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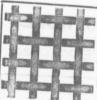
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Fig. 13. SINKING.

Fig. 1. HAULING.



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Fig. 13 for Sinking & Fig. 11b for Granes, &c., are non-twisting



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Recent Publications:

Building and ornamental stones of Canada, (Quebec), MEMOIR 16. The clay and shale deposits of Nova Vol. III, Report on, by W. A. Parks, Ph. D.

The Bituminous Sands of Northern Alberta, Report on, by S. C, Ells, M. E.

Peat, lignite, and coal; their value as fuels for the production of gas and power in the by-product recovery producer, Report on, by B. F. Haanel, B. Sc. The petroleum and natural gas resources of Canada:

Vols. I & II. by F. G. Clapp, M. A. and others. Electro-plating with cobalt, Report on, by H. T. Kalmus, Ph. D.

The Mines Branch maintains the following laboratories in which investigations are made with a view to assisting In the developing of the general mining in-dustries of Canada:—Fuel Testing Laboratory, Ore-Dressing Laboratory, Chemical Laboratory, Ceramic Memoir 78. Wabana iron ore of Newfoundland, by A. O. Hayes.

Application for reports and particulars relative to having investigations made in the several laboratories should be addressed to The Director, Mines Branch, Department of Mines, Ottawa.

R. G. McConnell, Deputy Minister.

Geological Survey.

Recent Publications:

Scotia and portions of New Brunswick, by Heinrich Ries and Joseph Keele.

MEMOIR 20. Gold fields of Nova Scotia, by Wyatt Malcolm.

MEMOIR 44. Clay and shale deposits of New Brunswick, by J. Keele.

MEMOIR 59. Coal fields and coal resources of Canada, by D. B. Dowling.

MEMOIR 60. Arisaig-Antigonish district of Nova Scotia, by M. Y. Williams.

Applications for reports should be addressed to the Director, Geological Survey, Ottawa.



Vol. 18.

Stellarton, N. S., March 8th., 1916.

No. 17

### THE PURSUIT OF UNIFORMITY.

or existing things altered, one is nearly always the greatest cleanliness. confronted with varying conditions of time, localmechanical sense of the word) a little more sucdown the resistance to something like uniformity, and then averaging up the effort in the like way. vantages inherent to uniformity.

Mr. Alfred Etchells, in a paper read before the Manchester Association of Engineers last Saturday, was at pains to illustrate these truisms by many examples from different branches of engineering, and in truth he did pretty well exhaust the subject, the engine. Taking the best known and still perhaps the most widely used form of power production, it is recogwidely used form of power production, it is recognised that in a steam boiler uniformity of operation

There are anaong us today multitudes of peoin every detail is valuable. The best efficiency is ple who have 'een 'lame from their mother's
secured by keeping the pressure as steady as poswomb.' There are some who inherit a temperament sible, the fires as even as practicable, and admitting particularly those of the back-fired type, placed in recognition in one or more types of superheater in trickles along like a stream in days of drought. And, the tubes, or sometimes by gilled ferrules on the outside, so that the temperature of the superheated

load is nearly uniform, and when pressure and of heredity have driven them into defeat and convacuum are steady. Also, Mr. Etchells believes that it is much less liable to break down, a view which few people will challenge. In the condenser, too, the constant supply of water at or near the most suitable temperature, together with a steady running of the pumps, gives the best result. Even in round. Dress crops up in all employers' problems. the lubrication of engines and machinery, the principle of uniformity in applying the lubricant is of

Whenever work has to be done, problems solved, cation at the smallest cost and, as a corallary, with the greatest possible value. It gives the best lubri-

ity, force, temperature, speed, and so forth; and it ures were still moderately low, it was realised how Many years ago, while pressures and temperatis quite remarkable when we realise it how through. very sound was the compounding of steam, by reout the whole gamut of engineering we have been dueing the fluctuations of temperature and effort forced into the habit of handling our problems in in the cylinder. It seemed greater economy in fuel terms of averages and of performing work (in the and a higher mechanical efficiency. Some of the difficulties with large gas engines and other incessfully than our forefathers by dint of averaging ternal combustion engines arose from the extremely varying conditions of pressures and temperatures When the average condition can be secured and conditions can be averaged out to southing more maintained it leads to an increase of the average nearly approaching uniformity the large internal combustion engine will find a greater field of usefulness. The recent tendency in gas-engine design has been to increase the number of cylinders for a given power, thus securing more uniform conditions not only with regard to temperature in the cylinders, but with regard to the dynamic functions of

the feed water as uniformly as can be secured with by the shrew which dwells in their own souls. Othlike a keen es t wind, and they have been maimed due regard to the duty, as well as keeping it to ers inherit a disposition like a damp, heavy cloud, somewhere near the temperature of the water al. and something like a chilling sea-fret holds possenswhere near the temperature of the water al. and something like a chilling sea-fret holds possensy in the boiler. Moreover, under these consession of their life. Some find themselves loaded ditions the boiler will last longer and will cost less up with a temper like gunpowder, or they possess bodily possing which was the property of the contract bodily passions which crupt with the violence of the downtake flue behind Lancashire and similar others, again, with spirits that are shy and timid boilers, is the fluctuation of temperature due to the as a bird. There are souls which are born with thin unavoidably varying gases. This has received and scanty emotions; the river of their affection again, there are souls which are like ships without ballast in a heavy sea, and they are tossed about steam is equalised, enabling steam to be given to the life a continual distress. Well, all these, and many with an inconstancy which makes the journey of The engine, again, does its best work when its their mother's worb, and these unfriendly forces more whom I could name, have been thus lame from fusion in every crisis of life's campaign.

### WOMEN WORKERS AND THEIR LOOKS.

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#### R. DRUMMOND, PUBLISHER.

STELLARTON, N. S.

March 8, 1916.

