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4 Less tendency to twist and stretch in working.

Fig. 13 for Sinking and Fig. 11 for Cranes, &c. are non-twisting.



Fig 11. CRANE, &C.



Fig 15 a



WINDING

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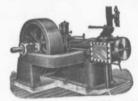
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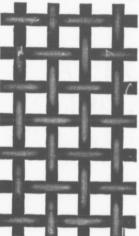
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minerals, in proportion.

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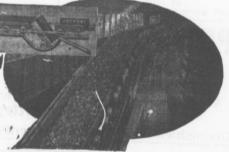
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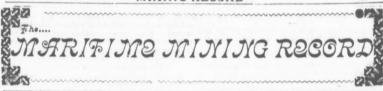
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#### Vol. 14, No. 4. Stellarton N. S., August 23rd. 1911. **New Series**

THE AUSTRALIAN PREMIER'S ROMANTIC CAREER.

'No wonder,' someone remarked the other day, that Mr. Andrew Fisher has achieved such a reputation and seems to have won the first place in the favour of the people of this country.' Both Mr. and Mrs. Fisher are handsome people, natures gentry in fact, who have that undefinable atmosphere which charactterises the Colonials. The dark eyes and silver grey hairs of Mr. Fisher give an impression of strength, of concentration of energy, expressing a strong manful, but winning personality. Mr. Fisher hails from Ayrshire and now he returns to the land of his birth to receive the freedom of Kilmarnock.

The son of a miner at Crosshouse, a mining village, near Kilmarnock, Mr. Fisher had the good fort une of godly parentage of the staunch Presbyterian type. Andrew went to work in the pit at the age of ten, supplementing his meagre education at night school. Subsequently he had an elder brother, John, associated themselves with a branch of the Good l'empars, and held every office possible remaining loyal i later years to their abstinence pludge. In all the endeavours for the social betterment of the village these brothers bore an active part. The first estay of Andrew on the ladder of a public career was the acc-

Miners' Union, but he met with a rebuff from the employers in the neighborhood, and about a quarter of a century ago, iu his twenty-third year, accompanied by a younger brother, James, and two fellow Scotchmen he sailed for Queensland.

The story of his career as a miner, labour leader, and politician is to familiar to need recapitulation The supreme moment in his life came when the lad who, five and thirty years earlier, had drawn tubs of coal along the levels of a Scottish mine, was requested by the Governor-General, Earl Dudley, to form a Ministry. A compact of the Liberal and Conservative Members into what was called the Fushion barty, unfortunately brought about Mr. Fisher's downfall a few months later. Fortune again fevoured him at the next General Election, when he and his party won all along the 'ine, carrying every seat in the Senate, converting a minority in the house of representatives into a working majority, and Fisher became Pre-mier a second time. During his term of office several important measures have been passed, an Old Age Pension Act, Bills for National Defence, Referendum Act, Nationalisation of Monoplies, and a Progressive Land Tax. The Premier's knowledge of affairs, sureness of touch, and staunchness to principle, not to say a spirit of democratic boldness, are making his tenure eptance of the secetaryship of the local branch of the one of invaluable service to the Common-wealth.

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#### CONDITIONS AT CONTINENTAL COAL MINES

A great many subjects were discussed at the late International Coal Mines Conference, among these the following.

#### HOURS OF LABOR

Herr Schmidt (Germany) said that although Germany might be advanced in some things, in the mining industry very bad conditions still obtained., The hours of labor in German mines were practically unrestricted, the employer simply determining the hours the worker should work. More than 676,000 German miners worked between eight and twelve hours a day, and only 37,000 worked less than eight hours.

#### The resolutions were adopted unanimously.

#### OLD AGE PENSIONS.

On the question of pensions for miners, resolutions were put down on behalf of the delegates of Austria, Belgium, and France. Austria demanded a pension general causes or accidents and a pension to the dependants of miners killed in accident. Belgium advocated a pension of at least 600f. a year for miners up-

The president pointed out that the resolutions acter of the Congress and that the resolutions represented the views of Austria, Belgium, and France. the British delegates would support the proposals,

#### The resolutions were then adopted.

#### MINERS DWELLINGS

at present living because of the miserable housing acc- peace. legislation which would make the present state of itation brought at the next Congress matters impossible; and, further, we ask for legislation to prevent the eviction of workers from their homes during an industrial dispute." He said that for many years nothing in this country had shocked the people more than the action of employers in the time of trade disputes than turning out the miners and their wives and children into the streets. They demanded suitable wages, decent houses to live in, and prevention against eviction in time of dispute.

In seconding the resolution a Belgian delegate said there were thousands of houses inhabitated by the coal miners and owned by the proprietors in Belgium. In some cases a clause was inserted in the lease whereby the tenant undertook to leave the dwelling within 24 hours after ceasing work.

Herr Kartenberg (Germany), in supporting the resolution, said the one-third of all the miners' families in Lower Silesia lived in one room dwellings. He produced photographs illustrating the deplorable condition of some of the dwellings, which he characterized that it is expedient to organise each year holicays of a as "real plague spota." In one of the one roomed fortaight's duration in order to prevent the formation dwellings a miner and his wife and eight children

He cited cases of families who had no beds and slept on boxes, and of four children who slept in one bad These serious conditions should be taken up by the International Committee and representations on the subject made to the various Governments.

