silk, the latter industry alone being one adoption in Australia. Something, too. that threatens to subject the present will doubtless be said of the new use soft-woods resources of the world to an which forest fires have provided for airalmost unbearable strain. The State craft, which in America and Canada are selected for the conference happens to systematically employed for obtaining Lecture by Professor Clelandone that had exercised the minds of public be one which boasts of making exception early information of outbreaks, and even Lecture by Professor Clelandone that had exercised the minds of public be one which boasts of making exceptions and the general public tional progress in arboriculture. As the in conveying fire-fighters and appliances result of the passage of the Forest Act as close to the scene as aeroplanes can On Wednesday of 1918 the area reserved for tree-cul- bring them. Such controls act as a J. B. Cleland ture has expanded in ten years from kind of insurance, and the owners of laide University) soon will be, under tree-culture, including the 600 acres which were planted only last year with 600,000 pines. The attention already given in South Australia to the production of pines has not been without its influence on the Western State. So much is admitted by its Forest Department, which was stirred to action by the statement that South Australian pines are returning from stages of the "processing" perceive how sive scale than in the past. £1,100 a ton!

of its requirements. From its exports of ready been done there. sandalwood alone Western Australia CANCER FROM TAR. it is rare that a call for help in the extinction of a fire is deliberately ignored. But the results of a conflagration are often so disastrous that there are states in America which will not COMMERCE MAGAZINE.

especially newsprint, and also artificial of compulsion, and recommended its "HEALTH

# VALUE OF RESEARCH.

## Work at Adelaide Hospital.

Mr. J. G. Sleeman (medical superin-£250 to £300 an acre. The labor em-tendent of the Adelaide Hospital) when ticles. If persons breathed through their ployed in afforestation is far from repre-discussing on Wednesday the Common open mouths there was much more likelisenting all that is required to fit the wealth Government's offer for the loan of hood of foreign matter actually entering product for its various uses, and when it a quantity of radium for the treatment the lungs. The particles wandering cells comes to the manufacture of artificial of cancer, said that if the offer were ac-picked up might be portions of carbon cepted, the Adelaide Hospital would be from the smoke of the cities, or tubercule silk we may in following the various able to treat patients on a more extenand raised in the dust by sweeping car-day for Mr. John Horner's luncheon

employment. Standing, the pine is worth in the hospital for years, and certain con-ing in quartz and probably dry blowing. of the most difficult compositions for ditions of the skin, as well as cancer, had The tubercule bacilli gave rise to pulmo- that instrument yet written, the recital-£2 a ton; let it be felled and stripped been treated in a most beneficial manner, pary tuberculosis unless the individual had ist brought out all its beauty and granand another £1 is added to its value; The purchase of radium worth £100,000 tissues which were able to surround the deur in splendid style. From the allegro reduced by boiling to pulp its value rises by the Commonwealth, was made with a dense fibrosis and so limit maetoso at the outset, through the folto £8 a ton, and bleaching raises it to view to instituting centres throughout their spread. In the case of some perfor £8 a ton, and bleaching raises it to Australia, at which the element could be such as red pine dust or blackwood dust, fugue elaborated and adorned with semi-viscous and spun into silk that the pine before etternated in the contract of the pine before etternated in the contract of the pine before etternated in the contract of the pine before etternated with semiviscous and spun into silk that the pine before attempted in the Commonwealth quantities of horse dandruff or the emanareveals its latent possibilities, for the The Adelaide Hospital had not refused to tions perhaps dandruff, from a cat, would return at this final stage is no less than treat any patient with radium, althoughgive rise to asthma or bronchitis, which the quantity at the disposal of the insti-might become asthmatic. tution was limited. The erection of ex-From data submitted to the last con- tensive buildings sought by the Common- In referring to flies, the speaker pointed tic work. Mr. Gerald Healy sang the

such a miscreant as this that the Legis- the irritating substance which gave rise fever by a few weeks.