#### D. H. McDOUGALL.

We should perhaps have written "Excelsior" clude that what they were about to read was an obituary notice. We did not write the word, possibly, because in speaking of Mr. McDougall's promotion to be General Manager of the Dominion Steel Corporation, which includes, of course, the Dominion Coal Co., the writer is not wholly in a triumphant mood, and possibly the word was no written because this notice will contain at least gain is our loss." The newspapers which have referred to Mr. MacDougall's elevation have said nothing but the nicest things of him, and all that has been said of him is deserved. And yet, and yet, while very proud that he has been judged eligible to fill so big and responsible a position, and glad for his sake that he has been found worthy, from personal, possibly selfish consideration, one is almost impelled to exclaim, "Confound it," and why? Well, so long as Mr. McDougall was manager of coal alone, one was not confused with a ceaseless feeling of inequality. Coal was common ground. But, ugh, steel and coal, that is a step beyond one, and in such cases human nature is ready with a profest. The Record, on a former occasion said, referring to a General Manager of the Dominion Coal Company, that each succeeding one was in no sense less capable, less to be appreciated than his predecessor. Of the half dozen who, since 1893, have been at the head of the practical end of the big coal company, it may be well said of D. H. Mc-Dougall that he was by no means the least. But why should there be any selfish regret at all, at the promotion; he will still manage the coal end of the business? True, but mistakenly, as I think, the steel end is looked upon as the more important, and as long as the directors think so, they will look for the new General Manager of steel to centre his affections there. Let that pass. The province can congratulate herself that one of her sons has been considered fitted to fill a position which hitherto could only be filled, it was thought, by an outsider. The appointment of Mr. McDougall is the best thing ever the directors of "steel" did. The works at Sydney have not in the past been a towering success. If Mr. McDougall does not succeed in putting them staunchly on their feet, then they never can be made a bonanza to the shareholders.

Portland, Oregon, is the largest city in the world, so far, that has voted itself "dry."

### Rubs by Rambler. =

At the second reading of the bill amending the Nova Scotia Temperance Act—the amendment being to prohibit the sale of liquor in Halifax-Mr. Finn, M. P. P., suggested that the second reading might be deferred for a day or so, that it might be studied, as the bill primarily affected the city of Halifax. The employment of the word primarily was a mistake on Mr. Finn's part. He should have been content with the use of the word "largely, It is the counties which have adopted the Nova Scotia Temperance Act that the bill, it is hoped, will primarily affect. Owing to the existence of license in Halifax the attempts to enforce the N. S. Temperance Act are to a large degree abortive. It is because liquor is sent from Halifax to these counafter the name, so that simple folks might not con- ties that there is so urgent a demand for the passage of the act. When Mr. Finn said "Halifax was primarily affected" he possibly had the "trade" in mind. There are, however, those in Halifax at the present time who, it is designed, should be largely affected by the bill, and those are the lads in khaki. If the lads in khaki were not sufferers from the fact that license prevails in Halifax, and if the temperance counties were not affected similarly, one phrase common to obituaries, namely, "His then it is possible a majority of the Legislators might say let Halifax have its way, the policy it adopts in reference to liquor traffic, harms none but its own citizens, let them have the poison so long as it does injury to name beyond its confines.

For some days, even weeks, after the delivery of the speeches of A. K. MacLean, M. P., and Minister of the Crown Sir Geo. Foster the liberal papers, from the Morning Chronicle up, teemed with editorials bewailing the prevalence of patronage, and lauding these two gentiemen for their strong denunciation of the system. After reading these editorials in the knowledge that there ".ad been no such condemnation of the spoils system when the liberals were in power at Ottawa, one is apt to utter, with emphasis, the word "hypocrisy. is deserving, no doubt, of a harder name, but the word wen't come at my bidding. The condemnation, by the papers referred to, is of patronage as existing and exercised at Ottawa. If they were honest they would not, could not, fail to splurt out a word or two condemning the system as exercised in Halifax. Patronage is quite as rampant in Halifax as at Ottawa, and of the same quality, if not in the same degree. The only difference is that the patronized of Ottawa receive bigger plums than the patronized of Halifax. Mark you, I am not condemning the local government for giving all the pickings to their friends, I am only pointing out that it follows the same system as in operation at Ottawa and that is so roundly condemned by its friends, the liberal newspapers. It any one says the local government is not "strong" on patronage, let me call attention to a few recent happenings. Why was Patterson appointed supendiary magistrate for the town of Stellarton against the wishes of its town council? He is a liberal. Why were Messrs. Lott and Higson appointed members of a commission to investigate the Dr mmond fire? They are liberals. Who constitute the commission making inquiry into the closing of the mine at Thorburn? Why, liberals, of course. Who are the Deputy Inspectors

of Mines for the inspectional districts of Cumberland, Pictou, Inverness and Cape Breton? Why. bless you, five hardy ever-flowering liberals, in the persons of Paul, Gray, Davies, McNeil, Nicholson. from his place in the Legislative Council made the The pickings, in the power of the local government following remarks, basing them on the Mines Report to bestow, go to their political friends. From this rule the local government has never been known to depart, except in a case or two where conserva- chamber presents a Governmental Report, by motives were appointed J. Ps. There were no liberals, in these exceptional cases, competent to fill the office, to the eternal regret of the government. Now, so desire, may at some future day refer to its conbe it understood. I have not a word to say against the government for following an old system, nor against the appointees except in the case of the Sti- the first of this week. pendiary for Stellarton, whose appointment was a wholly indefensible, high handed procedure and a big tactical blunder, or I am mistaken. I am simp- cent years; much matter appearing in former rely pointing out that no other than what is called ports of questionable practical value has been the patronage system is rampant in Nova Scotia, omitted, and there has been a commendable effort and that if the system is wholly bad the liberal at condensation. The information has been better newspapers raight take a hand in first brushing down systematized, which is noticeable particularly in the the spiders which infest the local government pat- tables of accidents, where the non-fatal and fatal ronage system before calling for ferrets to clear accidents are grouped separately and not bunched the Ottawa system from the rats preying upon it. mixty maxty as in previous reports. The reason, possibly, why consistency is called a for in the partizan press.

of recent institution, or that it is confined largely in part from the views put forth by the other three. to this side of the water, are mistaken. Englishmen, especially Londoners, do not take kindly to I even if they have, as alleged, an eye to the main by and by read its proceedings. chance, graciously granted their request. Scotland pointments to any position to which a salaryperquisites-is attached.

Crooks, M. P.

