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The Volunteer Review

MILITARY AND NAVAL GAZETTE.

Journal Deboted to the Interests of the Military and Aubal Forces of the Dominion of Canada

VOL. VI.

OTTAWA, (CANADA,) MONDAY, DECEMBER 9, 1872.

NEWS OF THE WEEK.

From Great Britain we learn that all the stokers employed by four or five of the largest gas companies in the city of London have struck work, ostensibly because two of their number were unjustly discharged. The directors of the companies warn the public to use as little gas as possible till the trouble is ended.

The steamship "Dalmatian" from Liver-pool for the Mediterranean, has been wreck ed, and 35 of the passengers and crew were

An orderly meeting was held in Hyde Park on the 1st inst. Messrs. Odger and Bradlaugh were the principal speakers. A resolution condemning the public Park regulation Bill was adopted, and a petition drawn up asking for the resignation of Com missioner Ayrton.

It would appear to be the last effort of servile felly to allow all the vagabonds and loafers of a city like London, to distract the public peace at the call of every scheming cobbler like Odger. The time is not long since the law of England was that no legal public meeting could be called. except by a magistrate or sheriff, on the requisition of a certain number of rate payers. Now every ruffian can marshal his host of blackguards, Now every and English journals will announce the fact that an orderly meeting has been held, with one of the Tooley Street Tailors in the chair. Said meeting limiting its modest desires to the resignation of a Minister of the Crown. The Whig Radicals are fast bringing London and its blackguards, the latter especially, to represent England, as their friends have brought Paris to represent France, and with pretty much the same results.

The gas works in the town of Newport, Monmouthshire, exploded last night with terrible effect. Several persons were interrible effect. stantly killed and a large number injured some fatally.

The steamship "Cresswell" from Falmouth to Cork, was lost during the voyage, and 21 passengers and crew perished.

Five hundred of the stokers employed in the London Gas Company, who are now on strike, have been summoned to appear before the Police Court under the Masters and Scryants' Act. The summons' of several of the strikers charge them with conspiracy. The companies show no disposition to concede the demand of the strikers, and the latter announce that they are determined not to resume work until their companions. Interior, to fill the vacancy caused by the are taken back. Meanwhile the absence resignation of M. Lofranc The Republique

of gas is severely felt throughout Lon-don. Last night the city was in a state of partial darkness, and several of the theatres were compelled to omit their per-

A despatch from Madrid says a Royal decree fixes the emission of a new loan, to the amount of 250,00,000 pesetal, for the The announcement was made in this city to-day that subscription books for a Spanish loan of £10,000,000 will be opened in t' > London market, on the 12th

A despatch from Bayonne, in the department of Basses Pyrenees, says 250 Carlists entered Spain from France yesterday.

President Thiers has sent a despatch to King Amadeus of Spain, congratulating him upon his convalescence.

There is much excitement in Malaga over apprehensions of a Carlist demonstration in that city. Many families are leaving and troops are being quartered in the custom house and cathedral.

It is reported that Count Von Longay, Mnister of Finance of the Austrian Empire, has tendered his resignation, which has been accepted. The other musters remain in the cabinet.

The Crystal Palace will soon be lighted by gas manufactured from petroleum.

Abstracts of President Grant's mes-Abstracts of Frestlent Grant's message are published in the morning papers.
The Times says it will be read with interest,
although so largely devoted to domessic
affairs. The Daily News hopes General
Grant's attention will hereafter be more
occupied with the reform of the civil service than with the acquisition of San Domingo. The News thinks the people of the United States are ready for a new departure in the administration of their affairs, and the present session of Congress will be especially interesting to those who watch for indications of the comming porty of pro-

The determination of M. Thers and his Cabinet to remain in the Government has served to dispel grave feelings of uncertainty which followed the action of the Assembly on Saturday last. All parties are awaiting the organization of the Committee of Thirty, appointed by the Assembly to draw up a law regulating public powers, and prescribing the conditions of Ministerial responsibility, as provided for in the resolution of Minister Dufaure, adopted on Friday last.

M. Picard is montioned for Minister of the

Francaise newspaper says that in the event of the defeat, on organization, of the committee nuder M. Dufaure's motion on l'hursday, it is possible that M. Thiers and has supporters will withdraw from the Assembly. The Assembly will divide into two great parties, the Left and the Right, for the election on Thursday of the Committee of thirty proposed by Minister Dufaure. The Ministry of the Interior was tendered to Dufaure, but he declined it.

It is expected the committee of Thirty to be elected by the Assembly to morrow, and whose duty is will be to draw up a law re gulating public powers and prescribing the conditions of the Ministerial responsibility will consist of sixteen Monarchists and four teen Republicans. The party of the Right had rejected a proposition for even a rene-wal of the Assembly by an appeal to the was of the Assembly by an appeal to the people. A meeting of the party of the Leavens held to day at which after a powerful speech by M. Cambetta in advocacy of the dissolution of the Assembly measures to that and were absolutely inside? end were absolutely insisted on.

The Government situation at Versailles unsettles business of all kinds throughout the country. The committee of Thirty. formed on 6th by the Assembly, is regarded as hostile to the Republic. The Republican journals of Paris declare that the Assembly does not represent the will of France, and demand its immediate dissolution. President Thiers is expected to resign. The Govern-Thiers is expected to resign. ment will probably make a statement at the session of the Assembly to-day, as to the course it intends to take.

The tombs of General's Cavagnac and Baudin, in the Montmartre Cemetery, were decorated yesterday, in the present of 300 persons. The demonstration was quietly conducted, and there was no interference on the part of the police.

The steamer which arrived at Hayannan yesterday from Spain brought 200 sailorr in plicated in the Ferrol revol revolt.

The steamer Fatchery has arrived with 1,000 coolies who were sold previous to the arrival of the steamer.

The Reho newspaper, published in Sanct. Esparatis announces the arrival there of ten bloodhounds, to be used in capturing nonegroes still remaining in the mountains near that city. The hounds were purchased by order of the Commanding Ge..

It is runoured that Namyk Lacha, who nho was governor of Djeddah at the time of the massion of 1859, will probably be apinted Grand Vizer of Turkey

THE AUTUMN MANOEUVRES.

THE SCENE OF OPERATIONS. (From the Broad Arrow, Sept, 7. (Continued from Page 531.) MONDAY SEPT. 2ND.

Northern Army.-The rain caused such general discomfort on Saturday and Sunday, did not cease until late this afternoon, by which time the camping ground of both di visions had become moist and sloppy to a most disagreeable extent, and in places the roads were little better than mud ponds. The cavalry of the 4th Division had a rough time of it, the 19th Hussars having to shift their quarters twice in consequence of the sloppy nature of the ground. A dry night, and the warm sun today considerably improved matters, and it was generally thought that today would have been one of entire rest, and that it would be devoted to bur nishing up and putting things in order after the murch from Aldershot. Both Sir Chas., Staveley and Lord Mark Kerr were, how ever, anxious to be certain how their brigadiers could handle the Militia and Volun teer regiments which joined their commands on Siturday; and consequently, at about nine o'clock Staveley had his division in full march for Pewsey Ilill, Marshall's cavalry were first away, and after cresting the hill. turned off to the left for the enemy, who were supposed to be advancing from that direction. We saw here some very pretty manouvring te'so place, and it was surpris ing to notice the ease with which the heavy brigade was handled, and the promptness and precision with which they performed their duty. In the infantry camp, although Erskine was the first to get his men in niction, owing to the larger distance they had to march, Anderson's Brigade was the first in position. It was very picturesque to see his column advance up the hill, the red jickets in front and rear, and the dark uniform of the 2nd Battalion of Volunteers in the centre. On arriving on the plateau, General Parke's brigade took ground to the right, Anderson's Brigado was posted in the centre, and Erskine's on the left. General Staveley then directed several brigade move ments to be performed, and while this was going on sent a battery of artillery well to the front and just in rear of the further ridge of Pewsey Hill. In the meantime the Guerds discovered their epponents some where near Verley, and soon the battery of Horse Artillery they had with them opened on the enemy's right. The Guards were thrown well forward, but their advance was soon driven in, and although the main body retained its ground for a considerable time, it was ultimately compelled to retire under cover of Ecskine's Brigade who still formed the extreme left. At this juncture, the 90th was deployed in open order, and received the order to advance. No. 2 and 3 Companies extended as skirmishers, rushed thirty paces to the front, and were supposed to deliver their fire. These were followed by Nos. 2, 4, and 6 Companies in this order supported by the two remaining regiments of the brig de. They advanced over the brow of the first hill, but their left was for a few seconds thrown into disorder, owing to two companies having to a vance in file on either side of a turnip field, the crop being regarded as too expensive to be trodden upon by a skirmish line. The supports, in consequence of this obstruction, had also to work their way further to the left than would be actually prudent in real warfare. . On reforming, the 90th, working their way

steadily up the hill, got upon the enemy's left, and compelled a change of front to the right. General Parke's Brigade was thrown forward in force, and the guns on our right opening, our opponents were compelled to The movement was one of a very simple character, and it might be easily butderstood by the officers and privates of the Militia and Volunteer regiments engaged against the imaginary foe. Anderson's brigado which was kept in reserve, and to which the volunteers are attached, had an excel lent opportunity of seeing what was going on in front, and great pains were taken to in struct the men in the indure of the move The 2nd Staffordshire Militia were handled very cleverly by their noble colonel and while everyone was pleased with the ex-cellent manner in which the Royal Aberdeenshire men performed every movement they were called upon to execute, there was so much confusion cau. by officers repeating in a loud and noisy manner the leading word of command, that Brigadier Ersking had in a very summary manner to check it. With regard to the Volunteer battalions present, as they were kept in ro serve, no opportunity was afforded them of displaying their good qualities. After the engagement Anderson's Brigade marched past General Staveloy, and the style in tripich the 2nd Battalion of Volunteers (the Post Officers) swept by the saluting post was much admired by the staff, and won a very justly deserved word of praise from Sir Charles The professional translation in the saluting translation. Churles. The remaining two brigades, before they were taken off the ground, march. ed past their respective brigadiers.

Hardly had the 3rd Division reached camp, when cannon, herd, in the direction of Upavon, told us that Lord Mark Kerr had his division out. Both carairy and infantry were knocked about a good deal, but as the operations were merely intended to get the brigade commanders accustomed to their commands, the maniouving was not of a very complicated description.

