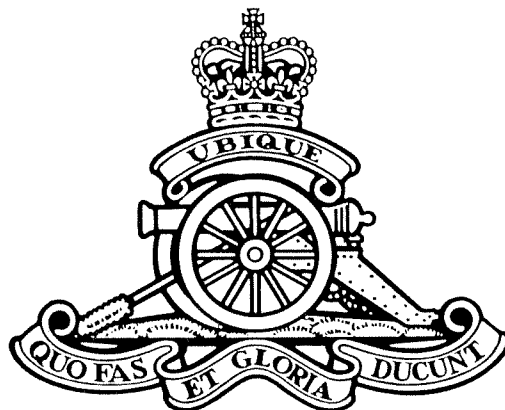




THE CANADIAN GUNNER L'ARTILLEUR CANADIEN

1993



THE CANADIAN GUNNER L'ARTILLEUR CANADIEN

Volume 29

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**Captain-General, Royal Regiment
of Canadian Artillery**
Her Majesty the Queen

**Colonel Commandant, Royal Regiment
of Canadian Artillery**
Colonel, His Honour R.A. Jacobson, CD

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Major-General J.A. MacInnis, CD

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Colonel J.D. Briscoe, CD

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de l'Artillerie canadienne**
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de l'Artillerie canadienne**
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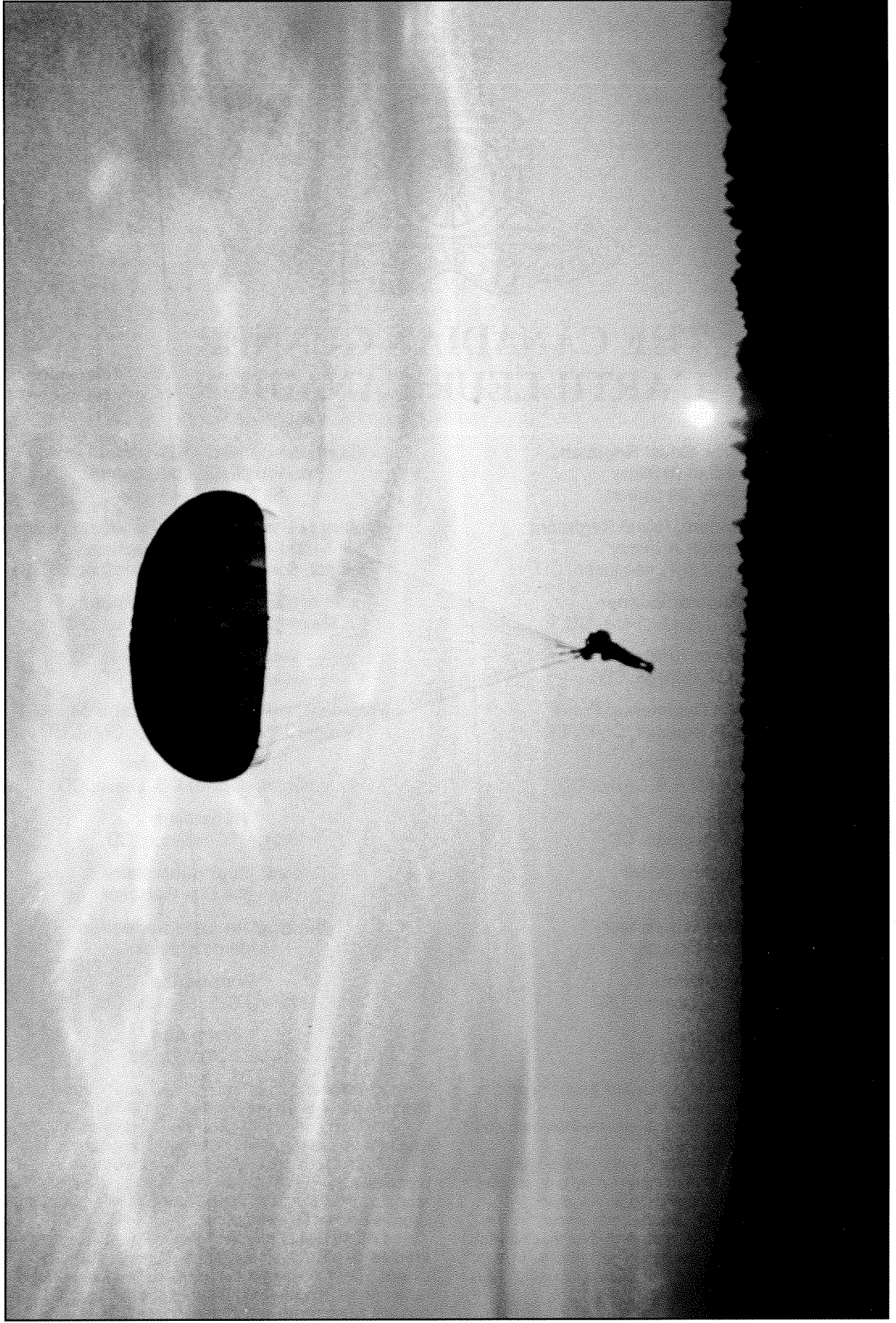
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ROYAL CANADIAN ARTILLERY PHOTO CONTEST WINNER



