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I. No. 2.

QUEBEC, 1st MARCH, 1880.

the journal may reach some who have not seen the first r, we again insert the preface in the second number in lerest of the paper.

ssuing this the first number of the Canadian Military ew, a payer devoted to the interests of the Militia Dominion, we hope that every officer and member of the will wish it God speed, and extend to it their cordial thy and support, without which it cannot fail to meet the mation for the future historian of the Royal Canadian Militia.

ng issued in connection with the Dominion Artillery Ason, its zim will be identical, riz, the dissemination of sional knowledge; it will, however, embrace all arms of vice, and the utmost endeavors will be made to make it sting to all—to this end, it is requested that every one as the interest of the militia at heart, will forward the of their corps, batteries, etc., regimentally or socially, to itor for publication, in order that the force at one end country may know what is being done at the other, and of emulation excited accordingly.

intended that it shall contain articles and clippings from t military journals, (English and French), thus giving information on technical subjects which could not be obwithout great expense; ample space will be left for those sy wish to ventilate their opinions (within the bounds of ne), on purely professional matters; changes in dr'll; enclosed form to the Editor.

It is also intended, if officers commanding corps will be good enough to furnish the necessary information, to give a short history of each corps, showing date of foruntion, names of officers who took part in its organisation, officers who have successively commanded it, extracts from orders, in fact everything that might prove interesting to its members. This would have a tendency to create an esprit de corps, and furnish much infor-

The publishing of a military journal, with the above object, has met with the approval and promised encouragement of the Honorable the Minister of Militia and Defence, and has received the concurrence of the General Officer commanding, it now only requires the support of those in whose interests it is published, to make it an entire success.

It will be issued for this year, monthly, in parts similar to the present. In placing the subscription at One Dollar per Annum, it is hoped the REVIEW will be brought within the reach of all-at any rate, within the reach of a sufficient number to warrant its continuation, the cost of printing and a few minor expenses being all that is required.

Intending subscribers will be good enough to forward the

Defences of Montreal.

Now that the Government has caused the manufacture and conversion of guns to be commenced at Montreal, it will not be out of place to point out the necessity there exists for the erection of batteries in suitable localities for the defence of that city. It has been said that our Militia has been augmented from time to time by additions to particular arms, more from the whim or fancy of the individual entrusted with its organization than for the suitability of the troop, battery, or company, for the locality in which it was raised. This cannot be said, however, of the brigade of artillery stationed at Montreal, it having been formed when General Sir Patrick Macdongal was Adjutant-General, for the purpose of manning the batteries proposed to be erected for that place, and there is not the slightest doubt as to its being an organization essentially necessary for the defence The brigade of artillery and the two companies of engineers stationed there, are monuments of the neglect of past Governments, as compared with the efforts of individuals, of that dire necessity—the necessity of being prepared in peace for time of war. Jomini says :—" Un Gouvernement qui nézlige son armée, sous quelque prétexte, que ce soit, est donc un gouvernement coupable aux yeux de la postérité, puisqu'il pripare des humiliations à ses drapeaux et à son pays

What better training could the Montreal Engineers have had these many years than that recommended for them by the In-80 ctor of Artillery, their employment during annual drills in the erection of batteries, if only of earth, in positions where they are required? What better training also could the Arth ry have had than the manning of these batteries, and intim? It is the duty of every artilleryman to make himself a: juainted with the distances to conspicuous objects in front of his batteries, in fact to be perfectly instructed in the topography of the country which, in time of war, he would be required to defend. We ask how is it possible for the Artillery or Montreal to educate themselves on this important point, we say important, because the better a gunner is acquainted with the distance to every knoll, even to every tree in front of his works, the more destructive and effective will his fire be. The neglect of this work—the erection of batteries in front of Montreal, to which St. Helen's Island would be a central keep sumounts to indifference as regards the future of the country; an addifference which, in a few years, may cost thousands of valuable lives. This non-preparation cost the French nation mill ards of francs. If this money had been spent in altering an I adapting works, 200 years old, to the exigencies of the present time-in instructing their officers and non-commissioned officers in the topography of the country, etc., they would have had a different tale to tell. It is a well-known fact that the commanded by one of Montcalm's aides-de-camp, a care German officers knew much more about France—from the loca-officer, Capt. La Roche Beaucourt. to 1 of her depôts of stores to the smithy where a house could be quickly shod—than the French did themselves. Every us, at page 370, that "Montcalm had a reserve of upwar German officer was provided with a reliable map of the country two thousand colonial troops and Indians, and three hund he had to operate in. How many Canadian militia officers have and fifty horsemen," whose duty seems to have been inceps of that part of Canada in which their services might be under the vigorous enthusiasm of M. de Bougainville, required—how many of them have been taught that such a like the ubiquitous Uhlan of modern times, this little the upiquitous Uhlan of modern times, the upiquitous

