WAITE RESEARCH INSTITUTE ASSISTS FARMERS AND PASTORALISTS

Experts Investigate Improvement of Soil and of Breeds of Wheat

VISITORS to Waite Agricultural pressed by the successful prac THE Director (Professor A. E. V. enlarge agricultural knowledg pastoralists.

DROBLEMS of farm crop production, pasture improvement, and plant nutrition and genetics are being investigated and soils are being classified. Soil surveys are being made, and diseases in farm crops are being studied.

Murray irrigation soil fertility problems are being investigated.

Investigations into the water requirements of wheat Professor Richardson



Richardson

says reveal that each acre inch of rainfall on a wheat crop is sufficient to prdouce 3.3 bushels to the acre.

marked response of soluble phosphates. greatest profit.

Wheat Breeding

A collection of varieties from semi-arid regions of the world, especially where wheat has been grown for centuries, has been made by the institute.

Wheat has come from India, Egypt, Russia, China, Japan, Palestine, Argentine, and America.

Selections for high yielding bility, drought resistance, and early maturity may be made from introduced and locally grown varieties, but if these do not yield well, or undesirable characters like weak straw, red grain, disease susceptibility, and shattering of the grain, then they will be crossed with varieties free from these defects, but having good points, such at lateness of maturity.

10 Years to Test

Early maturing Indian and Egyptian varieties have been extensively used at generous offer as evidence of he institute in crossing with the best ocal varieties.

Under the best conditions it will take and throughly tested out.

This work is being done by Dr. I. F Phipps, who undertook three years' inensive research in the plant genetics at Cornell University.

Tests on 50 acres of uniform pastures subdivided into eight grazing areas are being conducted to determine the effect of phosphates on sheep growth and development, and the yield and quality of wool.

tific Research.

Soils and Plants

Professor J. A. Prescott and his staff have worked out the relationship between the reaction of the soil and the rainfall of South Australia.

Mr. C. S. Piper (chemist), with Mr. Geoffrey Samuel (plant pathologist) have investigated grey speck disease in oats, first noted at Mount Gambier. First

Dr. J. Davidson (entomologist) has ar- necessary legislative sanction to rived from Rothamsted Experimental Sta- Commonwealth forestry policy tion, and will study the lucerne flea, now before Parliament. woolly aphis, and other insect pests.

Research Institute are all imtical work carried out there.

Richardson) says the aim is to fessor W. F. Osborne, of Manitoba, to

ADV. 12.29 DR. HUGH CAIRNS.

REPORTS ON BRAIN CLINIC.

LONDON, February 11.

ADV. 13.2.29 SCIENTIFIC FORESTRY. AN ENDOWMENT FUND.

GENEROUS OFFER ACCEPTED. CANBERRA, February 12.

The Commonwealth Government have received from Mr. Russell Grimwade an offer to establish an endowment of £5,000 for the encouragement Bruce stated to-day that the Government were very glad to accept Grimwade's generosity in placing of inestimable value to Australia.

Interest on the endowment will enable a selected Australian nions of the Pacific. forester to go to Europe to take a re- gates had the best fresher course at the Imperial Forestry the people of Adelaide and the State Institute, Oxford, and to visit the trip and success at the conference. forests of Germany and France. Quali- Speaking on behalf of the Govern- vacant by the resignation of Prof. T. G. private forestry employment, for three years.

fying to note that forestry was exciting delegates to the conference, South Science. They are studing soil fertility problems greater interest, as evidenced by the Australia, he was pleased to say, fact that no fewer than four contribu-would provide the bulk of Australia's facing settlers on the Murray, to place tions had been made to the Australian representation. on a more scientific basis, methods of Forestry School. In addition to Mr. Dr. Lendon said he remembered university to provide a body of highlyreclamation, systems of cropping, and fer- Russell Grimwade's endowment, the that Professor Osborne had asked for trained agricultural experts from which the Sydney and Suburban Timber Mer-young and active men, yet Sir Archi-State can draw its future instructors and chants' Association had contributed bald was the only Jackson among them. advisers in all agricultural matters. £50 towards the purchase of a library Mr. Jeffrey—Speak for yourself.