Sunset jump of an E Battery gunner in Fort Bragg, N.C.
Photographed by Sergeant J. Moore, 56 Fd Regt

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MESSAGE FROM THE COLONEL COMMANDANT

Once again it is time to sit back and reflect on another year that has gone by. Despite public, government and media pressures to reduce the national deficit and debt, often by attacking defence expenditures and the Forces ; and not withstanding pessimistic views in various circles ; the Royal Regiment, although roughed up, is in very good shape. This is due to our family spirit and to the pride and determination of our members.

I would like to take this opportunity to thank all members of the Royal Regiment either serving within units or in other positions for your loyalty and dedication to your country, to the Army and to the guns. The articles in this issue of The Canadian Gunner present the myriad of events in which we took part over the past year and demonstrate the enthusiasm with which you tackled the tasks at hand. I had the opportunity to get the pulse during visits to units, during discussions with senior officers, civilian leaders and members of various associations, and there is no doubt that your contribution is recognized and well appreciated.

There will undoubtedly be more challenges in the years ahead. I call on your continued support and professional approach in order to maintain this united front which constitutes our strength.

It is a great privilege to serve as your Colonel Commandant and I extend my best wishes to all members of the Royal Regiment and their families. Good shooting !

His Honour R.A. Jacobson, CD
Colonel

MESSAGE DU COLONEL COMMANDANT

Le temps est déjà venu de s'arrêter afin de méditer sur une autre année qui vient de s'écouler. Malgré les pressions du public, du gouvernement et des médias pour que le déficit et la dette nationale soient réduits, les attaques menées contre les dépenses liées à la Défense et par conséquent aux Forces armées, les prévisions plutôt pessimistes de différents milieux, le Régiment royal, quoique quelque peu ébranlé, se porte bien. Cela est en grande partie attribuable à l'esprit de famille, à la fierté et à la détermination de nos membres.

J'aimerais profiter de cette occasion pour remercier tous les membres du Régiment royal occupant un poste au sein des unités ou au sein d'autres organisations pour votre loyauté et votre dévouement à notre pays, à l'Armée ainsi qu'à la cause de l'artillerie. Les articles publiés dans cette édition de L'artilleur canadien couvrent la gamme d'activités auxquelles nous avons participé au cours de cette dernière année et témoignent de l'enthousiasme avec lequel vous avez su relever les défis. J'ai eu l'opportunité de constater "l'état de santé" du Régiment royal en visitant plusieurs unités et en discutant avec des officiers supérieurs, des civils et des membres de différentes associations. Il n'y a aucun doute que votre contribution est reconnue et grandement appréciée.

Nous aurons certainement d'autres défis à relever au cours des prochaines années. Je fais appel à votre collaboration et à votre attitude professionnelle afin de maintenir ce front commun qui fait notre force.

C'est un grand privilège pour moi de servir en tant que votre Colonel Commandant et je transmets mes meilleurs vœux à tous les membres du Régiment royal ainsi qu'à leurs familles. Bon tir !

Le colonel
Son honneur R.A. Jacobson, CD



MESSAGE FROM THE DIRECTOR

The Army, and particularly the Royal Regiment of Canadian Artillery, has just witnessed a period of considerable turmoil following the decision to withdraw our forces from Europe. Since that decision, our force development activity with its inherent restrictions of personnel and funding ceilings has led to the design of minimum viable force structures. I believe that the structure that we are putting in place for both our combat functions within a general purpose combat capable army makes sense and should remain relatively stable. Our current efforts are directed towards protecting and improving our general purposes capabilities while minimizing the disturbance to our personnel.

