University and Educational Intelligence.

ABERDEEN.—The following assistants have been appointed: Anatomy, Mr. A. Lyall; forestry, Mr. E. V. Laing; mathematics, Mr. J. T. Lawrence; natural philosophy, Mr. H. D. Griffith; pathology, Mr. J. F. Davidson; physiology, Mr. J. Fiddes; surgery, Mr. W. Anderson.

CAMBRIDGE.—Of the additional annual grant of 30,000*l*. from the University Grants Committee, announced by the Vice-Chancellor in his annual address to the University, a sum of 4000*l*. annually from the total is ear-marked for the next ten years for the Women's Colleges.

St. Andrews.—The induction of Prof. John Read to the chair of chemistry in the United College, and of Prof. Adam Patrick to the chair of medicine in the University, took place in the Hall of the University Library, St. Andrews, on Friday, October 5, at 4 P.M.

SPEAKING at a prize-distribution ceremony at the Maharajah of Kasimbazar's Polytechnic Institute, the new Vice-Chancellor of the University of Calcutta blessed Capt. Petavel's scheme (described in Nature of August 26, 1922, p. 298) for establishing in Bengal co-operative educational colonies in which pupils would spend a considerable part of their time in remunerative employment on farms and in workshops. "Boys following the school and college courses as they are now, resemble," he remarked, "a flock of sheep rushing over a precipice,"—referring to the notorious overcrowding of the occupations for which alone those courses afford a suitable preparation. The scheme, however, notwithstanding its endorsement by the former Vice-Chancellor and many other Calcutta notables, still hangs fire, for want, apparently, of the funds necessary for making a start.

The foundation stone of the first of the permanent buildings of the University of Western Australia was laid on September 1 by the Premier of the State, Sir James Mitchell. This building, which is being erected for the natural science lecture rooms and laboratories, is placed on rising ground overlooking Melville Water on the Swan River. The southern aspect of the building and its general design will give every facility for microscope work. It is proposed to proceed next with the transfer of the departments of chemistry, physics, and agriculture before removing the arts faculty and the administrative sections from the present temporary buildings in the centre of Perth city. The engineering school is already on the permanent site, having been in 1914 in the Crawley Mansion House on the transfer of the estate to the University by the Government of Western Australia.

Progress in home economics education during the years 1920-22 is described in Bulletin No. 6 of 1923 of the United States Bureau of Education. A general demand for retrenchment in school expenditure led to proposals in many parts of the country for eliminating home economics as well as music, art, industrial arts, and agriculture from school curricula, but a reaction speedily ensued accompanied by a marked stimulation of local interest in the teaching of these subjects. Meanwhile, the campaign for economy had improved the teaching of such subjects as cookery through necessitating the use of simpler and less expensive methods and extreme care in regard to the quality of the resulting products. One of the most admirable modifications of home economics

courses was the devotion of increased time and attention to training young women in child care and welfare. This training has been linked with the food courses in high schools through individual pupils being made responsible in the later stages of their work for the nutritional condition of some younger child. The food courses have themselves been markedly changed, cooking processes receiving less, and nutrition and dietetics greater emphasis than formerly.

RECENT awards of Industrial Bursaries and Overseas Science Research Scholarships by the Royal Commission for the Exhibition of 1851 are as follows. The names of the nominating institutions are in brackets. Industrial Bursaries: J. M. Todd (University of Edinburgh), W. McCartney (Heriot-Watt College, Edinburgh), G. B. Hamilton and D. Murray (University of Glasgow), G. G. Forrest (University of St. Andrews), T. Etheridge (University of Birmingham), A. G. Oates (University of Bristol), F. Allen (University of Leeds), W. B. Noddings and E. R. Knight (University of Liverpool), G. Lindley (University of Sheffield), F. F. Ridley (University of Durham: Armstrong College), J. S. Wilson (University College, Nottingham), J. F. Smith, J. M. Radcliffe, and W. A. P. Fisher (University of Cambridge), P. C. England (University of London: King's College), W. E. J. Budgen (University of London: College), A. Taffel (University of London: University College), G. A. Bonnyman (Imperial College of Science and Technology), J. R. Rowlands (University College of North Wales, Bangor), A. R. Brown (University College of South Wales and Monmouthshire, Cardiff), O. G. Evans (University College of Swansea), A. Goffey, R. E. L. Tricker, and C. R. Smith (University of Manchester). Science Research Scholarships: J. F. Lehmann, Physical Chemistry (University of Manitoba), W. L. Webster, Physics (University of Toronto), R. W. E. B. Harman, Physical Chemistry (University of New Zealand), L. H. Martin, Physics (University of Melbourne), F. Lions, Organic Chemistry (University of Sydney).

Societies and Academies.

PARIS.