for students. Mr. A. E. Heath, of A. Without their leader, Dr. Lendon stitute, which began in March, 1925, has C. Sabton & Son's Timber Company, said they were like the tail of a cricket developed rapidly during the past year. had provided a prize of £10 for the team. However, all would do their Through the generosity of Sir John Melit was thought to be caused by a fungus, best essay, and the Schlich Memorial best. The conference seemed to be rose, of Ulooloo, who gave £10,000 for but it has now been found to be due Fund had provided a gold medal for an effort to get a higher standard of the building of a laboratory, the univerto a deficiency of manganese in the soil. The best student for the year. The culture than that of forty years ago, sity was able to construct the first group Mr. Samuel is investigating the cause Empire Forestry Conference, which re-but at that stage he did not propose of permanent laboratories at the institute. of tomato wilt to find the best method cently visited Australia, had shown to speak of their plans. of control. The insect carrying the wilt that what Australia had done in re- Messrs. Melrose and Jeffrey also Marketing Board and the Council for -a species of thrip-has been deter- gard to eliminating the wastage of her spoke. timber resources was wholly inad-As a result a Bill to give equate.

ADV. 15 - 2 - 29 FERENCE.

SOUTH AUSTRALIAN DELEGATES.

A CIVIC FAREWELL.

In consequence of the visit of Pro-Adelaide in August, South Australia e, and extend it to farmers and will be represented by four delegates at the Fourth National Conference on Education, to be held at Vancouver Geology and Mineralogy at Adelaide from April 14 to 20. They are Professor Sir Archibald Strong, Dr. A. A. Lendon, Messrs. Alex Melrose and George Jeffrey. Sir Archibald has already sailed for Canada, and the remaining It is understood that he will discuss three delegates were tendered a civichis plans for an Antarctic expedition farewell by the Lord Mayor on Thurs-with Mr. L. S. Amery (Secretary of State

Zealand to the conference, which tiations. ranked next to the Imperial Con- Mr. Amery will indicate that the British The Medical Research Council has ference in London in EmpireGovernment is prepared to let Sir Douglas published the report of an Adelaide importance. It was held inhave the Discovery immediately it is over-Rhodes scholar, Dr. H. W. B. Cairns, Canada as a demonstration to thehauled. The vessel is practically ready to the winner of the Rockefeller travel- United States of America that Canada depart, except for a crew and stores, at ling scholarship, which he utilised in was part of the British Empire and any desired date. feature of fertilizer spending a year at Dr. Harvey Cush- that the other Dominions were ready The Discovery was recently prepared tests has been a ing's brain clinic at Boston. to help solve the educational problems for the continuance of the Falkland Island The report describes wonderful that confronted them. The mem-whaling expeditions, but if Sir Douglas is crops and grass to operations and new methods devised bers of the delegation would satisfied he will take the ship, which the to meet difficulties of the soft, rubber- have many opportunities of discussing British Government will replace with an-With barley and like consistency of the brain matter, the advantages of South Australia and other vessel. wheat, the heaviest The clinic conducts only one opera- Australia generally, and he felt sure. The principal venue of the expedition is Processor A. E. V. dressings give the tion daily, and sometimes it takes all they would prove themselves to be am-believed to be an Antarctic quadrant in day. The mortality in the operations bassadors worthy of the State they re-connection with the less known areas. Seventy-two unfertilized wheat plots in is less than 10 per cent. Dr. Cairns presented. The sending of delegates to Britain suggested more than a year ago Seventy-two unfertilized wheat plots in disconstruction of the conference at Vancouver was the that Australia should further investigate outcome of the visit to the different the quadrant in view of its great potensitive of the soil.

