19DV_ 24.7.26 STATE BANK BUILDING.

MATERIAL TESTED.

As the result of allegations made that mierior material, notably quarry sand, have been made at the instance of the con tractors (Messrs, Muller & Muller) of concrete blocks at the engineering testing laboratory at the University of Ade laide.

The contractors stated on Monday that these blocks were made on the job with the material concerning which complaints had been lodged. A representative o

the City Council was present.

The blocks were seven days old, branded May 27, 4 p.m.; mixture 1, 11, 3, and were 6 in, by 6 in, by 12 in, high. Each block had an area of 36 square inches Block No. I had a breaking load of 96,970 b., with a compressive strength of 2,091 Ib. to the square inch; No. 2, 97,600 and 2,712; and No. 3, 94,000 and 2,628. The blocks were set top and bottom in planter to ensure an even bearing. The result of the test was signed by Professor R. W. Chapman and dated June 9. Three blocks 32 days old were also sumbit-These reports were dated June 29, and were also signed by Professor Chapman.



Mr. G. D. Mudie

who has been appointed town clerk and surveyor of Hindmarsh. He was educated at Kyre College (now Scotch College) and i has a Bachelor of Engineering degree of Adelaide University and a Fellowship Diploma of the South Australian School of Mines. Mr. Mudle, who is a son of Mr. H. M. Mudie (formerly manager of the Savings Bank of South Australia) is a member of the South Australian Cale donian Society.

NEWS

University Debates

University debates to be held in Mel-Sourne in August would be held within the next few days.

Angust 27, the final debate will be con-

she reached Sydney by the Acrangi on The Rev. Brian Wibberley, Mus. Bac. Juring the next two or three days. Pro-aid that it would not be becoming of essor Mitchell also visited the McCilliam to make a statement, Secreto University.

CHURCHMEN

State Bank building in Pirie-street, tests University Celebrations in St. Peter's Cathedral

ALLEGED PREFERENCE FOR ANGLICANS

In the programme issued for the forthcoming jubilee celebrations of the University of Adelaide it is stated that there will be a "Cathedral service" on Sunday afternoon, August 15.

This has not met with the approval of members of some denominations other than the Church of England. The action

B.D. (Principal of Parkin College).

(chairman of the Congregational Union), the whole the Cathedral is the most fit-

No State Church

"I take it for granted that there is no which other churches should share. The question that the Bishop would prohibit University belongs to all the people, and leading Free Churchmen from taking all should be represented in any public part in that service. The University has thanksgiving. I wish this could be are thus identified itself with a particular ranged." section of the church, and both the Roman Catholic people and the Free Churches have a legitimate grievance.

"Representations have been unofficially made to the University authorities, and we have been told that they are following the precedent of Melbourne University. This is undoubtedly a bad one.

announced that trial debates to chooseall sects should have been arranged in the soil:-Nitrogen, phosphorus, potasthe speakers who would represent The action is sectarian, and there is sium, calcium, magnesium, iron, and sul-

Not Sectarian Celebration

authorities has been gratefully acknow- Generally speaking, magnesia was founderstood that the Rev. John Davidson has ledged hitherto. It is not impossible to to consist mainly of salts of sodium. The owing to his duties in connection with

Friday, is expected to return to Adelaide(president of the Methodist Conference)

Iniversit in Montreal, Canada, and the Prof. E. H. Rennie (acting Vice-Chan-Imous Hart House, an adjunct of the ellor of the University and chairman f the celebration committee) declined to offer any comment.

was this morning described as sectarian and unwarranted.

foundation was due largely to the muni- "One place is as good as another," said important fertilisers were phosphate,

nominations."

pe a united one.

ting place. "The ideal would be a service there in

ADV. 28.7.26 THE SOIL.

LECTURE ON CHEMICAL PROPERTIES.

and the University has no right to diston "The soil; from the physical, enemiser applied to the crop which produced the criminate in giving preference officially cal, and biological points of view," was applied to the crop which produced the construction one or other religious body.

"If any religious section should have (Waite Research Institute), at the Unitary the pre-eminence in South Australia it versity on Tuesday night.