There is only one battery near Montreal, a 3 gun battery on ments of the English on the river, above the city." the end of St. Helen's Island, used for the annual practice of headquarters were established at Cap Rouge, and they t. Brigade, and this unique battery points in the opposite quently assisted materially in helping towards the repulse direction to that in which an enemy might be expected. Should two attempts at landing, which were made by Murray's it, however, happen to be attacked by the possibility mentioned at Point-aux-Trembles," and several other little affairs at

state of defence in addition to the fact that the manufacture this corps; and as he makes distinct mention of their:

and conversion of guns, etc., has been commenced there. this was the only reason; nothing but a desire to reward Messrs. Gilbert for their energy in showing that the work could be done in the country, could, we imagine, influent anyone in having the work carried out in Montreal at a its proximity to the frontier being sufficient to condemn t iden of establishing an arsenal there, on however small a sea

General Hamley, in writing of the considerations for the lection of a theatre of operations, says:—" Many consideration will commonly enter into this question. The convenience as security of the base—the position of the enemy's forcesfacilities, in the shape of good and practicable roads, for rea ing the object—the fitness of the topographical character of theatre to the army destined to operate mit-will all be ments in the problem." We believe there is not a single c sideration of those enumerated which would not be found the neighborhood of Montreal, by an army attacking Canfrom the United States. Being in close proximity to frontier, a base of operations both seems and convenient, one might almost say, already prepared in that country. allude to the arms manufacturing centres of Springfield : Albany. The facilities afforded for reaching Montreal con hardly be better arranged. What would be the consequence Montreal falling into an enemy's hands? Ottawa would be his mercy. A very few hours would send the assembled wise of our Parliament, if in session, flying to their respective hom Canada would be divided, the east from the west, and whole of her foreign trace would be dead. It is unneces for us to point out where batteries erected for the defence Montreal should be situated. The position where they are quired have already been pointed out by abler pens than o many years since, without any action having been taken wards carrying out the recommendations then rade. hope for better times. The present Government has she itself more fully alive to the interests of the Militia service the its predicessors, and it is to be hoped the good work so commenced will be continued.

Cavalry.

A volunteer cavalry organization has long existed in Que even as far back as the days of the old French régime, being the only cavalry then in Canada, some few partied connected with the Quebec squadron of that day may prove interest to our readers.

Lemoine, in his "Quebee, Past and Present," tells us The Quebec Volunteer Cavalry, numbering 200 men,

Militia had to be divided into many divisions for the defence of that the carliest intelligence might be received of the ments of the approaching enemy," and then of their be "heaven-sent."

"detached from the main body at Beauport to watch the ments of the approaching enemy," and then of their be "heaven-sent." in our last issue,—a gun boat with a single heavy gun on board chambault, Sillery and elsewhere. From Knox's "Histo-—it would not remain serviceable for over 10 minutes. Journal of the Campaign in North America," written at the it would not remain serviceable for over 10 minutes.

Journal of the Campaign in North America," written at the and published in London, 1769, we learn most about the doing and published in London, 1769, we learn most about the doing the control of the Campaign in North America," written at the campaign in North America, w

heir covering the retreat of a portion of the French army

How nearly too we were in not having so reliable a historian o quote from, may best be judged from the description of his est visit to Montmorenci Falls. He says:—"There being no articular commands for me, and as I had some spare time on my ands, I ventured to take a walk to the westward, and view nore distinctly the Leap (as the French term it) of Montmor-noi and the enemy's entrewchments. * * * I had very pon the eminence with a paper and pencil in my hand, making ome observations on this cascade, the advantageous situation atural strength of the country all around me, I was hastily alled to by one of our sentinels, when, throwing my eyes about, saw a Frenchman creeping under the eastern extremity of bliged me to retire as fast as I could, out of his reach, and paking up to the sentry to thank him for his attention, he told he the fellow had snapped his piece twice, and the second time it las'red in the pan, at the instant I turned away from the full."

It was due to the constant vigilance of the French troops on Il sides of Quebec, maintained too at considerable loss, that t last decided General Wolfe "that the enterprise of storming Quebec should be given up as too desperate to hope for suc-This was on the 21st August, and it was with the reatest concern that the whole army heard, next day, that their miable General was ill of a slow fever. The French now remherst's success at Ticonderoga and Crown Point, and the f mounted men to follow and harass the English troops, keeping iem constantly on the qui vice is alluded to at page 34, Vol.

On the 26th August His Excellency General Wolfe was rewering, to the inconceivable joy of the whole English army. d as fine weather had set in, scouting parties were sent in all rections under experienced officers, to lay waste the country d stop the Canadians gathering their harvest. In most of e distant parishes, such as Beaumont, Chateau-Richer, Isle Coudre, St. Paul's Bay, and Point Levi, success attended e English rangers, but in the immediate neighborhood of nebee they were not so successful.