Adolaide he had a label of the soil. Adelaide he had addressed a meeting at the Town Hall and discussed the practicability of sending a small delegration from this State. Professor Os- has been altered. borne had emphasised the desirability of having prominent citizens from Adelaide at the conference, and those present at the meeting were struck by the Imperial note sounded by him. He mentioned that the United States of America, with its huge population, had a great influence over the people of Canada, with its smaller population, and for that reason he desired that NEW CHAIR OF ECONOMICS the British Dominions of the Pacific NEW CHAIR OF ECONOMICS should be represented at the conference. The education systems of Australia and New Zealand differed very considerably from those of Canada, and the co-operation of the Dominions was Agricultural a matter which must therefore appeal of scientific forestry in Australia. Mr. to the imagination of the citizens of the three Dominions. In such cooperation there must eventually be the mutual gain. The exchange of opinion Mr. and ideas which the Vancouver conat ference would make possible, should be Australia's disposal means by which of great interest and advantage to all. Through the development of the ideals seven to 10 years before a new and im- students could study abroad forestry common to the people of the three Briproved wheat hybrid can be produced research, the result of which would be tish countries, there must be advantage to the world at large, and it was hoped be that the conference at Vancouver would witness the beginning of closer relamade available biennially as a prize tions between Canada and the Domi-The dele-

fications for candidates are a full ment, the Minister of Education (Hon. B. Osborn. The department will be carforestry course at the Canberra school M. McIntosh) supported the expres- ried on this year under the superinten-These investigations are part of a co- or its predecessor, the Adelaide Uni- sions of goodwill by the Lord Mayor, dence of Prof. Harvey Johnston as honooperative study into the mineral content versity, and two years' practical He was sure that as a result of the con-rary professor. of pastures by the Adelaide University forestry work in Australia. A further ference the term, "Adelaide for cul- The passing of the Agricultural Educain collaboration with the Empire Mar- condition is that the prize-winner, after ture," would more than be maintained tion Act by Parliament in 1927 laid upon keting Board and the Council of Scien- completing his European studies, must On behalf of the State he thanked the the council the obligation of providing return to Australia and serve in either delegates for the services they were adequate instruction for higher training in a Government forest department or voluntarily giving to education in agricultural sciences. Provision has ac-South Australia, and said he was sure cordingly been made for the creation of that the result would warrant their a Faculty of Agricultural Science, Reguefforts. Although Professor Osborne lations will be drawn up for courses of Greater Interest Excited. had also visited Melbourne and Syd-instruction leading to the degrees of Mr. Bruce said it was most grati-nev and had advised them to send Bachelor and Master of Agricultural

Expedition to Antarctic

DISCOVERY

(PUBLISHED IN 'THE TIMES")

LONDON, February 15.

Sir Douglas Mawson) Professor of University) has arrived in London. He declined to make a statement concerning his proposed expedition.

day afternoon. for Dominion Affairs), and will fully Mr. Bonython said delegates were also explain his plans, concerning which there being sent from Victoria and Newhave been extensive Anglo-Australian nego-

NEWS 18-2-29 PROGRESS AT UNIVERSITY

The Council of the University of Adelaide has decided, in consideration of the large number of students in the Department of Commerce, and in view of the importance of the subject, to create a Chair of Economics.

This statement is contained in the annual report of the university for 1928, made to His Excellency Sir Alexander Hore-Ruthven. V.C.

The report states that applications have been invited, and it is expected that an appointment will be made early in the

As funds were not available to provide the salary of an additional professor the council has decided not to fill at present

Waite Institute

Scientific and Industrial Research, each of which contributed £3,000 toward a laboratory for co-operative investigation on pagture and soil problems.

Dr. J. Davidson, formerly entomologist of Rothamsted Experimental Station. has been appointed as head of the entomological department of the Waite Institute.

The report points out that five tutorial classes, eight lecture classes, and seven study circles were held within the University. In addition three tutorial classes and one lecture class were held in the city and suburbs. Country classes were formed at Peterborough, Burra, Murray Bridge, Gumeracha, Riverton, Gawler Angaston, and Port Pirie.