#### The resolution was unamously adopted. LIMITATION OF COAL OUTPUT

#### The following resolutions were set down on behalf

Belgium and France respectively (1) This Congress is of the opinion that the regulation of production is desirable, and that in order

to achieve it it is expedient to employ every means at the command of the miners' unions, and especially the international strike in case of necessity, (2) It is our opinion that when a general strike takes place in any country the miners' federations of the neighbouring lands should limit their production by a fixed abstention from work.

M. Caeluwaert (Belgium), in moving the adoption sufficient to live upon for miners incapacitated through of the first resolution, said this was the seventeenth general causes or accidents and a pension to the deptime the question of limitation of output has been placed on the agenda at the International Congress, and the matter had never once been properly and on reaching the age of 50 and after 25 years of work thoroughly discussed. Again, on the present occasion underground; while France asked for an old-age all- it would not be possible to adequately discuss the quesowance of at least 2f.per day to the mineworkers on tion in the time at their disposal. On previous occastheir attaining 50 years of age and after 25 years of ions he had given figures showing the enormous inservice, and in the case of premature incapacity a crease in the output of coal, and how this was, in some pension proportinate to the number of years worked, cases at any rate, organised internationally by the coal. The president pointed out that the resolutions owners. They had to consider the fact that when a were not such as the British Section would have put strike occurred in one country the owners of other forward, but having regard to the international char- countries increased their output in order to send coal to the strike affected country. Another aspect was He asked how far it would be the question of war. possible for the miners to organise so as to regulate the output of coal and thus render war impossible. He would like to believe that it was possible to realize Mr D. Gilmour (Scotland) moved the following resthe employers, but he did not think this practice lie. olution on behalf of Great Britain:- That we desire Class war existed, and it was no use attempting to deto express our indignation with the the conditions my its existence. Ultimately he felt they must strike; under which the miners in many colliery districts are it was no use preaching peace where there was no He suggested that this important question omodation which is provided for them, and we would should be discussed by the International Committee call upon the various Governments to promote housing and some practical suggestion on the question of lim-

M. Cadot (France), in moving the second resolution, said that when the miners' representatives in the North of France recently approached the mine owners in order to renew the existing contracts they were met with the objections that the owners could not promise any regular rate of wages or increase because the North of France was being flooded with German coal, and a syndicate of German coal owners had organized to throw all their surplus stock on the French markets. That he considered a very practical illustration of the necessity of their being able to establish some sort of rule to regulate the output of coal in the different mines of Europe:

German, English, and Austrian delegates supported the resolutions, and it was eventually decided to relegate the matter to the International Committee for consideration, with instructions to place the subject at the head of the agenda at the next congress.

ANNUAL HOLIDAYS. The following resolutions were adopted:-This Congress expresses the opinion (Continued on page 17.)

#### MARITIME MINING RECORD.

The MARITIME MINANG RECORD is published the second and ourth Wednesday in each month

Advertising rates, which are moderate may be had on application-Single Copies 5 cents Subscription \$1,00 a year.

#### R. DRUMMOND, PUBLISHER.

August 23 1911 \*

#### THE UNITED STATES COAL TRADE WITH CANADA

Canada imports almost as much coal from this country as is produced by Canadian operators during a year and when there is trouble between miners and operators in the Dominion the American producer gains. This is indicated by the orders placed for coal in the United States as a result of the shortage in western ritory, and it must be remembered how the Nova Scotia strike helped the American producers to some extent while that was in force.

Of the remaining tonnage shipped to countries aside from Canada, 945,339 tons, an increase of 559,-872 tons went to Cuba; 619,447 tons, a decrease of 22,-079 tons, went to Mexico; 513,368 tons an increase of 61,342 tons, went to "Other West Indies," and the balance, 1, 132,927 tons, a decrease of 132,680 tons, went to other countries so in reality, considering the coal shipped to far-away countries as the actual exports, there is a decreased instead of a growing export trade.

The total exports of coal, both anthracite and bituminous, from the United States amounted to 14,984,-487 tons, compared with 13,367,072 tons last year, an operators and the government met and seriously conincrease of 1,617,415 tons, or 12.1 per cent. Of the sidered the situation. Seven cents is not much looked total the tonnage going to Canada amounted to 11,716, at in one way, but it may mean to some Nova Scotia 387 tons, against 10, 177,843 tons during the year previous, an increase of 1,538,544tons; or 72.2 per cent. of the 1911 exports went into the Dominion and 68.7 per cent, of the 1910 tonnage, an increase of 3.5 per rose to 69,000 due largely to the strikes in other count-

#### NOVA SCOTIA'S COAL TRADE WITH UNITED STATES.

Nova Scotia sent to the United States last year some 200,000 long tons of coal, slack coal at that, under a fifteen cent duty.

United States total shipments of coal to Canada 11,716,387

Canada's total shipments to U. S. 1,4;2,147. Nova Scotia's little contribution to Canadian exports 290,688.