Southern Army.—The presence of the Prince of Wales at Mr. Sturys, only a few miles from Blandford, added to the attractions of the Camp, and the show of troops, would seem to have made the people boil over with enthusiasm. Blandford Downs to day resembles B-ighton Downs on the occusion of a review. The spectators began to assemble before nine o'clock, and at one o'clock when the murch past occurred, the ranks of horseman and carriages near the saluting base were eight or ten deep, and from this point the lines of spectators ex tended for more than a mile in either direction. The military authorities, inspired, no doubt by the Duke of Cambridge, were equal to the occasion; they quite underst od the national sentiment, and fell in with it. This was no occasion for deep laid plans of operations, for nice calculations of distance and the marching powers of troops, for hiding lines of skirmishers and whole regiments of cavalry four deep in ditches. What was wanted was the British uniform and plenty of it, combined with the presence in health and happiness of the heir to the Throne. These sights seen, and a little gunpowder burnt into the bargain, Blandford will feel itself more than repaid for what must have been the extreme disturbance of its social, commercial, and agricultural sys tem caused by the presence this year, of an army of occupation. The general orders is such in reference to toddy's movements pro vided that the force should turn out as immerously as possible. The troops were to
parade not later than nine o'clock, and to
be in the positions assigned to them by half

past ten, the Duke of Cambridge with his stall, arriving shortly before eleven. An enemy in outline was constructed from the 12th Lancers, one of the strongest and smartest of the cavalry regiments in camp, and the yhole of the engineers in the corps of Col. Herbert O. B. Six gurawerg placed at the disposal of this force, and each of them was to be considered equivalent to a battery. The whole of the army with these exceptions, was constituted a rival and attacking force, coming from the direction of Cranborne, and marching upon the Ricecourse Down which covers the town of Bland-ford. The let Division (Sir Al Horsford's) was posted on the right, nearest to the Sa lisbury Road, the left (General Brownriggs) across the Valley of the Tarrent, which lends its name to several hamlets along its course—as, for instance—Tarrant Monkton. Tarrant Uinton, Tarrant Gunnville. The movements of today mainly consisted in a forward movement of the left flank, so as to turn the enemy's right, and drive and brok on the Rusecourse Down. The skimishing on both sides was for a time well sustained, the widely idattered Lancors and Suppera working together, so as to produce an appearance of considerable strength; but there was an amount of cultivated ground which it was necessary to traverse, and numbers of spectators accompanied such regiments as the unpires could be called upon to criticise, so after about in hour and a half's marching, skirmishing, and 'distint artillery duelling, the order to "cease firing," was sounded by orden of the lieutenant general communiting, thereupon the various regiments drow together provious to the march past, and the enemy, relinquishing their character of a separate army, dispersed into their natural places in the bsl-

The march past was really a brilliant spectacle: The old Blandford Ruccourse, now disused, lies along the crest of a perfeat circular ridge of turf, two or three times the length of the Epspir Lucesourse, with a deep sloping valley in the midst. Within this hollow the whole of the Southern unny wishirmed, by regiments and brigades, the lines of opectators occupying the highest ground on the ridge; and from this, in all directions, a wide, swelling panorame ex-tended of hill and valley, of open, rolling downs, with patence of pullivation here and there, and on the summits of many of the hills thick bush like woods and plantations. There was little tempiation, however for the eye to wander over the landscape. It was fluta guitettus fina ognil oilt no nothie bexil which surrounded the Prince of Wales, or else on the unexpect life and colour which were approaching the Commander in Chief. One march past is so like another, that the attempts to describe what has been seen on any of these uccesions reads like a page from some very old book, and yet the scene is one which is always animately al ways fresh and hill on interest, speciators stand and horselish a tentranced by the speciacle, and nover think of moving however long the procession endures, until the last man his passed the fligstall. It was so today. The least demonstrative of the foreigners upon the ground, and there were many, could not help eatthing at the sleeve of his neighbor, and exchanging glances at the beduty of the horses, the perfection of equipments, the untchless no during of the drill—in 1 word, the sense of

of some of the lighter horses, marched and halted admirably, the Carbineers and 12th Lancers especially. The Guards mov-ing in grand divisions produced an effect which is altegather different from that of any other infinitry regiment, and they were as much admired today as ever, though they had only their own files, drums, and buggines to march to. Of the remainder of the force it is sufficient to say that they looked and bore themselves as English regiments are accustomed to do when upon their mettle. One could have wished very much that several of the regiments, cavalry and infantry, had fuller ranks, and the disproportion in this respect with the Militia regiments is very marked. More than, one of these bodies of Militia, if one had known positively to the contrary, might easily have been mistaken for regiments of the Line, and finally the Volunteer Corps, atthough so recently arrived, bone the test admirably and won golden opinions. The only matter of regret in connection with the southern army, is that it is not stronger, num-riedly, As to the milterial of winch it is composed, no one having seen it can entertain a doubt as to its guiling. , His Royal Highness the Prince of Wales was present throughout the day, wearing, as he had done at Crichel on Siturity, the unders uniform of the 19th Hussers. In whitever part of the field be appeared he was loudly and could by cheered; and when the burners which had re-strained the specialies during the march past were loosened, and the full tide of humanity was allowed to spread itself over the Downs, popular currents set simultaneously from all quarters in the direction of the Prince. Upon turning his horse homewards some considerable time afterwards, he was still followed by a large and enthusiastic crowd anxiously evidently to impress upon His Royal Highness that personal goodwill and loyalty towards the Crown are felt in Devonshire, as in any other part of the Queen's Dominions.

TUESDAY, SETT, 3nd.

Northern Army.—To day his been completely an off day. Lord M. Kerr's Division were to have had a regular field-day, but about half past nine, just as the troops were forming up on par de, heavy rain set in, and the intention was therefore aban-done! It would indeed have been a great mistake to expose the troops to be again wetted to the skin just as they have recover ed from the effects of the continuous drenching of Siturday and Sunday. As it turned out, the manoeuvres might very well have taken place, for the min proved to be merely a heavy shower, and the rest of the day was extremely fine; but this could not have been foreseen. The uncertainty of yesterday, terminated in a march by the 3rd Division of three mile and a half to Upavon, where they encamped close to Maxwell's and Pakenham's Brigades of the 4th Division. The headquater staff also moved to Univon, which has in the Pewsey circuit, just as the camps three miles from Blandford are included in that circuit, and the orders of the commander in chief were that neither army was to advance beyond its houndaries, before tomorrow (Wednesday.) The cavalry of this army consider that an unfair advantage has been taken by the cayalry of the southern army. Colonel Biker's Hussars have been recommoning the whole county bround the River Wiley, and trying I its fords. The Control Department have wisely established a depot at Powey for sick horses, so that all animals with sore heels or other aliments can be left behind,

and rejoin their respective corps upon their return. The light cavalry have today, for the second day in succession, hid to eat salt meat instead of fresh. This is too bad, no one could gramble at such a thing hid it occurred during the lighting, when the corps were rapidly changing their positions, but there is no cause for it when the troops are remaining in what may be called a fixed camp, at their base at Pewsey. This ahnoy ance is accounted for by the advent of a new contractor. Notwithstanding this drawback, the camp was very gay all day, there having been several drill parades and a good deal of military music. In the afternoon the Volunteers, having gone through a careful drill, got up a game of cricket, with improvised buts and wickets made of the branches of trees.

Southern Army -Each of the divisions had a field day upon its own account, the troops commanded by the generals being divided, and being in each case, two brigades against one—its efficient force of cawilry and artillery, added to rediess the hillings of numbers. Sir A. Horsford's division went to Launceston Downs, and Gen. Browning to Mocton Common. A feature of movelry, isoreover, was given to the ope rations over the well known down by the fact that the fighting was attright angles to the positions latherto maintained and at-tacked. One division commenced opera tions at nine o clock, and theother at cleven. Both operations were conducted with great spirit and were probably the more satisfactory to the troops as well as to the comminders, from the fact that the generals were left in large measure to themselves, and were not hampered by any special in structions. The Duke of Cambridge seemed much pleased with the operations in each case, and the principal point to which he directed the attention of the officers at the close of the movements was the somewhat excessive expenditure of ammunition. He also thought that the skirmishers had not always been properly supported. The troops as they returned to camp seemed in excellent condition, and not the least dis-tressed by the field day in which they had taken part. The Volunteers especially, were making the lanes resound with song, and their only regret appears to be that, owing to the new regulations, they were not in the thick of the battle, and hence their opportunities of skirmishing and exchanging volleys with the enemy were comparatively limited. As regards the Volunteers, it would seem that their recent arrival has thrown additional duties upon the Control Department. In marches it has only been necessary to provide for regulars and Militia but now the baggage and requirements of the Volunteers have to be taken into account, and in the majority of cases they seem to have depended upon the authorities to do everything for them. The army of the south turns its back upon Blandford to morrow, and it will march by the roads known as the Higher and the Lower Shaftsbury Roads—the infantry not starting much before eight o'clock, the cavalry probably an hour or so earlier. Fontmell, the site of the first day's engagement, occupies a lofty position, and commands a view of several counties. In the character of its scenery it differs widely from anything the troops have hitherto seen, but as a mintary position it is one of the linest in England. Hosulities may now the troops have left Blandford there will be

Highness the Prince of Wales at Crichel, and it is therefore probable that he will move across in the course of the day to the quarters which have been prepared for him at Bemerton, near Salisbury.

(To be continued.)

RIFLE MATCHES.

Amherst Island, Nov. 25, 1872.

Sin.—I enclose you the score and list of Annual Shooting Match of No. 2 Com., 48th Battakon, V. M., if you would care to publish it. The match took place on the 28th of October, the day was fine but rather hazy. The Company turned out in full force, and enjoyed it thoroughly, they were dismissed for an hour at 1 o'clock, to partake of a sumptuous dinner provided by Mr. Cousins, Marksman's Hotel, and paid for by Capt. Patterson, as he has done every year since he became Captain of the Company.

NO. OF POINTS AND PRIZES OF NO. 4 O.M. 48TH

BATTALION.

- I BALLALION.		
		Tl
lo. 1, Wm, Glen, Riding Sidille, \$1	2 00	45
2, Sgt. R. Glen, set of China,	7 00	45
	0.00	41
4, Corp. J.Gibson, 4 doz. silver	4.00	••
	7.00	38
5, Pto. S.Speers, Pair Blankets	9.00	37
		36
6, J. Gibson, Cruit Stand	4.50	
7, R. Henderson, Bronze Lamp	5.00	36
8. S. McGin, Picture	5 00	34
9, Wm.Fleming 4 doz. of Chairs	4 50	34
	2 50	33
11, A. Stevenson, Patent Kid		
Gloves	1.50	31
12. J. Burns, Picture	4.00	31
13. J. Burns, 4 doz., knives and		
forks	2.50	30
14, Sgt. R. Filson, Whip	1.50	29
15, Corp. J. Brown, Pocket		
Knife.	1.50	26
16, Pto, R.Gibson, doz.spoons	1.00	24
17. Pte. R. Kirkpatrick, Set of	1.00	-1
	EΩ	00
Shirt Studs	50	22
18, Pte. J. Askin, Breast Pin.	25	20
19, Pte. J. Hill, prize for the	• • •	_
lowestscore	1.00	2
	24.435	
\$	30.25	

The French Prince Imperial was to join the British Royal Military Academy as a "Queen's Cadet" about the middle of this month, and to have for a companion the son

of Dr. Conneau, the Emperor's physici:n.
The Berlin correspondent of the London
Times writes that the Russian Government
has determined to construct a military port
in the Bay of Balaklava, the harbor of Sebastopol being set apart for merchantships.

bury Roads—the infantry not starting much before eight o'clock, the cavalry probably an hour or so earlier. Fontmell, the site of the first day's engagement, occupies a lofty position, and commands a view of several countes. In the character of its scenery it differs widely from anything the troops have hither to seen, but as a mintary position it is one of the linest in England. Hosulities may now be considered to have fairly broken out, and the armies will march with all the cauthon necessary in an enemy a country. After the roops have left Blandford there will be nothing any longer to detain His Royal

CORRESPONDENCE.

