of Potassium Chloride by an Analytical Method. Dr. A. Griffiths.—Apparatus for Evaluating Elliptic Integrals: A. F. Ravenshear.

MONDAY, NOVEMBER 29.

ROYAL SOCIETY OF ARTS, at 4.30.—Optical Glass: Dr. W. Rosenhain. MEDICAL SOCIETY, at 8.30.—Gas Poisoning: Physiological Symptoms and Clinical Treatment: Dr. Leonard Hill.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—The Railway Development of Africa, Present and Future: Sir Charles Metcalfe, Bart.

TUESDAY, NOVEMBER 30.

ROYAL SOCIETY OF ARTS, at 4.30.—Recent Developments in Jamaica; Internal and External: Sir Sydney Olivier.

INSTITUTION OF CIVIL ENGINEERS, at 5.30.—Harbour and Coast-Defence Works at Alexandria: D. E. Lloyd-Davies.—Galvan Port, Bahia Blanca, Argentine: C. A. Terry.

WEDNESDAY, DECEMBER 1.

ROYAL SOCIETY OF ARTS, at 4.30.—Insects and War: Dr. A. E. Shipley.

GEOLOGICAL SOCIETY, at 5.30.—The Petrological Microscope; New or Little-known Methods and Accessories: Dr. J. W. Evans.

ENTOMOLOGICAL SOCIETY, at 8.

SOCIETY OF PUBLIC ANALYSTS, at 8.—The Microchemistry of some Alkaloids: Dr. G. D. Lander.—The "Presumptive Coli Test" on Unchilled Water: W. Partridge. Notes on Methods of Analysing Oleaginous Seeds and Fruits: E. R. Bolton.

THURSDAY, DECEMBER 2.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Note on the Existence of Converging Sequences in certain Oscillating Successions of Functions: W. H. Young.—The Emulsifying Action of Soap; a Contribution to the Theory of Detergent Action: S. A. Shorter and S. Ellingworth.—The Newtonian Constant of Gravitation as affected by Temperature: P. E. Shaw.—Skin Friction of the Wind on the Earth's Surface: G. I. Taylor.

FRIDAY, DECEMBER 3.

GEOLOGISTS' ASSOCIATION, at 7.30.—Some Features of the Antarctic Ice: J. D. Falconer.

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