#### MR. DRUMMOND ON THE MINES REPORT.

On Thursday afternoon last Mr. Drummond laid upon the table a day or two previously :-

When the Leader of the Government in this tion implied and understood if not expressed, it is laid upon the table so that Hen. Members, if they tents. At this time I desire to make short reference to the Report of the Department of Mines, presented

The Report in some respects is better than its predecessors. It is less bulky than reports of re-

The coal trade of the Province is as big as it is jewel is because of its rarity—It is not to be looked important a subject. It may be looked at from say four standpoints: A counsel for the coal operators has his view point. An attorney for the workeasy matter. Due to centuries of growth its roots vocate agrees with neither, while the spokesman are firmly established. Any who think that it is for the trade per se, accepts in part, and dissents

At this time, though the task be far beyond me, shall speak a word or two for the trade and rethe Seets. Why? Oh, they had a grouch against fer to a fact or two which I am presumptuous them since the time England came begging to Scot- enough to believe will be not only interesting to land for a King, and when the Scots, large hearted, the members of this chamber, but to those who may

From the Report, at page 16, you will notice gave England its James VI in order that he might that the production for the fiscal year 1915 fell bebecome James I of England. James was not among low that of 1914 by no less a quantity than 626,000 those who have small sense of gratitude. He firmly tons. There is no need to get unnecessarily alarmed believed that one good turn deserves another, so over the rather formidable looking shortage. I do when an honorable or a lucrative position was to not take much stock in production; I am more conbe made, or filled, James thrust a Scotsman into the cerned as to sales, as they give a clearer idea of newly made office, or the vacancy. Wherever an the quantity on which royalty is paid. What has Englishman turned in London, he knocked against been the decrease in sales in 1915 as compared with a Scot. The presence of the Scots in so large num- 1914? Turning back to page 15 you will find that bers made him mad and he assailed the patronage the lessened sales for last year are not 626,000 but system as fervently and as fiercely, as did A. K. 407,000 tons. That is bad enough, you may say. McLean lately in Ottawa, and as did the esteemed Yes, but it might, all things considered, have been Chroniele in Halifax. The patronage system proved worse. You must be careful to notice that this deto be not a bad thing for Scotland. Through it the crease of 407,000 tons is for the fiscal year ending Scots peaceably occupied London, a thing they had 30th September. The sales for the last three months in vain sought to accomplish, by force of arms. The of 1915 showed such gains over the same three patronage system does not worry me greatly, due months of 1914, that the sales for the calendar year, possibly to the fact that I am one of its victims, instead of showing a decrease, actually show an inand yet I might tender this advice to the ministers crease of approximately 150,000 tons. Honourable at Ottawa, viz: "If you have the slightest idea that gentlemen will be pleased to learn that the first at next election the liberals may slip into power, four months of the fiscal year have not only overat once take A. K. McLean's suggestion to heart, come the deficit of 407,000 for the fiscal year preand forthwith introduce a bill divesting the gov- ceding, but at the end of January there is a balernment of the power and privilege of making ap- ance to the good of over 30,000. In other words, in the last four months there has been an increase in sales of approximately 450,000 tons as compared with 1915. That means that the government re-The barriers of class distinction have been so ceived some \$55,000 for the four months ending broken down that aristocrats are now fighting side January 31st, 1916, more than for the four months by side with common labourers.—Rt. Hon. Will ending January, 1915. This should be heartening to those overlooking the financial affairs of the Province. As indicative of the general prosperity to make matters clearer. The statement that the of the Province it is well to notice that considerably more than a third of the total sales was disposed of in the Province; if bunker coal be included then three-sevenths of the total sales were marketed in Nova Scotia, a record I believe, so far as home sales, in comparison with exports, are concerned.

Complaints are heard at times as to the alleged high price of coal in Nova Scotia. At the present time, if the United States be excepted, I know of no country where the price is lower. As a consumer in a small way. I am not going to say that the present price of coal is not a trifle stiff, but I will say that many would not rail at its being excessive if at a much less rate were it not for the water that sent down. The weight of coal being drawn daily from the collieries is not once to be compared with the weight of water. Taking the commonly accepted specific gravity of pit water at ten pounds to the gallon, the weight of water raised in a year is sixteen million tons as against say seven million stored in reservoirs it could be sold for power purposes at say five cents a thousand gallons, representing a yearly value of some \$165,000. Of course, according to location and strata formation, the cost of raising water adds to the cost of a ton of coal, it may be five cents at some collieries, and fortyfive cents at others. I am assured that at one colduction forty-five cents a ton. Then there is the ber in the workings.

pits worked 19 days and the number of workmen and the days worked must be accepted as correct, having been attested to. Though the pits worked 19 days, the men absented themselves from sickness and other causes, more particularly and emphatically other causes, four and a half days a nonth, or fifty-four days on an average in a year. There was a loss of time amounting to about a quarter of the time that could be worked. Among them the men in the employ of the company, through sickness or other causes, lost say half a million days in the year. The subject of absenteeism is as per-

plexing as it is aggravating.

