THE SCIENCE CONGRESS.

PROFESSOR ADDRESS RENNIE.

In his opening address at the Science Congress in Perth last night, Professor Rennie said until the Australian Governments entered upon a vigorous campaign of afforestation on a large scale, the future supply of timber and other valuable products was very uncertain.

Perth, August 23. The congress of the Australasian Association for the advancement of science was opened to-day. Delegates representing the Commonwealth, all the Australian States, and New Zealand were present. The first Item on the official programme was a civic reception by the Mayor of Perth (Mr. J. T. Franklin) at the town hall.

t at the Modern School, where the chairman of the Council of Scientific and Industrial Research (Mr. G. A. Julius) spoke on "The reorganised council of scientific and industrial research."

In the evening at the town hall the president (Professor E. H. Rennie), who in Australia, where in every direction Wood Jones, of the University of Adehas held the chair of chemistry at the Adelaide University for 42 years, delivered the inaugural address, the subject being "The chemical exploitation, past, present, and future of Australian plants.

Structures of the Atom.

preciative references to the work financial and otherwise, would in due dent-elect for the Hobart meeting. and personality of two members of the course be forthcoming. association, Messrs, J. H. Maiden and Henry G. Smith, who had died since the last meeting in South Australia. or recent researches into the structures of when he reached consideration of plant partier part of his address was a review the atom. He dwelt upon the recent re-products, and the remainder of his adsearches of Professor Millikan, which dress was devoted to an exhaustive anadealt with the existence of cosmic rays, lysis of the constituents and potentialities Physicists, he said, had become aware of Australian plant products. He divided of the radiation of an exceedingly pene, them for convenience into essential oils, trating nature, namely, a very short wave, gums, and resins, coloring matters, poilength, far shorter than that of X-rays sons, and miscellaucous substances not inabout one-fiftleth of the length of gamma from a perfumery point of view, Professor rays, or about one ten-millionth of ordi- Reunie said boronia magastigma, the Wessould pass through the equivalent of six nothing of importance had yet been pub-



THE

the it appeared advisable to suspend judgment album, and that it was this latter mateher for the time regarding the interpretation rial which had been chiefly examined and The of the experimental results achieved. Re-reported upon. There was abundant el ference was made to the five "missing medical evidence that the local oil was at stu elements," and the president explained least equal to the East Indian product, that three of them had recently been dis- although it did not quite enswer to the official requirements of the British Pharcovered.

SCIENCE AND PUBLIC.

A PLEA FOR POPULARITY.

SPECIAL ENDOWMENT NECESSARY.

Perth, August 23. teachers or in professional work, and tinction of this valuable tree. could not devote that time to scientific pursuits which was necessary for the nasources of scientific effort to guide them, New Zealand, Professor C. C. Farr. and the more they learned and sought The chairman announced that the Mueltion stood for the application of the anthropology in South Australia.

Australian Plant Products.

The president was on his own ground The most penetrating X- tern Australian specie, had acquired sperial, however, owing to the cost of collecting the flowers, was very expensive.

In the essential oils section the professor in following five major divisions—animal pest to the last the one which he described pests and diseases plant made of the fines followed in Great Britain.

The Council had decided that for the professor in following five major divisions—animal pests and diseases plant as the most important in Western Auspests and diseases, plant pests and distralia, namely, oil of sandalwood. This eases, forest products, fuel problems, was distilled chiefly from the wood of the especially liquid fuel, and the preservation sandalum cygnorium, and its importance of food, especially cold storage. Owing might be gathered from the fact that up probably to a lack of natural oil in Austo the end of 1924 70,000 lb. had been tralia, it appeared to be a question of exported. The wood of a closely allied provision of substitutes. The most species, the santalum album had been promising of the latter were oils from used for ages past in the East for incense the low temperature distillation of coal, and the oil as a drug. The wood and synthetic fuel from hydrogenation of coal, oil of the Western Australian species were high pressure catalysis of gases, &c., and used for similar purposes. The oil was power alcohol. The Council was College of Surgeons has been thoroughly valuable for three reasons. It was used watching what wealthy corporations formulated, and the delegates to the conin periumery, not so much for its pleasant were doing in regard to obtaining vention have returned to their homes. smell, but as a fixative for other periumes, power alcohol from sugar and starchy raw Sir George Syme, who will be Presithe latter being retained by the oil, in materials, and was ready to give assistance dent of the new institution, will choose them Professor Millikan supposed that for instance, the perfumery of soap. More if required. Committees had been ap- in Melbourne an executive committee to The they must be due to some sort of trans- important, however, was its use in medi-pointed to enquire into the question of draft bylaws and classify the vast amount It formation going on within the nuclei of cine. The medicinal properties were due synthetic stone. Great hopes were held of material, decisions, proposals, and formation going on within the nuclei of cine. The medicinal properties were due to the prickly pear arrangements gathered during the conventible atoms, but if so it must be far more ener- to the large quantities of santalol which out for a solution of the Council proposed to tion. This will be presented to the getic than any transformation of it contained. There had been some con-problem. The Council proposed to tion. This will be presented to the which they had knowledge such troversy regarding the exact chemical com-undertake the investigation of the Medical Congress in Dunedin next year, which they had knowledge such troversy regarding the exact chemical com-undertake oil obtained when the college will be formally inaugublo The possibility of transmuting mercury partly from the fact that the oil before by distillation in order to ascer rated. into gold by powerful electric discharges exportation from Western Australia be-tain whether it contained substances which abl was touched on by the president, who said gan, was derived entirely from santalum could be separated commercially.