Academy of Sciences, September 17.—M. Joseph Boussinesq in the chair.—The president announced the death of M. J. Violle.—P. Villard: The true colour of clouds. It is generally admitted that the true colour of clouds is white and that the village of the colours of clouds is white and that the village of the colours of clouds is white and that the village of the colours of clouds is white and that the village of the colours of the colours of clouds is white and that the village of the colours of th colour of clouds is white, and that the colour effects observed are due to the coloured rays of the sun at sunrise and sunset. From the results of twenty years' observations the author believes that this is not always the case and that clouds may possess a colour of their own, not necessarily white, although illuminated with pure white light. Variations of colour have been noted during the disappearance and re-formation of light cumulus clouds.—P. Sergesco: The distribution of the characteristic values of the nuclei of Marty N(x, y) = A(x)K(x, y). — Antoine Zygmund: The Riemann theory of trigonometrical series.—Georges J. Rémoundos: A property of elimination and algebroid functions.—O. M. Tino: The passage from the theory of the fundamental Fredholm functions to that of the fundamental Schmidt functions.—Serge Bernstein: The mathematical demonstration of Mendel's law of heredity.-A. Petot: A characteristic difference between the modes of action of front and back brakes. It is shown that there is a fundamental difference between

the action of front and back braking on a motor-car. The latter arrests only the motion of translation of the car: in the former the brake also affects the car's movement of rotation round the vertical. -L. J. Simon and M. Frèrejacque: The action of dimethyl sulphate on salicylic acid, methyl salicylate, and methoxysalicylic acid. Sulphonation and methylation. In the absence of water, methyl sulphate and salicylic react, giving three substances, $C_8H_3(OH)(CO_2CH_3)SO_3H$, $C_6H_3(OH)(CO_2CH_3)SO_3CH_3$, and $C_6H_3(OCH_3)(CO_2CH_3)SO_3H$. The trimethyl sulphonated derivative is not produced.—Ch. Courtot and A. Dondelinger: Some new secondary bases of the indene series.—Paul Dumanois: A method of air-drying. A scheme for preventing the moisture in air reaching absolute alcohol or petrol stored in bulk. -F. Vincens: The aspergillomycosis of bees. R. Herpin: Ethology and development of Neveis caudata.

SYDNEY.

Royal Society of New South Wales, August 1.-Mr. R. H. Cambage, president, in the chair.—S. Dodd: Cancer of the ear of sheep: a contribution to the knowledge of chronic irritation as a secondary factor in the causation of cancer in the lower animals. Cancer of the ear is rather common in sheep in Australia. Ears from 47 sheep so affected were examined microscopically: 32 were found to be definitely epitheliomatous; 9 showed a condition of chronic inflammation only, and 6 were in a precancerous stage. An affected sheep received alive was kept under observation; five months later the middle cervical gland showed signs of enlargement. Six months after receipt the sheep was killed and the autopsy showed practically the whole of the ear to be carcinomatous. The facts presented support the view that a chronic irritation, naturally occurring, may lead to cancer in the lower animals.—L. S. Cash and C. E. Fawsitt: The estimation of cineol in essential oils by the Cocking process. The method consists in mixing the oil with o-cresol in certain fixed proportions and finding the treezing point of the mixture. The method is more easily carried out than any of the other methods usually employed for estimating cineol. The results are at least as accurate as those obtained in other ways and the accuracy can be increased by taking into consideration the density of the oil.—H. J. Hynes: Investigations by the late C. O. Hamblin into the Helminthosporium disease of wheat. Pathogenicity tests indicated that the strain of Helminthosporium isolated from Marshall's No. 3 wheat at Cowra in November 1920 is a true parasite of the wheat plant, capable of causing a Foot-Rot" condition and also lesions on the leaves. Seed from diseased plants when sown gave rise to healthy plants. The "Foot-Rot" condition was observed at Cowra in 1921 on 150 different wheat varieties. Spores of Helminthosporium were found on Slav rye, skinless barley, Hordeum murinum, Bromus inermis, B. sterilis, and spear grass.

Official Publications Received.

University of California Publications in American Archæology and Ethnology. Vol. 13, No. 9: A Study of Bows and Arrows. By Saxton T. Pope. Pp. 329-414+plates 45-64. (Berkeley: University of California

The North of Scotland College of Agriculture. Calendar, Session 1923-24. Pp. viii +128. (Aberdeen.)

The North of Scotland College of Agriculture: County Extension Department. Report on County Extension Work, 1922-23. Pp. 50. (Aberdeen.)