A few words as to the fatal accidents, reference they realized all the cost entailed in the production to which is made on pages 112 to 115. The number of a ton of coal. In Nova Scotia coal could be sold of fatal accidents last year was 41, which gives a disappointingly high fatality rate. It has been asserted that 90 per cent, of the accidents in the United States are preventable, and I incline to the opinion that the statement is not exaggerated. How many of the 41 accidents in Nova Scotia may be placed in this class it is impossible to say as while how or what occasioned the accidents is given, the "why" such accident occurred is not. Glancing tons of coal. If this water could be raised and at the table you will notice that the verdict of the coroners is invariably accidental. Are we to infer from that word that in every case except two the accidents were not preventible. I cannot accept that theory. My opinion is that as a rule the coroners in the case of mining intalities have not a proper conception of what their dary is. The cor-oners tell us in their verdiet "Killed by a fall of five cents at others. I am assured that at one color of the stone; ""Killed by a fall of coal;" "Killed by a steam pumping of water added to the cost of pro-runaway box." Now, everybody before the inquest duction forty-five cents a ton. Then there is the knows what killed the men, no need of an inquest item of timber. There were received at the various for that, but all interested want to know "Why was collieries last year over 3,305 million lineal feet of there a fall of stone?" "Why did the coal fall?" lumber. At two cents a foot this would mean a "Why did the box run away?" was it for want of lumber. At two cents a foot this would mean a "Why did the box run away!" was it for want of value of say \$400,000. This means about six cents timber or spragging in the first two cases, or from a ton for every ton of coal sold. But here again, negligence of a workman, or from bad rope or maas in the case of water, the cost to one colliery for terial in the case of the third. Unless we know the timbering is far in excess of that to another. For "Whys" and the "Wherefores" of the accidents, instance, there is one colliery in Cumberland County we may shout "Safety first" till we are black in where the timber adds only a cent and a half to the face without any practical beneficial results. the ton of coal sold, while the timber cost to an- As the law now stands, the Mines Department are other colliery in the same county is nigh twenty practically powerless in the matter. It is in a way cents a ton. At several collieries in Cape Breton bound to accept the verdiet of the coroner's jury. the timber cost is not four cents per ton; and, at As the fatal accidents in mines form a large proleast, at one colliery on Cape Breton Island the cost portion of those occurring in this Province, I have is four times that; and, be it remembered that to for some time been advocating a change in the mode the timber cost has to be added a rather formid- of holding inquests. The prevailing opinion may able labour cost in assembling and setting the tim- be that a physician is a proper person to appoint a coroner. That may be correct so far as concerns An interesting table to one familiar with coal other industrial accidents. For inquests on accimining is that on page 161. While interesting to dents occurring at the collieries, men only with a the expert it possibly is a difficult table for the practical acquaintance with coal mining should be lay mind to grasp. Taking the first line in the appointed. My idea is that one coroner should table we read: "Average days work a month 19" serve the four mining counties. Do you say that -"Total workmen 9,813; and the total days 1,695, would involve a new expense? What of that? When 987." The layman takes it into his head to verify we speak of the value of an able bodied man to a the tables and divides the total days by the total country, is it all pure pratte? If we can properly workmen and to his surprise finds that his count ascertain "Why" certain tatalities occur, and can makes the days worked 14.5 and not 19. He then thereby enforce prevent we what is the saving of multiplies the 9,813 by 228, being twelve months a couple of thousand dollars in comparison with at 19 days per month, and much to his surprise the saving of a number of aves? It has been sugfinds the answer to be, not 1,695,987 but 2,237,364, gested that possibly the large number of fatalities a difference of no fewer than 541,377 days. He is from falls of stone is due if not to the cupidity, to puzzled, and here the expert steps in and attempts the overzeal for economy on the part of the oper-

ator. Let me here say if that be a general accusa- a national army in the field. for the employees, and I can say that if pit men tional opportunity, by passing into the soldier's have not all the timber they require placed at conpanoply have lifted the name of Irishmen to a new venient places in the mine, the remedy is in their plane in the world's eyes, and opened to their counown hands. It has been further suggested that less timber is being put down some collieries than opportunity of ennoblement cones. The ranks of when these collieries were shallower. I can well their brothers in the field are thinning under the believe that. A fifteen year old colliery may rebelieve that. A fifteen year old colliery may re-quire less timber than a five year old, for the work will they?" Will they keep them filled? Aye, in the former consists largely in drawing pillars where timbering is largely unnecessary, whereas in the latter rooms or levels are being driven, demanding a large quantity of timber.

A man enters the hotel from the street; he sees a friend going out with boots whose soles are smooth. He says to him, "The streets are icy and very slippery, I could scarcely keep my feet with rubbers which turn out fatal. That of course was an accident, but a preventible one. Though there may be as preventible and not preventible.'

### MR. REDMOND'S PREFACE.

(Two Extracts.) umph" as a work of real historical importance. It many lives might have been spent in its defence will be quoted with his great speech at the outbreak down all the centuries? And would there have been

Prussian challenge.
"It is," says Mr. Redmond, "these soldiers of ours, with their astonishing courage and their beautheir tenderness as well as strength; carrying with advancing to the charge, their fearless officers at their head, and followed by their beloved chaplains as great-hearted as themselves; bringing with them a quality all their own to the sordid modern battlefield; exhibiting the character of the Irishman at its noblest and greatest-it is these soldiers of ours to whose keeping the Cause of Ireland has passed today. It was never in worthier, holier keeping than that of these boys, offering up their supreme sacrifice of life with a smile on their lips because it was given for Ireland. May God bless them! And may Ireland, cherishing them in her bosom, know how to prove her love and pride and send their brothers leaping to keep full their battle-torn ranks and to keep high and glad their heroic hearts!

"No people can be said to have rightly proved of millions. their manhood and their power to maintain it until they have demonstrated their military prowess; and though Irish blood has reddened the earth of every

tion, it is wholly unwarranted. I am familiar with Irish people regard their armies in the field? How How do the the Mines Regulation Act, and more so than most do their brothers at home regard these brothers in with the special rules for the guidance at collieries the battle-line, who, at the call of danger and natry's cause a new outlook? To themselves the same

#### CALAIS.

(Boston Transcript.)

