Mr. Peaner outhined the trend of technical education in other States and countries. He considered it important that a boy abould be guided into the trade for which he showed special aptitude, and thus was a direction in which jumor techni-cal schools would be of service. Statistics allowed a marked decrease on the number of indentured apprentices in all trades, and a greater responsibility thus devolved upon the technical schools: It was desirable that the boy's workshop experience should be supplemented by carefully relected practical exercises, as well as by instruction in mechanical drawing, mathematics, and applied mechanics. Mr. Thompson Green advocated the en-

couragement of the apprenticeship system, with proper safeguards, and the attendance of apprentices at a technical school for theoretical instruction. The "faddist" should be discouraged, as, although be might acquire dexterity in the use of tools, he was not aiming at becoming a skilled

it could rely upon the co-operation of em-pleyers in the endeavour to provide for peopers in the ining of apprentices. The shop should be supplemented by the school, but the instruction should be given in the evening, as the employers could not allow their apprentices time off to attend day classes. Mr. Moulden stated that in his experi-

found that boys were able to render better the School of Mines. Although there were difficulties in the way of allowing boys time off during the day, he thought it would eventually be done.

Mr. Delderfield said he anticipated a large increase in the population of Aus-

tralia after the war. With increased population specialization in the workshops would become the rule, and a greater demand would be made upon the technical schools to give the artisan a general train-The meeeting carried the following reso-ution: That this committee affirms the

lesirableness of the curriculum for trade classes including practical work as well as theoretical subjects." "That in corder to promote closer relationship between the stops and the school, this committee rewith periodical reports on the progress of their apprentices." "That, in view of the increased attendance of students in the fitting and turning department of the School of Mines, the Government he strongly urged to provide additional accommodation and equipment." JUNIOR TECHNICAL SCHOOLS. Mesers MacGillivray and Price, M.P.'s, for Port Adelaide, have been informed by the Minister of Education that ac-

## will be given to the claims of Port Adelaide

tion is being taken to establish the first junior technical school, and consideration

and other districts in due course. Daily Gerald

AFFORESTATION

At the Forestry Conference, which was held in Adelaide coincidentally with the Premiers' Conference last year, it would recognised that the question of providing a thorough training for students had

## GOVERNMENT'S NEW PROPOSALS. SCHOOLS FOR WOULD BE WOODSMEN.

to be solved before anything else could be done in the way of improving fores, try development. New South Wales, as well as South Australia, is taking steps to put forestry schools into active operation, but South Australia has an auvantage over the mother State in that a

tost the machinery is already pro-tuest. A new scheme is being organised water. while making some radical alterations in the system of training, is based upon the policy which in the main has been operating successfully here for three or "The encouraging revival of public interest in the subject of forestry manifest

throughout Australia in the past year or two, said the Attorney General (Hon. J. H. Vanghan) on Saturday, "gives ground for hope that a brighter day is dawning in the development of our great timber resources. A serious timber shortage threatens us more and more every year,

and calls for a vigorous and settled policy of progress, in place of the drift and indifference which have generally

characterized the attitude in the past, alike of Governments and the general

attention to the subject it must be abundantly clear that, if we are to be in a position satisfactorily to meet the everlasting demands of the future, we cannot afford to lost a single day in the conservation of our native timbers and in the extension of our plantation and regeneration areas. The financial stringency now prevailing makes it impossible to launch out in many directions admittedly desirable in ordinary times, but there is no reason why we should not at once proceed to lay the ground plans for the future, so that, when normal conditions return, forestry in this country may progress on broader and sounder lines than have hitherto been possible.

"The Forest Department of South Aus-

under which it has labored, can boast a record of work accomplished at least equal to that of any other State in the Commonwealth. We have reached a stage of development, however, when, it we are to keep pace with other States and countries, we must replenish the forest service with a sufficient number of men, sufficiently trained and equipped, for the difficult tasks they will have to undertake. No permanent advance can be made until the question of forest education has first been settled.

"The forest school at the University of

Adelaide, established in 1912, has anreacy turned out ave efficiently trained assistant foresters with degrees or diplomas. Of these Assistant-Forester /Ser geant) McKail, B.Sc., sacrificed a lite of brilliant promise in the cause of his country. The other four officers mentioned are at the front, but at the conclusion of the war will take up their duties as assistant foresters. The terms course of training are varied in several respects in the present prospectus, and the boy now entering the service will enjoy certain advantages not contained in the previous conditions. "It must be admitted that the boy who decides to devote his life's energies to forestly must be willing to renounce

some of the social advantages accruing in other ocupations. He must be prepared to live in the forest, and to deny himself, for some years, at any rate, the attractions of city life. He will find, however, that forest life and work will compensate many times over for the disabilities. The State guarantees to him stability of employment and an opportunity, should his work prove satisfactory, of rising to the highest positions in the service.