Let it be assumed, say some coal operators, that the unnecessary reduction of eight cents a ton will not greatly effect the provincial coal trade, what guarantee is there that the coal duty will not, as by the return airways four or five times a year so that in the past, be the football of Federal economists, Several times the duty has been attacked, and the bargain as between it and the flour duty been broken. Speaking at Simcoe Sir Wilfred Laurier-this from the

Montreal Witness-stated that the present agreement would not be the end of the reciprocity negotiations. "I have visions of a more far-reaching agreement which will bring even more closely together the great civilized nations of the continent." Has Sir Wilfred The RECORD is devoted to the Mining—particularly Coal Mining

a vision of free trade; in coal among other things.

Free trade in coal would cripple our coal trade. Let the finance minister declare, putting his hand on his heart, and saying 'sures' 'death' there will never, so long as he is at Ottawa, be further interference with the coal duty, and by so doing take a weight off th heort of the coal miners and coal operators.

The export of Nova Scotia coal-slack coal only, for round coal cannot find entrance-to the United States or strictly speaking to the gas works at Everett is a diminishing quantity. For the seven months ending July 145,000 odd tons were sent to Boston against 275,000 odd tons in the corresponding period of 1910. Only 12,751 tons were received at Boston from N. S. in July, or half the quantity of July 1910.

Says the Glace Bay Gazette: -

'In the Fielding tariff of 1897 the coal duty was Canada, caused by the strike of the miners in that ter- reduced from 60 to 53 cents a ton. Have the miners suffered because of that reduction. Let any miner ask himself the question. Can you say that cutting 7 cents off the duty 14 years ago in anyway affected you

> It is an axiom that what affects the employers affects the employees, sooner or later, or in some way or other. Did the reduction of 7 cents in 1897 injuriously affect the coal trade of Nova Scotia. Who knows? Either that reduction or something else did. Within the past years the United States operators have been steadily encroaching on Nova Scotias best market - Montreal. So great has been this encroachment that two or three years ago, before this reciprocity agreement was heard of, an alarm was sent out from Halifax, and the operators all the difference between profit and loss. The Shipments of the Pictou collieries to Quebec in 1906 were 113,000, and in 1909 42,000. In 1910 they ies. The reduction of 7 cents has greatly benefited the American operators, and this further reduction of 8 cents will further benefit them. It looks as if the government had more interest in the welfare of the foreign coal operators than of the operators of Nova Scotia. Is not, we are asked, the reduction of 8 cents a paltry affair. Possibly, but when is this sort of thing to end. First a 75 cent duty, next a 60 cent. then a 53 cent. and now a 45 cent duty, and this in face of the solemn though unwritten pact that the duty of 25 cents a barrel on flour should stand against the 75 cent duty ou coal. The duty on flour has been increased 100 per cent. the duty on coal has been lowered forty per cent. Nova Scotia is not being treated fairly in her most important industry.

> Every mine manager should ask his men to travel all of the miners will be familiar with this means of reaching the upcast shaft. Many lives could have been saved if the men had been familiar with more than one way out of the mine.

COAL MINES BILL

(EXPLOSIVES AND COAL DUST.)

The Standing Committee of the House of Commons which is considering the Coal Mines Bill lately dealt with the questions of explosives and coal dust

Mr. E. Wason was in the chair. Clause 61 lays down that the Secretary of State by regulations may regulate the supply, use, and storage of explosives at mines, and may use, and storage or expressives at mines, and may prohibit absolutely or conditionally the use of any explosive which is likely to become dangerous in mines. The second sub-section prescribes that no explosive shall be used in any mine except explcsives provided by the owner.

or expicsives provided by the owner.

Mr. J. Duncan Millar moved an amendment to the effect that the explosives should be supplied free to persons using the same. This question, he said, ought to be carefully considered by a question entirely of wages, but considered that He did not agree that this was this was a fair charge to put on the mine owners themselves. It was very important that when power was given to the mine owner to provide Solicitor-General for Scotland was agreed to. could obtain it at a fair price The men could in many districts obtain their explosives from cooperative stores and other sources than the owners, and in dealing with so dangerous a substance

Mr. Brace said that at present it was open to the miners to obtain their supplies of explosives from whatever source they liked. In the past, when owners had sold them, there was no doubt that they had been making a profit on the sales. In some districts the miners had adopted the cooperative principle, and had bought their explosing away this right of purchasing explosives from If Parliament was takthe miners, surely it was only fair that the masters should provide them with their own coal.

The Solicitor General for Scotland spoke against the proposal. Under the Truck Acts, he remarked, the masters were not allowed to make

The amendment was rejected by 27 votes to 16, but a proposal that the explosives should be supplied to the miners at a cost which must not exceed the net cost to the owner was adopted. Clause 61 as amended was agreed to.