There is quite a smile in the report from Berlin I am, as I have said, of the opinion that many of the British plot to hold Calais after the close of fatalities styled accidental are preventible. I have the war. The Herr Professors are too alertly on been asked what is a preventible accident. Let me the job to permit any serviceable scrap of history endeavor to illustrate my meaning in a simple way, to be wasted, and here is one fairly suited to their purpose to create dissensions among the allies. Let France but realize that Perfidious Albion is preparing to wipe out one of the stains on her honor, and the end of the war is in sight! And in its day on, you had better put on yours or you will likely Calais was a stain, a tragedy that smote Englishfall." The advice is disregarded, the man goes men to the heart and made them hang their heads out and shortly thereafter falls, receiving injuries in shame. For 211 years England held this fortress on the Channel coast, a pistol, as one might say, some who say it cannot well be done, to my mind ward III won it in a year of siege from Philip de there is no great difficulty in classifying accidents Valois, until Mary, by stress of storm and unpreparedness, and mayhap, treachery, lost it in eight days to the royal master of the Duke of Guise. It was at that time the most notable fort that England Mr. Redmond has written for "The Irish at the fall today. Yet England was well rid of Calais, Front," by Michael Macdonagh, a preface which for all the hot disgrace it made her feel, the tears will, we believe, rank with Mr. Lloyd George's of rage and mortification, its sacrifice saving her famous introduction to "Through Terror to Tri- from a continual brawl upon the continent. How of war by every writer who attempts to picture the an Elizabeth to back a Raleigh and a Drake in the manner in which a really United Kingdom met the "Good Old Cause" had not the Spanish alliance been discredited at the start? Nor was that the only alliance that came to naught at the taking of Calais, for, though it hastened the marriage of the tiful faith, with their natural military genius, with Dauphin and Mary Stuart, Scotland is British today, not French. In English hearts the old Calais them their green flags and their Irish war-pipes; is a memory of the age of chivalry, when Kings and Cardinals, Dukes and Lords played their comic opera parts upon the mimic stage, when Francis, his doublet decked with \$4,000,000 worth of pearls and diamonds, met Henry and the Lady Anne Boleyn, scarcely less gorgeous in their glad array, where clear-eyed English lads and grey-haired sons of the republic, in imperial khaki, are battling shoulder to shoulder today in the common cause of liberty. The new Calais has received a baptism of fire that has glorified it, sanctified it, welded two peoples into one, and lifted it in the imaginations of men far above the barbaric pageantries and petty quarrels of a bygone age. "When I am dead, Mary Tudor, "you shall find Calais lying in my heart." You shall find it today lying in the hearts

Porridge and the Shorter Catechism, though by no means so popular as they once were, still help continent, never until now have we as a people set Scotland's sons.—Major-General Sims, Principal to put grit into the grip, and iron into the blood of Chaplain.

### AROUND THE COLLIERIES

The water in the Thorburn mine is now up to near No. 4 landing. It is said it cannot rise much further before it reaches the steam pump.

In last issue the Record hinted that certain parties had designs on a portion of the Port Hood areas. Possibly in this we were mistaken, as the Record has been informed that Messrs. Duncan Beaton and others have taken up ground, back of the Port Hood leases, in the direction of Little Mabou. From all we can learn the lessees are satisfied that there is coal on their lease and that they will develop it, beginning in an unpretentious way. The Record wishes them success.

It is rumored that the Thorburn Royal Commission may have another sitting before making a report. It seems that due to the fact that the official stenographer was not versed in mining technical in this county the elderly workmen retire at an terms errors, of evidence taken, crept in which could be construed in an entirely different sense from what the witnesses intended. From the evidence as published in the Evening News it would appear as if the Commission would have its deliberations coal mining schools cost the Local Government largely confined to one point, namely: "Would it \$9,863.95, divided among the several districts as pay to reopen the abandoned mine for the compara- follows: tively small quantity of coal procurable?"

A member of the local legislature suggests that the closing of some collieries is due to the fact that a company is given many areas all in one lease instead of a separate lease for each area. What does that mean? It simply means that if this legislator's include the schools for stationery engineers. To the plans had been in existence during the past thirty \$9.863.00 have to be added the sums paid the memyears Nova Scotia's coal trade would be no larger bers of the examining boards and incidental exthan in the days of its infancy. There would not be five companies with an output between them of six million tons but a score of collieries, possibly, total expense in the matter of granting certificates whose combined output would not reach a million to mine overmen, managers and engineers and up tons. Let it be made law and published broadcast to some \$12,000. At the last examinations eighty that no company in future would be given more certificates were granted, 39 to coal mining officials than one square mile in a lease, and that any mile and 41 to engineers. Dividing the expenses by 80 held and not worked would be forfeitable. After it is found that each successful candidate cost the the publication of this new edict none but a brain- province a hundred and fifty dollars. Last year less wastrel could be found who would invest a dollar in Nova Scotian coal areas.

The vacant ground in the Pictou coal field lying follows: in an easterly or southeasterly direction from New Glasgow and lying between that town and Sutherland's River is now almost if now wholly covered by leases. The latest ground to be taken up lies be-tween the Acadia Coal Co.'s areas and areas held by others, and Sutherland's River. The newest lessee is C. J. Burchell, who has taken first and second rights on two five square mile blocks. It has neers 1; total. 7. been reported for some time that there are coal seams in that locality. If the lessee means business then the workmen at Thorburn who are owners of houses, may have opportunity to work nearer In Cumberland County the cost was \$452.00, an home than they have at present. The late new discoveries at Stellarton may tend to a more extended in Picton County, \$133.00; in Glace Bay, \$76.00, exploration of the Pictou coal fields.

Besides the contribution to the Relief Societies of three-tenths of a cent per ton on coal shipped the local government contributed \$6,250 to what is termed the "Widows' and Orphans' fund." One hundred and twenty-five donations were made, distributed as follows: Sydney Mines district, 28; Glace Bay district, 60; Cumberland district, 21; Pietou district, 14, and Inverness district, 2. It may be interesting to note that for every \$50,00 grant made, the Dominion Coal Company makes the most favorable showing with shipments of 709,000 tons. Pietou comes next with 320,000 tons, then follows Cumberland with 270,000 tons, Sydney Mines with 208,000 tons and Inverness with 110,000 tons, all rough figures. Possibly the Sydney Mines district had more old employees on the roll than any of the other companies. One might have looked for a similar thing in Pictou County, but it must be that earlier age than at Sydney Mines and therefore drop from the fund.

For the fiscal year ending 30th Sept., 1915, the

Cumberland Co	ot	ın	t	y			90)					,		\$3.165.46
Griace Day														9 300 00
Sydney Mines														1 409 40
r leton County			4											1 865 14
Inverness Coun	ty	7												990.06

Let it be assumed that the coal mining schools penses in connection with the schools, examinations, and granting of certificates, some \$2,200 being the there were five districts in which examinations were held. From the several districts the proportion of successful candidates for certificates was as

Glace Bay-Mine officials, 22; engineers, 19;

Sydney Mines-Mine officials, 5; engineers, 6;

Pictou County-Mine officials, 6; engineers, 8; total, 14.

Cumberland County-Mine officials, 6; engi-

Inverness County-Engineers, 7; total, 7.