On the 7th September, in obedience to orders, "Admiral olmes's squadron weighed early this morning; at six o'clock doubled the mouth of the Chaudière, which is nearly half a ile over, and at eight we came to an anchor off Cape Rouge; re is a spacious cove into which the River St. Michael disemgues, and within the mouth of it are the enemy's floating tteries; a large body of the enemy are well entrenched und the cove, (which is of circular form) as if jealous of a scent in those parts: they appear very numerous, and may nount to about one thousand six hundred men, besides their valry, who are clothed in blue, and mounted on neat light rses of different colours; they seem very alert, parading and untermarching between the woods on the heights in their rear, d their breast-works, in order to make their numbers shew to The lands all round us are high and comeater advantage. anding, which gave the enemy an opportunity of popping at r ships this morning as we tacked in working up. I did not

t the battle of Quebec, on the Plains of Abraham,—and also hear of any damage sustained, though they were a little troublesome. Upon our coming to an anchor they turned out their Point-aux-Trembles-the re-appearance of the cavalry in the Boats, and ranged them in great order; their cavalry dismountollowing spring, in advance of the army, previous to the ed, formed on the right of the infantry, and their whole detachment formed by them, we shall devote this article largely to quorowed up and down without landing, and finally were ordered back to the ships, it having been decided to force a landing next day, but the weather setting in so bad, the orders were countermanded, and on the 10th September, 1,520 men were landed on the south shore at St. Nicholas, upon which a parcel of canoes started from the north shore, with some fifty men, to cross over and watch the movements of the English; but being attacked by the armed boats and floating batteries, who high paid very dear for my inquisitiveness; for while I stood poured grape shot into them, drove them back ashore, where they scrambled up the precipier, and got behind a breast-work of corded fire-wood. "By the time they had f the enemy on the opposite side of it, with the superiority of gained the summit, and got under cover, they were re-inforced, his ground over the left of theirs in point of height, and the and discharged several vollies at our boats, who still edged to-latural strength of the country all around me. I was hastily wards the shore, as if intending to land, and it is not improbable but they expected we should make a descent there, for in a short space of time their numbers increased, and we could heir breastwork, next the main river, to fire at me; this observe from our ships several officers on horse-back, who seemed to be employed in forming and animating their men.

BATTLE OF QUEBEC.

Thursday, 13th September, 1759.

Before day break on this ever memorable day, the English troops made a descent upon the north shore, a little to the castward of Sillery, and the rapidity of the current terrunately carried the beats with the light troops st.ll further down to-wards Cape Diamond. By day-light the whole of General Wolfe's army was formed on the top of the hill, and drove in oubled their watchfulness, especially as the news of General the chain of sentries posted along the summit of the laights, who had cont nued to fire upon the landing parties up to the last eduction of Nagara, would be likely to have a depressing moment, picking off some officers and men. At six o'cleck the fleet upon their army. The advantage of having a small hody march towards the town was lasted by the appearance of the French on the heights between them and the city, and orders given to form up in battle array, the fight commencing with :- "The enemy have got a squadron of three hundred light art llery fire from the French, also a musk try fire from their ot or herseback, as circumstances may require." showing too o'clock we had two pieces of short brass s.x-pounders playing on the enemy, which threw them into some confusion, and obliged their carbines dismounted. avalry, well accountered and appointed, to act occasionally, on Indians and other marksmen. Knox says:-" About eight o'clock we had two pieces of short brass six-pounders playing to three large columns; about nine the two armies moved a little nearer each other. The light cavalry made a faint attempt upon our parties at the battery of Sulery, but were soon beat off, and Monsieur de Bougainville, with his troops from Cap Rouge, consisting of five companies of grenadiers, cavalry, Canadian volunteers, savages and militia, two thousand and sixty in all, came down to attack the flank of our second line, hoping to penetrate there; but by a masterly disposition of Brigadier Townshend, they were forced to desist, and the third battalion of Royal Americans was then detached to the first ground we had formed on after we gained the heights to preserve the communication with the beach and our boats.

From the diary of a French officer, published at page 98, speaking of the haste to engage the English and the quality of troops which formed the reserve, we take the following: "Our Generals, thinking we could do the business without the aid of M. de Bougainville, who was advancing from Cape Rouge with the flower of the army, ordered us to march up and engage the enemy." Again we learn from an old order published at page 116. "Dispositions générales pour s'opposer à la deseante des Anglais depuis la rivière St. Charles jusqu'au Saut de Montmorenci; de même que pour se retirer derrière la dite rivière St. Charles dans le cas que l'on fut fercé dans la descente, pour défendre cette rivière; et ordre de bataille peur combattre et camper, pendant toute la campagne.

To be continued,

The opening in January of militury schools, for instruction of officiers in infantry drill, at Toronto, Montreal and St. John, N.B., as also the addition of 9 Sergeants to the Schools of The estimates will be found in detail in last year's report Gunnery, for the purpose of assisting in these schools. Gannery, for the purpose of assisting in these schools, (G. O., schools in the purpose of assisting in these schools, (G. O., schools immediately, I suggest the perhaps preferable alternative says, they were appointed for the purpose of drilling the companies organized in educational establishments,) is next taken panies organized in educational establishments,) is next taken up—and in this connection the following paragraphs are worthy of the most serious attention, and we hope the suggestions contained in them will not be lost sight of by the Government during the present session of Parliament.