The Littler does not hold himself responsible for twickland expressions of opinion in communications addressed to the Volunteen Review.]

To the Editor of the Volunteer Review. Woodstock, Nov. 20, 1872

Dran Sm .- I should like to ask through the columns of the Raview, whether or not, it was over intended by the law, that a gentleman, holding a first class certificate from the Board of Examiners, could then enter the military school and obtain a second class cortificate and fifty dollars, when his first eles one awarded by the board embraces everything. If so, I say it is downright robbery to allow any person to do so, when he is already qualified, at least the Board says

Now Mr. Editor, a few lines in reference to who compose the Board, and what they know about drill. I believe the Law, confining it to the Deputy Adjutant General of Militia, Brigade Major of the division, and Lieutenant Colonel of the Regiment, whom the candidate belongs too, is all very well, providing those officers know their places, but. I am sorry to say, the colonels in our Province, with one or two exceptions, are woefully deficient in drill, in fact, New Brunswick can boast of Commanding officers who have been in the Volunteers since the time of the Prince of Wales's visit in the year 1860, up to the present moment, and yet they don't know actually one single section in the drill book, but have liftest class certificates, (cooked of course). The assertion, Mr. Editor you may think untrue, but I am pre pared to prove, or substantiate, should you require it, by mentioning names, and these are the gentlemen who award certificates by appending their names to recommendations to Head Quarters.

It ought, I think, to be the duty of the D.A. Gens. to rid regiments of these men, by recommending to have their commissions can celled for incompetency, instead of cooking up their bad case, so that he might be able to boast to the Adjutant General of the Forces, of the very efficient state of the Volunteers in his district when the former entleman made his tour to our Province; n fact that gentleman would be able to judge for himself.

As it stands, the hand of the indicator points to the opposite direction, as was clearly proven at the Brigade Camp held in our city in July last.

Yours respectfully. GEO. STAMP.

EDITORS NOTE.—The practice maintained by our correspondent, is an an abuse of the worst character, it is illegal also. We decline discussing the question of competency, ut he must be a very stupid field officer, that will not learn something in a period of twelve years. Our correspondent must recollect that his assertions are not conducive to discipline .- En. Von. Rev.

BRITISH COLUMBIA.

SPECIAL CORRESPONDENT.

Victoria, B.C., 14th Nov., 1872.

Previous to the departure of the Adjutant General, a memorial, extensively signed, was presented to him praying for the appointment of Captain Delacombe, R.M., Commandant at San Juon, as Deputy Adjutant General, and it is now supposed that Captain Haughton's appointment is by no means secure. It would appear that this latter gentleman has (deservedly or not, I cannot Victoria. They have not let the grass grow under their feet in working to his detriment, while the Adjutant General was here, and I am inclined to think that a considerable amount of success has attended their efforts. This morning appears in the Standard another announcement, that Lieut. Sturt, R.M., of the San Juan Force is likely to receive the appointment.

Whatever may be the result of those movements it is of course impossible to pre I do not know Mr. Sturt personally, Captain Delacombe is unquestionably a gentleman, and I believe a sharp officer. Army gentlemen have a fair field here, where there has been no force sufficiently important to develop the capacities of its officers before the public in such a manner as to create confidence in them on the part that Hydra. I do not observe that the best volunteers officers here seem to feel confidence in themselves as to the handling and guidance of any considerable body of men. Yet there is among them a strong common sense and intelligence which is characteristic, in different degrees, of the whole population, and would no doubt, go far, with respect to the two or three gentlemen who are candidates forB.M. ships, to constitute them respectable organizers.

In Canada, where we can publicly guage our officers, and know that in the Dominion Militia, there is no scarcity of men fully equal, as to their military knowledge, to the average of Army officers of the present day, (and they are, or ought to be, more than equal to the men of "sixty years cinco") while many are absolutely superior to that average. I trust that we have seen the last of the appointments of Linesmen to the Militia Staff, either direct from their regiment, or from half pay, without previous service in the Militia.

It is fully time that the Dominion Army ceases to be a charitable institute for gentlemen, who find it convenient to leave the Army, and turn up their insolent noses for years at the military arrangements generally, but evince remarkable alacrity in developing new opinions whenever there is a Staff appointment to be got. The 100th Regiment ought, certainly to feel deeply indebted to the Benevolent Asylum afforded to its officers by the Militin of Canada, as we have

already four staff officers from that gallant corps, and a fifth was a candidate for the Deputy Adjutant Generalship in British Columbia, only that the politic delays of the ministry were out the poor follows leave and patience together. I neither say a word, nor imply a thought, hostile to such gentlemen as Major Chas Boulton of the 46th, (E. Durham,) who, on selling out, join a Militia Regiment in such rank as may be offered to them, and fairly and honestly do their work, as regimental officers. Let all that they can get be open to them.

But the few officers of the existing remnants say) numerous and energetic enemies in of the Volunteer Corps here; all left England some years ago, before the mother country had followed the example of Canada in initiating examinations of officers, they have not seen such a large homogeneous force worked on broad and simple principles-for the English system has been, until lately, cumbrous, complicated, and involved-and they probably share with the mass of the population the prevalent distrust of the efficiency of officers who have not been in the army. By and bye, when the service has been built up to respectable dimensions, when military schools, and Brigade Camps, have elicited aptitude, and inspired confidence, I trust we shall have no more appointments to suit the convenience of retired Army Officers even here. One officer here, however, who was on active service with his militia regiment, for, 1 believe, two or three years during the Crimean War, is an exception to the Volunteer officers alluded to.

I perceive, after all, that in a recent article you give the Prussians full credit for their "discipline," as the main cause of their success. I shall presently, with your permission, have something to say on that point, i.e. discipline, I "take notice" also as the Toronto folks say, of what is written on loose formation, which as you observe. will shortly be the only formations practicable within range of an enemy's fire. I shall also, as soon I as I have time, have a few remarks to make on the subject of factics, as adapted to present knowledge of the effects of rifle and artillery fire and range. yenture in the meantime to predict another Drill book, admirable as is the present one, in two years.

The Bill to carry out the fishery clause of the Treaty of Washington was made a special order for the second Tuesday in January next.

That portion of the Message relating to Utah is highly gratifying to the anti-Mormon community. The Herald (church organ) says that the President has been misinformed and misled, and that in no part of the United States is the constitution held in more reverence and the laws esteemed more sacred than in Utah. The Journal (anti Mormon) refutes these assertions in strong terms.

GUNS AND ARMOUR.

The following letter from Major A. Mon-crieff, inventor of the Moncrieff gun carriage, appears in the Times .- " Sir, - In common with many persons now engaged on artillory questions, I have long forescen that the struggle between guns and armour is rapidly reaching its practical limits as now applied on ships. I seen no difficulty in mounting gung at sea of even for greater weight and power than any now used; but, on the other hand, not many more inches of irm can be floated. I would beg to call your at tention to a proposition of mine bearing on the question which was advanced and discussed at the Royal United Service Institu tion on the 4th of April, 1870, and which has been before the Lords of the Admirally -viz, that of securing protection for guns, men, and engines, without either the weight and exponse of turrets or of armour on the poop and how, except below the waterline. It is unnecessary to repeat the details of the scheme, as it has already been made public in your columns, except to remind your readers of the general principle that the gun recoils downwards into cover bolow the deck through an opening which closes upon it, or from under an iron hood which covers it, and that the force of the recoil is stored up by phononatic agency to raise the gun again to the lighting position without other applied force. This method of mounting gons gets rist of the burden of the turrots, and dispenses with iron plating above the water-line both fo e and aft of the central armed portion of the vessel containing its vitals. Thus this portion of the ship can be groutly strengthened with an actual decrease of total weight of armour It is but seldom that a ship is actually engated, but when so, protection to this, the lighting part, is the great desideratum, When under sail—indeed, at all times when not in action -such vessels would have the advantages of abundant accommodation for the crew and good freeboard, thus combining comfort, safety, and increased strength with economy. The principle is applicable to different classes of vessels, in each of which the details would vary considerably. A gun-boat embodying the first of the above conditions is now in course of construction."

On the same subject, apropos of an article in the Times on the 30th, "E. P. U." writes in the following suggestive termes to that

journal, and says:—
"Sir, —In the able and interesting article on this question in the Tlmes of yesterday the writer omits two considerations, which, had he set them forth, must. I think, have modified his conclusions. He speaks of the penetration of armour-plates as though in the open sea every shot capable of penetrating the side of an ironclad at the distances would penetrate on striking, whereas only those which strike nearly perpendicularly will do so. As in action only a proportion of will do so. As in action only a proportion of of the shot fired can so strike, every inch armour plating becames a real defence. He has also omitted to notice that the weakness or strength of an ironclad in respect of artillery is the amount of damage she may sustain or inflict in a given time. The chances of hitting, gun, for gun have not been increased at sea by the introduction of rifled ordnance. As ar mour plating has compelled us to reduce enormously the number of guns carried in a ship of given displacement, it has ener-mously reduced the changes of lutting or being hit in any given time. Two Devastations would be infinitely longer in fighting it out

with artillery than would two Duke of Wellingtons, because the Devictation would only fire, say, four shots in three minutes, while the Duke would fire, say, 180 shots in the same time. If ten per cent, were hits the Duke would receive, say, 54, effective blows, while the Devastations would receive t. t one. If, as suggested by the writer of your article we were to attack our Hercules with an unplated, but unsinkable ship, he must arm her with a few heavy gans. Our Hercules, knowing what was to come against her, would retain her plating, but would arm herself with large numbers of light shell guns Sho would effectively hit tho unplated ship many times for once she was effectively lat herself, and would, in the nutural course of things, gain an easy victory. The writer assumes that the splinter from a grape-proof side would be considera bly less than those from an armour clad side when penetrated; it would be interesting to know if he forms his judgment on any experimental comparison of the two struc-

In a leter on the same subject, Sir Spencer Itobinson expresses a hope that Mr. Reed will before long, take up the subject of armour resus non-armour. "I know," he says, "that he has in his power to show how thoroughly the protection hitherto given to ships against guns carried at sea can be still maintained, and this important sub-ject, involving novel features of construction, might have been devoloped for the benefit of the British Navy, at any rate towards the close of 1870, or about two vents ago."

The unprecedented, sulden and early closing of navigation causes great loss of property and inconvenience to owners of freight vessels. Immense quantities of lumbermen's supplies for the northern ports of Michigan are still here and cannot go forward, unless at ruinous prices for toaming. One steamer and one schooner were brought from Maumee Bay to day. A number of vessels are in Pigion Bay and beyond reach of help. Among them are the schooners Josephine, Minch, City, She boygan, Alice and Mont Blanc. The schoonor Sargent and number of barques have dis appeared from Middle Sister Island, and were probably cut by the ice and suck. The crews were all brought off, Much uneasiness is felt regarding a large number of vessels overdue from Lake Superior among which are supposed to be the steam ers St. Paul, St. Louis, Japan, Arizona, Atlantic, China, Acadia, Peerless Menominee, Norman, Truesdale, Cuyahoga, and Tuttle, with twelve or thirteen sail vessels. An expedition is being organized here to attempt to relieve these bouts. The Straits of Mackinaw are clear of ice to day. The wind is blowing a gale from the northwest. Two steamers passed here to day bound down.