Clause 62 deals with prevention of dust in mines, and in the first place lays down that in every mine, the roads of which are naturally wet throughout, arrangements shall be made to prevent as far as practicable coal dust from the screens entering the downcast shaft,

Sir. A. B. Markham moved as an amendment to substitute the following for the proposal of the clause :- "No coal screening or coal sorting plant shall after the passing of this Act be erect ed within a distance of 80 yards of any winding shaft. Where, however, owing to geographical reasons or other special causes the shaft cannot conveniently be sunk at a distance of 80 yards conveniently be sunk at a distance of ou yards from the screening or sorting plant, then in such cases a divisional inspector shall grant an ex-emption to the owner to enable the shaft to be sunk without regard to the said distance of 80

yards. Where an inspector grants an exemption under this section efficient dust catching apparatus shall be erected at the said screening or sorting plant. The distance for the purpose of this section shall be calculated in a straight line meas-The distance for the purpose of this ured from the shaft to the centre of the place where the coal is tipped or tumbled. always that in the case of an established mine and at any mine where actual bona fide sinking operations have been commenced prior to June 30, 1911, the provisions of this clause shall not apply

The Solicitor General for Scotland was of opinion that better phraseology could be adopted in carrying ont the object of the amendment. He would therefore suggest that the following provision should be adopted rather than the amendment:—"And in the case of a mine newly opened after the passing of this Act no plant for opened after the passing of this Act no plant for the screening or sorting of coal shall be situated within a distance of 80 yards from any down cast shaft unless written exemption is given by

The amendment in the form suggested by the

Mr. L. Hardy, at the adjournment for lunch asked whether the Government were serious in asking the Committee to meet day after day. ers, and in dealing with so dangerous a substance clauses, and five of the 02 had been postponed. it was essential that every risk of accident should. The attitude of the government was very uncerstance. tain, and the Committee ought to have a little explanation of their intentions.

The Solicitor-General for Scotland said that he would be in a position to explain things more definitely next week There was every desire so far as the government was concerned to accelerate the course of the bill so as to place it as soon as possible on the Statutes. The Committee afterwards disposed of clauses 62 and 63, and ad-

Clause 72 prohibits inexperienced persons from working alone as coal getters. is in these terms—"No person shall be allowed to work as a coal or ironstone getter otherwise than under the supervision of a skilled workman than under the supervision of a skilled workman until he has had two years' experience of such work under such supervision, or unless he has been previously employed for two years in or about the face of the workings

Mr. Brace, for the Labour men, moved to delete the provision which allows people who have been "previously employed for two years in or about the face of the workings" to be employed. They desired to make mining a really skuted industry, as indeed it was. Workers should form some part of apprenticeship. Many men had been killed and had been responsible for the killing of others because they had insufficient know-The clause in the present Act had been of no value as a protection against unskilled workmen

Sir. A. Markham said the effect of the amendment, which was a trade union proposal, would be to keep men from working at the face and compel them to work on the roads, where, according to the Chief Inspector of Mines, more acciding to the Oner Anspector of Mines, more accidents took place than in any other part of the mines. Mr. John Wilson said the amendment would create great hardship by preventing the sons of miners, who had perfect knowledge, being employed.

Mr. Hunter supported this view.

After further discussion, the miners' representatives on the Committee expressed their willing. ness to allow the clause to stand if a proviso were added to the effect that no skilled workman should have more than one unskilled workman under his care and supervision at any moment.

Mr. Hunter did not think such a limitation was No case had been made out for it by

the Royal Commission.

Mr. W. E. Harvey said there were men working in the mines in Scotland who could not speak a word of English, and who frequently could not read the regulations of the mine. Employers were not at all particular as to the men employed, considerably.

Sir. A. Markham declared that there was not injury to a British workman, and the proportion training by an experienced teacher enormously of accidents where Poles were employed was less

than elsewhere

Mr. Anderson said the amendment meant more practical training of the men who had to look after the roofs and sides. Sir. A. Markham had not told the Committee as to whether the lack of the knowledge of the language among the pute, they are of the opinion that samples of the Poles of Scotland which would have enabled these air should be taken and tested by the Haldane people to read the rules which governed the industry, had been the means of causing the deaths of a considerable number of people. In the part in the general body of air in the working place, of Scotland where these men were employed it for it is obvious that in breaks or crannics the was a common practice for one of the number to amount of gas may easily be abnormal. get one or more working places and to employ under his supervision a number of his fellow-That was a dangerous practice. curious that while the law prevented one unskilled person being employed alone, it enabled several which ought to be practically free of gas unskilled persons to be employed together

The Labour proviso was carried by 16 to 13.

The Committee adjourned.

#### GAS TESTS IN COAL MINES.

The third report of the Royal British Commission dealing with the subject of mine vertilating has been issued.

In the first portion of the report it is stated be a sufficiency of fresh air brought into the mine. but also a judicious system of distribution.

The commissioners say that a rule might with advantage be framed enacting that when gas is found to exist in any place to a greater extent than some specified percentage, no men should be permitted to go there or work there except under special supervision for the purpose of removing the excess of firedamp or otherwise se. the means for detecting the ciring the safety of the mine. Their chief diffi. at our dispusal as follows: culty has been to determine what that percentage should be, and how it is to be ascertained. If a damp in a specimen of the air by means of an percentage is to be prescribed, it must be one electrically heated platinum wire, and observing means ordinarily in the possession of miners, supplemented in the case of the officials of the mine by the more scientific instruments which are

available for their use.

