University, Baltimore. THE Calendar of the University College, North Wales, for the year 1895-96, has been received. The physical, chemical, and biological laboratories (plans of which are given in the Calendar) now cover an extensive area. Under Prof. Andrew Gray, the physical department has greatly developed; and the appliances and electrical installation with which it is equipped enable the College to offer a complete course of instruction in all branches of electro-technical education.

SOCIETIES AND ACADEMIES.

PARIS.

Academy of Sciences, October 14 .- M. Janssen in the chair.—The decease of Baron Larrey, free member, was an-nounced from the chair. He died on October 8. M. Émile Blanchard pointed out the great influence of the deceased in modern surgery.-The Prince of Monaco has sent to the Academy No. ix. of his publications concerning the scientific work done on his yacht : a contribution to the study of the Cephalopods of the North Atlantic, by M. Louis Joubin.-On a mechanical amplification of the horizontal component of the earth's rotation, by M. Jules Andrade.—On a hydraulic apparatus to show the movement of rotation of the earth, by M. Aug. Coret.—M. Aug. Fabre, in a memoir on "Integration of the acutation to the defined period by the first of the of the equation to the derived partials of the first order, of a function \hat{x} with *n* independent variables x_1, x_2, x_3 , gives a quick new method of arriving at the general integral of an equation μ $(x, x_1, x_2, \ldots, x_n, \rho_1, \rho_2, \ldots, \rho_n) = 0.$ -M. J. Janssen, in the name of the Bureau des Longitudes, presented the 1898 volume of "Connaissance des Temps." There has been added to the tables concerning the satellites of planets, a table giving the elements for the calculation of the position of Mars' satellites at any given moment. In the ephemerides of the fundamental stars, the brightness of those above the first magnitude has been given, taking Aldebaran as unit.—The Perpetual Secretary announced to be printed in the Correspondence, "Theorie der endlichen Gruppen von eindeutigen Transformationen in der Ebene," by M. S. Kantor. On a class of linear equations to the derived partials, by M. H. von Koch -On the surfaces of which the lines of curvature form a network with equal tangential invariants, by M. A. Thybaut.-On the double elliptic refraction and the tetrarefringence of quartz near its axis, by M. G. Quesneville.—On the estimation of argon, by M. Th. Schlæsing. An apparatus with circulating mercury pump is described, which allows of the absorption of nitrogen and measurement of the residual argon. The whole arrangement is a modified form of Ramsay's apparatus for indicating and the action of Ramsay's apparatus for isolating argon.—On the action of hydrochloric acid on copper, by M. R. Engel. Copper decomposes a saturated solu-tion of hydrogen chloride at 15°C., with liberation of hydrogen. This interaction does not occur if the concentration be less than that shown by the formula $HCL toH_2O$. The presence of cuprous chloride retards the reaction greatly.—Action of potash and potassium ethoxide on benzoquinone, by M. Ch. Astre.— On combinations of antipyrine with the diphenols, influence of the respective positions of the hydroxyl groups, by MM. G. Patein and E. Dufau. Pyrocatechol, resorcinol, and quinol (hydroquinone) behave differently with regard to antipyrine; the orthoand para-diphenols combine with two molecular proportions, the meta-with one. The combination occurs through one of the nitrogen atoms and the phenolic hydroxyl, which loses this property when its hydrogen is replaced by a metal or radical.— Experiments on the reducing power of pure yeasts, means of measuring it, by M. Nastukoff.

BOOKS, PAMPHLETS, and SERIALS RECEIVED. BOOKS, PAMPHLETS, and SERIALS RECEIVED. Books.-Elements of the Mathematical Theory of Electricity and Mag-netism: Prof. J. J. Thomson (Cambridge University Press).-Elementary Physiology: Prof. J. R. A. Davis (Blackie).-A Directory of Science, Art and Technical Colleges, Schools and Teachers in the United Kingdom: R. S. Lineham (Chapman and Hall).-A Manual of Physiology: Dr. G. N. Stewart (Baillière).-Movement: F. J. Marey, translated by E. Pritchard (Heinemann).-Frail Children of the Air: S. H. Scudder (Boston, Hough ton),-Darwin and after Darwin: Dr. G. J. Romanes, ii. (Longmans).-

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Among Rhode Island Wild Flowers: Prof. W. W. Bailey (Providence, R.I., Preston).—Pagan Ireland : W. G. Wood-Martin (Longmans).—First Steps in Egyptian : Dr. E. A. W. Budge (K Paul).—Birdcraft : M. O. Wright (Macmillan).—Fishes, Living and Fossil : Dr. B. Dean (Mac-millan).—Science and Art Drawing : J. H. Spanton (Macmillan).—Great Astronomers : Sir R. S. Ball (Isbister).—telektrophysiologie : Prof. W. Biedermann, Zweite Abthg. (Jena, Fischer).—Protobasidiomyceten : A. Möller (Jena, Fischer).—The Tallerman.Sheffield Patent Localised Hot-Air Bath (Baillière).—University College of North Wales, Bangor, Calendar for the Year 1895-6 (Manchester, Cornish).—Atlas d'Ostéologie : Prof. C. Debierre (Paris, Alcan).—Evolution and Effort : E. Kelly (Macmillan).—At Handbook of British Lepidoptera : E. Meyrick (Macmillan).—Surface Cur-rents of the Great Lakes : M. W. Harrington, revised edition (Washington). —Annuario p. Observatorio do Rio de Janeiro, r895 (Rio de Janeiro).— U.S. Geological Survey Report, 1892–93, 2 parts (Washington). —Annuario p. Observatorio do Rio de Janeiro, r895 (Rio de Janeiro).— U.S. Geological Survey Report, 1892–93, 2 parts (Mashington). —Ment States : Sir J. Crichton-Browne (Baillière).—The People's Stone-henge : Dr. A. Weismann (Jena, Fischer).—Cavendish Lecture on Dreamy Mental States : Sir J. Crichton-Browne (Baillière).—The People's Stone-henge : J. Cole (Sutton).—Ivron and Stele Institute : Presidential Address Sir D. Dale ; Metal Mixers : A. Cooper ; The Effect of Arsenic on Steel Projectiles in Russia ; S. Kern ; Ternary Alloys of Iron with Chromium, Molybdenum, and Tungsten : J. S. de Benneville (Victoria Street).—The Siouan Tribes of the East : J. Mooney (Washington).—Achtaeologic In-vergingtions in James and Potomac Valleys; G. Fowke (Washington).— Chinok Cexts : F. Eoas (Washington). Achtaeologic In-vergington).—Jarbuch der k.k. Geologischen Reichsanstl, xlv, Band, 14eft (Wien).—Societa Reale di Napoli, atti della Reale Accademia delle Sicmaz Fisiche e Matematiche, serie second, V

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