The report of the Secretary of State on contingent expenses, shows that during the fiascal year ending with June last, the contingent expenditures for foreign intercourse and missions amounted to nearly \$30,000; \$325, 000 were paid to satisfy the Hudson Bay, and Puget Sound indemnity; \$292 were paid to B. C. Davis as the bearer to England of the Alabama Treaty. The treaty case cost \$58,200 and the freight on it was \$23. The aggregate cost of cable telegrams was \$6,600.

HONOR TO A CANADIAN. - We are glad to perceive that our old friend Sisson has for the third time been unanimously elected reading Clerk of the Senato of South Carolina.

"Mr Robert A. Sisson was yesterday unanimously re-elected Reading Clerk of the Senate. This was a deserved compliment to this clever, popular gentleman, who to ably and satisfactorily discharged the duties of that office at the last session of the General Assembly. We congratulate Friend Sisson on the result, and trust he may long continue to fill the position in which he has given such general satisfaction."

Experim ats have recently been made in England to determine the velocity of the 9 pounder shot when fired with various charges of powder. From the 9 pounder gun of 8 cwt, with 31 lbs, of rifle large grain powder, a velocity of about 1,500 feet per second was registered, the gun being quite uninjured. In order to obtain these results on service a stronger carriago is required, and will probably shortly be made. The carriage on which Sir J. Wentworth's new gun was fired on the sands at Southport has endured the strain of the heavy charges exceedingly woll.

An official trail was lately made in England of an invention which consists of interposing between two thicknesses of wood an elastic proparation, which, when fired at and perforated by a bullet, would instantly close and be perfectly watertight. For the purpose of the experiments, a wooden box, three feet long by ten inches wide, ten inches deep, and three-quarters of an inch in thickness, and having on one side an ighth of an. inch of iron plate screwed on to the wood was treated with the compositi n, and fired at with a rifle at twenty-three yards' range. Ten shots were fired, the bullet each time going completely through the box. With eight of the shots the apertures only partially closed, and on the box being immersed admitted the water more or less freely. Two other shots fired point blank were suc cessful ; the perforations closed immediately and were practically tight. It is claimed for the invention that it could be applied to sh ps, and that the perforations made by the largest projectile would close as readily as a bullet hole.

The report received here on Sunday of the wreck of the steamship Dalmatian and the loss of 35 of the persons on board proves to have been untrue. The Dalmatian has re sched Liverpool in safety.

It is reported that Count Von Longyay, Minister of Finance of the Empire, has tendered his resignation, which has been accepted. The other ministers remain in the cabinet.

Baever. - Congratulations, Lieutenant Colonel Phillips! This is a merited promotion of an efficient officer.

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The Volunteer Rebiew,

AND

MILITARY AND NAVAL GAZETTE.

"Unbribed, unbought, our swords we draw, To guard the Monarch, fence the Law."

OTTAWA, MONDAY, DECEMBER 9, 1872.

LIEUT.-COLONEL WAINEWRIGHT GRIFFITHS, at present on a tour through British Columbia, has kindly consented to act as the Agent for the Volunteer Review in that Province,

To Correspondents.—Letters addressed to either the Editor or, Publisher, as well as Communications, intended for publication, must, invariably, he prepaid. Correspondents will also bear in mind that one sud of the envelope should be left open, and in the corner the words "Printer's copy" written, and a two or five cent stamp (according to the weight of the communication) placed thereon will pay the postage

On and after the 1st January next, the VOLUN-TEER REVIEW will be discontinued to parties in arrears. All those desirous of continuing their subscription will please forward them, direct to the office of the paper. The expense of paying a travelling agent to collect subscriptions is too great, and we mean to discontinue it for the future. To those who have regularly paid their subscription in advance, we return our sincere thanks

Our agent in St. John. N. B., will have the accounts written for, forwarded to him in a few days, they are now in the course o but ig made out.

THE Edinburgh Review for October contains an able article on "The Past and Future of Naval Tactics." in which the whole history of that science is ably detailed, but we are inclined to think that the talented writer lays altogether too much stress upon the idea that, "The scientific study of tactics has never been a favorite occupation of seamen. In the British Navy especially it has not been so much neglected as déspised."

In reply to the last sentence it is only necessary to say that when Britain had a navy no other country in either ancient or modern times produced better or more thor ough seamen, that is, men who knew how to handle their vessels in either foul or fair weather, or men who fought them to more purpose; and when it is considered what a complicated machine the old line of battle ship or frigate was, it is very evident that the man who handled them singly or en masse in action must be something more than the careless, happy go lucky ignorant Tar the Edinburgh Review would make him out to be.

The fighting regulations, the fate of Admiral Mathews and the atrocious murder of Brng, both to save the reputation of a worthless administration, tied the hands of many a gallant seaman and by placing responsibility on irresponsible shoulders, led to results that helped materially to increase the National Debt of Britain without any corresponding advantage.

It is true that PAUL HOSTS, the Jesuit, in 1697, by his treatise on Naval Tactics taught his countrymen to shun defeat, but he did not teach them to achieve victory and we must be excused if we doubt that CLARK of Eldin who never saw the sea, could, by an "Essay on Naval Tactics systematical and historical" of which the first part only was published in 1790, and the whole in 1804 teach Rodney to win the victory of the 12th of April, 1782 off Port Royal, Dominicia from DE GRASSE and the French fleet by cutting the line, separating the French Star board squadron from the centre and engaging it at once on the Port and Starboard quarters,

The most reliable account of the action states that "on the 12th of April at sunrise the British fleet was about five leagues North west of Prince Ruperts Bay, standing Northward with a light air of wind in the order of sailing the French were upon the same tack to windward of the Saintes with a fresh sea breeze and one ship having lost her foremast and bowsprit was in tow of a frigate standing in for Gaudaloupe, RODNEY made the signal for four ships to chase the disabled ship, which being perceived, Dr GRASSE bore up with his fleet to protect them. But finding that by persevering in this: course he should give the British the weather guage, he gave up his intention and formed his line on the Port or Larboard tack,

Rodney seeing a general action inevitable recalled his ships and made the signal to form line of battle on the Starboard tack, DRAKE's division leading, thus formed the two fleets gradually neared each other, the French being only far enough to windward to cross the bows of the British. At a few minutes before 8 o'clock, A.M., the Marlborough, 74, Captain PENNY being the leading ship, opened fire upon the centre and rear of the French; at 8 o'clock Sir George Rodney made the signal for close action and shortly afterwards the action was commenced by all the other ships of Rear Admiral DRAKE'S The British rear commanded by division. Sir SAMURL Hoop, and a great part of the centre was nearly becalmed, but the leading ships had the breeze, and the same variation in the strength of the wind, was soon afterwards experienced by the French. As the ships got more to the southward the breeze had also drawn more southerly, so that their van ships could not lay higher than south-west, while the centre and rear having the sea-breeze at about east were lying up south.

"This southerly breeze, although it completely broke the French line did not necessarily disarrange the British, but RODNEY perceiving the aperture in the enemy's line kept a close luff, and the Formidable, the flag ship, at a little Lefore 11 o'clock, passed through it."

The result is well known in the total de. feat as well as positive destruction of the French fleet, but neither in the records of the action or any other document is there a word to show that Rodney had ever studied breaking the line as a tactical manœuvre. It is quite possible he understood all its advantages and seize the proper moment to profit by the knowledge, but Sir ALLAN GARDINER who commanded the Duke, the Admiral's second astern in his account of the action said, "the wind was very light at the commencement of the action, but as it advanced it fell calm, my ship dropped through the enemy's line and thinking I was wrong and out of my station did everything I could to get back again but was unable to do so."

The Edinburgh Review also claims that Nelon's tactics were derived from CLARE's works Trafalgar was fought in 1805, the great sea man was in constant service and his tactical lessons were comprised in his last instructions, "no officer can do wrong if he places his vessel alongside one of the enemy's," and we know Trafalgar was fought and won in defince of strategy and tactics.

It is evident the cases adduced point out the fact that superior skill in seamanship were the chief tactical lessons necessary for the period, and that skill was possessed by the British and not by the French. The Elinburg Review points out that on the very day of Rodney's victory, one of the greatest of French Admirals, Spersian, tried this very tactical manusure on a British

squadron, under Sir Edward Hrones, in a well contested action off Trincomalce in the East Indies and failed for want of scamanship, surely he did not draw his inspiration from CLARK of Eldin.

Whatever the future tactics of the British Navy may be, it is quite evident that without thorough seamanship and that article appears to be remarkably scarce, they will be useless for any purpose, whether as rams, torpedo towers or floating batteries, their success will not be owing to the accuracy with which they will be arranged in line, in echellon, or as the good old phrase would have it, "engaging on the quarter," in detachments, in skirmishing order like the intelligent rifleman of the period, but to the facility with which they can be handled. the skill of the senman, and the coolness with which their fire is delivered.

The action at Lissa proves there was not a sesman on board, Il Re d'Italia, and it was a very sorry specimen indeed of the new school of Tactics, far inferior to the old line of battle ahead.

By the way the Edinburgh Review in speaking of that formation is under an erroneous impression; general actions fought in those days were always under sail. the value of the weather guage was simply that the vessel to leewird could only use their guns in firing at rigging, sails or spars and not always at that while her whole hull below the water line was open to the fire of the vessel to windward and there were some other advantages.

It may be all very well to abuse the past, but it requires no conjuror to guess that shore training even with the aid of a Naval Kriegs piel will never make sailors, and the present state of the British Navy is sufficient proof of that fact.

Ir is very fortunate that the London Times does not represent the feelings of the people of England in its desire to cast the colonies adrift, with the exception of one or two no toriously pro-Yankee Journals it stands alone as the advocate for the last not of degradation to which a free people might be forced, but never willingly subplish.

The colonists know full well the position the Times occupies in the poli tics of Great Britain, it is not nor was it ever a leader of public opinion, it was and is the organ and representative of the commercial class, and true to the traditions thereof would willingly sell barter or betray the birthrights of the British people for a sup posed commercial advantage, its present rage or otherwise is because the policy forced on the Empire by the English monied class has ended in direct loss of territory, money, and what they take no account of, national honor.

We, the people of British North [America

ernment which the Times and the people it represents forced on the Empire, will quietly await an opportunity for rectifying mistakes, and in the meantime tell all meddlers in our affairs, the Times included, that it would be quite as well they should attend to their! own business, as our practical experience of the manner in which that duty is prepared leads us to infer that they really do not understand it and consequently can in no case be competent judges of our affairs.