It must be confessed that macopoea. although many Australian oils were of commercial importance, little use had been made of them up to the present.

Afforestation.

Before concluding, Professor Rennie said 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, unless and until the various Governments were prepared to enter upon a vigorous campaign of actual afforestation upon a large scale the future of the supply not only of timber, but of many products, though the Prime Minister's meeting in such as had been referred to, was, to say Lieutenant-General Sir John Monash, the least of it, very uncertain. In this the retiring president of the Science Con- connection it was satisfactory to learn gress, responding to the toast of "The that steps were being taken to regenerate guests" at a civic welcome to delegates at the sandalwood forests in Western Ausguests" at a civic welcome to delegates at tralia, but was it too much to ask that the town hall to-day, said it was the in any scheme of afforestation regard prime and fundamental object of the as might be had not only to the supply of sociation to make its activities public and timber, but also to the study of condipopular. The great objective was not tions under which other products might merely to meet together as scientists and that with the progress of organic chemisto develop team work among the na- try such substances as santalol, for extion's scientists, but to interest the gene- ample, might be manufactured more ral public in scientific effort. Science cheaply than it could be obtained from could not progress unless it was ade- the sandalwood tree, that did not anquately endowed. Most scientists had pear to be probable in the near future, their careers mapped out either as taken to provide against the complete ex-

Election of Officers.

tion's needs. Something in the nature of The first business meeting was held this a special endowment for science was im- afternoon, the retiring president (Sir John perative. It could come either from Monash) occupying the chair. The elecprivate munificence or public subsidy, but tion of officers resulted:-General treasurer, or this it was necessary to have the sup- Mr. D. Carment (New South Wales); perport of public sentiment. The world had manent hon, secretary, Dr. A. B. Walkom developed so much in the last half a cen- (New South Wales), local State secre-The general council met in the afternoon tury that all civilised communities had taries-Queensland, Mr. C. T. White; New the Modern School, where the chairman come to recognise that they could not South Wales, Dr. Walkom; Victoria, Mr. blunder forward by rule of thumb any E. R. Pitt; Western Australia, Mr. A. more. They had the whole of the re- Gibb Maitland Tasmania, Mr. C. E. Lord;

> and found the bigger became the field that Her Memorial Medal Committee had dewas opened up. Particularly was this so cided to award the medal to Professor F. they had mighty problems. The associa- laide, for his researches in zoology and

talent and genius of Australian men and It was decided that the twentieth meetwomen towards the solution of these prob- fing of the association be held in Brisbane lems, and it stood for what was much in May, 1930, it having been already armore important, the awakening of active ganged that the nineteenth meeting be held public interest in the work, so that as in Hobart in January next year. Mr. R. Professor Rennie opened with ap-time went on the endowment of support, H. Gambage, C.B.E., was appointed presi-

> Professor N. T. M. Wilsmore resigned from the office of local secretary for Wes tern Australia on account of pressure of other duties, and it was decided to place on record the council's appreciation of his services in connection with the organisation of the Perth meeting.

Work of the Council.