There is an astounding difference, in the cost to the government, for each successful candidate. astonishingly high figure; in Sydney Mines, \$136.00; and in Inverness County, \$33.00 only. It will be

noted that in Inverness County there were no suc- temporary, briskness of trade and demand for lapresented themselves for examination. But one may not suppose that it costs more to run a mixed school than one where only candidates for engineers' certificates attend.

erown. Gas, like water, belongs to the soil. Our overcome, far shale has not been declared the property of the to stay. I fully expect that after the war there will fought shy of declaring what shale is. An official will absorb their energies fully. In any case, the opinion of what shale is has never been given, lighter occupations will probably remain theirs perthough a former official of the Mines Department petualty. To take one instance, I believe the male said there were two kinds of shale, one which prop-domestic will utterly disappear. We shall no longer erly can be called shale, and the other which can see an able-bodied footman, capable of man's work, not be properly so called, but must be classed as handling round teacups in a drawing-room. coal. The names given to the two kinds of shale are earbonaceous and bituminous. The former ficial? (the interviewer asked), may not be called coal while the latter may. ed that the Acadia Coal Company will permit with to imbue him with a new driving energy. out protest boring to be carried on over a large portion of its property. The areas covered by Mr. divisions ever operate again on the same lines Spence are presumably on the east side of the East River as no boring would be permitted in the vicin- ever get back again to the Liberal, Conservative, ity of the company's collieries. If Mr. Spence hon- even the Labour party, in the sense I have always estly purposes to prosecute the shale oil business known them during my thirty-six years in the House he deserves encouragement in every reasonable of Commons. The recent association of the leaders way. It should not be hard for him to make amic- of the different parties during the past eighteen able arrangement with the Acadia Coal Co. To in- months has undoubtedly altered the attitude of all voke law is not a profitable business, as a rule. A towards many hitherto pressing problems. Workfamous law-suit took place in Scotland many years ing together, men quickly find how much they have ago, called the Torl-anhill Mineral dispute. question before the courts was "Is this mineral coal selves confronted with a new and entirely different or is it not?" The Record forgets at the moment set of urgent questions which will strike clean which of the litigants the decision favored, but the across the old party divisions. suit was a very costly and lengthy one and did not finally settle the question as to when shale was coal tem will have to undergo a change. Above all, I and when it wasn't. Oil from shale is a most profit- think there will be a general desire for closer assoable industry in Scotland and the wonder is that ciation with our oversea dominions, apart from the it has never attracted practical attention in Nova feelings of gratitude we have for the enormous sac-Scotia, where it is to be found in immense if not rifices they have made for the mother country. unlimited quantities.

#### AFTER THE WAR.

Below we give extracts from an interview granted by Mr. Walter Long to a British paper. Mr. lished one great thing in that it has almost com-Long though once a minister is not a politician in pletely broken down class distinction. the ordinary meaning of the word. He is not brilliant, but is possessed of strong common sense. His views should be interesting.

cessful candidates for mining certificates—if any bour. The working classes are earning far higher wages than ever before in many cases, and women have come into their own as far as employment is concerned. In many respects they have proved themselves fully the equals of men, and have shown themselves physically capable of many kinds of In August of last year rights of search were work which formerly had been regarded as beyond applied for and granted over a large number of the their strength. Moreover, it has been necessary for coal areas held by the Acadia Coal Co. There are employers to alter conditions of factories and workthese who say that the new lessee, Mr. Spencer, shops to the extent of making it possible for them purposes to bore for natural gas. The Record holds to work side by side with men. Previously this has no such opinion, for the reason that up to date gas been one of the most formidable obstacles in the in Nova Scotia has not been declared a mineral, way of caployment of women, but recently, without nor has it ever been declared the property of the any fuss or outery in regard to expense, it has been

My belief is that women in industry have come

But is not this present prosperity largely arti-

Not necessarily so (answered Mr. Long). This former is the product of fishy material and the war has done more than merely create new demands latter a product of vegetable matter. Just here the for labour. To a large extent it has put new enpuzzle comes in. If the shale underlying the Acadia ergy into this country. The Englishman, taken as leases is of the kind that may be called coal, it a whole, seldom troubles about making large sums goes with the leases of that company. If it is not of money. He is more concerned with procuring coal, what is the government's position in the mat- sufficient for his immediate needs and in maintainter? Shale is not one of its mineral reservations, ing his family in moderate comfort. It is very rarely therefore in a matter of this kind the government he seeks money for its own sake. But this war, with is a mere spectator. Of course it is not to be expect- the tremendous burden it will leave behind, is likely

What about home politics? Will the old party

I doubt that very much. I do not think we shall The in common. And after the war we shall find our-

Moreover, I think even our Parliamentary sys-

Class Distinction Breaking Down. Is this war likely to leave a lasting mark on the life and people of Great Britain?

Inevitably. Already it has practically accomp-I doubt if the working classes of this country regard any more the aristocracy as an effete race of parasites fattening on their labours. And, on the other hand, But taking Great Britain as a whole the effects the aristocracy more than ever before realises the of the war are mainly seen in the extraordinary, if magnificent qualities of the British working man and what the nation owes to him. I think the common sacrifice has brought all classes together in a manner that has not existed since the Napoleonic

ing, and must continue to change. The nation must of war. Never will the nation have so great an opgo back to the simple life, to the less luxurious meth- portunity to wrest good from evil. Let it be reod of our ancestors. I do not mean that I want membered, too, that although the war may last long the poor to suffer in any way. The more wages the yet, the actual time occupied will be but a tiny space working man earns to the extent that he can pro- in our history, so that we really have not much cure for himself and his family better food, better time in which to prepare for the aftermath. Sevenclothes, better housing, the better it will be for the teen months of war have passed, and yet it seems country. But above this minimum standard of but yesterday that we were at peace. The next comfort every class will have to alter its ways. We seventeen months will fly as swiftly, and then in all

shall have to abolish all useless luxury.