I would like to take this opportunity to reflect on the accomplishments of the past year and to express my appreciation to all members of the Royal Regiment who, one way or another, contributed to the maintenance of our operational effectiveness and to the strengthening of our family ties despite various external pressures. The success of our three Air Defence Total force units (1 AD regiment "L & R Scot" in Pembroke, 18 AD Regiment in Lethbridge and 58 Batterie in Quebec City) is certainly the most tangible positive result. Some of our Field Regiments suffered from an inevitable refinement in the implementation of Total Force but willpower, dedication and good leadership at all levels contributed to the restoration of a "united front". Finally, our participation in various peacekeeping operations, in some cases by formed units and others as individuals, both Regular and Reserve, has been instrumental in the maintenance of our country's pride. All of this would not have been possible without the professionalism and determination of all gunners.

The next few years will continue to challenge our professionalism and dedication. Changes in both the international and domestic strategic environment are to be expected. The Army will need to find new ways to accomplish its mission and all gunners will be called upon to play a part in "managing change" while maintaining a high level of tactical and technical expertise. Regardless, soldiering still provides the individual with a rewarding and challenging career and we encourage each and every one of you to take full advantage of the opportunities available in today's Army especially as part of the unique and distinguished extended family that is the Royal Regiment.

I would be remiss if I didn't acknowledge the excellent work accomplished by gunners employed in various other positions and particularly those who provided me with sound advice and assistance in my duties as Director. I thank the Commander of the Home Station for his support in the production of *The Canadian Gunner* and the Commanding Officer 1 RCHA and his staff for putting together this fine publication.

Colonel J.D. Briscoe, CD
Director of Artillery

MESSAGE DU DIRECTEUR

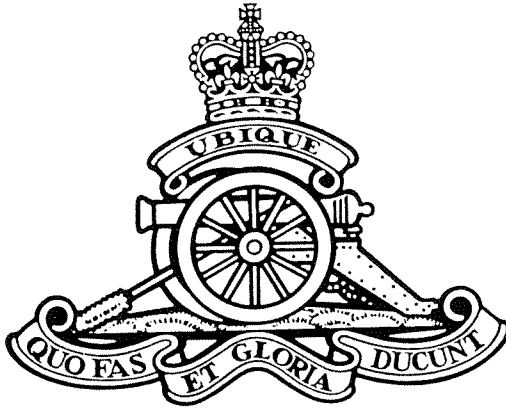
L'Armée, et le Régiment royal de l'artillerie canadienne en particulier, viennent de traverser une période des plus tumultueuses suite au retrait de nos forces d'Europe. Malgré les restrictions budgétaires et les réductions de personnel associés à cette décision, le processus de restructuration des forces a permis la création d'organisations maigres mais viables. Je suis par contre confiant que la structure adoptée est saine et va nous permettre d'exploiter efficacement les deux éléments fonctionnels de l'artillerie au sein d'une Armée polyvalente. Nous cherchons maintenant à protéger et à améliorer autant que possible notre potentiel de combat polyvalent tout en minimisant les perturbations au niveau du personnel.

La publication de *L'Artilleur canadien* nous permet de méditer sur les progrès réalisés au cours de la dernière année. Je tiens à profiter de cette occasion pour exprimer mon appréciation à tous les membres du Régiment royal qui ont contribué d'une façon quelconque au maintien de notre efficacité opérationnelle et au resserrement des liens qui unissent notre famille et ce, en dépit des différentes pressions externes. La formation des trois unités de défense aérienne (1 Régiment DA "L & R Scot" à Pembroke, 18 Régiment DA à Lethbridge et 58 ième Batterie à Québec) constitue certainement la réalisation la plus tangible d'une force totale. Les ajustements requis au plan de mise en oeuvre de la force totale a créé des remous au sein de certains régiments d'artillerie de campagne mais grâce à la bonne volonté, au dévouement et au bon leadership à tous les niveaux nous avons pu restaurer un "front commun". Finalement, la participation des membres de la force régulière et de la Réserve aux missions de maintien de la paix, que ce soit en tant qu'unité ou autres, a contribué à rehausser la fierté nationale des citoyens. Tout ceci n'aurait pu être possible sans le professionnalisme et la détermination de tous les artilleurs.

