REGISTER, ADELAIDE, WEDNESDAY, AUGUST 27, 1924.

# SCIENCE CONGRESS IN FULL SWING.

### REAL WORK IN EARNEST. SECTIONS BEGIN

# INTERESTING PAPERS DELIVERED.

The members attending the Congress of the Australasian Association for the Advancement of Science began their work in real earnest at the University on Tuesday morning. All 14 sections were at work, and many interesting papers were delivered. The deliberations will be continued to-day and during the week.

#### MONETARY POLICY.

150.

#### Reactions Upon Australia.

D. B. 'opeland reviewed recent theories of mot y and noted their application to Austre a. He pointed out that it was a mistake to make a clear distinction between current thought and that of the nineteenth century economists. Presentday economists were continuing the work could be prevented. of great thinkers like Ricardo, and Mill, in whose writings would be found the germs of modern theories of the gold exchange standard and credit control. Developments in certain banking and currency during and since then had made possible the application of new ideas.

Return to Gold Standard. The longing for a return to the gold standard by bankers and business men was natural; they were accustomed to its work- his Presidential address to the menta ings, and by contrast with war-time money science and education section, spoke in systems it was greatly superior. But it terestingly on the subject of "Vocational was a defective standard in that it allowed guidance." An earnest effort had been of considerable fluctuations in prices, was made in the educational systems of this costly, and was to some extent inelastic; and other countries so to shape the pri-Recent contributions to monetary science mary and super-primary school courses as had shown that the gold standard was to include special training to discover and per erless to control the credit cycle. Fur- develop vocational aptitude. It was inther, under the gold standard stability of evitable that in the ordinary course of foreign exchanges was achieved at the ex- things that should happen, because if annumental manuscript manuscri pense of fluctuating internal prices. It education were to have any real value it level should be kept stable at the risk of efficient citizens. fluctuating exchanges. The two import-It was necessary to use the power of isand to adopt safeguards against long period price changes by keeping reserves of gold or notes in conformity with credit needs. That could be done by means of a central bank which would be a feature of growing importance in the monetary systems of the world. For Australia it would be sufficient to maintain the connection with England through the exchange. At present the exchange situation was due probably to accumulated funds in London vate-and the favourabl eexport season. would be met by increasing gold supplies. I relative merit, but apart from those as-That would be followed by a rise in prices in Australia, causing imports to increase and exports to contract. At present there was no such automatic correction.

Note Issue Restricted. On the contrary, the note issue was restricted and prices were falling slightly. The correction was that notes should be increased. Under the new arrangement with the Commonwealth Bank it would be selling of securities which affected the supplies of credit available to private banks. Those open market dealings were essential for the success of central banking, and Australia should study the recent experience of the United States. Gold was not allowed to affect prices, and if it should be restored, some arrangement would be of gold which obtainable should adequate. control follow which production, and unemployment.

tain and the United States had now recog ' nised that and were acting upon it. was quite possible to maintain price stability if that policy were closely followed: The future of the price level rested partly with these reforms and partly with the supplies of gold. Before the war gold sup-In his presidential address to the social plies increased at the rate of about 3 per and statistical science section, Professor cent. per annum, but now the rate was 2 per cent. Gold would not circulate to the same extent as before, so that the reduced supply could be offset by increased economy in use. Existing supplies wer adequate to sustain existing gold prices and with wise control any serious deflation

# VOCATIONAL GUIDANCE.

# Placing Australia's Youth.

Fitted for His Calling.

were to prevent long period changes in the either happy or efficient if forced to live of the country. price level and to eliminate the evils of the a life of work in a calling for which he but ness cycle. The simple restoration was fitted neither by taste nor aptitude. The lecturer then gave many instances learning, out of which in the hours of his the natural aptitude of school children, through borrowing-both public and pri- did nothing, those who thought and did, nounced aptitude. and those who did and thought not. Each in touch with very Under the gold standard such a situation division probably had its value and its those to

pects it was very important to make the job fit the task. The case of a man who was in a merely operative calling-who was capable of thinking as well as doingwas as great a misfortune as that of a man who was a doer merely put to carry out work which required thought as well as manual dexterity. In the one case there was capacity and ability wasted. fixed rates. Notes could be issued against unhappiness. The sum total, however, bills and contracted at times when remit- of the whole sorry business was that the tances abroad were being demanded in any community lost materially and spiritually manner, mainly through the buying and blem. A satisfactory entry into a calling was not completed until a period of pupilage or apprenticeship was served.

Apprenticeship Training.

Mr. Nangle dealt with the various attempts in regard to apprenticeship training, which he contended must be connected and closely co-ordinated with what upon index numbers of prices, ings could be classified as regarded native from 80 to 100 days, was given, followed fraction of what the consumers paid. There by a region of service as ings could be classified as regarded native by a region of service as ings could be classified as regarded native by a region of what the consumers paid. The old capacity and attainments required to sucpolicy of watching the reserve ratio in consulty follow them; that that capacity



PROFESSOR N. T. M. WILLSMORE, Vice-Chancellor of the Perth University.