The general conclusions of the commissioners

The prescribed percentage should be well below the limits of an explosive mixture, for a certain percentage found in an air current will often be indicative of far larger proportions in crannies. Mine air becomes exploive, in practice, when about 6 per cent, of pure methane is present in it. The amount of gas that can be seen upon an erdinary lamp has been the subject of some differences of opinion. It is undoubtedly easier to detect a cap in some lamps than in

The capacity of men for seeing gas also varies Some persons have great difficulty They swept all the greenhorns of the country into in detecting the pale gray ghost-like cones, and the mines. appears with some persons to be diminished. a single case of a Pole having been the cause of Moreover, there is no doubt but that a short improves the power of gas detection by means of the lamp. After giving full consideration to the views of men of science, managers, deputies, firemen and miners, it appears to the commissioners that the prescribed percentage should be two and a half per cent. of firedamp. In cases of disapparatus.

2. The place for taking the sample should be

3. While adopting this percentage, the commissioners wish it to be distinctly understood that countrymen who were without knowledge of min- it is designed chiefly with reference to smaller roads and working places. It is far too high a percentage for the main haulage road of a mine,

They recommend, therefore, that it should be made a law that no men shall work or pass, in the ordinary course of their employment, in places where there is more than two and a half per cent. of gas in the general body of the

Such an enactment is in addition to the existing duty of adequately ventilating the mine. For example, if in the main body of the air at a working place, less than two and a half per cent. of gas were found, it would not from that cirthat the best means of removing firedamp is ven. cumstance necessarily follow that the whole tilation. It is needful not only that there should place was safe; near the face there might be a dangerous percentage which would necessitate the removal of the men.

4. For mines worked with naked lights the commissioners think a similar rule should be adopted with the substitution of 11 per cent. for 21

per cent.

Attached to the report is a memorandum by Sir Henry Cunninghame in which he sets forth the means for detecting the presence of firedamp

(a) Chemical analysis by burning up the firewhich can be discovered by the diligent use of the the proportion that disappears in the process. This is accurate but takes time and requires considerable skill.

(Continued on page 16.)

## AROUND THE COLIERIES.

Springhill collieries from henceforth are to be known as District No. 5, of the Dominion Coal Co.

Visitors pronounce the Allan Shafts as a model in attend their efforts. many ways. Though building operations are not yet quite completed, general tidiness prevails.

That y con and his stan reet much more comfort. consumption of 500,000 was exceed able in their new offices than in the old shack—as and this year the railway is busier.

with the coal presently being received from the Vale. It is free from material other than coal.

Canada imports more coal from the United States than is produced by all the collieries in Canada com-1910 into Canada no less a quantity than eleven million tists of reciprocity or their opponents.

No attempt win be made to get into the old poord have opened an older in New Glasgow, which is con-pit until the full equipment of the Allan Shafts over-nected by direct private wire with the Halifax and pit until the full equipment of the Aman Sharts over-nected by direct private wire with ground has been completed. In the mine there is other offices and with the exchanges. no present need for development work, as there are sufficient places for all requirements for months.

Shafts is proceeding satisfactorily. The new boiler- 8,627,000 odd tons being an increase of one of the state of the bound are at hand and will soon be set up.

The Acadia Coal Co. continues to make satisfactcompany is 73,000 tons aneau. At this rate of increase soil the remainder of the year the increase over 1910 conditional in making contracts with the I C R.

Facing a duty of 53 cents a ton the U. S. sent, in Co's areas at Birch Grove, Port Morien. The new 1910, over eight million five hundred thousand tons of slope is about two fifths of a mile from the trial slope. bituminous coal into Canada. According to the reciprocity agreement the duty is reduced eight cents. exports to Canada.

The Robb Engineering Co., Amherst, Nova Scotia, and South Framingham, Mass., are building a return tubular boiler 48 in. by 12 ft. for C. O. Nichols, Somerset, N. S., and a boiler of the same type, 42 in. by 12 ft., for the Veniot Wagon Co., Ltd., Bridgewater, With this last order is included an 8 by 8 engine and stack.

The splendid showing in the matter of coal shipments made by the Dominion Coal Co. makes the RECORD hopeful that its prediction as to increased sales for 1911 will be more than fulfilled. The output for July was a record, and as the new collieries

It is reported that the Port Hood Coal Co. are boring for coal on their area at some distance from the flooded slope. It is to be hoped that success will

It is estimated that the I. C. R. will require 600,-Harry Coll and his staff feel much more comfort- consumption of 500,000 was exceeded by 30,000

The I. C. R. coal inspectors are highly pleased about 450 tons per day. No attempt at increase will about 450 tons per day. No attempt at increase will be made till the two 1500 K. W. generators are in-stalled which may not be for a few months yet.

The RECORD had better take no side in the present produced by an the comeries in canada component campaign concenting usen with giving some Including anthracite there were imported in figures which may be useful or otherwise to propagan-

en nundred and riteen thousand short tons of coal.