The lecturer said one of the most inshould be the Free Churches, which con-Darmey Naylor presided.

The South Australia it versity on Tuesday night.

The lecturer said one of the most institute of the construction of the soil was that the construction of the construction of the soil was that the construction of the constru

"The University." Mr. Stevens pro space, water supply, suitable temperatures, cases carbonate of lime, if ground soffinthorities of Union College, who factors, and, in addition, adequate root vice. The ideal soil was that which was their own funds to the foundation of the importance to the plants, as the roots With the present cost of labor throughout University of Adelaide. The best was rounded to the plants, as the roots With the present cost of labor throughout the world, facmers frequently found it University of Adelaide. The best waywould not function unless an adequate the world, farmers frequently found it for the University to get over their supply was present. If the soil was advisable to grow crops suitable to their andoubted difficulty and to act in a fairwaterlogged, any oxygen in the water was soil conditions, rather than to purchase and democratic manner is to arrange for soon used up, and plants, with the pos- lime. An interesting modern test for soil Catholie Cathedral, the Anglican Catherapidly. The next item to be considered of Leeds University. A small quantity dral, and a united service for Freewas water supply. The relationship be of soil was shaken up with a reagent, Churchmen in the Adelaide Town Hall, tween the yields of crops and the rain, which was a five per cent, solution of "As a member of the University Senatefalls was sufficiently marked in South potassium salicylate. Acid soils developed I was surprised when I got my pro-Australia. There was a certain factor a reddish color, whereas alkali soils genebeen arranged," said the Rev. A. C. Hillwas whether summer rains were desirable they did it was a yellowish one. The test (secretary of the Baptist Union). or otherwise. There was evidence that was of value to the practical man, for "There is no State church in Australia too much rain in the summer was not de he could determine in a short time and it seems wrong to cut off from the sirable from the point of view of the whether his soil was in need of lime or Mr. C. R. Colquboun (secretary of the service other denominations. I should wheat producer. The food of the plant; not. South Australian Law Students' Society) think that a general service to include was derived from the following elements

at the inter-no reason for it in a State University. phur. There were other elements which were possibly needed in small amounts, but when they were present to too great

On Monday, August 23, Melbourne and "It is obvious that the jubilee of the Dealing with the question of injurious following will debate, and the University should not be merely a secta-factors, the lecturer said anything that following day Sydney and Queensland, rian celebration," remarked the Rev. L. might injure the plants must be absent On Thursday, August 26, a debate will be N. Beurle (minister of the North Ade- as in the case of boric acid. One of the From The Register, Wednesday, July 26, "The assistance rendered in the found ence of salt, which was known to the ing of the University by Free Church South Australian farmer as magnesia derstood that the Rev. John Davidson has make the service a united one. I trust that it will not be a purely Anglican serpose to the Vice-Chancellor of the Adelaidesice, and that Dr. A. N. Thomas (Bishop Eniversity (Professor W. Mitchell), whoof Adelaide) will see his way to associated with the presence of sodium have been entered into to secure a ministerial week at the University of Aberdeen, and Contributed to the foundation of the property of Aberdeen, and Contributed to the foundation of the University of Aberdeen, and University."

The Vice-Chancellor of the Adelaidesice, and that Dr. A. N. Thomas (Bishop associated with the presence of sodium have been entered into to secure a ministerial way as nearly aways connected with the from Scotland, and in the meantime seepage. Under arid conditions the salts was nearly aways connected with the foundation of the University."

The problems of drainers of drainers of drainers of drainers of drainers of drainers in the duties in connection with the Adelaide University absorbing so much most dreaded was black alkali, which was of his time and attention. Arrangements have been entered into to secure a ministerial way as nearly aways connected with the from Scotland, and in the meantime seepage. Under arid conditions the salts was nearly aways of drainers in the Adelaide University absorbing so much most dreaded was black alkali, which was the Adelaide University absorbing so much the Adelaide University absorbing so much most dreaded was black alkali, which was the Adelaide University absorbing to his dreaded was black alkali, which was the Adelaide University absorbing to his dreaded was black alkali, which was the Adelaide University absorbing to his dreaded was black alkali, which was the Adelaide University absorbing to his dreaded was black alkali, which was the Adelaide University absorbing to his dreaded was black alkali, which was the Adelaide University absorbing to his dreaded was black alkali, which was the Adelaide University absorbing to his dreaded was black alkali. levels. The problems of drainage in irrigation settlements were just as important as the problems of supplying irrigation water, and there was no doubt many serious difficulties had arisen in the Murray Valley in that connection. A cure for soil alkalinity was discovered many

years ago in California by the use of

gramum.

