

UNIVERSITY AND EDUCATIONAL  
INTELLIGENCE.

OXFORD.—The following are among the lectures and practical courses announced for the present term:—General Pathology, Sir J. Burdon-Sanderson; The Chemical Processes of the Body, Prof. F. Gotch; Elementary Physiological Chemistry, W. Ramsden; Practical Histology, G. Mann; Elementary Medicine, W. Collier; Minor Surgery, A. Winkfield; Human Osteology, Prof. A. Thomson; Analytic Theory of Plane Curves, and Synthetic Theory of Plane Curves, Prof. W. Esson; Elementary Mathematical Astronomy, Prof. H. Turner; Physical Crystallography, Prof. H. Miers; Practical Crystallography, H. Bowman; Electricity and Magnetism, Prof. A. Love; Theory of Numbers, Prof. E. Elliott; General Morphology, and Variation Inheritance and Natural Selection, Prof. W. Weldon; Experimental Physics, Prof. R. Clifton; Structure of Simple Machines, Rev. F. Jervis-Smith; Silicon and Boron Compounds, Prof. W. Odling; Subjects of the Preliminary Examination in Chemistry, Dr. W. Fisher; Organic Chemistry, J. Watts; Physical Chemistry, V. Veley; Metabolism, J. Haldane; Muscular Activity, Prof. F. Gotch; Physiological Physics, G. Burch; Physical Geology, and Jurassic Fossils, Prof. W. Sollas; Elementary Botany, Prof. S. Vines; Classification of Mankind by Race, Language and Civilisation, Prof. E. Tylor; Bacon, and the Organon of Aristotle, Prof. T. Case; Mental Evolution, G. Stout; Inference and Scientific Method, J. Cook Wilson.

CAMBRIDGE.—Mr. John Sealy Edward Townsend, who entered the University as an Advanced Student in Physics, was on October 9 elected to a Fellowship in Trinity College.

Dr. W. E. Dixon, late Salters' Research Fellow in Pharmacology, has been appointed Assistant to the Downing Professor of Medicine.

Dr. L. Humphry has been appointed Assessor to the Regius Professor of Physic.

A Scholarship of 50*l.* in Natural Science will be open for competition at Downing College to members of the University of less than four terms' standing on Monday, November 27. Applications are to be made to the Tutor.

Studentships for research have been awarded at Emmanuel College to R. G. K. Lempfert and B. W. Head.

A GENERAL meeting of Convocation of the University of London was held on Tuesday to receive an interim report from the special committee appointed on June 27 to make representations to and to confer with the London University Commissioners, the Senate, and other bodies with reference to the scheme of the Royal Commission. On the subject of faculties contemplated under Section 10 of the Schedule of the University of London Act, the special committee made various recommendations, among which the following may be noticed:—There should be only one faculty of science with adequate representation on the Senate and the Academic Council. Engineering should be a distinct branch of the one faculty of science and not a separate faculty, but degrees should be given in engineering bearing a distinctive name. If it should be thought expedient to constitute a distinct branch of the faculty of science for any other scientific profession, there is not, in the opinion of the committee, any present occasion for giving a distinctive name to degrees to be taken in that branch. If, contrary to the opinion of the committee, the subjects of the faculty of science should be divided by the commissioners, for electoral purposes, into several faculties, the committee hope they may be afforded an opportunity of giving further consideration to the principles upon which such division should be effected, especially in connection with the effect which the division would have upon the University examinations and degrees. After discussion it was decided "that the report be received subject to the reconsideration by the committee of such points, if any, as this house may deem advisable."

SOCIETIES AND ACADEMIES.

PARIS.

Academy of Sciences, October 2.—M. van Tieghem in the chair.—The Mayor of Chantilly informed the Academy that the inauguration of the statue erected to the Duc d'Aumale would take place on October 15.—Orbit of the shooting star of August 24, by M. J. Comas Sola. This meteor, which was a very bright one, was observed at the Observatory of Català, had a relative

direction nearly east to west, disappearing near  $\alpha$ -Capricorn. Its absolute velocity was 50 kilometres per second. A similar meteor was observed on August 28 at 7.45, but of smaller lustre.—On the identity of solution of certain problems of elasticity and hydrodynamics, by M. Georges Poisson. In a note presented to the Academy on May 2, 1898, M. Maurice Lévy remarked that in problems of elasticity in two dimensions the distribution of the pressures is independent of the value of the elastic coefficients. In the present note it is shown that in this case the determination of the pressures may often be reduced to the study of the permanent motion of a liquid.—On two chlorobromides of tungsten, by M. Ed. Defacqz. In an attempt to prepare tungsten hexabromide, tungsten hexachloride was sealed up with liquid hydrobromic acid in excess, and the whole heated at 70° for four hours. The resulting product was not the desired hexabromide, but a chlorobromide having approximately the composition  $WCl_6 \cdot 3WBr_6$ . In a second similar preparation the tube was not heated, but left for three days at the temperature of the laboratory; the substance obtained was another chlorobromide, represented by the formula  $WCl_6 \cdot WBr_6$ .—On copper hypophosphite and its decomposition by precipitated palladium, by M. R. Engel. Aqueous solutions of copper sulphate and barium hypophosphite are mixed in equal molecular proportions, the solution filtered, and the copper hypophosphite precipitated in the crystalline form by the addition of alcohol in excess. The solution of the salt is decomposed in a remarkable manner by the addition of precipitated palladium, copper being thrown down and hydrogen gas evolved according to the equation

$$Cu(PO_3H_2)_2 + 2H_2O = Cu + 2H_3PO_3 + H_2,$$

no copper hydride being formed. In the absence of palladium the copper hypophosphite is decomposed differently by heat, copper hydride being first formed, and then metallic copper, phosphorous and hypophosphorous acids.—Salicylic and paroxybenzoic aldehydes and salicylhydramide, by MM. Delépine and Rivals. A thermochemical paper.—On a double monstrosity observed in the blastoderm of a fowl's egg in the course of formation, by MM. Bonmariage and Petrucci.—Completion of some observations on the Alps of the Vaudois, by M. Stanislas Meunier.—On an aerial voyage of long duration, from Paris to the Mediterranean, carried out on September 16 and 17, by M. Gustave Hermite.—Barometric deviations on the meridian of the sun on successive days of the tropical revolution of the moon, by M. A. Poincaré.

CONTENTS.

PAGE

Verworn's "General Physiology." By W. B. Hardy	565
Our Book Shelf:—	
Hopwood: "Living Pictures"	567
Pullen: "Tables and Data"	567
Letters to the Editor:—	
Halo Round a Shadow.—A. Mallock	567
The Skull of Hatteria.—Prof. W. Blaxland Benham	567
The Best Education for an Engineer. By W. E. A. Research Work and the Opening of the Medical Schools. By F. W. T.	569
Dark Lightning Flashes. (Illustrated.) By Dr. William J. S. Lockyer	570
Notes	574
Our Astronomical Column:—	
Comet Giacobini (1899 E)	577
Holmes' Comet (1899 d)	577
The Rotation of the Sun	577
The Polaris Multiple Star	577
Astronomical Camera Doublets	578
Observation of Leonids	578
The Freedom of the City of Manchester. By W. T. L.	578
Visit of the Institution of Electrical Engineers to Switzerland, August 31 to September 8. By Prof. Richard Threlfall, F.R.S.	578
The British Association:—	
Section K.—Botany.—Opening Address by Sir George King, K.C.I.E., F.R.S., President of the Section	581
Mathematics at the British Association	584
Physics at the British Association	585
University and Educational Intelligence	588
Societies and Academies	588