"The conditions set out in the prospectus open two doors of entrance into the department. A boy leaving school has the

choice of entering either as a cadet or as an apprentice. If he enters as an apprentice he is taught his trade, like an apprentice in any other industry. Arter gaining knowledge and experience of firepractical training by a course of scientific study, and is not barred from changing over to the other branch of the service. This other branch is the professional division, which a boy enters who wishes to take up forestry as a profession. After giving the necessary years to study and application, taking the prescribed course of training at the university school and obtaining his degree as a bachelor of science, he will be guaranteed a position as assistant forester, from which he will rise as vacancies occur to the post of forester, and may nepire to become one day even chief forester of the State. Provision is also made in the prospectus for the returned soldier, who may become "The profession of forestry offers at

he is past the age prescribed in other tractions not to be found in any other sphere of industry. The infinite variety of the work, the open-air life, the healthy atmosphere, and the general environment in which he is called upon to grapple with the practical problems of timber producdant interest and make for the fullest development of a man's mental, moral, and physical qualities. I am convinced that when the attractions of forest life become appreciated at their true value there will be little difficulty in filling all available vacancies with snitz de men, and that in the course of a few years the Forest Department will possess a staff of enthusiastic and energetic officers with the requisite experience and training to enable them to manage the forests under their care on the most scientific and busi-

nesstike lines and serving their country under the best possible conditions.

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## ENCOURAGING FORESTRY.

Developing Timber Resources.

A well-considered comprehensive scheme in connection with a large policy in forestry was expounded by the Attorney-General and Commissioner of Forest Lands (Hon. J. H. Vaughan) on Saturday morning. For some time the Minister and the Lecturer in Forcetry (Mr. H. H. Corbin, B.Sc.) have been giving the subject close attention, and the proposals which have now been adopted have been designed to make the profession more attractive and to lead to an important development of our timber resources. "At the Interstate Conference held in Adelaide during the early part of last year," Mr. Vaughan explained, "it was recognised that the problems associated with education and training have to ne solved before anything else is done. In New Sopth Wales, as well as in South Australia, steps have been taken to put forestry schools into operation. We have had our school since 1912, and the machinery is a ready provided. The new scheme makes some very radical alterations in the eyetem of training, but it is based on the policy which, in the main, has been succossfully presecuted here for three or four YEARS.

-Serious Shortage,-

"The encouraging revival of public interest in the subject of forestry manifest throughout Australia in the past year or two gives ground for hope that a brighter day is dawning in the development of our great timber resources. A serious timber shortage threatens us more and every year, and calls for a vigorous and settled policy of progress, in place of the drift and indifference which has generally characterized the attitude in the past, alike of Governments and the general public. To any one who gives the least attention to the subject it must be abundantly clear that, if we are to be in a position satisfactorily to meet the everincreasing demands of the future, we cannot afford to lose a single day in the conservation of our native timbers and in the extension of our plantation and re-generation areas. The financial stringency now prevailing makes it impossible to launch out in many directions admittedly desirable in ordinary times, but there is no reason why we should not at once proceed to lay the ground plans for the future, so that when normal conditions return forestry in this country may progress on broader and sounder lines than has hitherto been possible. The Forest Department of South Australia, in spite of the great disabilities under which it has laboured, can boast a record of work accomplished at least equal to that of any other State in the Commonwealth, We have reached a stage of development, how-ever, when, if we are to keep pace with other States and countries, we must re-plenish the forest service with a sufficient number of men, scientifically trained and equipped, for the difficult tasks they will have to undertake. No permanent advance can be made until the question of The forest school at the University of Adelaide, established in 1912, has already turned out five efficiently trained assistant

foresters with degrees or diplomas. Of these Assistant Forester (Sgt.) McKail, B.Sc., sacrificed a life of brilliant promise in the cause of his country. The other four officers mentioned are now at the front, but at the conclusion of the war will take up their duties as assistant foresters. The terms under which they entered upon their course of training are varied in several respects in the present prospectus, and the boy now entering the service will enjoy certain advantages not contained in the previous conditions. It must be admitted that the boy who decides to devote his life's energies to forestry must be willing to renounce some of the social advantages accruing in other occupations. He must be prepared to live in the forest, and deny himself, for some years, at any rate, the attractions of city life. He will find, however, that forest file and work will compensate many times over for these disabilities. The State guarantees to him stability of employment and an opportunity anoual his work prove extissactory, of rising to the highest posttions in the service.