Des changements au contexte stratégique international ou à la situation domestique risquent fort de nous présenter des défis variés au cours des années à venir. Les artilleurs seront appelés à faire leur part dans le processus de rationalisation des méthodes de travail afin que l'Armée accomplisse sa mission de façon efficace tout en maintenant un haut niveau de compétences techniques et tactiques. Nonobstant ces changements, la profession militaire continuera d'offrir une carrière remplie de défis enrichissants et j'encourage tous les membres de cette grande famille que nous formons, à profiter au maximum des opportunités qui se présenteront.

Je m'en voudrais de ne pas souligner l'excellent travail accompli par les artilleurs occupant différents postes à l'extérieur des unités et particulièrement ceux qui, de l'arrière-scène, me donnent de précieux conseils et m'assistent dans l'accomplissement de mes devoirs de Directeur. Je remercie le Commandant de la Maison-mère pour son appui ainsi que le Commandant du 1 RCHA et son personnel pour le travail associé à la publication de *L'Artilleur canadien*.

Directeur de l'Artillerie
Colonel J.D. Briscoe, CD



ROYAL CANADIAN ARTILLERY

1993 HONOURS & AWARDS



ARTILLERIE ROYALE CANADIENNE

**DÉCORATIONS ET
RÉCOMPENSES 1993**

ORDER OF MILITARY MERIT / ORDRE DU MÉRITE MILITAIRE

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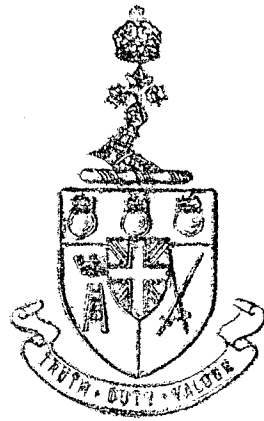
MGen J.A. MacInnis