lature could have had in mind, or even to cancer was present to a very small Mosqui the ruffian who was seen in the bush at degree, but so far its chemical nature had Pickering Brook deliberately to ignite not been positively identified. Professor In and around Adelaide there were seve-

allow the response to such a call to The Adelaide University Commerce Stu- There was also an anopheline mosquito zoic (recent life) series. It discusses the be determined by personal inclination, dents' Association has issued the second (which was a possible conveyor of malaria) processes and effects of the submersion of the second (which was a possible conveyor of malaria) processes and effects of the submersion of the second (which was a possible conveyor of malaria) processes and effects of the submersion of the second (which was a possible conveyor of malaria) processes and effects of the submersion of the second (which was a possible conveyor of malaria) processes and effects of the submersion of the second (which was a possible conveyor of malaria) processes and effects of the submersion of the second (which was a possible conveyor of malaria) processes and effects of the submersion of the second (which was a possible conveyor of malaria) processes and effects of the submersion of the second (which was a possible conveyor of malaria) processes and effects of the second (which was a possible conveyor of malaria) processes and effects of the second (which was a possible conveyor of malaria) processes and effects of the second (which was a possible conveyor of malaria) processes and effects of the second (which was a possible conveyor of malaria). but render it obligatory on every person 1928 number of its magazine Commerce, and a salt water kind (which did not go large areas in the Cretaceous period, and summoned to help as far as he can. This progressive organization is quite in into houses, but was met with among trees of the raising of the Continental land To say that a man must tender his ser-touch with topical events, and its publica- and rank grass in damp gardens). vices whether he likes it or not may tions are noted for their informative not at first thought seem a good way articles. In this issue the editorial come of getting the best out of him; but as devoted to a welcome appreciation. The lecturer said it had been found that found in the successive formations, and the lecturer said it had been found that found in the successive afford in piecing of getting the best out of him; but as of the timely and increasing feeling of in adults dying at the Adelaide Hospital of the indications they afford in piecing the system works successfully in A sof the timely and increasing feeling of in adults dying at the Adelaide Hospital of the narrative of continent build the system works successfully in Ame-optimism in South Australia, and a sound 2 per cent. had had hydatid cysts, though together the narrative of continent building theoretical objections lose lose in interestingly written, rica theoretical objections lose much dissertation on business integrity. Among only about 5 per cent. had died as a resulting. The book is interestingly written, of their force. Probably there of their force. Probably there are the special articles are contributions on of such infection. The dog, of course, and is published as one of Handbooks of people who need a little processor. people who need a little pressing, and South Australian State Income Tax,' by became infected by taking hydatid cysts, the Flora and Fauna of South Australia, do not resent it any more than the state of the British and do not resent it any more than they A. B. Giles; "The History and Functions which were so frequently present in the issued by this State's branch of the Brasent doing by companies." The Printing is exresent doing by compulsion other things of the Commonwealth Bank of Australia," liver and lungs of sheep, cattle, and even tish Science Guild. The printing is exwhich, if they were left to themselves, by E. J. Colliver; and "The Governance pigs. If that offal were not thoroughly cellently done by the Government Printer, by E. J. Colliver; and "The Governance pigs. If that offal were not thoroughly cellently done by the Government Printer, of the United States," by C. G. Gordon, boiled, and the hydatid acolices destroyed, and the hydatid acolices destroyed, and the hydatid tapeworms might develop from sented Victoria at the Canadia. events, an official expert who repre-account of the features of this issue is an hydatid tapeworms might account of the remarkable progress of the their being ingested by the dog. Cases of the their being ingested by the dog. sented Victoria at the Canadian con-business of F. H. Faulding & Co., Limited human infection might arise from drinking the subject was done by the subject where done had bathed; conssed, was converted to the principle personal notes.