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prentice he is taught his trade like and apprentice m any other monetry. After geining knowledge and experience of focus life and work he may round off he practical training by a course of scientific study, and is not harred from changing over mis branch is the professional division, which a boy enters who wishes to take up forests; as a profession. After giving the accessary years to study and application, taking the prescribed course of training at the University School, and obtaining his degree as a Bachelor of Science, he will be gurranteed a position as Assistant Forester, from which he will rise as vaccining occur to phe post of Forester, and may aspire to pecome one day even Chief Forester of the State. Provision is also made in the prospectus for the returned soldier, who may become either a cadet or an apprentice, although he is past the age prescribed in other cases. -An Attractive Sphere-

"The profession of forcetry offers attractions not to be found in any other spore of industry. The infinite variety of the work, the open-air life, the healthy atmosphere, and the general environment is which he is called upon to grapple with the practical problems of timber production from seed to the harvest, supply an abundant interest, and make for the fullest development of a man's mental, moral, and physical qualities. I am convinced that when the attractions of forest life become approcested at their true value there will be little difficulty in filling all available vacancies with suitable men, and that in the course of a lew years the Forest Departand energetic officers with the requisite erperience and training to enable them to manage the forests under their care on the most scientific and business-like lines, and serving their country under the best possible conditions." -The Prospectus.-

In the Commonwealth of Australia there are at present 159,000 square miles of forest. Many of

The prospectua of the School of Forestry

present 159,000 square miles of forest. Many of these areas are very valuable, and are worth in the aggregate considerable sums to the Commonwealth. The importance of forestry is becoming widely recognised, and it is now realised that the best results cannot be obtained union modern scientific methods are prought to bear on forest land. As a result, the several State Governments of the Commonwealth are speading considerably more money on their furests than hitherto. Where large sums are involved it is clearly advisable to have skilled men to manage the business in the most efficient manner. Thus it happens at the present time that there are openings for a number of young men who have an inclination in the direction of an applied science which estails a certain amount of out-of-door employment on the land. These min must, however, he prepared to undergo the necessary training.

—Facilities for Training.—

To South Australia there are facilities for students to undertake, at very moderate cost, a thorough study of the principles of forestry. The

thorough study of the principles of loreotry. The training consists of an excellent minime of university work with an equal amount of outsing practical forestry in the State Department of Forests under the immediate supervision of the Lecturer in Forestry. During the academia year sendents attend lectures at the weeking the Lecturer in Forestry. During the academia year sendents attend lectures at the weeking the University, and during all the vacations they are engaged in work in the South Australian State forests. This State is an excellent training ground for foresters on account of the fact that there are forests in many parts of the State, from the dry north to the more humid southeast. It plants annually considerable areas of softwoods, and has also some very fine natural regeneration forests, and the olimatic conditions in certain parts necessitate careful methods. There is no doubt that other parts of the Commonwealth are more heavily wooded at present but alternately all forests will come under treatment similar to that which our students are being taught to apply here. Apprentices will be all mitted, as required to the forest service between the area of 14 and 18, if of good report, mitject to showing evidence of general physical fitness and ability to pass the cuttance test in realing, writing, and arithmetic. Pay and promotion midject to good report on work and other conditions being fulfilled, will then be a follow:

Apprentices during the first 12 months' service will receive 21 per week; 15, 22/1 16, 30/; 20/, 48/; 21, 54/; forest forement, as warments occur, and annuary superintecement, as warments occur, annuary superintecement, as warmens occur, annuary superintecement, as warmens occur, annuary superintecements, as warmens occur, annuary superintecements, as warmens occur, annuary superintecements.

Students between the ages of 16 and 22 who have matriculated, on the production of a great report and having been passed as physically at for the forest service, will be admitted periodically in limited numbers as required, and work as apprentices in the forest fee one year, receiving pay at the following rates:—Age 16 to 18, 28/20 week; 19 to 30, 42/; 21 and over, 48/2 member of the service who has reached the grade class for two years and has reached the grade forest workmen, may be admitted direct to the forest School subject to having passed the matriculation examination of any recognised university. On achestoting