The Central Grant of last winter is also to be doubled, alluded to the question of rescue apparatus. there is much ingenuity in the proposals of the Govdane, and the augn entation of the loan to local authorplied to the Local Government Board to sanction loans such arrangement might be made without delay. amounting to £1,500,000 to be expended on additional public works, and many of them have hastened the execution of works sanctioned in previous years. In addition, considerable sums-Glasgow leads the wayhave been raised by voluntary subscription. The outlook for the unemployed is therefore distinctly brighter. There are now many agencies at work apart from what the Government intend doing, and there are signs of a revival of trade Orders, apart from those of the Admiralty, have been received by Clyde shipbuilders, and it may be that the winter, which so many poor people have dreaded, will not be so bad after all. That the Government have done their best; that they are in earnest in trying to alleviate the sufferings of the poor is evidenced from the attitude of the Labor party; but we trust that Mr. Asquith will be able before this Parliament ends to strike a real and effective blow at the cause of unemployment in this country.-Glasgow Mail.

## LIFE SAVING IN MINES.

Recently, at Leeds, Sir Henry Cunyinghame, in proposing the toast of the 'Mining School of the University of Leeds," alluded to the experiments to test Colliery, if they proved successful, as the most valuable or in some other way, was capable of resisting the meet requirements for some eight weeks. All that it flame of an explosion. If that could be done, isolated is necessary to do is to install the charged cylinder in zones could readily be established where it was pract he receptacle supplied for the purpose outside the tically impossible to keep a whole mine free from dust, building, connect it up to a small tank in which the The cost of isolated zones would be less, and a greater pressure is regulated, ann then admit it to the ordinary measure of safety would be secured. The newspaper piping system of the house. When a cylinder is

local authorities to borrow something like £1,500,000 before Mr. W. E. Garforth, and those associated with for new work. The Post Office will take on at Christ- him in this work, could really say that complete sucmas 8,000 extra men; the War Office are prepared to cess had attended their experiments, and that the proaccept 24,000 men for the special reserve; and the blem had been really solved. Still, they could say Admiralty, by a change in its programme, will spend this much, that its solution never looked so hopeful as an additional £2.000,000 on work in the dockyards, at the present moment. Sir Henry Cunyinghame also thus making available the sum of £300,000. As Mr. quarters there seemed to be an opinion that the rescue Asquith himself admitted, all these schemes are mere apparatus was such a triumphant success that there anodynes and temporary palliatives, but considered was nothing now to be done but install it in every solely as a temporary effort to meet a pressing need, mine in the country. He himself was a strong advocate of this apparatus, and he believed it would ultimernment. The employment of extra hands at the ately prove successful, just as he believed before long Post Office-there are always a veral thousand extras' we should have flying machines successfully flying employed at the Christmas season-will got do very within limits; but he did not think that complete sucmuch. The main provisions of the scheme are those cees had yet been achieved, or that the time had yet relating to the acceleration of the naval construction come for the Home Office to order the establishment programme, the special enlistment device of Mr. Hal- of a rescue apparatus at every colliery. What he would like to see established at every rescue station From the reports already to hand there is good was a properly organized system by which men trainreason to believe that the Clyde yards will profit fairly ed in the use of this apparatus could be ready at a extensively by the Government's decision to hurry on moments notice at any time to go wherever there was the work of building cruisers and destroyers. Only an accident. A scheme should be drawn up fixing the last Friday Mr. M'Kenna paid a high tribute to the payment to be made to these men, the insurance of the Clyde shipbuilders, and hinted that when the orders men, and the fund from which compensation should were given out they would not be forgotten. It is in- be paid to them in case of injury, and every colliery teresting to note from Mr. Asquith's speech what the should know just where they could get the men the municipalities are doing. Since August they have ap- moment they were wanted. He earnestly hoped some

A recent development in Germany should offer great possibilities in this country. says Chambers's Journal'. This is the supply of gas in cylinders adopted for the lighting of country houses and rural districts. The gas has been invented by Hermann Blau, a chemist, and is distilled from oil and other materials. Manufacture is carried out upon new and novel lines. The oil is fed into the retort and distilled at a lower temperature than that employed in coal gas manufacture. The by products are secured, and the gas cleaned and scrubbed in the usual manner. It is then compressed at great pressure in cylinders similar to those employed for the transportation of oxygen, the effect of this pressure being a liquefaction of the gases. The permanent gases which distilation has yielded, such as hydrogen, methane, and carbon monoxide, the chief constituents of coal gas, are then dissolved to the required extent in the liquid gasses. When the pressure is relieved the liquid volitauses, carrying off a certain proportion of the gases which were dissolved. The light obtained is of great brilliancy, while the gas is perfectly pure and harmless. The cylinders are of varying lengths and capacity, it being possible to acthe explosive power of coal dust carried out at Altofts quire a small vessel holding one pound of gas suitable for travelling, boating, or camping out expeditions, up mining experiments ever carried out in the history of to large reservoirs containing heavy supplies suitable coal mining. The object was to prove whether an is- for extensive country seats. The medium size, adoptolated zone in a pit, isolated by stone dust or water, ed for use in small villas, will supply enough gas to writers, he thought, had taken a somewhat too sangu- empty it can be easily and quickly disconnected and a ine view of these experiments, and, in his opinion, a full cylinder replaced, the empty one being returned great deal more careful experimentation was necessary to the works for a fresh charge. There is no possibil-