134,000 acres to over a million, with the plantations, whether Governments dress at he lecture room, North Terrace completely. To help to counteract con-134,000 acres to over a million, with the the plantations, whether Governments are not so foolish Institute, under the auspices of the South tamination of milk the cowyard should certainty of an early and a great ex- or private companies, are not so foolish Australian branch of the Health Inspector be kept clean, the cow's udder should be tors' Association of Australia. The sub-washed and its side brushed and moistened ject was "Health Reflections on Dust, to overcome dust, the mouth of the milk Flies, Mosquitoes, Hydatids, and Milk. pail should be as small as possible, and Mr. G. W. Holton (president of the the milk utensils should be scoured branch) occupied the chair, and there was thoroughly. In a large city much of the a representative attendance.

Dust and Its Effects.

the health of persons in a number of It should then be rapidly distributed and different ways. The intricacies of the be used as quickly as possible. inhaled air and free it from foreign parstages of the "processing" perceive how sive scale than in the past, and so on, and small particles of hour recital. Opening with Mozart's extensive and varied is the scope for He said radium bromide had been used quartz as in the case of goldminers work- "Grand Organ Fantasia in F Minor," one

Flies.

ference it appears that in respect to wealth to deal with patients under the out that those which congregated on one's air from Puccini's "Girl of the Golden forest products there would be no diffi- proposed scheme would mean a consider-back when out walking were of a different West," "Ch'ella mi credo libero" ("Let culty in making the Empire self-support- able expenditure, and probably the Statespecies from those known as the common her believe that I have gained my freeing, and even a prolific source of supply could not see its way at the moment to house fly. The latter was an introduced dom"), melodiously and expressively, to incur this. It was to be hoped, how species, which had accompanied the white the discreet pianoforte accompaniment of for the rest of the world. Already there ever, that a satisfactory agreement would man when he came to Australia and had Miss Jean Renou, A.M.U.A. The recital are countries which draw heavily on its be reached between the Federal and State found far from human habitation. The Chocur in C." Written by a totally resources. America, for one, would be in authorities. Investigations of great value bushfly was a native species, and, strange blinded man, it showed notable proa bad way for newsprint were it not for should result to the community, follow-to say, though the white man had now ficiency, and, as interpreted by the recithe forests of Canada, which supply the Council to assist in the research work with bushfly had not yet ventured into the vividly full of vigour and feeling. The Republic with not less than two-thirds the radium, for much good work had al-houses. The common house fly was not composer is organist of St. George's Free the only species which went inside. Dur- Church, Edinburgh, and the minister ing the winter time the common variety there, the Rev. Dr. Black, when passing was hardly to be seen at all, and the one through Adelaide recently, paid tribute to draws a revenue of £200,000 a year; and Following on the statement by Professor was readily recognised by its relatively The "Grand Choeur" was received with it is interesting to add that it furnishes Ewing, of New York, that coal tar pro-longer and narrower body. The lesser loud applause. Next Thursday's proall the sandalwood at present used in ducts produced cancer with a greater cer-house fly occurred in such small numbers gramme comprises works by S. S. Wesley, China. It may be expected that at next tainty than any known irritant, Professor that it was probably of no hygienic im- Rheinberger, Martin Shaw, and Villiers Brailsford Robertson (Professor of portance of pro- Bischemistry and Consul Physics and Consul Physi month's conference the question of pro-Biochemistry and General Physiology at the ever, was an insect of grave potentialities, recitals shows how highly they are appretection against fire will receive at least Adelaide University), whose work in confin as much as it was given to visiting ciated. as much attention as it did in Canada; nection with cancer research is well latrines and cesspits and might convey from the Commonwealth it is a serious Point, stated to a representative of Thethem to the kitchen the germ of typhoid for in the Commonwealth it is a serious Register on Wednesday, that it had been fever. That fly should be combated in problem, rendered so, one regrets to known for a long time that workers in every way. In addition to those three learn, by the unaccountable malice latent tar contracted cancer of the skin more species there were two common brown in the so-called "human form divine." frequently than did other people. A fewblowflies and several kinds of blue and One might scout as an exaggeration or a years ago a Japanese pathologist had green bottle flies. In dealing with the blunder the statement that as many as succeeded in inducing skin cancer in micehabits of flies and their numbers and thirteen fires were seen by a look-out was repeated at the laboratories of the under his observation, Professor Cleland Research Institute might be allowed to use in one district in Western Australia to Imposible Concern Research Foundation in observation, Professor Cleland Research Institute might be allowed to use in one district in Western Australia to Imperial Cancer Research Foundation in said that by such enumeration one was for a term of years approximately 100 have been deliberately caused by a London and confirmation in said that by such enumeration one was for a term of years approximately 100 that the Education have been deliberately caused by a London and confirmed; and they had con able to ascertain the relative prevalence acres of the area given to the Education horseman riding through the bush, if it ducted many experiments there with a of the various flies for each week of the rested on the testimony of any authority view to discovering, if possible, what converged, and he had found that the prevalence less unimpeachable than that of Mr. D. stituent of the tar was responsible for the generally anticipated the incidence of Education has approved of an area of Education has approved of an area of McVicar, the Head Forester. It is not very potent extract from tar, showing that lence preceded the prevalence of typhoid grazing land of approximately 15 acres on the country of the cou Mosquitoes.

