have been exacted, and have only been possible of execution through the scrupulous good faith and consideration of all parties. Since November 1 practically the entire civil population of Belgium has been dependent upon the Commission for bre.4 and many other necessaries. As the result of the industrial paralysis 2.750,000 people are reduced to destitution; and another 500,000 would have been starving even had food supplies been available, but for the financial operations of the organization.

Three departments of mark were

created by the Commission-respectively the provisioning, the financial relief and exchange, and the benevolent departments. The first is charged with the duty of revictualling the whole 7,000,000 inhabitants with necessary imports; and up to June 30 it bad either delivered or in stock over 600,000 tons of foodstuffs for Belgium, of the gross value of more than £9,400,000. These foodstuffs are resold through a broad system of reticulation, and the profit earned-£987,000 to June 80-is devoted to the support of the destitute. Through the operations of the financial relief and exchange agency, large sections of the community are rehabilitated in income, and saved from sinking in the mire of poverty. Remittances and loans to June 30 aggregated about £4,000,000. In the benevolent department the charity of the world and of the Belgian people themselves is mobilised for the support of the necessitous. The expenditure in this direction up to June 30 was £5,000,000; and it is now proceeding at the rate of £1,000,000 a month. Beyond this outlay is a large amount of local charity-now exceeding £2,000,000. The response of the American, British, Australasian, and other people to the plea on behalf of the Belgians has been "without parallel in international philanthropy." Without it, success in the prevention of starvation would have been impossible; and it must continue, because individual reserves and local resources are surely declining. "The growing and gloomy problem is that of unemployment, for month by month a larger proportion of the industrial mass of over 3,500,000 people falls further and further into destitution." In addition to the Belgian work, the Commission since April last has been provisioning 2,300,000 civilian people in that portion of northern France which is occupied by German armies. The district is mostly of an industrial character, and is normally dependent for the larger share of its food supplies upon importations from other sections of France. The inadequacy of local production, with the destruction resulting from military operations, caused a shortage of food which threatened the population with famine in its most acute form. Regular weekly cargo steamer services are maintained from North America, River Plate, Indian, and British ports, and the ships are immune from attack. At Rotterdam the foodstuffs are transhipped into a large fleet of lighters, and these are towed down the canals to warehouses and milling centres throughout Belgium and Northern France. The gigantic tasks of the Commission are performed with increasing efficiency and careful atten-

tion to detail; and the wonderful suc-

cess of the organization is a monument

to the zeal and devotion of many scores

of thousands of voluntary workers of

both sexes throughout the world....

Regulary. 14.10.15
STATE ORGANISATION OF SCIENCE.

ITS APPLICATION TO INDUSTRY.

A paragraph appeared in "The Adver-

tiser" on Monday in which it was stated mi that in discussing the scheme of the B 11678 tish Government for applying science me Th effectively to industries, and the w COD dom of extending it to the Dominion Eul. Professor D. Orme Masson, of Melbourt COL tha on Saturday expressed the opinion the KB the science of Australia, as much as the her of Great Britain, required organising ro make it available for national purpose WA der Professor Kerr Grant, of the Adelaide Ur car versity, agrees with Professor Orme Ma son's view that there is need for a bett organisation of science in relation to the 8p. State.

"There is nothing, in my opinion," I ma said to a representative of "The Adve ins tiser" on Wednesday, "with which n exp tional efficiency and progress are three closely bound up as this problement of effectively organising scientific known of the community. It should be underpressioned stood, however, that I use toe working science in its comprehensive sense, anavewould not quarrel with the social or ecosin nomic reformer was claims priority of imsuf portance for his remedies for social evil he provided only that these receive the sanction of social or economic science. Thu ocal branch of the British Science Guild bas, in fact, during the past few years advocated several legislative measures of social reform, two such, for example, referof venereal disease. So far as regards the application of science to industry, it is obvious that opportunities here for this are much more modest and restricted than in such countries as Great Britain, Germany, or the U.S.A. In Germany for many years, and now, I believe, to an increasing extent in America, it is the practice for large industrial concerns—take as examples the Baden Aniline Dye Company and the General Electric Company of Schenectady, N.Y.—to organise a special department of research, manned by men of first-class scientific training and calibre." Does it pay? "In the long run, and often after re-peated failure, it does. The German

ing sulphuric acid. The very first year's return from the perfected process recouped them handsomely. Similarly, the General Electric Company wasted hundreds of pounds in experiments with X-ray bulbs until finally their expert evolved a new type, which in a few years will entirely replace the old in the markets of the world."

It is a costly matter evidently.

"Yes; such research departments and experiments as these can, obviously, be supported only by large industrial organisations. Failing these, it is the natural province of the State to organise a general

Aniline Dye Company spent thousands of pounds—with no certainty of final success

"Yes; this principle has happily, already received recognition from the Governments of the various Australian States, not least by that of South Australia. The

research laboratory for the solution of its

You have noticed that the Government

industrial problems.

present Minister of Industry in South Australia recently announced his intention of creating a special department for chemical research on certain specific problems of commercial importance to this State. This is a step in the right direction, and may lead to big things. The late Governbined the offices of professor of botany at the University and State vegetable pathologist. Other departments at the University also assist the work of various State departments. But there is room for much extension of this co-operati n. This research work, in applied no less than in pure science, should in fa t be regarded as the prime and not merely as an acci-dental function of our State universities. The University should be the research labo ratory of the State." Could it be worked without in uring the University?

University?
"Such an extension of its activities would

in no wise impair the efficiency of the University as an institution for the training of professional men. On the contrary, nothing so stimulates the interest of tea her and student alike as contact with the actual problems of his science, as opposed to the necessarily concepted problems of the claseroom. The advantages medical standents derive from participation in hospital work would then be shared by students in all the acplied a length of attacking these problems.

might be assigned, under direction, to the best brains among the graduate students. This is the solution of the biggest of all commercial problems to utilise to the fullest advantage the brain-power of t e community. Applied to any other purpose than the creation or application of near ij knowledge, such brain-power-I do not 비 here include the genius of the artist-is, from an economic point of view, atterly wasted. A Faraday or an Edison on demned to the routine of an office! Who can calculate the loss?" How would you proceed with the scheme? tl "Let us suppose that Mr. Peter Waite's splendid gift of land to the University be made the basis of an agricultural research e institute, endowed with a wise liberality, to permit of extended experiments by ar n expert staff on the problems of wheat breeding. Let us suppose that these ex lesperiments result finally in the project of onof a wheat that will yield a single bushe adonly per acre more than the varieties a despresent cultivated. This is no extravagar supposition. Taking 2,000,000 acres as of anaverage area under crop, we see that the ecosingle result of scientific research wou imsuffice to lift from our shoulders for evi by the whole financial burden of the war."