We give our renders the following article from the Broad Arrow of 9th November which has the ring of the sterling metal about it, and shows that if the commercial organs do not understand Imperial interests the Military Journals do, and moreover truly represent the feelings and desires of the English people.

"Noblesse O'digo" is a maxim as applicable to nations and journals as it is to families and individuals. Our leading contemporary, in a recent article on Canada and the Sin Juan award, seems to be trying to bring about the time when, in the word of a German writer, "England will sink to the condition of a larger Holland, or perhaps a mere colony of North America." We are ourselves, happily, far from believing in the likelihood of such a thing; yet; the Times, by its recent advocacy of a separation between the mother country and Canada, strikes with suicidal hand the first blow at the root of our future greatness. Is the Times itself aware of the influence it possesses abroad—an influence powerful for evil in this case, as it might be, and we willingly acknowledge often as been, for good? Is it aware that abroad, much more than at home, it passes as the recognised exponent of English public opinion, and assuch wields a tremendous power, a power which should surely be exercised most charily? Did the writer of that article, when he penned those coarse, unfeeling words, remember that they will be copied into every journal in Canada and America; will thus penetrate into fardistant Canadian homes, ay I and will rankle deep in loyal Canadian hearts?

In the article to which we allude, the Times, after acknowledging with apparent trankness the many injuries done to Canada by years of English diplomacy-the loss of Maine and the barbour of Portland, the abandonment of all satisfaction for the Fenian raids, the sacrifice of the fisheries, and last, but not least, the loss of the island of San Juan,—coolly proceeds to add insult to injury by talling the Canadians, to go fish for themselves! Is this the time to select to enunciate such sentiments, when the Canadians are naturally irritated at continual blunders, and chafing at the sordid estentatiousness with which we persist in parading the bribe of a pecuniary guarantee which does not cost us one shilling? Is this the time to advocate a separation, in language calculated to leave behind it bitter feeling of disgust and hatred, and to convert a loyal, friendly people into open enemies? Let us, at all events, do our duty as journalists: let us at once disavow complicity in such a suicidal policy, in such unfeeling langu..ge. Let us hasten to assure our Canadian fellow subjects that in this at least, the Times, does not reflect the feeling of the English people; and, in the name of all that is noble and chivalrous, in the name of the Britwho are the direct sufferers for the blunders | ish Army and Navy, Militia and Volunteers, and imbecility of the nominees of the Gov. let us assure them of our deep sympathy for

the wrongs done them by our muddling diplomscy, and that the great English mation is still sound at the core. Thank God I the Times is not England.

But to what do our contemporary's words lead? Let us see. Taken in their entirety. they mean that England is to cast off one by one all her colonies, commencing with Canada, and to withdraw into the isolation and functed security of her sengirt shore. They mean that England stripped or her dependencies, "sans" Canada, "sans" Australia, "sans" New Zealand, "sans" India "sons" everything, would soon sink to a third-rate Power, and be of no more importance than Holland. Hear what a friendly foreign critic has just said on this very subject :- "If English statemen allow the present state of things to last much longer; if they do not, as regards their foreign policy rovert to the principles of their predecessors who overthrow Napoleon In Englin will, it is true, remain a great commercial country, but it will abdicate all claim to the title of a great Power, sink down to the level of a larger Holland, and possibly at some future day become the prey of the old German race, led on by Germanised Sclave; or perhaps a colony of North America. " As a contrast to this melancholy picture, let us draw closer the bonds that unite us to our loyal colonies, so that at some future day, not we trust very far off, we may form together a grand consolidated federation mutually protecting each, other; thus united, we should present to the world the spectacle of an Empire greater than that of Alexander, a United Empire that might proudly bid deliance to the world in arms, and that need not lower its front before the might of Russia. of Germany, or of America. Look on this picture, and on that!

Our gallant contemporary has done the State more than yeoman service in the diffusion of a correct knowledge of nilitary and naval science, and in keeping the rising generation of soldiers and seamen abreast of the great development in the practice and med chanicism of modern warfare, yet we are inclined to think that the article on "Canada and England," which we have copied. is by no means the least important or lasting of that great work in which the Broad Arrow has borne so conspicuous, useful and honora ble a part, or one more likely to establish its claims to the gratitude not only of Canada but the whole Empire.

While the people and Government, of Great Britain are facilitating themselves on their entrance into the fool's paradise of arbitration and negotiation which the fears of the monied classes and the imbecility of the Whig Radicals have forced upon them. their more practical antagonists have spent. no time in devising new systems of naval construction having already proved the worthlessuess of the monitors, but have at once started to make their vulnerable points secure, a process by the way for which the fifteen millions of dollars John Buck was swindled out of will help to pay.

A few more arbitrations would be nearly as profitable for the United States as the Pious Kaiser has found his French expedition to be, and no doubt it would be turned to the same good account.

The following article is taken from the United States Army and Navy Journal of 30th November, and is worth knowing, especially if in the course of events the Devastation or any other iron clad should appear off the Narrows, a possible contingency notwithstanding arbitration and the new law of International philanthrophy:-

"An Associated Press despatch announces that " From the report on the sea coast defence of New York city it appears that the modifications of Fort Schuyler, to conform that work to the requirements of the modern defensive system, have so far progressed that the north front will be completed during the present fiscal year and the north-east front be taken in hand immediately thereafter. The estimates for the next fiscal year are \$100,000 or \$15,000 more than the yearly appropriation granted last session, The fort at Willett's Point, which unites with Fort Schuyler in defending the chtrance to the port and by the East River, requires to be put in a better state of dofence now that the Hell Gate obstructions are in a state of removal, and \$100,000 is asked for in consequence. This is regarded as a favorable site for the scattered earthen barbette batteries that are a prominent feature of the new defensive system, and two of those batteries, of two and six guns respectively, have been completed, and a part of a large battery of ten guns has also been finished up for the service. Another sixgun battery will shortly be completed and, when funds are provided, the construction of others will begin. An appropriation of \$76,000 was granted at the last session, and which with the balance from former grants, has paid for the work already done, which also includes a large magazine to hold 250,-000 pound of cannon powder. Extensive repairs and modifications have been completed at Fort Columbus, on Governor's Island, including a new six-gun barbotte battery. An appropriation of \$70,000 for the coming year is wanted by the engineer in change. At Fort Wood, on Redloe's Island, defending New York, Jersey City, and a part of Brooklyn, but little has been done the past year, and the estimate for the coming year is but \$40,000. On Fort Hamilton down the bay, and its outlying batteries, \$40,000 was appropriated for the present year, and \$40,000 is asked for to go on with the work. The mortar battery intended to play upon the decks of hostile ships while entangled in obstructions or dragging for torpedoes, is about completed. At the new Fort Tompkins on Staten Island, command ing the Narrows, much work is nearing completion. Thirty thousand dollars is the estimated sum which, with the balance of the \$83,000 last appropriated, will carry on the construction during the next year. The glacis gun battery to the north of the main work and the glacis mortar battery to the south are finished. Battery Hudson and the North Cliff battery are almost finished, and the modification of the South Cliff battery is shortly to be commenced. At the fort at Sandy Hook it has been necessary to build two jetties of sheet piling for the protection two jetties of sneet pring to. start of the waves, of the site from the washing of the waves, and a beach is rapidly forming. prise all the important operations of the past year.

Ir is with feelings of sincere pleasure we are enabled to announce to our readers the

Ross, at Head Quarters (Ottawa) on Saturday the 30th November, from Victoria, Vancouver Island.

In a protracted tour of five months, the Adjutant General has visited the various points of interest in the Dominion of Canada, between the head of Lake Superior, and the shores of the Pacific, and acquired information of the capabilities of the country, as well as the measures which should be taken for its development, of a character which does not fall to the lot of every easual ob-

Gifted with an eminently practical turn of mind, from training as well as temperment, disposed to deal with the inexorable logic of facts rather than the promptings of imagination, the knowledge acquired will furnish a sure basis to found subsequent proceedings on, in dealing with the vast interests of that territe, and such portions thereof as are not required for strictly professional purposes, will, we hope, be given to the public in the next report on the State of the Canadian Army.

The gatlant Colonel, accompanied by his son, Mr. Huan Robertson Ross, and an officer of the Hudson Bay Company, the usual guides, with a very slight equipment left Fort Garry on the 19th of August, and reached Victoria on the 28th October, having travelled a distance of about 2,500 miles, going considerably to the south of the Tete June pass, and crossing into the territory of the United States at Walla Walla. The t no oc cupied was screetly days, fifty eight of which were spent in the saddle or actual travel.

Such a journey, diversified by adventures of a very trying description, such as grizzly bear shooting, a six days snow storm, short of provisions amongst the Rocky Mountains, and perils of flood, as well as field, would leave even a very ordinary mortal something to tell worth hearing, but as the services of the gallant Colonel have had a very wide geographical range, from Africa to the shores of the Pacific, the plains of the Saskatchewan after all, furnished nothing very extraordinary beyond its peculiar value to the interests of the Dominion.

He describes the country as the most magnificent he has ever seen. Rich as an agricultural country abounding in min erals, and having a climate unsurpassed by that of any other. He has brought back several specimens of the gold found on the Saskatchewan and its tributaries, and is of opinion that all that is waniting to make it a richly paying pursuit is simply protection to the miner. At present there are but four personsenga ged in the business in the North West Territories.

Our readers will see the importance of a report such as Colonel Robertson Ross can make on the great country between us and the Pacific. It must carry conviction to safe arrival of the Commander in Chief of every mind, in smuch, as his special objects beral education, we see no reason to ap-

--the Canadian Army, Colonel P. Robbertsox were more of a military character than any direct interest in the agricultural, mineral, or commercial development of the territory, and therefore, are totally unbiassed.

> We are quite sure that any document over his signature, will convey convictions at once tominds, otherwise disposed to question the motives actuating interested parties, and tend largely to induce a healthy flow of emigration into it,

> Colonel Robertson Ross speaks highly of the capabilities of the Dawson Route, and says when fully developed, the distance between Fort Garry and Thunder Bay can be easily got over insix or seven days. What appears to be wanted is an increase in the number and ospacity of the tug boats.

We are happy to announce that the gallant officer and his son are in perfect health and do not seem to have suffered from their protracted and necessarily fatiguing jour-

Ounreaders of the Canadian Army who have gone through the usual practical training of a military school, will be naturally desirous of knowing the exact course of studies the British officer of the regular army of the present day is trained in, Broad Arrow of the 12th October last is accountable for the following, and we commend its earnest perusal to our friends.

The periodical examination of the Gentlemen Cadots at the Royal Military Academy, Woolwich, together with the award of commissions and prizes to the successful candi dates, is fixed for Tuesday next. The Field Marshal Commanding in Chief will, it is expected, preside on the ocassion. The following are the authors and periods of history in which the candidates will be examined for admission to the Academy at the examinaadmission to the Academy at the examination to be held in May, 1873:—English authors: Chaucer, "Prologue to the Canterbury Tales" and "Knight' Palo"; Shakespeare, "King Lear" and "Julius Cæsar"; B.con, "Advancement of Learning"; Milton, "Paradise Lost"—Books 4 and 5; ton, "Paradise Lost"—Books 4 and 5; Dryden, "Absalom and Achitophel"; Maccaulay's Essays on "Milton." "Sir W. Tempile," "The Wars of the Succession in Spain," and "Addison"; Scott. "Peveril of the Peak" and "Old Mortality." Period of History: The "History of England, from A. D, 1660 to 1727."