Officer/Officier

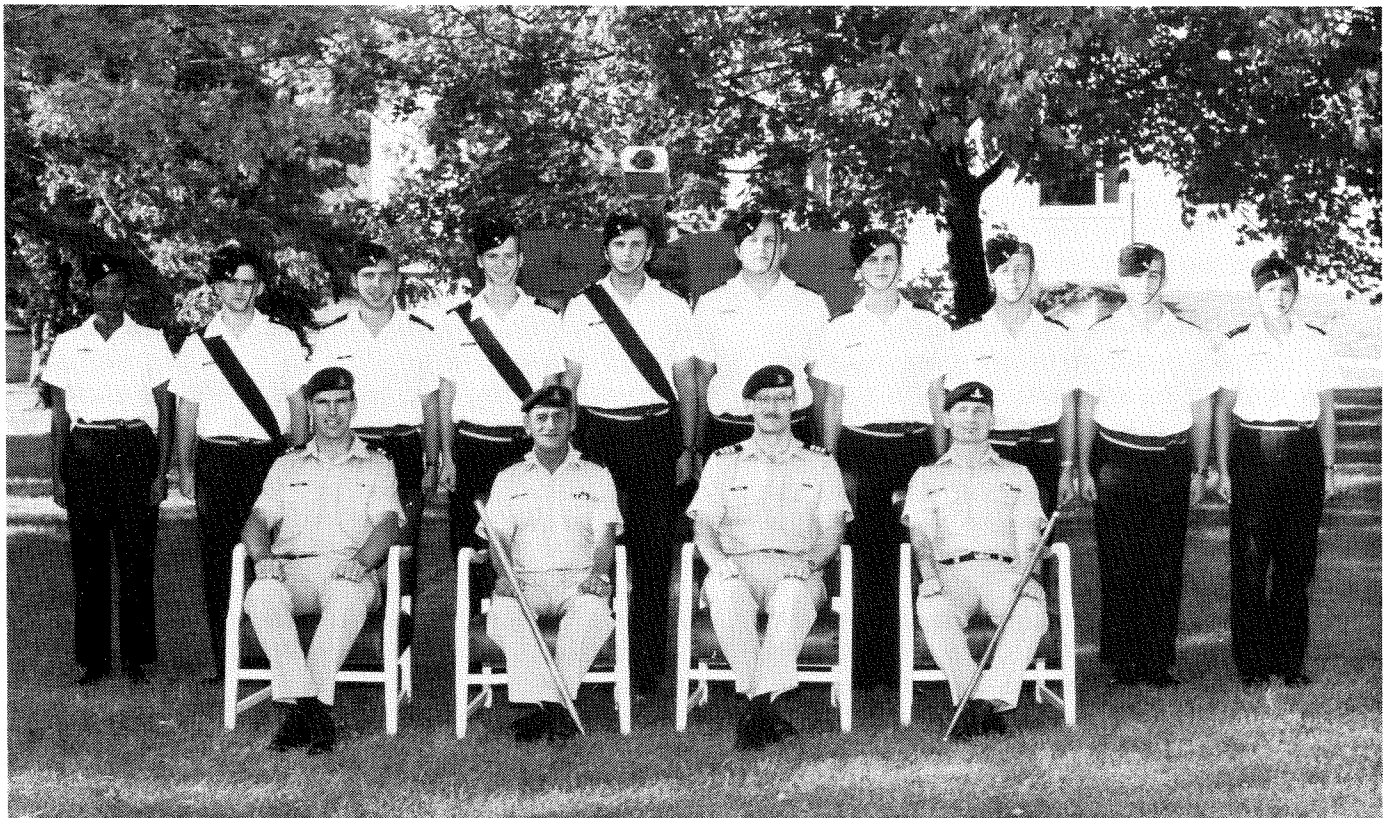
Col C.J. Mialkowski

Member/Membre

Capt J.F.C. Sauvé



THE ROYAL MILITARY COLLEGE OF CANADA



*Front Row L to R: Capt WS Molaski, RSM (CWO) IJ Tripp, MMM CD, LCol JP Culligan, CD, MWO (Mr Gnr) EB Mills, CD.
Second Row L to R: OCdt Robertson, OCdt O'Byrne, OCdt Ivey, OCdt Harding, OCdt Austin, OCdt Antoniewicz, OCdt Bedard,
OCdt White, OCdt Rowe, OCdt McCarthy.*

The Royal Military College of Canada is just five years younger than the Regiment of Canadian Artillery. The College sits on Point Frederick just across the water from Fort Frontenac in the city of Kingston. It is a historic and picturesque setting and one with many connections to the Royal Regiment. Prominent among those connections are the several members of our Regiment who now serve within its confines. Many of you probably think only of the role of the College in the education of young officers prior to commissioning. No doubt our standard sort of

Le Royal Military College of Canada a cinq ans de moins à peine que le Régiment royal de l'Artillerie canadienne. Il est situé sur la pointe Frederick, en face du fort Frontenac à Kingston. C'est un emplacement historique et pittoresque qui a de nombreux liens avec le Régiment royal. Parmi ces liens importants, citons les quelques membres du régiment qui servent maintenant dans ses murs. Nombre d'entre vous ne voient probablement le collège que comme un établissement chargé de former les jeunes officiers avant qu'ils reçoivent leur

article for the Gunner contributes to that misperception for it is usually written by and for Officer Cadets. That is a prime reason why it is being done rather differently this year.

The Gunners at the College range in rank from Master Warrant Officer to Lieutenant-Colonel. Perhaps one day we could also provide one of the Sergeants who form the Drill Staff as well, though we do not just now. Both the College chief Warrant Officer and the Drill Sergeant Major are Gunners. We also have former serving gunners here under subsidized university training plans.

The mission of the college is focused on the conduct of education programs and some military training programs for the Officer Cadets. There are strong programs in Engineering, the Natural Sciences, Humanities and Social Sciences. All undergraduate Officer Cadets are exposed as a matter of policy to a broad education in all these areas. We also conduct graduate programs. Recent Gunner graduates include Lieutenant-Colonel J.G. Fleury and Captain D. Rheault who both completed the Master of Arts in War Studies program in the spring of 1993.

Several things come to mind after a year here. One of them is the keenness and the talent of the young officers. They have lots of both. Another is the dedication and the quality of the faculty and staff of the College. A third is the notion that we as a Regiment can, and indeed must, benefit from the efforts of so many dedicated people military and civil. There are many in the academic world who are doing work that is of value to us and we must stay abreast of it. We must all remember the need to progress.