Mr. J. C. Mc Intosh & Co. Bankers and Brokers
No attempt will be made to get into the old Foord have opened an office in New Glasgow, which is con-

Nova Scotia in 1910 sold 4,896,000 tons of coal all Development work on the surface at the Allan the same year the United States sent into Canada 8,627,000 odd tons being an increase of one million

If as has often been asserted there is a coal combine, or monopoly, in Nova Scotia it is a funny one. The Acadia Coal Co. continues to make satisfact. A combine is supposed to be for the maintenance of ory increases in its outputs. Already this year the prices. Well the combine was unable this year to re-A combine is supposed to be for the maintenance of ory increases in its outputs. Already this year the prices. Well the commine was unable this year to recompanyis 73,000 tons ahead. At this rate of increase sist the reduction of twenty-five cents a ton made

slope is about two fifths of a mile from the trial slope. The coal is free, in large measures, from gas and is Will this decrease enable the yankees to increase their. It is possible therefore that the output of Birch Grove may be reserved for the Steel Works at Sydney.

It looks at this time as though Great Britain was undergoing similar experiences to those New Zealand went through before its adoption of the compulsory arbitration act. It was a strike of those employed in transportation necessitating the general public going to work as dockmen and stokers etc. that led to the enactment of compulsory arbitration.

Though for the seven months of this year the shipments of the Nova Scotia Steel and Coal Co. are considerably less than for the corresponding period of 1910, improvement will be noticeable from this out. at Waterford on the Lingan side are rapidly opening by explosion in one of the collieries, repairs have been The decrease is chiefly due to the damage caused up, there is no doubt that increases will be recorded affected and this pit which was a large producer will

### AROUND THE COLLIERIES

Plans for the surface and underground plant of No. 17, the newest colliery of the Dominion Coal Co. are all but completed and already mining plant and machine manufacturers are figuring as to cost.

It is noticeable that a portion of the press and a large number of public speakers avoid all reference to coal when addressing their constituencies in Nova Scotia. How is that?

It is maintained by reciprocity advocates in the west News, liberal, says. "The chances are that the price would not be higher, but there would be a chance for the farmer to do business on a larger scale.

The works at Trenton of the Nova Scotia Steel Company are as busy as they can be. There are sufficient orders on hand to keep the several departments of the plant busy for the next three months, and new orders are coming in to take the place of those completed.

The foundations for the new big forge of the Steel A portton of the plant has arrived and 800 producing mines. this week its erection will be proceeded with. As pre-viously stated when the forge is completed it will be away ahead of anything in Canada, and possibly of anything this side the ocean.

"Give the farmers a chance." In Nova Scotia for the past eight years they have had more chances than they were able to overtake. They could not properly supply the home market, and therefore it is that in the mining counties consumers are using beef brought in refrigerator cars from Ontario, butter from the same province, hay from Quebec, eggs from cold storage,

The mining and shipment of ore at and from Wabana is highly satisfactory. Development work is rapidly proceeding and the shipments this year will be in excess of any previous year. Over six hundred thousand tons will be mined and shipped. shipments are more profitable than coal shipments, any loss sustained through short coal output is much more than made up by the increased ore shipments.

It is said that Mr. Ghuer of Stellarton in association with other capitalists are thinking of acquiring the iron ore properties at Arisaig held chiefly by Hal-The sum named as the purchase price ifax parties. is so high that the RECORD does not care to name is so fight that the Record does not call to lambde the figures. If the mining of ore should be entered upon the presumption is that the ore will be smelted by the electrical process. Transportation will be the first problem to be attacked. The RECORD will be interested to hear further of the projected development of Arisaig.

The colliery of the North Atlantic colliery is pegging away though greatly handicapped for want of The mine has been idle for days on this shipping. The mine has been idle for days on this account. The loss of a steamer has greatly retarded It is hoped that the insurance would fully operations. cover the loss as the company cannot afford to lose B. F. Pearson who has taken the whole a penny. responsibility of operating the colliery upon his shoulders visited the mine last week. What his plans are for the future even shareholders, have no idea. Some of the bonds of the company were sold lately at a fourth of their face value. It is to be hoped that that the farmers will get better prices for the products bond holders, not forced to sell, may in time fare of the farm, while speaking for the east the Amherst better. Mr. Pearson's paper is a rabid exponent of reciprocity. Had he not better, then, induce the Americans to exchange some of their stupendous wealth for this extensive property at Port Morien, and thereby make glad the heart of those interested.

#### ITEMS FROM 'COAL AGE.'

Coal mining is the support and dependence of all other industries,

There are more than 2000 coal mines operating in Works at Trenton have been ready for some time for the state of Pennsylvania. West Virginia has nearly

> The amount of oxygen required by an individual varies with the degree of bodily activity. A man of rest uses about 0.3 liter per minute, while severe exercise on the part of the individual raises the consumption to 2 liters per minute.

> The time to formulate rules and lay plans for action in case of mine explosion is before the accident happens and when everything is running smoothly. There is no time to think when the pit mouth is surrounded by a crowd of anxious relatives waiting in dreadfull suspense.

> Rescue apparatus or breathing appliances are useful at coal mines, not so much because of the utility of such devices in saving life, but for the reason that these appliances facilitate the rapidity and safety with which the ventilation can be restored after an explosion hasoccurr-

> Unless the wearer of a breathing apparatus has been trained systematically in its use, such a safety appliance is likely to prove a death-trap rather than a means of succor. No recent invention for use in mines is more important than the proved types of rescue apparatus; however, to permit a green man to go into a dangerous mine atmosphere equipped with a breathing apparatus is criminal.