The aims of the reorganised Commonwealth Institute of Science and Industry and some of its achievements and the prowhich, until recently, were the shortest cluded in any of these classes. Passing outlined by the chairman (Mr. of these been directed to convey to you These rays were, in fact, only on to the importance of essential oils Julius). There was a clear realisation, he able and interesting reports which you said, that results in the field of research have published from day to day of the could not be expected in a week or a proceedings in connection with the jubilee month, or even a year, and that probably celebrations. rays used in hospitals could not pass cial importance from the fact that two long periods would elapse before many of blocks in The Register illustrating the through half an inch of lead, but Profes manufacturing chemists were producing the problems were solved, if they were buildings added greatly to the value of the sor Millikan had shown that cosmic rays from it valuable perfume. Apparently over solved. The formation of State com- letterpress and the series of articles conmittees was well in hand, and there was feet of lead. They came to the earth from lished respecting the nature of the oil, but nothing to prevent them from getting to outside with equal intensity at all hours from private information, which he under- work at ouce. The Prime Minister had of the day and night, and with practically stood would be contained in a paper which instructed the council that it was not the the same intensity in all directions. What was to be read before the chemical section wish of the Government that extensive their origin might be was a matter for by Mr. W. B. Garner, he gathered that new laboratories should be established by From what was known of the substances constituting the perfume it, but that the work should be done with were yet unknown, but were likely to be the assistance of existing institutions in examined in the near future. The flowers the various States. The lovernment had were gathered in enormous quantities by instituted a trust fund of £100,000, the specially contrived apparatus which did income from which was to provide not injure the plant. The extract from assistance to workers engaged in scientific the flowers on evaporation yielded a green work and the training of students in the Melbourne express on Tuesday afterwaxy material, which was of intense scientific research. With regard to furmoon for Sydney, en route to the island color, and was apparently used in its ther provision in the Endowment Act, of Vanikoro, beyond the New Hebrides, crude state for perfumery. This providing assistance to persons engaged in where Dr. Deland has accepted an appoint waxy residue decomposed if heated scientific research, the Council hoped to ment as medical officer. which the perfume was due. The mate- making grants in aid on the lines followed

When Darwin grew old he expresses regret that scientific investigations throughout his life had prevented him from the study and enjoyment of music, for, so he said, his sense of the beautiful was atrophied and his old age left dry and colorless.

With a sense of responsibility in this respect toward all the scientific notabilities who have been gathered together in Adelaide during the past week Dr. E. Harold Davies arranged an attractive concert in the Elder Hall for last Monday evening. The hall was fairly well filled, the Town Hall attracted a good many of the visitors and friends. The gathering was representative, and members of Parliament and their wives hob-nobbed with M.Bs., Bs.Ch., Ms.Sc., Ms.A. D.P.Hs, and all the other letters of the alphabet as represented by every type of scientific and scholarly personage. Snatches of conversation heard indicated an interest in music here and abroad, especially in reference to orchestral music, so that it was apparent that the musical sense was not quite atrophied as far as Adelaide protessorial folk are concerned.

The string quartet played a minuet, Miss Puddy and Mr. William Silver discoursed sweetly on two pianos, and Miss Sylvia Whitington and Mr. George Pearce played a particularly tuneful sonata for violin and piano. Mr. Harold Parsons didhis usual good work on the 'cello, and Dr. Davies presided at the organ.

Mr. Carey maintained his usual popularity as a singer with a group of quaint old-new English numbers, and Mrs. Smedley Palmer, well known as Miss Ethel Ridings, was given a warm round of applause for her dainty group of songs. Mrs. Palmer's return to the concert platform is welcomed by her many friends. Her voice has gained in mellowness and maturity since her student days.

Among the participants in the University functions was Henry Brose, now a scholar and scientist of high standing. but at heart just the same unspoiled boy of his student days at the Conservatorium. As a small, rather anxiousfaced lad, he used to present himself each year for the musical examinations at the University, and always got through with distinction, winning scholarships galore, and playing the piano under Bryceson Treharne, as if it had been his chief study. Even now there is nothing he likes better than to get back to the old musical circle, and the happy memories of his student days.

REG. 2 6. 8. 26

THE UNIVERSITY JUBILEE.

From F. W. EARDLEY, Registrar;-The portraits and the stitute an important record of the ceremonies. (We much appreciate this testimony to the excellence of our reports of a great and memorable celebration .- Ed.)

REG. 26.8. 26.

Dr. and Mrs. C. Mervyn Deland left by

28.8.20. REG. COLLEGE OF SURGEONS.

Much Preliminary Work.

SYDNEY, Friday. The proposal to establish an Australasian

The executvic committee will appoint in the various States and New Zealand subcommittees or individuals to collect the names of physicians who intend to apply for fellowships of the college. Little will be heard of the proposal for three months, in which period the subcommittee will have to overcome a considerable amount of WOT'S.