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Conseil Permanent International pour l'Exploration de la Mer. Rapports et Procès-Verbaux des Réunions, Vol. 31: Rapport Atlantique: 1922 (Travaux du Comité de Plateau Continental Atlantique) (Atlantic Slope Committee). Publié avec l'aide de Dr. Ed. Le Danois. Pp. 46+16 planches. (Copenhague: A. F. Høst et Fils.) Smithsonian Miscellaneous Collections. Vol. 76, No. 2: History of Electric Light. By Henry Schroeder. (Publication 2717.) Pp. xiii+95. Vol. 76, No. 3: On the Fossil Crinoid Family Catillocrinidæ. By Frank Springer. (Publication 2718.) Pp. 41+5 plates. Vol. 76, No. 4: Report on Co-operative Educational and Research Work carried on by the Smithsonian Institution and its Branches. (Publication 2719.) Pp. 30. (Washington: Smithsonian Institution)

(Washington: Smithsonian Institution.)

Proceedings of the Aristotelian Society. New Series, Vol. 23: Containing the Papers read before the Society during the Forty-fourth Session, 1922-1923. Pp. ii+289. (London: Williams and Norgate.) 25s. net.

Diary of Societies.

MONDAY, OCTOBER 15.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5. - Prof. Shattock: Necrosis.

Institute of Marine Engineers, Inc., at 6.30 .- Extraordinary General Meeting.

TUESDAY, OCTOBER 16.

ROYAL SOCIETY OF MEDICINE, at 5.—General Meeting. ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—J. G. Marshall:

The Back Page of a Newspaper.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—Prof. E. Newberry and others: Discussion on The Origin of Cultivated Plants.

WEDNESDAY, OCTOBER 17.

ROYAL METEOROLOGICAL SOCIETY, at 5.—Discussion on a paper by Sir Napier Shaw and Capt. D. Brunt: Towards a Basis of Meteorological Theory—Thirty-nine Articles of Condition for the Middle Atmosphere. Entomological Society of London, at 8.

ROYAL MICROSCOPICAL SOCIETY, at 8.—W. F. Charles: Peculiarities in the Development of the Ant's Foot.—M. T. Denne; A New Variable Light Screen for Use with the Microscope.—Prof. Ekendranath Ghosh; Monocystides from the Earthworms of Calcutta.

THURSDAY, OCTOBER 18.

ROYAL AERONAUTICAL SOCIETY (at Royal Society of Arts), at 5.30.—
Squadron Leader R. M. Hill: The Manneuvres of Inverted Flight.
CHILD-STUDY SOCIETY (at Royal Sanitary Institute), at 6.—Dr. F. S. Boas:
Some Aspects of the Departmental Report on English.
INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—Dr. A. Russell: Presidential Inaugural Address.
CHEMICAL SOCIETY, at 8.—R. G. W. Norrish: Studies of Electrovalency.
Part III. The Catalytic Activation of Molecules and the Reaction of Ethylene and Bromine.
SOCIETY FOR CONSTRUCTIVE BIRTH CONTROL AND RACKAL PROCESS (et

Society for Constructive Birth Control and Racial Progress (at Essex Hall), at 8.—Dr. Marie Stopes: Medical Contradictions and Mistakes in Evidence in her Recent Case (Presidential Address).

FRIDAY, OCTOBER 19.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Sir Arthur Keith: Hernial Formations of Developmental Origin which occur along the Alimentary and Respiratory Tracts.

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—Sir John Dewrance:

Presidential Address. ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7 .- A. Pereira :

In a Kinema Studio.

Junior Institution of Engineers, at 7.30.—F. W. Dye: The Gas Boiler (or Circulator) and its Application

PUBLIC LECTURES.

SATURDAY, OCTOBER 13.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—Capt. W. H. Date: Wireless

Telephony—a Popular Exposition.
UNIVERSITY COLLEGE, LONDON, at 5.—Miss I. C. Ward: The Application of Phonetics to the Curing of Speech Defects.

TUESDAY, OCTOBER 16.

University College, London, at 5.90.—Prof. A. V. Hill: The Present Tendencies and Future Compass of Physiological Science.

GRESHAM COLLEGE, at 6.—Sir Robert Armstrong - Jones: Physic.

(Succeeding Lectures on October 17, 18, and 19.)

WEDNESDAY, OCTOBER 17.

UNIVERSITY COLLEGE, LONDON, at 3.—Prof. E. G. Gardner: Problems of the Inferno (Barlow Lectures). (Succeeding Lectures on October 24, 31; November 7, 14, and 21.)

ROYAL INSTITUTE of PUBLIC HEALTH, at 4.—A. Greenwood: Cancer and the British Empire Cancer Campaign.

KING'S COLLEGE, LONDON, at 6.30.—Prof. A. Dendy: The Biological Foundations of Society. (Succeeding Lectures on October 24, 31; November 7, 14, 21, 28; December 5 and 12.)

THURSDAY, OCTOBER 18.

KING'S COLLEGE, LONDON, at 5.30. — Prof. J. A. K. Thomson: The Function of Scholarship.

SATURDAY, OCTOBER 20.

HORNIMAN MUSEUM (Forest Hill), at 3.30 -Miss M. A. Murray: Tutankh-