the dry stubble, when it increased the Robertson added that he was sure every ral species of mosquitoes, which were which are being undertaken by the Waite maximum penalty for causing damage to medical man in South Australia wouldfairly numerous, and their habits were the forests by fire from no more than welcome the establishment of radium diverse. The domestic mosquito was to £5 to £100, with an alternative of twelve clinics in Adelaide. He was not ac-purely a domestic one, and was introduced £5 to £100, with an alternative of twelve quainted with Dr Burroughs, who hadto Australia by the white man. It lived months' imprisonment. Sometimes gone to Townsville (Q.) to supervise theentirely in the neighbourhood of human the object is to facilitate kan-establishment of a radium clinic in the habitation, its breeding taking place in garoo-hunting, which means that hospital of that town, and was later ontanks, both of the fresh water and septic for the sake of a few pounds there coming to Adelaide for the same purpose kinds, and in collections of domestic are men ready to destroy plantations but he understood he was recognised as water. It was a plain brown creature, Professor Walter Howchin, F.G.S., as worth thousands. On the other hand, an eminent authority on radium and its and it bit only at night, and then only achieving a monumental work in recording it is rare that a call for ball for in the dark. There was another mosquito the story of the rocks of our continent not quite so common which bit by day and in particular of this State, in his book, as well as by night. It was smaller and "The Building of Australia and the Suc blacker than the other, and had a beauti-cession of Life." The second part, just ful white lyre-shaped marking on the issued-there are to be three in all-deals thorax and white band on the proboscis. with the Mesozoic (middle life) and Caino-Hydatid Disease.

ference, where the subject was dis. There are also the usual association and from a waterhole where dogs had bathed; but it was more likely that such infection

REFLECTIONS." arose from touching and fondling dogs and allowing them to lick one's hands or face. Pure Milk Supply.

In conclusion, Professor Cleland said. the question of a pure milk supply was for many years. A pure milk supply was unquestionably of great importance. If evening Professor they could maintain milk relatively free (of the Ade-from germs it would keep longer and so gave an ad-have a better chance of being used up supply of milk had to be drawn from the country, and where possible it should be Professor Cleland said that dust affected to the city in bulk, and not in small pails.

## REG. 20.4.28 CONSERVATORIUM ORGAN RECITAL.

lowing fugue and exquisite andante con quaver figures, Mr. Horner played with the high art that conceals art. In Humperdinck's overture to "Hansel und Gretel," he enabled his hearers to understand why this composer rose to a high pinnacle of popularity, mainly on this opera-

# ADV2. 21. 7. 28

## WAITE RESEARCH INSTITUTE.

the south side of the orchard adjoining the area mentioned being leased to the University of Adelaide on a monthly tenancy.

masses in the Tertiary era. Descriptions and beautiful illustrations are given of the vegtable, animal, insect, and bird remains