was now thought that the domestic price had to be planned to produce happy and and that boys and girls so classified could be led and directed into their proper callings by organizing a close relationship beant problems before monetary science It was impossible for any citizen to between the schools and the industrial work

of the gold standard would solve neither. It was true that he might have much of successful experiments in ascertaining sning credit to control the business cycle leisure he would find cultured enjoyment. During the last 20 years many thousands and, in a measure, even consolation for of boys had been brought to him with a the tragedy of his uncongenial working view to getting his advice as to what hours; but he could not live the full life callings they should enter. Interviews of the man who was in his true vocation with the boys had generally lasted from and in consequence had an avenue for one-half to an hour. Those periods, the expression of his special qualities, and though all too brief, had nevertheless been to whom the following of his ca ling was sufficient to enable him to gather, in most a matter of pleasure rather than other cases, quite useful information as to the wise. The people of the world might be general intelligence, school achievements, said to consist of—those who thought and and the absence or otherwise of prohad many whom he had given advice about suitable callings, and although there had been many failures, it was both interesting and pleasing to know that the advice given had been useful in the greater number of cases. It was especially interesting to find that there had been a fair measure of success even in those cases where the boys themselves were decidedly uncertain as to what they would like to learn. Evidently in these instances he was able to discover qualities comparatively easy to arrange for the and almost certain'y discontent. In the which had remained undiscovered by ready purchase and sale of exchange at other, there was inefficiency and probably either themselves, their teachers, or their

Apprenticeship involving the serving of a term was an orderly method of progress quantity. That would provide for an auto- It was impossible even to approximately from school to the standard of competence matic expansion and contraction of cur- estimate the state of things in that respect in a trade or profession. Its disciplinary rency against the exchanges. Such an in any country. Judging from the obser- value was very great-but even greater arrangement was quite consistent with vations which could be made it was very was the consciousness of sacrifice, which Australia's economic situation, provided general, and that was so in spite of the was very real in these days of highly paid always that British prices did not fluctu- whole-hearted efforts of the educationa- unskilled boy labour. That which was ate seriously. For both United States lists already mentioned. Actually, how- gained as the result of service and sacrifice and Great Britain it would be necessary ever, the matter was not one that could was held in esteem. Journeymen who had curses of modern life was unemployment. The be handled wholly in the schools, though seriously served a period of apprenticeship. They had in Australia at the present time Federal Reserve Bank in the United States the latter had necessarily much to do to-had so far achieved that in a remarkable wards the proper working out of the promuch greater pride than did those who; had drifted casually or haphazardly into employment as tradesmen or even professionals. Unfortunately, however, it was impossible to avoid recognising that in spite of everything that had been done to re-establish under modern conditions The deadening effects of monotony of work the old apprenticeship system, the practice made whereby fluctuations in gold supplies was done in the schools. Without going In all the industrial laws or awards, apwould not affect the price level. Pro- as far as saying that all children should prenticeship was mentioned, and in most ing suitable provision. fessor Irving Fisher's plan for varying the be measured for intelligence and school of those in the skilled division only those would achievement, and their vocations fixed as who were apprenticed were allowed emnote, a result of those measures, it could be playment. Latterly in Australia and in An addi- claimed that some useful estimate of voca- other countries special training schools tional feature of monetary conditions tional fitness was practicable, and that it had been established with a view to relievrational was possible to establish a ready passage ing a severe scarcity of skilled workers in reserves should from school to the learning of a suitable several of the building trades. In those be calling. In short, that most of the call, schools an intensive training, extending

being made under the industrial laws, which in Australia seldom made it possible, or at any rate easy. Unless aras apprentices the necessary number of young people there would most certainly be a very serious shortage of Australian born skilled artisans in the country in the very near inture.

COST OF MAN.

Efficiency in Civilisation.

#### Professor H. E. Whitfield's Solution.

"Efficiency in Modern Civilisation" was the subject of the Presidential address delivered by Prof. II. E. Whitfeld before the engineering and architecture section. Prof. Whitfeld said that workers in pure and applied science were naturally dis-posed to take the rosy view of human progress. For the last two centuries the engineers had been adapting the forces of nature to the service of man so successfully as to change the relationships of various factors which controlled civilised life. During that period the use of mechanical powers and of other scientific discoveries had increased the production

per head to 15 or 20 times its former value. Even in the early days of the mechanical revolution, it was dimly discerned that new evils were arising under the deranged conditions. In the matter of mechanical development they had devoted an immense amount of thought and patience towards improving their efficiency, and had done well. In the matter of social organisation and government they had done very badly, and in several important



PROFESSOR D. M. Y. SOMMERVILLE, President of the Mathematics Section of the Congress.

respects their civilisation appeared to be much less efficient than to the sixteenth and seventeenth centuries. They might say that a nation was 100 per cent efficient when all its individuals could work to their best capacity and freely develop their faculties. The general efficiency of the United States was considered by Gant to be about 5 per cent. at the present

Reasons for Failure.

The failure to secure better results in spite of their wonderful opportunities was, of course, in the ultimate analysis due to inherent defects in human nature, but the failure was also due to social diseases which had spread under modern conditions and which they had not troubled to remedy. Chief among those were such evils as unemployment, monotony of work, and high cost of distribution. Each of those problems appeared to be capable of solution if it were resolutely faced and attacked scientifically. One of the greatest curses of modern life was unemployment. an immense amount of work to be done, and there were some people in Australia. and millions in Europe, willing to do it. They had an abundance of food and materials, and could make the tools required for the work. Looking at the problem impartially as scientists, they could say it was by no means incapable of solution. due to specialization were hard to estimate, but much could be avoided by mak-

#### Distribution of Goods.

Dealing with the high cost of distributing goods, Prof. Whitfeld said that in simpler communities the producer marketed his own goods, and received practically the full value paid by the consumer. At present it was notorious that employ gent of improvers. The seemed to be no scientific reason why the Both Bri- could be estimated during school life; only consequent upon special arrangements expensive process, and when they found employ aent of improvers, however, was distribution of goods should be such an only consequent upon special amount of goods should be such an only consequent upon special amount of goods should be such an only consequent upon special amount of goods should be such an only consequent upon special amount of goods should be such an only consequent upon special amount of goods should be such an only consequent upon special amount of goods should be such an only consequent upon special amount of goods should be such an only consequent upon special amount of goods should be such as distribution of goods s