"But it would be a particular to the contained in the lost sight of the transmission of the suggest of the suggest of the suggest of the suggest of the present session of Parliament.

"It may be surmised that so men in each would be audicated."

"It may be surmised that so men in each would be audicated."

"But it would be a mistake to suppose that a technical education, and mach more acide, than the foregoing can provide are not required for even the ordinary drill, general management and interior economy of companies and battalions. For eavalry, artillery

The "Annual Report of the State of the Milit'a," just laid be fore Parliament is of extreme interest to the country at large fast well as to the force. The Lieut, General Commanding S.r. E. Selby Smyth, K. C. M. G., ent.ring more fully into the subject than in previous years. That officer's report by possible of the service—"Cavalry, Artillery, Engineers. Infantry, branch of the service—"Cavalry, Artillery, Engineers. Infantry, and Military College, etc. Showing such a thorough knowned to the service—"Cavalry, Artillery, Engineers. Infantry, Royal Military College, etc. Showing such a thorough knowned to the service—"Cavalry, Artillery, Engineers. Infantry, the departure from among us, and that his valuable services should be lost to Canada.

He commences his report by pointing out the fact that the militia has, during the past kw years, been reduced from an effective total of 43,000 men by reductions in the military vote, unt. I last year only 19,780 men could be called out and these for only 12 days, a period it will be readily admitted is "too short for much good result." He remarks on the necessity for extended to the good result." He readily admitted is "too short for much good result." He remarks on the necessity for extended to the good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." He readily admitted is "too short for much good result." The received much he results and there is no "royal road to he sampag," drill, discipline and military duty, any more than there is no leave the f

make a soldier.

The city corps of Quebe are commended for their services during the root last year, a subject which calls forth the following remarks:

"I must repeat, I think it unfair, and expecting too much self-size action, to call out militia who are discussed in the same city of war as professionals, and not merely as amateurs. The very best increased in the control of the property drilled and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and disciplined, and for this here is great need of the halippot able and the political political and the political political and disciplined and the political and the political politica

"My previous suggestions were to form three separate schools, composed of about one hundred men each, and to station them at Toronto for Western Canada, and because there is a good barrack there; at St John's, P Q., because it is an important stategical point in advance of Monteau, and because there is a good barrack there; at Quebec, because that etty requires an additional drilled force, and because there is a burrack there.

quiring 13 men per diem, besides cooks, orderlies, sick in hospital and their attendants, prisoners and men to attend them, &c., t.e., there would not over be more, and seldom so many of the 75 men daily available for drill and instruction, and squads for how long and short course officers and men

where "one's eye is arrested at every few paces by dilapida-tions," to see the necessity there exists for something being done. The amount of money that would be saved annually from that now expended would more than pay twice the number of men proposed. These men would be under military seen standing idle, or leaning on a shovel for half an hour at a time talking politics, as is very often the case under the pretime have prevented a whole wall from falling out before the subsequent autumn, and the earting away of the stones by pri-

Reference is made to the able essay written by Major J. G. Holmes, "A" Buttory, Royal School of Gunnery, for the prize offered by the D. A. A., and also to a lecture on the "Military Aspect of Canada," delivered by Lt. Col. Strange. R.A., I. of A., before the Royal United Service Institution, London. The latter is published in appendix No. 7 of the report, as also his report on the defence of British Columbia, and Lt.-Col-Scoble, Toronto Engineers, submits a proposal for constructing the fortifications that may be required in British Columbia, by his own company of Volunteer Engineers.

The Royal Military College is ment oned in complimentary erms. This is an institution of which every Canadian ought be proud. It is, we believe, the foundation of a regular unadian force. What is expected of the cadets will be seen rom the following sentence:-

"Should the nucleus of permanent corps be adopted, these young nen will be foremost as disciplinarians and instructors; their right class education will render them valuable in any position of antitury or civil life; they will presen an admirable tone to their arroundings as cultivated examples of order and respect for autority.

We feel satisfied that the career of those gentlemen who nter Her Majesty's regular army will be watched with intert, and when they, following up their motto, "Truth, duty, alor," r ceive distinction, as they must do, every Canadian will onsider it an honor to himself.

The instruction of the cadets and others in the use of the rpedo for sub-marine mining is suggested, in this connection re would refer our readers to an article in our first number.

The old evil of volunceers training in different corps occuics a page of the report. It is to be regretted that the Genral should feel it necessary to point out that

"It is distinctly the duty of every officer of the militia, whatever may be his rank or degree, to guard against fraud or misapportation of Government funds, from any cause wisatever. I el sure it only requires this duty to be pointed out in order to-nilst the co-operation of all stan, and regimental officers in yindicating the laws essential for their guidance in the proper adminstration of the militia service."

