

## University Events

CAMBRIDGE.—At King's College, K. P. Harrison and O. L. Zangwill have been awarded Harold Fry studentships, and D. S. Evans has been awarded a Martin Thackeray studentship. At Clare College, Denman Baynes research studentships have been awarded to J. V. Dunworth and T. E. Easterfield for natural sciences and mathematics respectively. At Emmanuel College the external research studentship offered to graduates of other universities intending to commence residence as research students in October next has been awarded to A. G. Ward (Queen's University, Ontario) for research in physics.

DURHAM.—The title of emeritus professor has been conferred on Prof. W. M. Thornton from the date of his retirement at the end of the session 1936–37. Prof. Thornton has been professor of electrical engineering since 1906.

Dr. Emrys Williams has been appointed lecturer in electrical engineering in succession to Dr. J. A. Wilcken, who has resigned, upon his appointment as assistant editor of *Science Abstracts* issued by the Institution of Electrical Engineers.

## Societies and Academies

### Paris

Academy of Sciences, June 28 (*C.R.*, 204, 1909–1992).

ALFRED LACROIX: A new basaltic type, comparable, from the chemico-mineralogical point of view, with the felspathic meteorites.

MME. HILDA GEIRINGER: Chance variables arbitrarily connected. Case of convergence according to the law of Gauss.

FUMIMOTO MAEDA: Nuclei of the Fourier type.

LÉON BESCHKINE: The general solution of rectangular plates (plane problems).

JEAN ROUBAUD-VALETTE: A generalization of the operation of Dirac.

GEORGES DARIEUS: A new form without singularities of the electrodynamic of Born.

ALEXANDRE DUFOUR and FERNAND PRUNIER: The observation of the Sagnac phenomenon by an immobile observer.

JEAN LECOMTE, HENRI VOLKRINGER and ARAKEL TCHAKIRIAN: The infra-red and Raman spectra of the chlorobromomethanes.

PIERRE MESNAGE: The molecular emission spectra of some metallic salts.

H. BIZETTE and M. SCHERER: Anomalies of the magnetic rotatory dispersion of sulphuric acid solutions of tellurium.

MAURICE COTTE: The calculation of the influence of the space charge in electronic optics.

JACQUES SOLOMON: The origin of the quadrupolar moments of the atomic nuclei.

MAURICE DODÉ: The dissociation of native zinc carbonate, a reaction in which a mixed condensed phase intervenes.

RENE DELAPLACE: The vapour pressure of gaseous saturated hydrocarbons at low temperatures in the presence of silica gel. Pressures are given for methane, ethane, propane, normal and isobutane at temperatures ranging from  $-25^{\circ}\text{C}$ . to  $-171^{\circ}\text{C}$ . Some quantitative separations of these hydrocarbons can be carried out by this method.

JEAN COURNOT and MME. LOUISE HALM: Studies on the corrosion of magnesium and some ultra-light alloys protected by deposits on the surface.

MME. LÉONE WALTER-LÉVY: Magnesium basic chlorocarbonate.

M. LEMARCHANDS and P. PIERRON: The action of bromine on yellow mercuric oxide.

MAXENCE MEYER: The thermal decomposition of the  $\alpha$ -diethoxydiacids.

JULIEN DURAND: The major irregularities of the crystalline country of Rouergue and of Albigeois.

RENÉ ABRARD and EDGAR AUBERT DE LA RÛE: The existence of the upper Neogene with *Cycloclipeus* at the islands of Epi and Malekula (New Hebrides).

EUGÈNE RAGUIN and HENRI VINCIENNE: An exceptional (hypothermal) type of lead-bearing deposit in the Montagne-Noire.

MME. JANE MANUEL: The sexuality of the principal species of the genera *Saccharomyces*, *Hansenula* and *Pichia*.

LOUIS BOUNOURE: The constitution of the genital glands in the russet frog after extensive destruction of the germinal line by the action of ultra-violet rays on the egg.

GEORGES CARRIÈRE, PIERRE JEAN GINESTE and EMILE LAINE: The action of the thyroid body on the thymus.

STEPHAN JELLINEK: Cells with regular geometric deformations without traces of heat action. The action of ultra-short waves (6 metres, 500 watts) on the larvæ of *Salamandra maculosa*.

### Moscow

Academy of Sciences, *C.R.*, 15, No. 3, 1937.

N. ACHYESER and M. KREIN: The best approximation of periodic functions derived by summation of trigonometric series.

H. HILMY: The theory of quasi-minimal ensembles.

R. O. KUZMIN: The distribution of values of some arithmetical functions.

B. FESSENKOFF: (1) Eclipses of the moon and the distribution of atmospheric ozone. (2) The infinite universe and the luminosity of the night sky.

N. A. ŠIŠAKOV: An investigation of structures of silica glass, pozzolans and clays by means of electron diffraction (see also *NATURE*, May 29, p. 927).

S. ŠUBIN and A. SMIRNOV: The scattering of light by the electrostatic field of a point charge from the point of view of the non-linear quantum electrodynamics.

L. I. BELAJEV: Pseudo-extraction and some specific properties of films obtainable thereby.

M. I. DEMENTJEVA, A. V. FROST and E. K. SEREBRIAKOVA: Equilibrium hydrogenation of *n*-butylenes to butadiene,  $n\text{-C}_4\text{H}_8 \rightleftharpoons \text{C}_4\text{H}_6 + \text{H}_2$ .

A. S. SEREBROVSKIJ: Analysis of the allobalance of a chromosome by two markers. Utilization of several quantitative characters simultaneously.

M. F. TERNOVSKIJ: Amphidiploid shoots of the  $F_1$  hybrid *Nicotiana tabacum* L.  $\times$  *N. sylvestris* Spag. et Comes.

V. P. OSTRJAKOVA-VARSAYER: *Galleria melonella* L. as a new material in genetical investigations.

O. J. SOBOLEVSKAJA and V. S. BUTKEVIC: Formation of citric acid in the makhorka leaf (*Nicotiana rustica* L.).