

might be gathered from the fact that up to the end of 1924, 70,000 lb. had been exported. The wood of a closely allied species, Santalum album, had been used for ages past in the East for incense, and the oil as a drug. The wood and oil of the Western Australian species were used for similar purposes. The oil was valuable for three reasons: it was used in perfumery, not so much for its somewhat pleasant smell, but as a fixative for other perfumes, the latter being retained by the oil, in, for instance, the perfumery of soap. More important, however, was its use in medicine. The medicinal properties were due to the large quantity of santalol which it contained. There had been some controversy as to the exact chemical composition of the oil, but this had risen partly from the fact that the oil, before exportation from Western Australia began, was derived entirely from Santalum album, and that it was this latter material which had been chiefly examined and reported upon. There was abundant medical evidence that the local oil was at least equal to the East Indian product, although it did not quite answer to the official requirements of the British pharmacopoeia. The Professor said that it must be confessed that while many Australian oils were of commercial importance up to the present time, little use had been made of them.

Afforestation.

Before concluding, the Professor said that he would like to plead for a more vigorous policy of afforestation everywhere in Australia. A school of forestry was to be established in Canberra, but unless and until the various Governments were prepared to enter upon a vigorous campaign of afforestation upon a large scale the future of the supply, not only of timber, but of many products such as had been referred to, was, to say the least of it, very uncertain. In this connection it was satisfactory to learn that steps were being taken to regenerate the sandalwood forests in Western Australia, and it was too much to ask that, in any scheme of afforestation, regard might be had, not only to the supply of timber, but also to the study of the conditions under which other products might be conserved? Though it was quite possible that with the progress of organic chemistry such substances as santalol, for example, might be manufactured from cheap materials more cheaply than it could be obtained from the sandalwood tree, yet that did not appear to be probable in the near future, and therefore every precaution should be taken to provide against a complete extinction of this valuable tree.

The Governor's Appreciation.

At the close of the president's address his Excellency the Governor (Sir William Campion) said that his task was pleasant but not difficult—the proposing of a vote of thanks. He desired to add his voice to the chorus of welcome to Western Australia which had been raised for the distinguished ladies and gentlemen who were present. He hoped that the weather would be kinder to them, and that their deliberations would be of value to Australia and Western Australia. With the president, he hoped that the address would prove a stimulant to the younger aspirants to scientific honours. He believed that sandalwood cultivation was of great importance to Western Australia. In a humorous speech the Governor congratulated Professor Rennie on his address and the association on its labours, concluding with an appreciation of the value of science and of the work of scientists. In this State, he said, science had already done a great deal to bring under successful cultivation land which without it would have remained uncultivated bush. He believed that the development of the North-West would be brought about by science and industry in co-operation. The vote of thanks was carried with acclamation, the Mayor of Perth (Mr. J. T. Franklin), having seconded the Governor's motion, and added a very cordial expression of the City's welcome to its distinguished visitors. He hoped that their deliberations would be of benefit to "this glorious State."

Visit to Calyx Works.

The first of a series of excursions was held yesterday afternoon, when a large number of the members of the chemical section and their friends were taken in a fleet of motor cars to the Calyx Porcelain Works. A thorough tour of inspection was made, and the visitors evinced a keen interest in all they were shown.

Veterinary Science Lecture.

Those wishing to attend the presidential address by Professor J. Douglas Stewart on "The Relationship of Veterinary Science to the Prosperity of the State" are asked to note that it will be delivered in the veterinary science lecture room at the University, Irwin-street, this evening at 8 o'clock, and not on Friday morning as stated in the official programme.

The Delegates.

Omitted from the list of Eastern States delegates, published in yesterday's issue, was the name of Dr. Frank S. Hone, of Adelaide, president of the hygiene section. Dr. Hone is chief quarantine officer in South Australia, and is a member of the Federal Council of the British Medical Association. He was a member of the Com-

monwealth Royal Commission on Health. Owing to a misapprehension on the part of those who supplied our information, there was an error in yesterday's published list of those who are representing the Commonwealth Government at the present meeting. In addition to Professors Skeats and Rivett, and Mr. R. H. Gamage, the Commonwealth authorities are represented by Mr. G. A. Julius, chairman of the executive of the Council of Scientific and Industrial Research; Dr. W. G. Duffield, director of the Solar Physics Laboratory; Mr. C. H. Wickens, Commonwealth Statistician, and Mr. B. Perry, chairman of the Western Australian committee of the Council of Scientific and Industrial Research. It was learned yesterday that two delegates who were expected to attend the meeting, but were not present, were Dr. W. G. Woolmough, the distinguished geologist, and Dr. Colin Mackenzie, director of the National Museum of Australian Zoology.

