dusts from other collieries in different parts of the King- al result was due to the presence of some, though cer-

The experiments were made at Garswood Hall Colliery and in the apparatus special arrangements were made to secure accuracy and uniformity in the velocity previously existing, the only effect observed was the of the air currents passing through the gallery, in the proportion of pit gas or fire damp, used with the air, and duced by the shot, which has been described, in the intimacy and consequent uniformity of the mixture. In order to raise the air current in the gallery to a temperature similar to that of the atmosphere in col- DALHOUSIE EVENING V. GOVERNMENT NIGHT SCHOOLS, liery workings, the air supply was drawn through a system of heated pipes, so that, when passing at as high a velocity as 1,000 feet per minute, its temperature could be raised up to 80° or 85° Fahr, even in very severe weather during which the experiments were made.

The samples of coal dust experimented with were examined with respect to fineness, proportions of volatile matter and ash, and one or two other points, all be-

ing carefully dried before use.

Experiments were made in the first instance with a view of ascertaining the smallest proportion of fire damp which, when mixed with the air passing through the apparatus would furnish an atmosphere capable at firing at a naked flame of a particular size placed in the gallery. It was next ascertained what quantity of gas below that proportion was needed to impart to the mixture of air with a large quantity of each particular coal dust the property of exploding throughout the gallery. By these experiments the samples were classed in the order of their sensitiveness to explosion, and it was found that, while those which were very rich in pure coal, and which contained the highest proportion of very fine coal dust, required the lowest proportion of fire damp in air to bring them to explode readily when suspended in a dense cloud, the order of sensitiveness of samples containing higher proportions of non-combustible matter richness in pure coal, nor with their comparative fineness. This was strikingly illustrated by two samples of dust from Seaham Colliery, one of these taken from one of the roads, contained more than half its weight of noncomdustible matter, yet ranked third in order of sensitiveness; another, which contained considerably more ranked only fifth.

Other experiments were made with Seaham coal dust in the entire absence of fire damp by firing a cannon charged with powder, either while the dust was being carried through the gallery by air currents of different velocities, or with dust being deposited upon the side and floor of the gallery. In this latter description of experimentt, two shots were sometimes fired in succession, and in different directions, with and against the air current, so that dust raised by the concussion and rush of gas from the first shot might be exposed to the flame of closed with the idea of opening, not during the sumthe second, In these instances the velocity varied from one to three hundred feet per minute with a negative result. By increasing the velocity to 1,000 feet per minute a slight but decided indication was obtained in several experiments that dust particles were inflamed by these shots which were fired in the direction of the air in part differing very materially. It is not necessary current. In these instances the volume of flame produced on firing the shot was certainly greater than when no to say that many of the men got things somewhat dust was suspended in the air, but the duration of the mixed up, and no wonder. What with at least two flash was but slightly if at all prolonged. On one single occasion a long reddish flame was produced when a shot was fired which travelled to the forward end of the gallery. Some fire damp had been passed into the latter the agitation of 1904-05, Dalhousie was simply going just previously and it was evident that although the apparatus had subsequently been ventilated, the exception-

tainly a very small, quantity of fire damp, for when the experiment was carefully repeated, all conditions, except the possible presence of gas, being identical with those slight increase in the volume of the flash of flame pro-

Supplementary to what was said in last issue of Record we have been favoured by a statement which, somewhat condensed, follows:

Dalhousie evening schools were first formed at the request of a number of miners in Cape Breton. University had added to its course in arts and science, that of engineering and mining. The addition of a mining school seems to have suggested the idea of doing something for those who for various reasons were unable to take advantage of the education given within the walls of the college. The Senate discussed the question, and the best that could be done at that time as to open a summer school.

The first of these schools was opened in Sydney and Glace Bay during the snmmer of 1903. The next summer the school was held in Glace Bay alone. subjects specially asked for were Chemistry, Coal Min-

ing and Geology.

During this experimental stage two or three things were made clear: 1. The men wanted the aid the school gave, this was proven by the fact that the attendance on the school during the second summer was double that of the first. 2 That the term, six weeks, was too short for the amount of work that had to be done, bedid not necessarily harmonise with their comparative sides a number of men were on the night shift which reduced their term by half 3. Some of those taking the classes found the work a little too advanced, con sequently they did not receive the benefit they otherwise might had they been better prepared, say, in mathematics.

Having these difficulties in view, the whole situacoal, and a somewhat larger proportion of finer dust, tion was gone over by both men and teachers. Finally it was agreed at the request of the men to reconstruct the course so as to meet their requirements; open evening classes which were to continue from October to May, with summer classes in Surveying etc., practically to continue the work for the greater part of the year instead of six weeks. This of course meant an increase of teachers and a larger outlay, but the Alumni came to the help of the College and promised to see them over the difficulty. Thus the work in 1904 mer, but in the fall of the following year.

At that stage, a number of things plunged 'the object of the school into a sort of chaotic state. Other educational institutions began branching out. had schemes in part resembling that of Dalhousie, and to enter on a detailed statement of their plans, suffice colleges seemingly competing, the men may be pardoned if they did not know where they were educationally.

It is but right that it should be known that during on with the work they had commenced two years be-

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