To be continue 1.

Mamilton Field Battery."

Ce., there would not ever be more, and seldom so many of the 75 to 5, men daily available for drill and in struction, and squads for the Dong and short course officers and men

'Moreover, Quebec requires a large disposable force of drilled troops to strady the city milltin in case of robs, and to guard the costis and valuable military sources and powder magazines in the costis and valuable military sources and powder magazines in the costis and valuable military sources and powder magazines in the costis and valuable military sources and powder magazines in the cost of the force should be an addition to cach mattery of 12 horses, to train in equitation the cavairy attending the schools, and to horse all four field guns instead of only two, as at present, with eight horses.

"The addition of 12 provides for mounting the four Nos 1 of each gun, without which the battery is not efficient.

"At Kingston these horses would likewise serve for the equitations of the gad-dr of the Rayal Military Gollege. They have been frequently applied for by the commandant, and without them the explicate each saying soft of the field. When the surface of the bry was useless, and the first of the field of the practice on the received subjects of the field of the practice on the received subjects of the field of the practice of the bry was useless, and the first of the field of the practice of the bry was useless, and that in the course of a week or so arrangements would be made in the surface of the bry was useless, and that in the course of a week or so arrangements would be made to enable the practice to be performed in the neighborhood. It would, therefore, therefore, their daily forage would be an insignificant amount of the mirth or at the Bench, or some where else it is almost important or the practice of the practice of the surface of the shell practice of the practice of the practice of the surface of the shell practice of the mirth or at the field practice of the mirth or at the field practice of the practice of the practice

Colonial Defence.

Broud Arrow, February 7th, 1880,

In a recent issue of the Broad Arrow we called attention to discipline, and would be liable to punishment for idleness. It the necessity for establishing a naval arsenal and increasing our ronelad fleet in the Pacific. We then pointed out the vast extent of British interests in that part of the world, and showed sent system, a day's working pay stopped would soon cure that in what way they are exposed to the attacks of other naval complaint. The "stitch in time" principle could be resorted Powers, especially of Russia. With the exception of Esquinalt to—the pointing of masonry during autumn would many a on the cast.rn, and Hong Kong together with Singapore on the western, boundar'es of that vast oc an, we have no coaling station for our fleet, nor have we any place where ships of war can be docked, repaired, and refitted. At Esquimalt there is no dock at all, nor is there, we believe accommodation for a ship of war at Singapore, while at Hong Kong the only dock fit to receive an ironelad is private property. The extent to which our naval and colonial possessions in that part of the world are exposed to the attacks of a Power able to concentrate a superior force to that which we have hitherto ma ntained in the Pacific is therefore sufficiently obvious, and it is gratifying to find that the Government has become alive to the necessity of fortifying the existing stations and adding to their coaling and repairing capabilities. At the same time we trust that steps will soon be taken to increase our naval force at a quarter where a counter demonstration would, under certain conditions, be both probable and possible. It has only been of late years that either Singapore, Hong Kong, Point de Galles, St. Helena, the Cape, or tle Falkland Islands have been put into anything like a state of defence, and even now the fortifications are not of a substant al and permanent character. The fact is that our Navy las hardly kept pace in numbers with the growth of our colonial possessions and commerce. On the contrary, the tendency of lat years has been to build fewer and more powerful ships, so that where we once kept three ships to do a certain service we now have only one. We are, in fact, in the position of people who have coined large pieces of money, but have failed to issue picces of small value. Although the value in circulation may have actually been increased, there is nevertheless a difficulty experienced in off-eting the leaser commercial transactions. The money expended yearly in shipbuilding has certainly not diminished since ironelads were introduced, but yet we find ourselves with fewer ships than before, and, practically, with none at all of the size which is necessary for the proper defence of our distant possessions.

We are now brought face to face with facts of a very serious character. Upon several occasions during late years we have pointed out the necessity of providing for the defence of our distant possessions and colonies. Just two years ago we were encouraged to believe that the Ind'a Office was about to take steps to supplement the protection afforded to the Indian coatts by the East India Squadron. Since the abolition of the Indian