tant the mechanical texture of the soil was to determine the sort of crop to be grown. Having decided the crop, the chemical nature of the soil would often determine if the crop could be grown profitably or not. Practically all Australian soils were deficient in phosphates. They had some notable exceptions in the South-East, particularly the volcanic soil of Mount Gambier, and related areas. A chemical examination of the goll was an exceedingly complicated process. The soil chemist was still exercising a cousiderable amount of thought and time in davising methods which would give the intormation desired by farmers. The coemical propertes were interesting and important. The soil was an absorbtive power for fertilisers and various substances. By virtue of the large surface offered by the sum total of the particles, many important chemical fertilisers were retained, and were not washed away by the cases of sulphate of ammonia, potassium, and phosphate fertilisers. In the case of nitrate the fertiliser was not retained, and was gasily washed away by rain. On that account, nitrate fertilizers were generally applied to the growing crop. The earliest fertiliser was farmyard manure. It supplied not only the necesof the University and the fact that its"One Place as Good as Another" sary foodstuff, but the required organic on June 9. Each block had a breaking the late Dr. James Jefferis, it seems ex-not make the least difference where the important elements in the soil. In Australia phosphates were reported the late Dr. James Jefferis, it seems ex-not make the least difference where the important elements in the soil. In Australia phosphates were extraordinary that the council of the Universervice is held. square inch, and each block went beyond which is apparently to be limited, so farof the Church. It was probably the amounts of phosphate in South Australia the capacity of the machine without failure, as participation is concerned, to Anglistetion of the University. At the same was so striking that it had attracted the cans," said Principal E. S. Kiek, M.A. time, we do not want to hurt the feelings attention of scientists throughout the B.D. (Principal of Parkin College) of those who are members of other detensively used fertiliser because of its "The action of the council has caused "Bearing in mind the part taken by the water solubility, which made it valuable much surprise and even indignationather churches in the founding of the Uni- in dry country. In Germany and Italy among members of the non-Episco-versity," said the Rev. G. H. Wright, attempts were being made to produce palian churches, especially those who are M.A. (of Stow Memorial Church). "I am phosphates more cheaply from rock phosphates more cheaply from rock phosphates." graduates of the University," he added. forry that the service arranged is not to phate. The effects of phosphate on pas-"As chairman of the Congregational 'I jutended to refrain from saying any- of life. Such plants as clovers were en-Union I desire to enter a protest against thing about this water the celebra- couraged, so that the relative importance the action of the University Council intions, because I was anxious not to create of grasses, clovers, and other herbage was arranging to celebrate the jubilee of then controversy likely to spoil the spirit of changed. The value of potassinan salts University at St. Peter's Cathedral,"the service which the University Council was well known, but in Australia few instated the Rev. A. C. Stevens, M.A.has sanctioned, and for which, I think, on stances had come to light where potassium fertilisers were of any value. In South Australia the effect had generally been a depressing one on the yield. Nitrogen was not usually employed for cereal crops in Australia on account of the fact that one half the value of fallowing was that suitable nitrogen compounds were accumulated in the soil for the use of the following crops. Quick-growing crops like maize and sugar cane, and leaf crops like vegetables, were generally in need of nitrogen. The problem of the supply of nitrogen compounds before the war was a serious one, but it had been solved by industrial chemists in a magnificent way, In the matter of fertilisers an important law, which had been established, was the There is no State Church in Australia. The second of a series of three lectures law of diminishing returns. Generally

His first lecture pointed out how impor-

Democracy Passed Over

REG. 28.7.26.

FIFTY YEARS AGO.