One of the delegates stated yesterday that the Commonwealth Government had taken a far more active interest in the Perth meeting than it had taken in any previous meeting of the association. It had subscribed £750 towards the travelling expenses of visitors from the Eastern States, had appointed six representatives, and had offered to provide free passes over the Commonwealth line to six delegates from each of the Eastern States.

Programme Amended.

Mr. A. C. Fox, secretary of the section devoted to Mental Science and Education, stated yesterday that the programme for the section had been amended, and would be as follows:—To-day: 10 a.m., address on "Physical Education," by Miss E. Tydesley; 11 a.m., address on "Trade Education," by Mr. J. Nangle; noon, address on "Mobilisation of the Will in the Education of Children," by Mr. E. A. Riley; 2 p.m., discussion on "The Teaching of Hygiene," with the Sanitary Science and Hygiene section. To-morrow: 10 a.m., meeting with the Geography and History Section; 11 a.m., address on "Social and Economic Values in Education," by Mr. P. Board; noon, address on "The Teaching of Geography," by Mr. A. G. Edquist. Thursday and Friday: As in official programme. Section H has deleted the two items, "University Architecture," by Mr. Beattie, and "Domestic Architecture in Victoria," by Mr. Harvey from Wednesday night's programme, and placed them on Thursday night's list, following on the presidential address. All addresses in the section will be given at the University Buildings, in Irwin-street.

To-day's Programme.

Two fixtures of interest to the general public are included in to-day programme. There is no charge for admission, and all are invited. At 8 p.m., in the Assembly Hall, Pier-street, Major L. F. Giblin (University of Tasmania) will deliver an address entitled "The Road to Ruin—with a moral for Western Australia and Tasmania." In the Burt Memorial Hall, St. George's-terrace, at 8.30 p.m., Professor T. Brailsford Robertson will take for his subject "The Duration of Life." Other fixtures for to-day (at the Perth Modern School, unless otherwise stated) are:—

- 9.30 a.m.—Section A: Presidential address on "Atomic Transmutation," by Professor Kerr Grant.
- 10 a.m.—Section F: Presidential address on "The Claims of the Australian Aboriginal," by Professor Wood Jones.
- 10 a.m.—Section G: Presidential address on "Federation and Finance—An Examination of the Financial Relations of States to a Federal Commonwealth," by Major L. F. Giblin.
- 10.30 a.m.—Section B: Presidential address on "Some Aspects of the Problem of Molecular Structure," by Professor James Kennel.
- 11 a.m.—Section J: Presidential address on "Social and Economic Values in Education," by Mr. P. Board.
- 11 a.m.—Sections D, K, and M: Excursion to Mundaring Weir.
- 11.30 a.m.—Section B2: Presidential address on "The Indebtedness of Pharmacy to Organic Chemistry," by Mr. A. T. S. Simons.
- 11.30 a.m.—Sections A and B: Discussion on "The Atom and Valency."
- 1 p.m.—Section O: Excursion to Darlington.
- 2 p.m.—Sections B and N: Discussions on "Catalysis and Enzyme Action," and on "Hydrogen-ion Concentration" (in Section B).
- 2 p.m.—Sections I and J: Discussions on "The Teaching of Hygiene in Schools." (in Section I).
- 2.30 p.m.—Swan River Excursion.
- 8 p.m.—Sections B, C, K, and M: Discussion on "Soil Classification and Survey" (in the Chemistry Lecture Room at the University, Irwin-street).
- 8 p.m.—Excursion to Westralian Farmers' Broadcasting Station.

Dr. Esmond F. West, formerly of James-town, returned to Adelaide yesterday from London as surgeon on the Port Victor. Dr. West has been absent from Australia for a little over a year. He continued his studies in the medical schools of Edinburgh and was successful in passing the examination for F.R.C.S. He also spent some months in hospitals, devoting special attention to anaesthetics and surgery.

WOMEN GRADUATES.

Lack of Suitable Work.

The Question of Marriage.

PERTH, Monday.

At the third biennial interstate conference to-day of the Australian Federation of University Women, presided over by Mrs. Thorn, B.A., President of the Federal Council, it was stated in the council report that the membership had reached 735.

With a donation of £1,000 from a member of the federation, two fellowships for research in various branches of the natural science, economics, or colonial history, were offered for 1927. The £1,000 which the federation undertook to forward to the Crosby Hall fund had been raised, and it was anticipated that London headquarters would be moved to Crosby Hall in 1927.

The meeting decided that the headquarters of Australian Federation should be removed from Melbourne to Sydney at the end of next conference.

Few Chances for Women.