Navy, rather more than twenty years ago, the coast defence of Torpedo Corps and Naval Brigade organised at Sydney, the that vast possession has been entrusted to about a dozen small Militia in New Zealand, and the Volunteers in Tasmania, i vessels of the Imperial Navy. At the present time our East shows us that the colonists are determined to be, in some Indian Squadron consists of an old wooden frigate, two measure at least, independent of the mother country so far a corvettes, and eight sloops. With the exception of the local defence is concerned. two small ironelad turret-ships Magdala and Abyssinia at Bombay, these are all the vessels we have to defend it is not sufficient to be influenced by a proper spirit in devising the shores of India from the Indus to the Ganges. In 1868 an efficient defensive scheme. Sir Julius Vogel-the Agent-Ge the Indian Government made a start in the direction of reconstituting an Indian Navy. They ordered the two turnet-ships—alsible of the weakness of isolated action." This, too, is fortunated ready referred to - of two private builders on the Thames, and for it is necessary to recognize a weakness before attempting t received them at Bombay early in 1871. Since then nothing remedy it. For each colony to defend itself upon an indepen further has been done in that direction except laying down dent system would be a two-fold mistake. It would retorpedoes at different parts of the coast, and instructing a small the more difficult for the mother country to staff in the details of torpedo warfare. It was at the close of bute her quota of aid, and at the same time it would inter 1877 that the India Office decided upon the torpedoes, and at fere with securing an effective combination, besides adding to that time the Broad Arrow pointed out that something more the collective cost of maintenance. A properly organise than this simple precaution was necessary in order to ensure system of colonial defence must, so far as our Australasian col ample protection to our Indian harbours. It was urged that onics are concerned, be a collective one. It is much to be n it is the duty of the Government to continue in the direction gretted that it should be left until this day for such an import which they took in 1868. About ten more such vessels as the ant question to be considered and decided upon. It is, how Magdela and Abyssinia, supplemented with an efficient torpe- ever, satisfactory to learn, upon so high an authority as Sir J do force on shore, would render the coasts of India safe against Vogel, that the colonists know it to be impossible to obtain a for the attack of any naval force which would find its way to that midable combination under any other supremacy than that of part of the world. For defensive purposes, or indeed any the mother country. But under any circumstances it will be other than that of mere ornament, our East Indian Squadron difficult question to decide upon the relative share of cost to be

Mr. Brassey, who has long since come to the front as a strewd and far-seeing seaman and legislator, has recently made a Admiralty, proposes that each member of the confederation speech on the subject of colonial defence. His appointment as should contribute towards the national fleet in proportion to the one of the Royal Commissioners to report on the means avail-volume of their exports. Whether or not this proposal would able and required for the defence of the colonies is a sufficient prove equitable we are unable to say, but we fully agree we claim for a careful attent on being given to whatever proceeds Mr. Brassey in believing that the whole subject must soon from Mr. Brassey on this important question. As the mem-taken into carnest consideration and settled. That the color ber for Hastings very truly stated, "England without her col-"onial and foreign possessions would fall to the second rank in sist towards its speedy solution—for by so doing they have "the tamily of nations." In showing how much our com- shown that they realise the dangers of the present situation merce depended upon the extent of our colonies, he mentioned that in the nine years from 1869 to 1878 our colonial trade had grown from 25.3 to 35.4 per cent. of our total commerce, and that, too, while our exports to foreign countries had diminished in value. our Canadan, Austral'an. New Zealand, and Tasmanian dependences, also the ad antages we derive both on account of breech-loading rifle guns, on the system invented by Sir W the large consumption of our manufactures, the food supply Lam Palliser, and for the conversion of ten 32 pr. smooth be they yield us in -turn, and the employment they give to our guns to 64 pr. rifles, also on the Palliser system. The latt surplus population, Mr. Brassey wisely remarked that "this guns are to be increased in length by allowing the wrought in noble confederation should not be broken up for the sake of a tube to project 13 inches beyond the original muzzle—a su "paltry reduction in the Navy or the Army Estimates."

Nevertheless, Mr. Brassey is not of opinion that the whole or even the greater part of the cost involved in creating an efficient verted in England. It was shown by the proof last year the system of colonial defence should be borne by the Imperial Extra converted gun would admit of a great increase in the quachequer. Nor does it appear that the colonists generally desire tity of powder laid down at present as the service charge. The that they should be wholly relieved from the burden of main-lengthening of the bore will admit of the entire ignition of t to ming their local defences. At the same time that the Indian increased charge, which will, in turn, impart a much high Government were constructing the Magdalit and Abyssinia for muzzle velocity to the projectile and overcome, to a great the defence of Bombay the Government of Victoria were having tent, a disadvantage in rifled guns when firing case shot a set r ship, the Cerbergs, built for the defence of Melbourne, shrapnel shell. The increased velocity will also secure Mr. Brassey informs us that at Adelaide, the principal port of creased penetration and greater accuracy of fire.

South Australia, a turret-ship is spoken of, and that Melbourne The contract for the conversion of 10 of the smooth be has a small navy. He is in error in supposing that Sydney guns in possession of the Government is a step in the ri las a turret-ship, but it is possible that, lke Melbourne direction, which we trust will be followed up until all the and Adelaide, the port of New South Wales may determine to guns are converted into rifles. It will be a valuable additional to the converted into rifles. possess itself of an independent means of defence. But what to our means of defence, and will also create an esprit in o ever has yet been done in this direction by our antipodean garrison artillery force, which is now languishing for want cousins is only a nucleus about which to range future results. Judging by Mr. Brassey's figures these naval developments are met far off. He tells us that it has been decided by the Governor-General devoted a portion of his short stay in Montre Governments of Victoria and New South Wales to expend each en route from Halifax to the capital, to paying a visit to ta sum of £350,000, besides an annual outlay of £73,000, in foundry of the Messrs. Gilbert, which is to us a strong proof providing a force of ships, guns and torpedoes. This looks like the interest taken by His Excellency in matters connect business, and when viewed in connection with the Artillery with the defence of the country.