There are 15 Gunner Officer Cadets here at the college spread throughout the four years of the program. One has difficulty maintaining a regimental feeling in an institution where people are not in contact regularly for their course programs take them to all the faculties of the college. However, we have managed a couple of social events during the year including a pleasant evening on the occasion of St. Barbara's Day when the commandant, Brigadier-General M. Matte, joined us. We were able to welcome, as well, Brigadier-General (Ret'd) W.W. Turner and other Gunners from around the Kingston area and from as far away as Gagetown. Our thanks to the DSM, Master Warrant Officer Mills for all his efforts organizing the evening for us.

All those who were on summer training in 1993 found it a challenge both physically and mentally. One, who shall remain nameless, reports that after eight weeks of training his course managed to find an area where no one had ever deployed before. "The DS concluded that we were either years ahead of our time or had absolutely no idea what we were doing." We have all had those days, guys! It was a hard but good summer for all with heatstroke, hypothermia, swamps, mosquitoes, and early morning PT all encountered at one point or another. There was a lot

commission. Il ne fait aucun doute que les articles habituels qui paraissent dans l'Artilleur renforcent cette fausse perception, car ils sont d'ordinaire écrits par des élèves-officiers, pour des élèves-officiers. C'est une des raisons principales pour lesquelles nous procédons différemment cette année.

Les artilleurs du collège vont du grade d'adjudant-maître à celui de lieutenant-colonel. Peut-être qu'un jour pourrons-nous aussi fournir un des sergents qui enseigne l'exercice, mais pour l'instant ce n'est pas le cas. L'adjudant-chef du collège et le sergent-major instructeur sont tous deux des artilleurs. De plus, d'anciens artilleurs sont ici maintenant en vertu de programmes de formation universitaire subventionnés.

Le collège a pour mission d'éduquer les élèves-officiers et de leur donner une certaine formation militaire. Il offre de solides programmes en génie, en sciences, en humanités et en sciences sociales. Tous les étudiants de premier cycle reçoivent, en règle générale, une vaste éducation dans tous ces domaines. Le collège a aussi des programmes d'études supérieures, et c'est ainsi que le lieutenant-colonel J.G. Fleury et le capitaine D. Rhéault, tous deux versés dans l'artillerie, ont obtenu la maîtrise ès arts en études sur la conduite de la guerre, au printemps de 1993.

Plusieurs choses viennent à l'esprit au bout d'un an. L'une d'elles est l'enthousiasme et le talent des jeunes officiers. Et de fait, ce n'est pas ce qui manque. Une autre est le dévouement et la qualité des professeurs et du personnel du collège. La troisième est l'idée que nous pouvons, et que nous devons, en tant que régiment, tirer profit des efforts de tant de personnes dévouées, qu'elles soient militaires ou civiles.

Nombreux sont ceux qui, dans le milieu universitaire, font du travail précieux pour nous, et nous devons rester à la hauteur. Nous ne devons pas oublier la nécessité de progresser.

Le collège compte 15 élèves-officiers artilleurs répartis dans les quatre promotions. Il est donc difficile d'entretenir le sentiment d'appartenance au régiment dans un établissement où les étudiants ne se rencontrent pas régulièrement parce qu'ils sont dispersés dans toutes les divisions du collège. Mais nous avons réussi à organiser deux ou trois réunions dans le courant de l'année, dont une soirée agréable pour célébrer la Sainte-Barbe, à laquelle a participé le commandant, le bgén M. Matte. Nous avons pu aussi être les hôtes du bgén (à la retraite) W.W. Turner et d'autres artilleurs venus de la région de Kingston et d'aussi loin que Gagetown. Nous adressons nos remerciements à l'adjm Mills, SMI, qui a organisé cette soirée en notre nom.