In a profession eminently practical, to which is to be superadded scientific attainants of the highest order, with the solitary exception of "The Wars of the Succession in Spain " not a single military subject is included in the whole of this extraordinary range of subjects, which is presumably the first examination of the series.

It is also to be noted that the Artillery and Engineer officers are educated at Woolwich Academy, and the course of instruc tions may throw some light on the recent failures in the practical application of the knowledge acquired under such [an extraordinary curriculum.

While freely admitting that officers of either arms ought to be possessed of a liprove of a course that will probably end in | leading journals, and they are ridiculous producing a very limited number of good officers, and an unlimited supply of pedagogues, nor are we in that slightest degree surprised at the mechanical failures in the Ordnance of the period.

To ordinary mortals, the usual way of obtaining proficiency in a speciality would be to train the individual to its theory and practice, leaving light literature for lei sure hours. The system pursued is admirably calculated to make Jacks of all Trades. and masters of none,

Tuefollowing text of the award of the German Emperor on the San Juan Boundary question is taken from the London Echo of the 30th Oct. last,

"We, William, by the Grace of God German Emperor, King of Prussia &c., after examination of the treaty between the Gov ernment of Her Britannie Majesty and that of the United States of America, dated at Washington, May 6, 1872, by virtue of which the above named Governments have sub mitted to our arbitration the question at issue between them, viz., whether the line of boundary which, according to the treaty dated at Washington, June 15, 1846, after it had been continued westward along the 49th parallel of north latitude to the middle of the channel which separates the continent from Vancouver's Island, shall bu; further drawn southerly through the middle of the said channel and of Fuca Straits to the Pacific Ucoan, should be run as claimed by the Government of her Britannic Majesty, through the Rosario Straits, or through the Canal of II ro, as claimed by the Govern-ment of the United States, in order that we should decide finally, and without appeal, which of these claims is most in accordance with the true interpretation of the treaty of June, 1846, have, after taking into consideration the statement of the experts and jurists appointed by us to report upon the contents of the respective cases, and counter case with their inclosures, given the following deci-

The claim of the Government of the United states-viz, that the line of boundary between the dominions of Her Britannic Majesty and the United States should be run through the Canal of Huro, is most in accordance with the true interpretation of the treaty concluded between the Govern-ment of Her Britannic Majesty and that of the United States of America, dated at Washington, June 15, 1846.

Given under our hand and seal at Berlin,

WILLIAM.

Oct. 11, 1872.

This decision is said to have been influ enced by the offer of Captain (now Admiral) PREVOST in 1859, to accept on the part of the then British Ministry, the Douglas or central channel as a compromise, and that Mr. BANGGOFT, the United States Minister at Berlin produced a letter of his to Mr. CAMPBELL the agent on the part of the United States making such an offer.

So far as the document itself shows, no reasons are given for a very extraordinary decision. The dicts of the experts and jurical itself in the act of detonation. Hence, Italians do not breathefreely, as they conter ists, however, are detailed by some of the in a word, combustion and detonation are plate the prevailing militarisme of the Gault

enough.

What special aptitude the German Emperor or his people had to determine such questions, or what their particular opportunities were for forming a judgment in the matter, can only be told by philosophers of GLADSTONE'S class, but the Holy Alliance has benefitted by the move in no ordinary de-

REVIEWS.

Blackwood for November contains the following articles :-The Parisians -Book II. The Shores of Biscay. On a Resurrectionist. A True Reformer-Part IX. Montalembert. La Bruvere. The end of the Banquet. On Autumn Manœuvres. The LEONARD SCOTT Publishing Co., 140, Fullon-street, New York.

GUN COTTON V. GUNPOWDER.

From the Iendon Army and Navy Gazette we take the following: "The vexed question of 'gun cotton v. gunpowder' assumes, daily, features of increasing importance. As ries of most interesting experiments has just been conducted in the Royal Arsenal at Woolwich, with the view of ascertaining the relative degrees of effect produced by the explosion of compressed guncotton in com bination with different proportions of nitre and other compounds, when detonated with Abel's electric detonator,' and the results which have been obtained throw a vast amount of additional light upon the varied characteristics of this explosive element. But before commenting upon these results, it may be as well to advert to the nature of detonation in contradistinction to combusttion. One of the principal attributes of compressed gun-cotton is, that, when one or more of its discs are detonated by means if fulminate of mercury ignited in a tin tube with a little loose gun cotton at the tru-for such is briefly the construction of an electric detonator-it explodes with terrific violence and a loud report, whilst the same discs may be ignited with an ordinary fuse or portfire, and will only fiz away harmlessly until they are consumed. Gunpowder on the other hand whether ignited partially or instantaneously throughout the mass, is invariably more or less violent in its action, and, no matter whether the slow-burning or the quick burning natures are made us of the difference, in effects produced is only in degree. By detonation in fact, as applied to compressed gun-cotton, we have a totally dis-tinct action set up to that of combustion, either as applied to gunpowder or guncotton, being the result of the violent influence exerted by the fulminate of mercury in the detonator. The forces in this case which are brought into play are so excessive, that the chemical combination previously existing in the compressed gun cotton are destroyed, and the particles assume a fresh arrangement altogether the various ele ments being separated from one another instantaneously, with great explosive effect. There is no necessity for any combination of the oxygen of the air with the ingredients of the gun-cutton to produce a condition analogous to combustion, a supply oxygen, being instantaneously evolved by the mate-

two separate and distinct conditions. And the results which have been arrived at in regard to detonation are truly surprising. In order to produce any considerable effect with gunpowder, as is well known, it is absolutely necessary to confine closely the explosive agent, in order to form a resisting medium for the forces generated by the powdergas waves to exert themselves against But gun cotton when detonated, required scarcely any resisting medium, a slight tamping of sand patted over it with the hand being sufficient to ensure a most violent explosion, Solid cylindrical shot 10 in. in diameter, with a small hole drilled in the centre, were charged with a thin column of cotton filling the hole, and weighing about a pound; but although the extremity of the aperture was only lightly closed with clay, the shot were split into fragments by the explosion. Flat discs of compressed guncotton weighing one-quarter of a pound were also placed upon iron slabs 1 1-8 inch thick resting upon hollow cylinders of iron, so as to support the edges but not the centres. A thin tamping of sand some few inches in dopth was then piled over the gun-cotton and upon the detonastor being fired the iron slabs flew into a number of pieces. This property of gun-cotton when detonated, viz.. to form a resisting medium for itself, cannot be too highly estimated.

BRITISH COLUMBIA.

Our British Columbia fyles brings us in-telligence of the arrival of Mr. Justice Gray at Victoria, Vancouver Island. He arrived out on the 26th October by the steamer "Prince Alfred," and was received by a do putation of leading citizens, including Mr. Justice Crease, Mr. De Cosmos, M. P., and Mr. Wallace, late M. P., for Vancouver District. The new Judge took his seat on the Bench on the 31st October, having been sworn in by the Chief Justice; and the compliment was paid him by his learned brothers of asking him to deliver the judgement of the Court, in a care which had created some interest. It appears that a murderer named Bell had been tried, convicted and sentenced to death. Application had been made to Ottawa for a commutation of sentence. which was refused, but the Sheriff refused to carry out the sentence, pleading that he had not received the Governor's warrant which, before Confederation, was issued to the Sheriff in such cases. The Court decided that the warrant was not necessary, and in-structed the Sheriff to proceed to the excution of the sentence. Mr. Justice Gray travelled via the Isthumus of Panain, in going to his new sphere of labor.

The Italians, says the London Globe, are disturbed by reflections on the enormous force to be put at the disposal of the French Government by the new military law, when its influence on the recruiting of the Army is fully felt. By one estimate the number of men whom France will be able to put in the field under the new system will be over three millions. The Italians do not quite like the prospect. Their papers are therefore advocating the immediate extension to the peninsula of a similar system, under which there shall be very we exemptions from compulsory military ervice, and the period shall be raised from tewlve to twenty years. Thus Italy shares in the universal fever. Although M. Thiers has counter ordered the mines that were being constructed on the Italian frontier in connection with the defence of the French side, it is evident the Italians do not breathe freely, as they contem---

EUSTACHE.

The subject of the following lines is a young Indian of the Iroquois tilbe, whe was recently out with the writer on a deer hunting excursion :

As from the eragy mountain's crown,
The lordly Buck came crashing Jown,
whild him with a bloodhounds dash,
Can everties, bounding, with Lustache,
A set of that kingly tribe
Whom foreign gold could never bribe,
In Council stage, in battle strong,
Fit hero's for a minstret's song.

While his swift footsteps trod the steep, From the dark gorge with carlon deep, "The voice of "Bugle" on the gate, Swell'd loudly over hill and dale, "And "Speed" and "Hector" in his train Join'd forcely in the grand refrain As down the grantes side in huste the forest monarch hied.

Wild flashed Eustache's caplo cy. As homeward bound his step drew nigh; Glanchig round on every side. The anthered glory he espical Stretched out beside the samp fires blaze, As (willight's gently falling haze, Threw lites of curtain over the air, "All right," he cried, "you have him there."

Then round the fire the nunters drew. Then round the fire the hunters drew, And sporting stories old and new Among the forest's noblect game, Kent muste to the crackling flavio Which shed a brilliant glare around, Making as 'twere enchanted ground, Ourstreen encampment on the brink Of that clear luke that Gods might drink."

Eustache is tall and strong of limb, Edulation is fail and strong of limb, Full of the hunter's viril o vim — His step is bold, his flashing eye is like the eagle's in the kky.

Methinks among that mighty raco
That once bud here their alwelling place — Bons of the war-path, flerce and rush, Stood many a brave like bold Eastache!

W. P. LETT.

Ottawa, Nov. 26th, 1872. -Ottawa Citizen.

CAVALRY AT THE MANŒUVRES.

(Continued from page 590,)

The writer in the Times goes on to observe that the question of equipment (partly discussed in our former quotation) has a direct hearing upon the use of cavalry in war and at manœuvres, for there is a cry that the horses would be laid up if called upon to do all demanded for them. The answer is, of course, what Austrians, and Prussians, and Russians can do without injuing their cattle, Englishmen can do as well or better. If they find that injury results from proper work, there is something wrong. It cannot be in the men, and and surely we are not going to admit that our English horses are bad. What can be the matter but equipment, and perhaps a certain luxury of treatment accorded to the animals, which are often, to our mind, too fat when they take the field? The marches lower their condition, and then their saddles do not fit.

Suppose it to be granted that English cavalry can be improved as much in their mobility as the infantry have lately been, what is the work, they should set about practising so as to be ready at once for war when the time comes?