A paper by Mrs. E. F. Allan, M.A., LL.B., of Melbourne, on "Women graduates in business and affairs," was read by Miss Ethel Bage, of Victoria. Disappointment at the result of the investigations was expressed. It had been found on making enquiries from bankers and leading business men in Melbourne, that few, if any, openings were available for highly educated women who desired to secure positions of higher standing than those occupied by stenographers and ordinary clerks. It was recognised that a woman entered the banking or commercial life did so in a more or less temporary capacity. She did not, as a boy did, adopt the position as her life's work, and marriage usually ended the girl's business career. The fact that practically every woman, whether she admitted it or not, hoped to marry, had a definite bearing on her attitude towards her work, and ambition was lacking. A special hindrance in the case of University women in trades and businesses was that their age precluded their appointment to minor positions which were best filled by young girls fresh from school. From the point of view of most business men the three years spent at the University were wasted. Wages awards affected the position also. Many women who were not graduates occupied positions of management in various businesses in Victoria. They had learned the business as employes and had acquired capital to set up for themselves.

Where Success is Achieved.

The businesses in which ambitious, able women seemed to have succeeded best, continued the lecturer, were those which existed for the service of women, and these were the least likely to appeal to intellectual women. After these, book-selling and land and estate agencies numbered the most successful women among owners and managers. It was suggested that the most suitable occupation of all for a woman was that of a librarian, and the federation should concentrate on breaking down the opposition to the appointment of women to such position. It was suggested that there was scope as welfare officers in connection with factories and big businesses employing many girls; in municipal employment as inspectors of health and food, in administrative work, and in higher positions in hospitals, on completion of the nursing course. Barriers in the way of women graduates who would like to take up journalism were the attitude of University people towards journalism, and the attitude of responsible journalists towards university graduates. A motion by Mrs. Ross, M.A., seconded by Dr. Bentivoglio (N.S.W.)—"That conference urges the State Federations to establish vocational guidance conferences at the close of each year," was carried unanimously. Dr. Roberts Jull, President of the Western Australia branch, was elected President of the Australian Federation for the next two years, and Mrs. Thorn, the retiring President, was chosen as Chairman of international relations in place of Miss Ethel Bage, who was ineligible for reelection.

Rowing Association President

Few men are better known in Adelaide University sporting circles than Mr. Reginald Horton Wallman, LL.B., who has been president of the sports association connected with the institution for nearly 12 years. He was secretary of that body for two years, and it was largely due to his activities in conjunction with Prof. G. C. Henderson that the University Oval and pavilion and a boatshed were obtained for the use of members.



Mr. R. H. Wallman, LL.B.

Mr. Wallman, who was born at Adelaide 42 years ago, received his early education at Queen's School, and later at St. Peter's College. At the age of 21 he obtained the degree of Bachelor of Laws, and began practice as a solicitor on his own account. Subsequently he went into partnership with Mr. J. C. Martin, now of the Crown Law Office, and continued until Mr. Martin enlisted for the war. Since 1920 Mr. Wallman has been associated with Mr. Rupert Angley.

As an indication of his popularity in rowing circles in this State, Mr. Wallman was this week elected president of the South Australian Rowing Association in succession to the late Mr. W. G. Auld. Mr. Wallman had occupied the position of chairman since 1918. It was while at the University that he gave an indication of his prowess as an oarsman, and he has retained his interest in the sport. He was captain of crews for a term, and was awarded the rowing blue.

Another branch of sport in which Mr. Wallman excelled was running. For several years he was holder of the 120 yards hurdles and half-mile amateur championships of the State.

He is a keen enthusiast in regard to matters relating to wireless telegraphy, and is chairman of directors of Central Broadcasters, Limited. Mr. Wallman is a member of St. Peter's College Lodge of the Masonic Order.

SCIENTISTS ON TOUR.

An Irrigation Quest.

RENMARK, Friday. Professor R. D. Watt (Professor of Agriculture, Sydney University), Professor J. A. Prescott (of the Waite Research Institute), and Mr. G. Laing (of the Victorian State Rivers and Water Supply Commission) and the members of the committee of the Commonwealth Council of Science and Industry, reached Renmark from Wentworth late on Thursday afternoon. The object of the visit is to investigate scientific problems on the Murrumbidgee and Murray irrigation areas. In the evening they discussed district problems with Mr. Muspratt, horticultural officer of the Irrigation Commission, and the Chairman of the Renmark branch of the Agricultural Bureau (Mr. Oscar Weste).

This morning the party received a deputation arranged by the Renmark Agricultural Bureau, which has been pressing for some time for the appointment of scientific research officers on the river. The case for such appointments was stated by Mr. Weste, the need for research work in connection with the dried fruits industry occurred suddenly at Toronto, Canada, on Friday. The deceased, who was 22 years of age, was the elder son of Mr. J. E. Monfries (of Cremorne, Sydney, and formerly chief clerk at the General Post Office, Adelaide). A native of South Australia, he was a student at Prince Alfred College, and later studied dentistry at the University, where he graduated B.D.S. in 1924. About a year ago he went to Toronto, and recently secured the degree of Doctor of Dental Science at the Royal College of Dental Surgeons there. He had intended to proceed to England at an early date.