> The amount of ash that any coal will yield depends largely upon the rapidity with which the coal is burned. When coal is burned slowly under the influence of a moderate draft, the ash will remain pulverent, and will pass through the grate as formed. When coal is

used for industrial purposes, however, rapid combussirous of aiding in the education of the work man.

One writer ,who has given thought to the shaped of waste in coal mining, and who concedes that much

used for industrial purposes, however, rapid combus-tion usually takes place, and under these conditions, By going for tuition to the universities, the men are brought into contact with scientific thought One writer , who has given thought to the subject themselves and for their children. An educated One writer who has given thought to the subject themselves and for their children. An educated of waste in coal mining, and who concedes that much and practical body of mining professors, accustof the waste and inefficiency in operation is due to the omed to deal with miners and their difficulties or the waste and memciency in operation is due to the omed to dear with miners and their dimensions low price received for the product, sees difficulty ahead and in close touch with the mining trade, is an low price received for the product, sees difficulty ahead and in close tonen with the mining trade, is an when the public are asked to pay a higher price for asset of importance and ought to be of the greater. when the public are asked to pay a higher price for asset of importance and ought to be of the great-their fuel. His solution is to create, or permit, a care-est value to the government, the owners, and the fully guarded monoply in each field. It would take men. It is for this reason, quite apart from motimity guarded monoply in each field. It would take men. It is for this reason, quite apart from mother form of either a consolidation of ownership, or ives of economy, that the work of testing and the form of either a consolidation of ownership, or ives of economy, that the work of testing and the pooling of interests under Government supervision, educating miners ought to be placed as far as the pooming of interests under Government supervision. educating miners ought to be placed as fair as Such a plan, he says, would result in better methods possible in the hands of universities and mining schools under the superintendence of the Home

(Continued from page 13)

(b)Instruments depending on the fact that air contaminated with methane diffuses through a porous diaphragm faster than air not so contaminated. This method is easier than the last, but it requires that fresh air should be constantly at

for instance, observing how much heavier a light ball is in the suspected air than in air of normal delicate to be of practical use in a mine.

the flame of the lamp. This has the advantage of being simple, of requiring no special instru-

with the flame of the light burning normally and giving full light. The effect of each percentage of methane on a lamp thus burning is to raise the yellow flame about one fifteenth of an inch from

hod, turning down the flame until the yellow al-

In the course of some general remarks, Sir Henry says it is highly to be desired that the various mining schools should receive every encouragement in their plan of training working mineagenteets in their plan or training working mine—tress to the families directly concerned. The work at oris to detect gas. In some cases this has already times may not be of the lightest nature, but the girls been done, and it is anticipated that with lect—seem the healthiest class to be found in any occupation.

The girls and women employed at the surface of coal mines in Britain are threatened with obolition by the adoption of an amendment to a clause in the to requires that iresn air should be constantly at than those employed on are before the first day of jandon or some reservoir to serve as a standard of uary, 1911, shall be permitted to be employed above comparison. It has not hitherto been successful, ground on any mine. All over the country 5188 womine bill to the effect that "no girl or woman other men are employed at mines, and of these 2000 are in the suspected air than in air or normal by 15 votes to 13, however, is not snared by the wo-This method require instruments too men and girls who work in our coal-fields; but it is neate to be of practical use in a mine,

often the case that people or still to acknowledge the 
(d) Observation of the glowing appearance benefits of a revolution which has been brought about (d) Observation of the glowing appearance benefits of a revolution which has been brought about of a platinum wire rendered incandescent by entirely for their own good. To be quite plain, to get often the case that people or stiff to acknowledge the ing result at first, but in some cases the platinum ers' households will be considerable. But there seems rapidly becomes clogged. The method seems to be an additional argument for their retenuon—no full of promise, but has not as yet come into less than a claim on the score of health. The women less than a could on the score of nearth. The women are employed at the picking tables, taking out defective coal, and so on, and on these covered platforms or or order sumple, or requiring no special instru- ary workshops. One well-known doctor in the and-ments, and of being the one now universally in lands, who speaks from an experience of thirty years, wooden rooms have much more ventilation than ordinsays morally that the pit-head woman workers are at least epual to any class of indoor women worker and that physically they are much superior. he says, does not seem to be injurious. yellow name about one-different of an inent from tusious accidents are rare. The Cambusiang district was before. This method does not give has been the first to take up arms against the proposal the absolute quantity of methane present, and is in Scotland, and the Lancashire women are making The coal dust. tusious accidents are rare. The Cambuslang district and as one tree quantity or meanane present, and is in Scotland, and the Lancashire women are making an insufficient means of testing the general convenement and indignant protests at the prospect of losing We have to fall back on the ordinary cap metaround Wigan girls had to leave cotton factories owing most turning uown the name until the yellow air to ill-nearth brought about by the most unpressant air-most entirely disappears. The need to turn down mosphere in those places, and that they had improve the flame of the place considerably since they had taken up their duties on the coal screens and belts. There is no doubt that the proposed displacement of many thousands of these women workers will be strenuously opposed. Its final over and practical demonstrations lasting over And the question may be asked, what benefit would threading practical demonstrations lasting over And the question may be asked, what benefit would six evenings, most miners can be sufficiently it be to the girls to take away the work they wish for The professors are keenly interested and de- workroom, or standing behind a counter? at present and present them with a choice of a mill,