When two combitants stand face to face with rapiers or foils in their lands, they touch each other's blades and look in each, other's eyes. By habit the eye and hand work together. The quellist feels the thought of his adversary with his blade and reads it in his eyes. To look at an antagon

blade. He is always behind-hand because he cannot find out what is going to be done till it is half executed. Cavatry must constantly feel the enemy, whatever be the risk. They are the nervous system of an army, and behind them should be an intelligence department, acting as the brain. Improvement is only to be made by study of actival war.
It is admitted that the German cavalry did, their work well; let us see for a moment how

they did it. Before the army was assembled masses of cavalry were sent to the frontier, and, had the French invaded, we should have sent the German cavalry harassing the advanced columns and keeping the headquarter staffs perfectly informed of all the enemy's movements. But the French were dilatory, so the Germans set about making raids across the frontier, getting intelligence, breaking, it, the cavalry were the first to reconnectro the French positions, and from that mo Worth the cavalry divisions led the pursuit. Bogulawski describes their action in words which we will paraphrise. Strong detach-ments were always pushed forward close to the enemy, no matter how far in advance of most part employed independently. their own armies. Their business was to keep the French in a perpetual condition of worry, and allow no innich to be made or position to be taken up without a report being sent to headquarters. The duty was performed by means of officers' patrols, which had orders to push forward at any risk until they came upon the foc. Mark these "at any risk." The risk was frequently great, and it has been said by German offi cers of high rank that no one will ever know how many men were sacrificed upon patrol duties. They acted with extraordinary boldness and determination, showing that pushing aggressive faculty which is the soul of first-rate cavalry. They spread terror throughout whole districts, won for them selves such a name that cities used to open their gates at the command of two men, and when, as sometimes happened, a patrol was cut off by the enemy, two or three men out of the number were sure to escape and carry back the intelligence. But it was not only in front of the French when they stood firm, or behind them when they retreated, that the Prussian cavalry were on the alert. They were constantly working round the flanks and breaking in upon the communications, making foraging excursions to great distances, cutting telegraph wires, destroying sales are the control of the control ing railways, roads, and magazines; in fact perpetually threatening the communication. It has often been, wondered how, in the second period of the war, the German railways were never throughly broken up, their roads cut, and their communication inter-rupted by hands of men forming in the country or issuing from the towns. There was no chance of such assembling, for the Prussian cavalry pairols were too vigilant. There was an incessant warfare between them and the Franc tircurs. Many of the sol diers were shot from ambush or killed in sudden affrays, but their comrades always took vengeance for their loss. The cavalry divis. nutumn by the infantry.

ons, being pushed to the front during. Unly one remark more seems necessary on marches, so cleared and filled the country.

this subject. The veil and recommissioned marches, so cleared and filled the country. reads it in his eyes. To look at an arrange marches, so cleared and fined the country this subject. The veir and reconnaissance list's hand in order to see what he is about that the tired infantry were spared the far work described as performed so well by the to do is to be cert-inly too late, for the hand tique of outpost duties. Therefore, because all, or nearly all, could sleep, there was no regiments only. Heavy cavalry was employed countries and reconnaissance marches to do it to do it to the light cannot be seen to move till the passis in course of the tired infantry were spared the far work described as performed so well by the light cannot be supported in the country this subject. The veir and reconnaissance are danced in fantry were spared the far work described as performed so well by the light cannot be supported in the country this subject. The veir and reconnaissance are cannot be supported in the far work described as performed so well by the light cannot be supported in the far work described as performed so well by the light cannot be supported in the far work described as performed so well by the far work described as performed so well by the far work described as the far work described as performed so well by the far work described as performed so well by the far work described as performed so well by the far work described as the far work described as performed so well by the far work described as the far

the cavalry, which, always close to the enemy, had given information of MacMahon's march to relieve Bazaine. During the rest after the first bloody battles on the Loiro the cavalry lay close to the enemy, and enabled the infantry corps to have some peace. Sometimes Lancers were stopped by infantry detachments or dismounted French cayalry, armed with classepots: sometimes Hussars and Dragoons left their horses under charge of a few men and fought on foot, even against French infantry. The Lancers frequently armed themselves with chassepols taken from the slain, and the result of their combats has proved how necessary is a good firearm for all cavalry. The services rendered in a thousand ways by Prussian horsemen spread over the country were invaluable, and entirely eclipsed the massive charges in battle array. Yet it is just this universal railways, bridges, &c. When the armies work which is so little practised in the Enmoved to the frontier and advanced beyond glish Army. It is one thing to be placed in advantageous positions and told to watch for an enemy, quite another to be ordered to ment some regiments never lost touch of find the enemy and tell what he is doing, then, the horses remaining suddled for Again, all infantry pickets in Germ, we were weeks. After Spicheren, Wissembourg, and latterly, and are now habitually, during peaco manouvres furnished with a few cavalry soldiers to carry messages and patrol perpetually. With our outposis but few cavalry were associated, and they were for the

The lesson to be learnt from the late war in France is that cavalry are indepensable to cover front and flanks of an army at long distances, to obtain and transmit intelligence; but the lesson does not appear to be yet appreciated fully, and the action of the horsemen is still chiefly em ployed in battles at our manœuvres, We have to repeat the opinion we expressed with regard to the infantry-namely, that the cavalry have not during the year enough work in their special guarding and recon-noitring duties. Their want of experience at the manœuvres, and their consequent remarkable inaction at times when they should have been keeping their Generals informed of every movement on the part of the enemy, showed that they are not quite prepared to undertake and perform with intelligence their most important duties in

It is with the deepest respect for the magnificent appearance of the English cav alry and 'or the munner in which they performed all they had been taught to do that we criticise their action during the man-curres. Were the men of all regiments trained as some baye been—the 10th Hussars for instance—to read maps and reconnoitre with intelligence, there would be no room for doubt that the English cayaliy would not only hold their own with other nations, but would even surpass them, It only needs a little more practical instruction throughout the year in veiling the move-ment of friendly corps and bringing intelli gence concerning those supposed for the time to be enimes, in order to fit them or similar duties at the manouvres. There is no lick of good riding; or care of horses, no unsteadiness or stupulity among officers or men and we are confident that next year the cavalry will show as great an advance in knowledge and handiness as was shown this

Light Brigade are just as much the duties of Dragoon Quards and Household Cavalry. To treat the latter as only to be used in grand charges would be to place them in a position of inferiority to their comrades of the light horse; for charges in battle must be comparatively few, while covering and intelligence work is constant and of the highest importance.

INFANTRY LESSONS OF THE MANŒUVRES.

(From the Times.)

If an intelligent soldier from a far off country, such a Japan, were to pass through Europe studying the military systems of each country as shown at the autumn man odivies, he would arrive at the curious opinion that the Eighsh Army, more than any other, believes in an infantry advance in column under fire of an enemy. It would be in vain to assure him that England adopted (not invented) the line formation for battle, and holds to it as specially characteristic of Buish infantry tactics. He would reply-"I see that you always deploy, sometime or other, before you are quite close to the enemy, but that when un ler fire, is, of course, a manouvre quite impossible in war, and I see whole brightes mirching in column within easy range of artillers, or even rifle fire of picked marks men." No soldier at once honest and intelligent could contradict the statement. Brigales did so advance in column under fire on Sulisbury Plain, and, what is more supposing the country unit for an advance in line, there is no other recognised forma-tion. We trust that the days are over when tion. We trust that the days are over when English officers would answer that the pres ent system served our purposo in the Peninsult, and must therefore be good for all time. That arguments come consistently from the lips of those who opposed, first, the introduction of tilled muskets and then riffed artiffery. Their objections improved armaments have been answered by the inexprable logic of facts. which cannot be disputed. There are facts too, against the old system of treties, only they are not yet so wilely accepted and un derstood. Much has already been published on this subject, and among all writings, both English and foreign; nowhere is it better worked out than in the Willington Prize mantle seems to have fallen. But, as yet, it became no longer possible to live volices, our old system, and there has been no oucial adoption of a new one. Supposing that red line at any point with their massive the public opinion of the a.my is not yet 1 and powerful columns. But here the same ripe, we shall endeavour to put forward with 1 thing occurred is later on; in the advance of direction in which the movement must be made, and the result to be expected from it. meet the conditions of modern warface with 1 to deliver their pure fire, the intesking col its roads, milroads and its telegraphs, its in 1 mms hatted, and a few bully antice shots organed range, accuracy, and rapidity of were fixed from the centre of the leading

rapid diffusion of information and consecutors, some of whom were of the highest rank versult with military, afford to an instand quent decisions of popular opinion, the implication in the field or moved from one part of the its wall-like appearance and, becoming more theatre of war to another, the enormous in the form of an irregular cloud, at length the changes which make the utilisation of

consumption of food by those masses of men and their expenditure of ammunition, the drain upon the country's resources—all these taken together, with the fact that overy new invention is a fresh weapon in the hands of genius, contrive to render wars shorter and sharper, compaigns spent in manouvres and attempts to outwit an enemy being no longer possible. Decisive bat tles will occur soon after the armies take the field, which is as much as to say that an army to be successful even against an invadermust be prepared to make and receive vigorous attacks. For, as Von Moltke says, "The defender, if he wish to bring about a decisive result, must eventually himself become assailant." It follows, then that however peaceably inclined a nation may be, or however determined to make war only in self-defence, it must train its army in peace to a style of tactics suited as much to attack as defence.

But the attack is not to be with the bay onet. Fewns real bayonet attack used to be they are still fewer now. The bayonet or the but may be used in street fights or or sudden surprises, but since a man can now easily load his rifle when in the act of walking or even running forward and as it is fur simpler to pull a trigger at close range than to get a bryonet inside the enemy's guard, it is almost inconceivable that a soldier should prefer cold steel to hot lead. In fact, all experience since the days of breechlording rifles tells the same tale, that the work of death and demoralisation is now

almost entirely performed by fire.

