

Mould them. By C. V. Boys, F.R.S. New and enlarged edition. Pp. 190. (London. S.P.C.K.) 3s.

Die Partiellen Differential-Gleichungen der Mathematischen Physik. Nach Riemann's Vorlesungen. By Prof. H. Weber. In fünfter Auflage. Zweiter Band. Pp. xiv+575. (Braunschweig: F. Vieweg & Sohn.) 15 marks.

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DIARY OF SOCIETIES.

THURSDAY, JANUARY 18.

ROYAL SOCIETY, at 4.30.—The Physiological Effects of Low Atmospheric Pressures, as observed on Pike's Peak, Colorado (Preliminary Communication): Dr. J. S. Haldane, F.R.S., C. G. Douglas, Prof. Y. Henderson, and Prof. E. C. Schneider.—On the effect of altitude on the dissociation curve of the blood: J. Barcroft, F.R.S.—Note on *Astrosclepa willeysana* Lister: R. Kirkpatrick.—*Herpetomonas pediculi*, nov. spec., parasitic in the Alimentary Tract of *Pediculus vestimentii*, the Human Body Louse: Dr. H. B. Fantham.—Antelope Infected with *Trypanosoma gambiense*: Capt. A. D. Fraser, R.A.M.C., and Dr. H. L. Duke.

ROYAL INSTITUTION, at 3.—The New Astronomy: Prof. A. W. Bickerton.

LINNEAN SOCIETY, at 8.—Some Features of the Marine Flora of St. Andrews: Dr. A. Anstruther Lawson.

ROYAL SOCIETY OF ARTS, at 4.30.—The Old District Records of Bengal: Rev. W. K. Firminger.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—*Adjourned Discussion*: Residence Tariffs: A. H. Seabrook.

INSTITUTION OF MINING AND METALLURGY, at 8.—A Submerged Flexible-joint Main: F. Reed.—Unwatering Tresavean Mine: C. Brackenbury.—Notes on the Operation of Two Winding Engines: H. M. Morgans.—Stopping at the Calamon Mine: C. P. Corbett Sullivan.

FRIDAY, JANUARY 19.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—The Evolution and Present Development of the Turbine Pump: Dr. Edward Hopkinson and Alan E. L. Chorton.

ROYAL INSTITUTION, at 9.—Heat Problems: Sir J. Dewar, F.R.S.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Turbo-blower and Turbo-compressor: G. Ingram.

SATURDAY, JANUARY 20.

ROYAL INSTITUTION, at 3.—The Banyoro—A Pastoral People of Uganda; (1) The Milk Customs: Rev. J. Roscoe.

MONDAY, JANUARY 22.

ROYAL SOCIETY OF ARTS, at 8.—Ocean Waves, Sea-beaches, and Sand-banks: Dr. Vaughan Cornish.

ARISTOTELIAN SOCIETY, at 8.—The Relation of Willing to Cognition: Prof. G. Dawes Hicks.

AERONAUTICAL SOCIETY, at 8.30.—The Development of Animal Flight: Dr. E. H. Hankin.

VICTORIA INSTITUTE, at 4.30.—The Conditions of Habitability of a Planet, with special reference to the Planet Mars: E. W. Maunder.

TUESDAY, JANUARY 23.

ROYAL INSTITUTION, at 3.—The Study of Genetics: Prof. W. Bateson, F.R.S.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—Anniversary Meeting.—8.30.—Some American Problems: A. P. Maudslay.

MINERALOGICAL SOCIETY, at 5.30.—The Relationship between Crystalline Form and Chemical Constitution; the Double Chromates of the Alkalies and Magnesium: Miss M. W. Porter and Dr. A. E. H. Tutton.—On Liveingite: Prof. W. J. Lewis.—A New Anorthic Mineral from the Binnenthal: R. H. Solly and Dr. G. F. H. Smith.—On Colemanite and Neocolemanite: Dr. A. Hutchinson.—Further Observations on the Optical Characters of Gypsum: Dr. A. Hutchinson and Dr. A. E. H. Tutton.—Note on a Large Crystal of Anatase from the Binnenthal: Dr. G. F. H. Smith.

INSTITUTION OF CIVIL ENGINEERS, at 8.—*Further Discussion*: Reinforced Concrete Wharves and Warehouses at Lower Pootung, Shanghai: S. H. Ellis.—The Direct Experimental Determination of the Stresses in the Steel and in the Concrete of Reinforced-Concrete Columns: W. C. Popplewell.—Composite Columns of Concrete and Steel: W. H. Burr.—*Probable Paper*: The Central Heating and Power-plant of McGill University, Montreal: R. J. Durlay.

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WEDNESDAY, JANUARY 24.

ROYAL SOCIETY OF ARTS, at 8.—A New Process of Hydraulic Separating and Grading: W. J. Gee.

GEOLOGICAL SOCIETY, at 8.—The Upper Keuper (or Arden) Sandstone and Associated Rocks of Warwickshire: Dr. C. A. Matley.

THURSDAY, JANUARY 25.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Determination of the Co-efficient of Interdiffusion of Gases and the Velocity of Ions under an Electric Force, in terms of Mean Free Paths: Prof. J. S. Townsend, F.R.S.—Note on the Scattering of a Particles: Dr. H. Geiger.—The Effect of Temperature upon Radioactive Disintegration: A. S. Russell.—On the Relation between Current, Voltage, Pressure, and the Length of the Dark Space in Different Gases: F. W. Aston and H. E. Watson.—On the Viscosities of Gaseous Chlorine and Bromine: Dr. A. O. Rankine.—The Testing of Plane Surfaces: Dr. P. E. Shaw.

ROYAL INSTITUTION, at 3.—The New Astronomy: Prof. A. W. Bickerton.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Heat Paths in Electrical Machinery: Miles Walker and H. D. Symons.

FRIDAY, JANUARY 26.

ROYAL INSTITUTION, at 9.—The Pressure of a Blow: Prof. B. Hopkinson, F.R.S.

PHYSICAL SOCIETY, at 5.—Exhibition of a Direct-reading Instrument for Submarine Cable and other Calculations: R. Appleyard.—On the Vibration Galvanometer and its Application to Inductance Bridges: S. Butterworth.—Note on a Negative Result connected with Radio-activity: J. H. Vincent and A. Bursill.—On Sealing-metals: Dr. P. E. Shaw.—Krypton and the Auroral Spectrum: T. W. Page.

SATURDAY, JANUARY 27.

ROYAL INSTITUTION, at 3.—The Banyoro: A Pastoral People of Uganda; (2) Birth and Death Customs: Rev. J. Roscoe.

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