(Continued from page 10)

of stocks of coal and the sinking of the price of coal, and fidelity in the make up of every one who gets his and to allow the workmen to take a rest whilst main- living from a firm. The traitor, the backbiter or the taining wages at a rate sufficiently high to live decent- shaplerer never did himself or those he serves any ly. (Belgium.) This Congress advocates the introduction of holidays for the miners of a fortnight's duration. The work in mines is so dangerous and injurious to health that the introduction of such holidays shelter must be regarded as a necessity. (Germany.)

A motion put forward by the German representatives that the Congress should be held every two years

iustead of annually was not adopted.

Mr. Enoch Edwards, M. P. was re-elected president of the International Committee, and the Congress then terminated

#### THRIFTY RAILWAYMEN

In hopes of encouraging thrift amongst its employees the North Eastern Railway Co. (British) many years ago established a savings bank at which deposits of 1s and upwards are received from any person in the service, interest at the rate of 4 per cent, per aunum being allowed on accounts up to £200, and 21 per cent. on any excess over £200. According to the 51 st annual report it appears the bank continues to make steady progress, and that its exceptional advantages as a savings bank and medium for investment are being more and more appreciated by the company's employees. During the 12 months ended April 30 last 980 new accounts were opened and 652 closed, showing a net increase of 328 The total number of depositors is now 11,728, as against 11,400 at the close of the previous year. The large sum of (212,128 11s 10d was dealt with during the year, £112 203 18s 5d having been deposited and 699,924 135 5d with drawn, whilst the total amount, inclusive of interest now standing to the credit of depositors is £998,584 12s 6d, being an increase of £45,925 18s 11d over the previous year, and representing an average amount of (85 2s 11d for each depositor.

#### THE BRITISH COAL INDUSTRY.

Figures relating to the operation of the mines of the United Kingdom have been issued. The statistics cover the year 1910 and show that the total coal production was 264,292,588 tons. The English mines contributed 183,773,071 tons; Wales, 39,104,583 Scotland, 41,335,132, and Ireland 79,802 tons. Total indicated increase of 534,026 tons.

No fewer than 1,049,407 persons were employed in and about the coal mines. The tables that accompany the report indicate that for every person employed 265.3 tons of coal were mined; this compares with

274.07 tons in the preceding year.

The year was disastrous so far as accidents are conceened; there were 1,769 persons killed, which is an increase of 316. The death rate per thousand rose from 1.43 to 1.68 throughout the Kingdom. Viewed from another standpoint, the deaths per million tons of coal mined figure out to 6.31 last year as against 5.2 in 1909. The high death rate was caused by the accidents at the Hulton and Whitehaven collieries.

A servant who says things behind his master's back that he would not dare whisper in his presence, is a coward and a hypocrite. There may be a medicum of

truth in it all, but there should be a sense of lovalty good, and it is a short signted policy to be incessantly trying to kick down the ladder by waich you have climbed or topple over the house that affords you

#### Intercolonial Railway

#### TENDER FOR TIES AND SWITCH TIES.

Sealed Tenders at ressed to Mr. Louis Lavoie, Purchasing Agent, Dej artment of Railways and Canals, Ottawa, Ont., and marked on the outside "Tender for Railway Ties," or "Tender for Switch Ties," as the case may be, will be received up to and including THURSDAY, AUGUST 31st., 1911

for the supply of Ties and Switch Ties for the Inter-

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Specifications and forms of Tender may be obtained at Stations after August 9th., 1911

Tenders will be received for any number of Ties and Switch Ties

Tenders must be made on the printed forms sup-

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A. W. CAMPRELL

Ottawa, Ont. Chairman, Government August 1st. 1911. Railways Managing Board.

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WESTBOUNI Superior Dir		EASTBOUND Inferior Dir	
58 51 51 P. M. A M 3 30 10 44 3 25 15 3 0 10 10 11 P. M. 10 00 9 5 5 8 4 8 3 8 2 7 5 7 4 4 7 2	P. TUPPER JUNCTION INVERNISS JUT. PORT HAWKESBURY PORT HASTINGS TROY. CREIGSISH CRAIGMORE JUDIQUE CATHERINES FOND PORT HOOD GLENCOE MABOU GLENDY	54 P. M. 3 45 3 50 3 55 4 68 4 13 4 25 4 38 4 5 65 5 18 5 33 5 38 6 16 6 28	52 A. M 11 00 11 03 11 11 11 30 A. M

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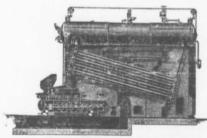
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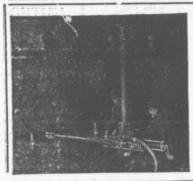
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