

## University Events

CAMBRIDGE.—The Adams Prize, offered every two years for an essay on some branch of pure mathematics, astronomy, or other branch of natural philosophy, value £246, has been awarded to Mr. W. V. D. Hodge, Pembroke College. Essays of great distinction were submitted by Mr. T. Groom, St. John's College, Dr. J. A. Todd, Trinity College, and Dr. P. Du Val, Trinity College.

At St. John's College, the following have been elected into fellowships: Dr. A. C. Offord, Keddey Fletcher-Warr Student in mathematics, University of London, 1934-37; F. Smithies, Wrangler and B, Part II, Mathematical Tripos, 1933, Baylis Student, 1934, Rayleigh Prize, 1935, Carnegie Fellow, 1935-37; R. A. Lyttleton, Clare College, Wrangler and B, Part II, Mathematical Tripos, 1933, Tyson Medal for Astronomy, 1933, Procter Fellow at Princeton University, 1935-37.

The Buildings Syndicate recommends that a site be assigned for the new Austin Wing of the Cavendish Laboratory.

C. C. Okell, of St. John's College, has been approved for the degree of Doctor of Science.

At Emmanuel College Dr. R. G. W. Norrish, professor of physical chemistry in the University, has been elected into a professorial fellowship.

It is proposed that a Mathematical Laboratory be constituted as a Department in the Faculty of Mathematics, that the head of the Department be the director of the Mathematical Laboratory, and that Prof. Lennard-Jones be appointed director of this Laboratory.

Proposals are before the University for the addition of metallurgy to the list of subjects which may be taken in Part II of the Natural Sciences Tripos.

MANCHESTER.—The resignation is announced of Prof. W. L. Bragg, since 1919 Langworthy professor of physics, who has built up in the University a school of research well known for its investigations of the solid state of matter. Prof. Bragg has been appointed director of the National Physical Laboratory (see p. 829).

## Societies and Academies

### Paris

Academy of Sciences (*C.R.*, 204, 1049-1092, April 5).

CHARLES ACHARD, AUGUSTIN BOUTARIC and M<sup>lle</sup>. PAULETTE BERTHIER: Researches on the viscosity of solutions of bile. Viscosity data from three specimens of ox bile in aqueous solutions at concentrations varying from 5 to 100 per cent, and discussion of the results applying the formulæ of Einstein and of Kunitz.

LUCIEN MALAVARD: The method of electrical analogies for the calculation of the wall corrections [of wind tunnels].

ETIENNE KONDROR: The Caquot theory of the equilibrium of soils.

M<sup>lle</sup>. MARIE BLOCH: The spectrum of Nova Lacertæ 1936, slightly after the maximum brightness. Comparison of the spectra of Nova Lacertæ and Nova Herculis.

GEORGES ALLARD: An expression for the mean electrical density of a complex atom.

NY TSI-ZÉ and SHANG KENG-YI: The vibrations of plates of quartz cut in various planes around the optical axis of the crystal. The relations found by experiment between the angle starting with the Curie section and the frequency are given as curves.

THÉODORE V. IONESCU: Calculation with the aid of the quantum theory of the energy emitted by an antenna.

RENÉ FREYMAN: The two infra-red (OH) bands of the alcohols and the polyalcohols: molecular associations.

ANDRÉ MICHEL: The relations between the different solid solutions formed by ferrous sulphide.

LOUIS BOUCHET: The colloidal state caused by various specimens of zinc acting on some natural waters.

MICHEL CYMBOLISTE: The hardness of electrolytic chromium. The hardness varies with the current density, the temperature and the chromate concentration. Deposits of chromium, with hardness varying between 1,200 and 400 (Brinell), can be obtained at will by varying the above factors.

MAURICE GIRARD: The influence of the replacement of a hydrogen atom in the  $\beta$  position by a methyl group in phenyl- $\alpha$ -oxycrotonic acid.

PAUL CHOVIN: Researches on the Pechmann colouring matters. The synthesis of some colouring matters with unlike substituents.

VSEVOLAD DE GOLOUBINOFF: Differential geochemical prospecting of mineral deposits.

VLADIMIR FROLOW: The analysis of the levels of Lake Ontario.

FRANTISEK LINK: Influence of the season and of the climate on astronomical refraction and the distribution of air masses.

ANDRÉ EICHHORN: Nuclear evolution and chromosome enumeration in *Begonia Pictaviensis*.

RENÉ VANDENDRIES: New views on the sexuality of the Basidiomycetes.

PIERRE CARRÈRE: Some metacercaria of *Atherina mochon*; the experimental development of a Gastrostomid.

CONSTANTIN DAWYDOFF: The Gastrosdes of Indo-Chinese waters and some observations on their evolutionary cycle.

MICHEL POLONOVSKI, GASTON BIZARD and HENRI WARENBOURG: The action of insulin on the muscular glycogenolysis in the dog.

### Brussels

Royal Academy (*Bull. Classe Sci.*, 23, No. 1, 1937).

L. GODEAUX: Some algebraic hyperspatial surfaces.

T. DE DONDER and MISS Y. DUPONT: New theory of the dynamics of continuous systems (4). Application to elastic bodies.

H. SCHOTS: The square of squares. To form a magic square for which all lines, diagonal and orthogonal, are bimagic, requires  $64^2$  elements.

E. ANGLADE: Certain Laplacian sequences associated with a ruled surface.

R. GODEAU: Asymptotic lines and the equation of Lagrange.

S. DE BACKER: Viscous fluids and propagable waves.

J. P. BOSQUET: Propagation of acoustical energy in perfect fluids.