Such a spirit of independence is much to be commended; but It would render i borne by the different members of the British Confederation Mr. Barnaby, C.B., the Director of Naval Construction at th prove equitable we are unable to say, but we fully agree w' ists have taken the initiative in the question will materially a

· Conversion of Smooth Bore Gans.

Since our last issue a contract has, we believe, been entered After showing the extent, value, and rate of into by the Government with Messrs. Glbvrt & Sons, Canad Austral'an. New Zealand, and Tasmanian de Engine Works, Montreal, for the manufacture of two 7 in gest on of Lt.-Col. Strange, R.A., Inspector of Artillery. will be found to be an important improvement on those of

encouragement.

We learn from the Montreal journals that His Excellency t

We hope the subjoined description of the mode of conversion lowed to exceed 0.007 inch for a length of 24 inches from the ili prove intéresting to our readers.

The operation, which, in a few words, consists in enlarging he interior or bor of a cast-iron gun, and inserting a rifled rought iron barrel of such dimensions as to admit of its being usily placed in position, and yet, on being fired from, capable expanding so as to be tightly gripped by the cast-iron easing, as follows :—

The barrel is formed of three parts, the "A" tube, "B" abe and "cup" for closing the breegh end.

The " Λ " tube extends the whole length of the barrel, and s composed of a number of "colls" of wrought iron welded toether,—each coil being made from a bar of wrought-iron, lightly trapezoidal in section. The bar from which the coil to be made is put into a long furnace and heated sufficiently fround. o admit of its being wound round an iron mandril placed in ront of the mouth. The coiling is effected by attaching the nd of the bar to the mandril, which is made to revolve on earings, by this means the bar is gradually drawn from the arnace until the whole is coiled. The shape of the bar neuralises the effect of this process, which is to spread the interior nd narrow the exterior. When the bar is coiled, the pin con-

The cast iron gun which is to be converted by having the harrel formed as above, inserted in it, is examined as to condition of metal generally, and, if found suitable, the interior is bored out to the size necessary for the barrel, -which varies with different natures,—the play between tube and easing is not al-

breech, and 0.015 inch for the remainder of the length. The muzzle is recessed and threaded for a cast iron collar, which is screwed in after the tube has been inserted, and keeps it in position, (prevents it becoming telescopie). A small hole (gas escape previously alluded to) is then drilled in the breech at the right top of the cascable, when the parts are ready for being put together. To insert the barrel in the cast iron gun, the bearing surfaces of each are well oiled, -if the gun is placed at an angle, and the end of the tube inserted, it will be found to move into its place with very slight pressure,—the gas channel allowing the wind in the casing to escape. When the tube is m position, the collar is screwed in the muzzle, and a hole drilled and tapped about half-way between breech and muzzle, into which a screw is placed to prevent the barrel turning

The gun is then vented and rifled—the latter can be done before the tube is put in the easing if more convenient-when the gun is ready for proof.

Canadian Armaments.

From the United Service Gazette, February 14.

raises the effect of this process, which is to spread the interior and narrow the exterior. When the bar is so siled, the pin content to the mandri! is removed, and the whole (mandri) and the mandri is removed, and the whole (mandri) and the mandri is removed and the whole (mandri) and the mandri is removed and the work of the mandri is removed, and the mandri is removed and there are strong to the theoretism work of Cappain volomb, but issued from a sledge luminar. The mandri is lightly tapered to facilitate the operation of the content of the mandri is removed and thereously wedded under the coil is then re-heated and thoroughly wedded under a fear-hammer. After a sufficient numbry of co.ls are than formed, the ends of each are faced smooth, and joints formed, raise and the mandri is the

The Annual Meeting of the Bominion Artillery Association, will be held at Ottawa, on the 4th March.

Correspondence.

SIR.

I take the liberty of sending you a rough sketch of an idea of mine for carrying a carbine or rifle when mounted . it has, or is about to be adopted in this force. Fifty men are armed with the Winchelsea carbine, which is, in my opinion, a first-rate arm, but requires particular care. It is too long to be carried in the long bucket, and has been carried by us strapped across the pommel of the saddle, but has been found very inconvenient when drilling, the men often being dismounted by the carbine of their right hand neighbor, and their horses become restive through being poked by the same, and another ebjection to their being carried in that manner is if a man is thrown and the horse gets away he leaves the man without a rifle, and again a sword cannot be used.

What caused me to take the affair into consideration was the unusual amount of repairs I had to perform, principally blunted fore-sights and broken stocks, the last always occured when a horse fell.