Mr. Long said he did not believe that with peace would come a social upheaval which was likely to upon an awakened social consciousness, or, to use cause a clash between capital and labour. He with reluctance a much-abused word, a larger and Military Service Act was due to a misapprehension. found its way into the Army, where beforetime we The working men rightly regarded the great trade had merely officers drawn from the rich and priunions as their bulwark and support, and, he be- vates drawn from the poor, with the sharpest poslieved, it seemed to the majority of them that the sble dividing line of caste. At lease we may be great edifice they had erected and the rights they sure that that kind of Army-the most deplorable had fought for and won were instantly to be de- kind of Army-we shall never have again. And stroyed. He saw their point of view and sympa- thus also with the body politic. Not by a process thised with it, but they had been misinformed, and of levelling down, but by levelling up, we must aim when they realised the true position their opposition at a society in which the burden of hard work and would disappear. He believed the working man the solace of social comfort shall alike be equally was sound to the core, and that he was as true a shared. patriot as any of them. He had great confidence

Nothing is more certain than that the enormous
in the Labour party. Mr. Arthur Henderson was labour power of the United Kingdom—the worka true statesman, and several other members of the party were men of deep and sound judgment, with some forty-seven millions of people-could be organthe welfare of their country at heart.

SCOTS FOLK.

Mr. J. Hugh Edwards, M. P. for Mid-Glamorgan-shire, who spoke in Glasgow and Aberdeen last week under the auspices of the Scottish Brotherhood Federation, seems to have a very high estimate of the qualities of Scots folks. In the course of conversa tion with a Glasgow journalist, Mr. Edwards said that from what he had seen the scenery of Scotland was really grand and majestic; the scenery of Wales was beautiful and rugged, but for grandeur it could not compared with that of Scotland. His reception by Scots audiences has quite taken him by surprise. The Welsh people are highly emotional, and can easily be raised to a pitch of enthusiasm, whereas the English are not so responsive to the speaker's appeal. He had often heard it said that Scots audiences were unresponsive, cold and unsympathetic, but he had found them to be the opposite of this in Glasgow. Never in the whole course of his public career (and he had considerable experience of Welsh and English audiences) had he found audiences so ready to understand the speaker's point of view, so attentive and so sympathetic. The kindliness of the Scots folk had also appealed to him; he loved to hear the Scots accent, and he much admired those stirling characteristics which had made Scotsmen and Scotswomen one of the finest and foremost races in the world, a powerful factor in the building up of the great British Empire, and also a powerful factor in the progress of every good and worthy movement in the wide

#### "AFTER THE WAR" PROBLEMS. (By Sir Leo Chiozza Money, M. P.)

We may rejoice that the Government has dewars. The common peril has reunited the country. clared that it is not forgetful of the after-time prob-Furthermore, all our standards of life are chang- lems that are boiling and bubbling in the cauldron

human probability we shall be at peace again. We shall undoubtedly be able to count in aid thought the opposition of the Labour party to the nobler patriotism. A leaven of democracy has even

> ing force of the grown members of a community of ised to produce tremendously more wealth than was in practice obtained before the war. The war itself has demonstrated the fact by maintaining our production and the greater part of our export trade, in spite of the withdrawal of millions of our most able-bodied men for fighting purposes. It ought to be obvious to the most unthinking that if we can do the gigantic trade we are now carrying on in war, in spite of our great Army and Navy, the restoration to work of millions of fighting men ought to raise our wealth production far above what it was when war broke out. The war, in fact, has proved the thesis which I presented to the British people before the war in my "Future of Work." viz., that their work as a whole was largely wasted by bad organisation.

> ly imperfect, it is immensely better than was our organisation for peace before the war began, Never before in our history were we turning out the stupendous quantity of engineering products which is now being produced in our various engineering shops and munition factories. Yet we prided ourselves in peace upon being a great engineering nation. Imagine that after the war we could continue the organisation for war that now obtains, save that the product shall be peace goods instead of war goods. Imagine the effect upon society and upon industry! Our railways, light railways, canals, mills, factories and workshops would soon become splendidly equipped fountains of wealth, pouring out and transporting a plentitude of goods either for home use or for export, to bring in other goods which Nature forbids us to produce. It is a picture which makes the imagination glow. It

is a thing which we could have in solid fact if we Guttery said the drink trade had been discredited cared to put our hands to the task of the organisa- as never before-condemned in the judgment of all

#### HORSE'S TRAGIC VIGIL.

A remarkable story of a horse's faithfulness is related in a monthly magazine of the Claremont which after the war would come to an impoverished Mission, Pentonville, N., by one of the Coldstream community.

"After fierce fighting at Loos," he writes, "it the firing lines. For two days he remained there. he was standing by the dead body of his rider, and

to get out to the horse again, blindfolded him and Telegraph,

I do believe very earnestly that in the last halfdozen years clergymen as a whole have done great damage to Christianity by their unwise backing of the ignoble pacificist movement, which puts peace Bible teaches, it is to put righteousness first. Peace and not otherwise .- Mr. Theodore Reosevelt.

The Church must prepare to give a new and powerful message in the land. The Christian standard of purity in regard to home life must be asserted afresh. In commercial life also the Christian standard must be insisted upon. No doubt England stands high in the honesty of its great business concerns; but in the petty details, the small transactions and little rivalries, the hateful maxim "Business is business" prevails. Business methods must abreast with Moses in recognition of the worker's be converted into Christian dealings .-- The Dean of

man, crouching down beneath the parapet of the output. This fact has now, it is stated, been made trench, his khaki plastered with mud, not an heroic even disastrously clear in Government-controlled figure to outward appearance, nothing attractive munition works, and they are to abandon Sunday to the eye. Through the days and the nights of the long winter he sticks it-and he jokes about it. That is heroism. There is an impression in some quarters at home that the men like the life. They hate it, and yet they are always cheerful.-Rev. S. W. Berry, on returning from the Front.

At the annual meeting of the National Provineial Bank of England Lord Incheape said: "In my humble judgment, Germany is already irretrievably In some Westend shops it was now possible to buy beaten, and no one knows this better than she does a quarter of a fowl. . Her trade with the outside world, except for a fraction which finds its way through neutral countries, is practically dead. She is even driven to the expedient of trying to get her rubber supplies conveyed to her in garden earts across a neutral frontier in 9-oz. balls, ingeniously painted to resemble Spanish onions. I have myself seen one of them.