Take, as an example. That battle of the Alma, as described by Von Moltko, remain hering that it occurred before the introlucion of breechloaders, and that the Russian small army were of a very in lifferent character:—"Owing to wint of practice, they (the Eaglish) found great difficulty in samply making a forward march of about a mile, and then required several Lours to deploy into two lines, the necessary space the first extends two miles, and it was too deeper with steep banks, and it was too deeper with steep banks, and to ascenda a rocky slope in close proximity to a burning vallage, and among enclosed vineyards. Unassed to the vallage, stood at least two thinds of the Russian force. As soon as the first line had the consiste bank that the land to recorded the consiste bank that a land to the consiste bank that a land to the original stripe of a country where bettles are likely to be found to be the striped to the consiste bank that a land to the original striped to the consistency of the policy of at lack or say that all writers, even the widest front of fire? Concerning the question of the policy of at lack or say that all writers, even the widest front of fire? Concerning the question of the policy of at lack or say that all writers, even the policy of at lack or say that all writers, even the wides front of fire? Concerning the first line widest front of fire? Concerning the first line in the widest front of fire? Concerning the first line in the widest front of fire? Concerning the first line widest front of fire? Concerning the first line wides and enveloping the flines of fire? Concerning the first line wides and enveloping the first line wides and envel Take, as an example. That battle of the ascended the opposite bank, the 2nd and ges to preserve ofder.
Light Divisions formed an arregular chain of skirmishers, in which the mun of not only Essay, by Lieutenant Maurico, R.A., upon idifferent companies, but even of different no definite effect has been produced upon for to make any regular mavements. The Russians felt confident of breaking the thin what amount of clearness we can the reason | the 1st Division, and the same results were why a change is imperatively necessary, the obtained everywhere The Rissian Army, formed in several battalian columns, one behind the other, advanced with a resolute Only, one previous remark may, to a certain amposing bearing, without firing, and the extent, disagn prejudice. It is this. All thin, weak-looking line of the English the changes which we advocate tend not to a held its ground, and directed its fix on this reversal of the ideas of the Duko of Welting dense mass, at a range at which every bullet ton, but to a development of them, not re- could not full to take effect. Before they quired in his time. but now called for to could come to close quarters or deploy so us battalion, which, of course, was the poly one All conditions of modern civilization, the that could be employed. Most of the offi-

gave way, slowly and unwillingly, and with a proportionally great loss. On this occasion, according to the account of Anitschoff the Vladimir regiment lost forty nine officers and 1500 men, but this is probably an exaggerated estimate. In these ever-recurring encounters of the column against line the Russians lost, in barely three linurs; 5700 men-1.e,, nearly one-fourth of their whole strength. The English, advancing in line and keeping up their lire, twice broken into the principal entrenchment of the Russians, which was defended by sixteen guns: Their total loss did not amount to more then:2000 men; of the engagement cost the Russians, at least, twice as much as it did their opponents, and mainly decided the battle:"

Here we see the line advancing with great difficulty, yet friumphing over the heavy column by developing a great, front of fire. Had the Russians been, as well armed as the English, and had they shown a wide from the first the formula of the column because the content of the column because the content of the column because the column wide front, either by forming in line or swarms of skirmishers, would it have been possible for the English to have formed their thin line so as to advance with any stordiness at all? As it was, we find them requiring hours to deploy, under estimating the space to be occupied, and at last skirmishing in confusion with different regi-ments mixed so that no regular movements were possible. Yet the wide front conquered the narrow one, as it had done half a century before. The solid heavy column is now obsolete. Instead of it an English army would meet swarms of skirmishers, which would be perpetually streaming outwirds and enveloping the flinks of the stiff Russian force. As soon as the first line half time could advance without frequent stoppathe all feels see.

Again, no formation is so difficult to thring forward under cover as the linearoEven whom a portion, at least of his father's regiments, got so mixed up together, that heary columns, may often be concorded till near the enemy; small columns, suchiabram be formed with 100 to 250 men, are easily brought forward under cover to within a few hundred yards. Individual mensor small groups of skirmishers can generally conceal themselves from all but chance shooting until they are close to their work: Ehero are, it is true, still existing in the English Army officers who reject the adea of cover and would, in theory, send their memacross the open. But as they are becoming mre day by day, and are not likely to thate much influence over the final decision of the quesfion, we need spend, but little time over the difficulties thrown in the way, by men who would sacrifich regiments uselessly rather than adopt a revived, not a new, principle, and who would abandon a field; of battle rather than a crotchet But there are now by reason of the Molunicers, movement, large numbers of the public sufficiently concover much more important than it was in the days of the Peninsular war.

Artillery fire and infantry fire have been developed in three principal directions. The useful range is much longer, the accuracy, at all ranges far greater, and the possible rapidity of fire increased to an extraordinary degree. Let us see how these tell in a battle, and especially how they influence the

staff formation in line.

In forming a line of battle, whether for attack or defence the best positions will be occupied by artillery, without refence, to the line of the infantry. The guns will not frequently moved, because the effect of their fire is not materially influenced by the addition or subtraction of a few hundred yards in range. It is by no means cortain that the artillery will fire at what is straight in front of them. Indeed, the reverse would be the case if the enemy were advancing in line. The gunner knows very well that the fire of his gun will be sufficiently accurate so far as deviation to the right or left is concerned; his only difficulty is with the under and over. An advancing line therefore, would be receiving a shell fire, not as much from the direct front as from that diagonal direct tion which is appropriately as it consists the contraction which is appropriately as it can be a supposed to build a second to be a supposed to b tion which is expressed technically as "en echarpe," or even almost directly from its flank. Batteries three are four miles apart could cross their fire upon a line advancing to attack, and the fire would be felt as coming from both flanks. What then becomes of the "thin red line"? It suffers as a column with a narrow front, but, very deep, would suffer from direct fire. Exactly the same principle is applicable, though in an inferior degree, to the fire of infantry, now that bullets fly with great velocity and striking effect to distances even of 2000 yards. Let us not be misunderstood, we are not advocating long-range infantry fire, but only pointing out that the bullets fired directly against an advancing enemy will frequently range as far as a second line of reserves, and that u small body of infantry occupying a position on the flank of an advancing line will range perhaps, along its whole length. Two special instances of artillery fire employed as we have above described happened to fall under our observation at the manœuvres. On the first day, the 6th of September, Codford Hill was held by the right of the Northern Army, which was attacked on its right flank by Horsford's advance, at the same time that the troops occupying Codford Hill were being shelled by Southern batteries on the other side of the river, both in front and flank of the defenders. The lines on Codford Hill were distinctly visible to the gun ners of Major King's battery, which was playing upon them under the most favorable circumstances possible for artillery fire -namely, in the direction of their greatest depth. Again on the last day, when Brownrigg's Division turned the left flank of the Northerners, and placed 18 guns in position there, no officer, of whatever school, who saw the Northern brigades advancing against the other Southern Division and exposing their left flank directly to the fire of Brownrigg's guns at ranges of 1500 to 1200 yards, could fail to be struck with the want of adaptibility of the line formation to the case in question. The Umpires on the Southern side declared that two Northern Brigades must have been thrown into such dire confusion as to be practically valueless for battle during a considerable time. Now the same work performed by the artillery on this occasion might have been done by

proserved. The fault did not rest with the officers who were leading the brigades, for they are forbidden to deviate from the instruction contained in the drill-book, and as they had, without doubt, received orders to advance no choice was open to them. it be asked in what formation could they have moved under the circumstances, we reply, in no definite formation at all, but exactly asCol. Bakeradvanced his light cavalry on the last day of the manouvres of the Southern Army near Blandford-namely, by sudden rushes in loose order, across every open space, and by massing together wherever a little cover afforded by a wood or a hill gave opportunities. It so happened that the guns were able to fire at a ranges very short for them, but even if another 500 or 1000 yards had been added, their fire would still have been destructive under the circumstances, while it would have been perfectly uscless against troops in proper order. So much for the power given by increased range.

With regard to accuracy the development of modern fire tells against troops standing exposed or moving in any formation whatever, and whether the fire be from front or flank. In combination with increased rapid ity the great accuracy of modern rifles renders an advance across the open in either line or column a simple impossibility if the defenders are attacked in front and lie down or shelter thomselves behind the thousand. and-one accidents which occur in every field of battle. The three movements together—long range, rapidity, and accuracy—may be said to have this effect upon modern tactics, that it is no longer necessary as a rule for the defence to occpy with troops open spaces under view of the enemy; for, in the first place, the enemy will not choose them for his advance, and if he aid the fire of the artillery and infantry of the first line from sheltered situations would so shatter him that be would fall an easy prey to what ever might come next, second line or reserves.

We arrive, then, at certain principles derived directly from the increased power of modern artillery and small arms. The old formation for battle, with two beautifullyarranged lines occupying the extent of country covered by them when deployed, is no longer right, and so far as the science of warfare is conce ned, may be called barbar ous. If this be granted, it is manifest that neither attack nor defence can be conducted with any hope of success in a formation based upon the principles hitherto un derstood and carried out by the stiff British line. Further remarks upon infantry tactics especially upon the merits of an habitual system of attack or defence, must be reserved for another article.

(To be continued)

LIEUT.-Col. VILLIERS.-We were to day informed by a gentleman well posted in military matters connected with this Dis trict that yesterds, commenced the eleventh year of Col. Villiers' duties as Brigado-Major of this Division, and obtained the following statistics of the relative strength of the Vol unteer Force ten years ago and at the pres ent time, which cannot fail to be entertain ing to those of our readers who take an interest in the working of our citizen soldiery. In 1862 the Seventh Military Detrict composed the Counties of Wentworth, Hal ton, Lincoln and Haldiniand, and mustered

counties above named were, under a new military division of the Dominion, made into the Second Brigade Division of Military District No. 2. The force of this Division now consists of:

Officers. Rank and File 5 Troops of Cavalry 15 200
2 Field Batteries of Artillery. 8 150
1 Garrison Artillery Co. 3 55
4 Battalions of Infantry. 110 1,430
4 Battalions of Rifles. 113 1,485 Making a total of 240 3,320

Thoroughly armed and equipped, and ready for action at a day's notice. Besides the above, comprising the Active, or Volun-teer Force of the Division, Brigade Major Lieutenant Colonel Villiers has now the organization of thirteen regiments of Sedentary Militia, ready to act as a reserve to the While volunteers in case of an emergency. the above figures shew to what an extent the military spirit has developed in this Division and with what alacrity our young men have responded to the call to qualify themselves for a soldier's duty, it also speaks very strongly in favor of the staff officer, to whose exertions much of this success is due and also exhibits the very popular favorable impression with which he is regarded by all We cannot allow the ranks in the Force. occasion of the tenth anniversary of Colonel Villiers' appointment to pass without con gratulating him on the success which has attended his work during the past ten years, and express the hope (in which we are sure we will be joined by all our readers) that he may long represent the staff in Hamilton, unless it be that promotion to a higher command, which is always dear to a soldier, should remove him from amongst us. Hamilton Times.

"The altered position occupied by the cavalry of the present day," says the Army and Navy Gazette, " is the subject of an article in the Vedelle. Their task now is stated to be, firstly, the strategical service, which embraces the duties of exploration, taking measures for the salety of the army, and skirmishing, secondly, the tactical service of engaging with the enemy's cavalry, pursuing small bodies of infantry, and following up a decisive victory. This demands from the officers great intelligence and foresight, as well as a knowledge of topography. They must be men, too, accustomed to the saddle, and to all kinds of fatigue and hardship. Another important use of the cavalry is to discover the weakness and mistakes of the enemy; for without well-led cavalry, an army gropes in the dark, cannot rely on any decided victories, or turn the disorder of a retreat into a flight. One cause of the disparagement that has fallen upon this arm of late is, that it has been used without regard being paid to the increased excellence of fire arms. Instances of such noble but extravagant deeds are numerous. The charge of the cuirassiers at Aspern, of Murat's Horse at Krasnoi in 1812, and an Englishman will add, the Balaklava charge. In his work on cavalry, the Arch Duke Charles remarks that the general to whom the field marshal intrusts the cavalry on the day of the battle should not suffer his masses to be divided at the representation of any other general in order to render a fruitless and fragmentary infantry, if only they had been a little nearer only 890 mm of all ranks in the active force, assistance. In such a case the infantry lose than the batteries were. There was no help In the year 1864 the Counties of Brant and their self reliance, and the cavalry do not for it, if the line of formation were to be Norfolk were added, and in 1868 the six