By taking the ring off the hook (when dismounted), and lifting the butt out of the bucket (when mounted), the carbine becomes entirely free to use without undoing snap.

REFERENCE TO DIAGRAM.

A Leather covered D fixed so as to stand apright for muzzle of carbine to go through.

B Stiff leather bucket attached to saddle for butt of carbine-about three inches deep.

1. D. as shown in A.

2. Round leather strap attached to belt by both ends.

3. Ring to run on strap.

4. Round strap with rings and snap, the rings are to shorter strap when dismounted.

5. German snap.

6. Ring on carbine for snap.

7. Bucket.

T. II. DUNNE, Armorer, N.W.M.P.

Fort Walsh, N.W.T., January. 9, 1880.

[The plan is an admirable one, a modification of a method in use by hunters in Ind'a and Africa. This, I ke all other plans, is liable to the object on of injury to the rider in case of tie fall of horse or man, or both, but less so than others. A horse falling backwards would, perhaps, be the only really dan gerous fall, with the carbine in the position proposed. The inventor deserves great credit.—ED. C. M. R.]

Regimental News.

" A " and " B " Batterics Schools of Gunnery.—Her Majesty has teen pleased to signify her approval of the Schools of Gunnery as King ton and Quebec, composed of the two permanent Batteries of Artillery at those stations, being in future designated "Royal Echools of Gunnery."

Quebec Field Battery — Charles Percy Dean Esq., G.S., formerly Lieut. 1st Lanurk militin, and Edwd Burroughs Garneau Esq., have been gazetted 1st and 2nd Lieuts respectively.

No 11 Rattery New Brunswick Bde Gar. Arty.-Wm. Alex. Isoug's Steven, Esq., has been appointed 2nd Lieut. ist Battalion "Prince of Wales," Montreal.—Albon Forgus Clerk, E. q., has been appointed 2nd Lieut.

2nd Regiment, Oak Ridges.—Lieutenants Kenneth A. Miller, Jeury Mill Pellatt and Villiers Sankey have been granted second class certificates.

10th "Presectt" Rattallon—Major and Lieut.-Col. Archibald McLoan, has been appointed Lieut.-Colonel vice Angus Urquhart, who has been permitted to retire retaining rank.

2'nd Battalion "Oxford Riffes."—Lieut. Matthew Day has been gazetted Captain vice Munro, appointed Adjutant.

3th "Ontario" Battalion, Whitby Lieutenant C A. Patirson has obtained a second class certificate at the Ontario School of Milltary Instruction.

61th Partalion "Voltigeurs de Beauharneis."—André Leduc Esq., las been appointed Lieutenant, and Octave Daoust, Esq., 2nd Lieut, in this Battalion.

atth Battalion "Mount Royal Rifles,"—Lieut, Louis Ettienne Napoleon Pratte has been gazeited Captain of No. 2 Company, vice du Piessis, resigned; 2nd Lieut, Henri E. Morin has resigned his commission in No. 3? Jampany; Lieut, Joseph Oller Chalut has been gazeited Captain of No. 4 Company.

76th Battalion "Voltigeurs de Chateauguny,"—Ellas Gagnic gent., has been gazetted Lieutenant in No. 2 Company, Ste. Ma inc, and Antoine Mallotte, gent., Lieutenant in No. 4 Company "Interuguay.

nateaugusy.
70th "Shefbod" Battalion —The undermentioned officers as ion-commissioned officers have been granted 2nd class certificate from the School of Military Instruction, viz: captains John Miready, Brown, and Richard Edward Boll, Lieutonants Arthur J. Whitehead and William K. Knowlton, 2nd Lieutenants Sylveste Martin, Horatio Nelson Whiteomb and Alvons John Brown ergeants lienry Lyman Brooks, William J. A. Galbratth an Tharles John McGrail.

New Brunswick Militia.

SOME SUGGESTIONS ON THE ARTILLERY ARM.

To the Editor of the CANADIAN MILITARY REVIEW.

Through the atmosphere, breathed in military circles, float significant rumors, that, as soon as Parliament meets, the permanent stablishment of those two batteries of artillery, which keep water the welfare of our land, will be considerably augmented. No doubt, this act is a great desideratum, as the large sum spen annually by the Public Works Department, to keep in repair the faluable and important fortifications, garrisoned by our activalistic and by "soldier artificers," on the system adopted by the day of Engineers at home. However, as long as public money is the expended in improving our militia service there is a point of ital importance to New Bruuswick which is worth while considering.

arried out by "soldier artifleers," on the system adopted by the toyal Engineers at home. However, as long as public monoy is it to the expended in improving our militin service there is a point of that importance to Now Brunswick which is worth while consistent importance to Now Brunswick which is worth while consistent in importance to Now Brunswick which is worth while consistent in importance to Now Brunswick which is worth while consistent in the consistent of the consistence of the consistence

A MEMBER OF N. B. B. G. A.

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