Sir George Toulmin, M. P., speaking on Saturday at a conference of the Lancashire and Cheshire Band of Hope Union, said the loftiest patriotism at the present moment was so to work that the nation of the future should be a sober nation. Rev. A. T. an understanding.

the belligerent nations, friendly and hostile. Professor Weiss, speaking from the sociological standpoint, said if we could only tackle the drink problem we should be far better able to resist those evils

Sometimes in reviewing the career of the Kaiser was noticed that there was a horse standing between it is more charitable, as well as perhaps more just, nursing dreams of illimitable greatness.—The Daily

for drunkenness has resulted from the liquor control orders. Dr. Addison, replying in the House of Commons to Sir Walter Essex, said the convictions during four weeks ending December 19, as ahead of righteousness. If there is one thing the compared with the four weeks preceding the order, had fallen approximately 50 per cent. The reducis good when it is the handmaiden of righteousness tions were—in the North-East Coast area, 37 per cent.; Liverpool and Mersey area, 46 per cent.; Midland area, 63 per cent.; West Riding area, 53 per cent. The figures in Scotland, although less satisfactory, showed a substantial reduction.

It was Silvester Horne, in his last speech in England, who said that Moses, four thousand years ago, was in advance, with regard to social progress, of the existing British Government and Parliament. The Government, we are glad to learn, has just got absolute need of the weekly rest-day. Months ago employers and works managers were unanimous that the seven-days' week was so injurious to the The greatest type of courage to me now is a worker that it was not compensated by increase of work.

> To shop economically, buy in small quantitiesthis was the gist of a lecture on "Waste in Shopping" by Mr. Grant Ramsay, principal of the Institute of Hygiene. In France one could buy the leg of a rabbit or the wing of a fowl, and consequently an invalid in poor circumstances could have a delieacy which would otherwise be beyond his means.

#### WHERE "TIPPING" IS UNKNOWN.

Lecturing before the Literary and Philosophical Society of Leeds on "Serbia and its People," C. B. Howdill paid high tribute to the independence and thrift of the Serbians. During his travels in that country, he said, he had never seen a hand held out, nor met a beggar. Even "tips" were strange. Paying his hotel bill in one town he gave a youthful waiter a margin for a tip. The money was handed back. The idea of a tip was so foreign to the Serbian and the lecturer's familiarity with the language so limited that they did not easily come to

#### SAY OUR SOLDIERS.

very deed will rise in protest under their white deal sending my last. There is only one. crosses. ''-Referee.

Fifteen or twenty years ago I could have taken a day—after the war. you to half a dozen places where you would have found lads sleeping out; teday I do not know of

#### IN ORDER TO WIN.

"To beat the Germans his country has got to plug in with all its might at home as well as abroad. Ministers must make up the r minds to take off the urday Review.

In Wellington, New Zealand, a widow who aske "Give us the stuff to fight with; don't talk, but for a pass to be present at the departure of reinwork to help us, till we've thumped Germany so forcements was asked whether she was next-of-kin thoroughly that our children may reap the benefit to a soldier. She answered: "Yes, I have only one of the work we have done, are doing, and will do. left. I had eight boys, seven have already gone, But if talk tries to render that work useless, the four are killed, three are wounded, and now I am

Mr. G. N. Barnes, the Labour M. P., in the course To imagine that in this struggle the forces that of an informal talk to the members of the Glasgow hold the Son of God in contempt, and boldly affirm Corporation, said that his support of the Military His ideals to be those of weakness, are to triumph, Service (No. 2) Bill had estranged some of his forwould be to deny Him basely. It is not that we mer friends, but he felt compelled to sink academic ought not to do this; it is that we cannot, if in our considerations of liberty with a view to prosecuting own lives we have really known His power.—Dr. the war to the only possible conclusion of triumph Campbell Morgan.

Nothing he did now pledged him to any course of action a year-or even

Commenting on the very small proportion of one. Indeed, I do not think boys and girls are now nervous diseases at present among the men of the to be found sleeping out. The old type of street Fleet, Surgeon-General H. D. Rolleston, R. N., says arab is passing away.—Mr. Thomas R. Ackroyd, that it is quite possibly due to the absence of alco-Hon. Sec. to the Manchester Boys' and Girls' Refu-holism among the seamen. The allowance of stimulant is only half a gill of rum daily, and special precautions are taken to prevent the men having more.

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## Synopsis of Coal Mines Regulations.

COAL mining rights of the Dominion, in Manitoba, Saskatehewan and Alberta, the Yukon Territory, the North-West Territories and in a portion of the province of British Columbia, may be lessed for a term of twenty-one years remead for a further term of 24 years at an annual rental of 81 an acre. Not more than 2560 acres will be leased to one combinant.

opplication for a lease must be made by the applicant in person to the Agent or Sub-Agent of the district in which the rights applied

In surveyed territory the land must be described by sections, or legal sub-divisions of sections, and in unsurveyed territory, the tract papiled for shall be staked out by the applicant himself.

Each application must be accompanied by a fee of 50 which will be refunded if the rights applied for are not available, but not otherwise. A royal which per paid on the merchantable output of the mine at the rate of five cents per ton.

The person operating the mine shall furnish the Agent with sworm returns accounting for the full quantity of merchantable coal miner and pay the royality thereon. If the coal migraphs as not being operated, such returns should be furnished at the cone as well include the coal mining time only, rescinded by Chap. 27 of 4-5 George V. assented to 12th June, 1914.

For full information application should be made to the Secretary of the Department of the Interior, Ottawa, or to any Agent or Sub-Agent

W. W. CORY. Deputy Minister of the Interior.

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The first Number of the 'Trades Journal' was issued the first Wednesday of 1880. The 'Journal', while taking a deep interest in the Coal Trade, was more particularly interested in matters affecting the welfare of those employed in the coal mines of the Province. Its aim was to secure for these better working conditions, and to give them the standing in the community to which, it thought, they were entitled. That much good was accomplished along these and kindred lines is acknowledged by all able to make comparison between conditions as they existed in 1880 and as they exist now.

In 1898 the name was changed to the Maritime Mining Record, in order to express more distinctly the place it was intended to occupy. Since then, till now, its pages have been devoted chiefly to coal mining, which is the staple industry in Nova Scotia. With the growth of the trade it has grown in influence, and is now considered the one reliable authority on all matters connected with the coal trade.

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