

at the Paris Observatory, for the publication of the photographic and systematic chart of the moon.

2000 francs to Paul Vayssière, to assist him in the continuation of his researches on cochineal insects.

3000 francs to M. de Zeltner, as a contribution to an expedition he proposes to make in the Sudanese Sahara, more particularly in the Air massif.

2500 francs to L. Bordas, to aid in his investigations relating to insects which attack forest trees, and more especially of those species now causing great damage in the woods of the Central Plateau and the west of France.

3000 francs to Joseph Bouget, for realising his cultural experiments on a larger scale, with reference to the afforestation and improvement of pastures in the Pyrenees.

3000 francs to Henry Devaux, for the continuation of his researches on the cultivation of plants in arid or semi-desert regions.

2000 francs to Victor Piraud, to enable him to continue his studies on the fauna of torrents and Alpine lakes, particularly at high altitudes.

2000 francs to M. Tiffeneau, for the continuation of his studies on the phenomena of molecular transposition in organic chemistry.

#### UNIVERSITY AND EDUCATIONAL INTELLIGENCE.

CAMBRIDGE.—The following awards at Newnham College have been made:—An associates' fellowship of 100*l.* for three years, tenable from October, 1915, to Miss Ruth Holden, who proposes to continue her work in fossil botany; a Mary Ewart travelling scholarship of 300*l.*, divided between Miss H. J. Hartle and Miss M. N. L. Taylor; the Mary Ewart scholarship of 100*l.* for three years to Miss K. M. Tillyard; the Marion Kennedy studentship of 100*l.* to Miss E. E. H. Welsford; the Gilchrist studentship of 100*l.* to Miss C. Stoney; a Bathurst studentship of 75*l.* to Miss M. W. Jepps; the Harkness studentship of 70*l.* to Miss E. W. Gardner; the Arthur Hugh Clough scholarship to Miss P. M. Sargent.

LEEDS.—The William Walker scholarship, of the annual value of 90*l.*, for the scientific study of leather with a view to its subsequent application to industrial development, and the William Walker exhibition for instruction in the technology of coal and its by-products, are announced. The endowments have been founded in memory of the late William Walker, of Whitehaven, by his widow and two sons, who have placed 4500*l.* in trust for the purpose.

THE Institution of Naval Architects' scholarship, value 100*l.* per annum, and, subject to the regulations governing the same, tenable for three years, has been awarded to T. S. D. Collins.

MR. G. H. SHULL, of the staff of the Station for Experimental Evolution, Cold Spring Harbour, Long Island, has been appointed professor of botany and genetics at Princeton University, Princeton, New Jersey.

THE issue of the *Lancet* for August 28 is the "Students' Number," devoted almost entirely to information respecting the medical examining bodies and the courses of instruction given in the various medical schools and colleges of the United Kingdom.

THE following appointments to the Indian Educational Service have been made by the Secretary of State for India:—Mr. Harold Tinker, professor at the Training College, Allahabad; Mr. G. H. Geach, principal of the Training College, Peshawar; Mr. W. Saunders, professor of chemistry in the Civil Engineer-

ing College, Sibpur, Bengal; Miss E. E. Spencer, inspectress of schools in the United Provinces.

AN examination in biological chemistry, bacteriology, fermentation, and enzyme action will be held in connection with the Institute of Chemistry, beginning on October 18. The list of candidates will close on September 14. An examination in chemical technology will be held in October, but the actual date will be announced later. Notification from intending candidates must be received by September 14.

WE are informed that Mr. E. Lovett, who has formed a collection of children's toys, playthings, and games, has presented the collection to the Borough Council of Stepney, and that it is to be exhibited at the Whitechapel Museum. It will be arranged in ten sections, viz., locomotion and transport, dolls, animals, habitations, farming and agriculture, mining, manufactures and commerce, the household, playthings, games, sundries, i.e. toys and games of antiquity; toys made of natural objects, such as shell, bone, stone, nuts, etc.

THE Department of Agriculture and Technical Instruction for Ireland has issued a number of pamphlets in preparation for the work of the coming academic year. These include the "Programme for Technical Schools and Classes," in which it is pointed out that the regulations for technical schools and classes which were in operation during the session 1914-15 will continue in force during the session 1915-16. The "Programme of Experimental Science, Drawing, Manual Instruction, and Domestic Economy for Day Secondary Schools" has undergone no alteration, and the work next year will follow on the lines previously laid down. The "Special Course in Experimental Science: Physiology and Hygiene" has been revised.

THE Education Committee of the Staffordshire County Council has issued its "Directory for Higher Education, 1915-16." The directory contains the regulations of the committee and details of schemes in operation throughout the administrative county. Owing to the necessity of publication before the commencement of the new session it has not been possible to make final arrangements with regard to some of the classes, and, as the directory points out, some readjustments and alterations may be necessary later. One or two typical instances of the thoroughness with which the committee has provided for the needs of the county in higher education may be given. On account of differences of character between the North and South Staffordshire coalfields, and for other reasons, separate schemes of instruction in mining have been worked out for the two districts. Such instruction in the North Staffordshire coalfield is provided by the County Education Committee and the Education Committee of Stoke-on-Trent working in co-operation. The principal centre at which instruction is given is the Central School of Science and Technology, Stoke-on-Trent. This is a specialised school adapted to the needs of potting and mining, the principal industries of the district, and equipped for the study of the technology of these industries up to the most advanced grade. In South Staffordshire a general scheme of instruction in mining is designed to extend over six years, and classes in connection with it are held at several centres. At the new County Metallurgical and Engineering Institute, Wednesbury, theoretical and practical classes are held in metallurgy, iron and steel manufacture, and subjects related to engineering. Other branches of technological science in which special facilities have been provided are:—Pottery and porcelain manufacture, boot and shoe manufacture, silk manufacture, and horticultural and smaller agricultural industries.