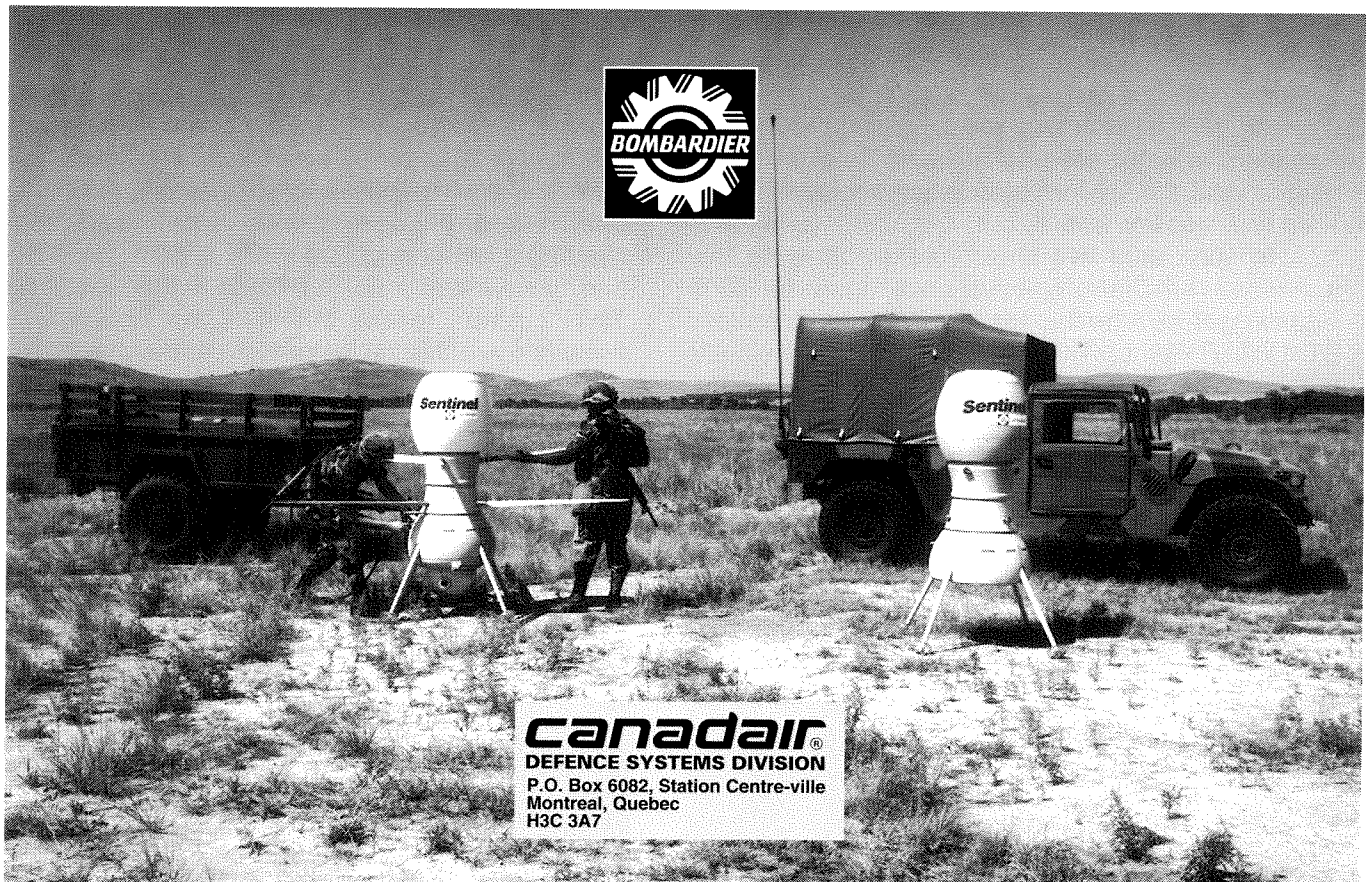
Tous ceux qui ont suivi l'instruction d'été de 1993 l'ont trouvée difficile, tant du point de vue physique que du point de vue mental. L'un d'eux, que nous ne nommerons pas, raconte qu'au bout de huit semaines

of good training and friendly competition as well. In that hardship there were forged new bonds of friendship which will not be forgotten.

Those of you who have children approaching university may want to think about "the College" as one way of pursuing post-secondary education. There is a job at the end of the program. The calibre of education is second to none and we serve Canada while pursuing it.

d'entraînement, sa classe a réussi à trouver un endroit où personne ne s'était jamais déployé auparavant. «Le directeur en a conclu soit que nous étions des années en avance sur notre temps, soit que nous n'avions pas la moindre idée de ce que nous faisons.» Eh! on a tous connu des jours comme ça, les gars! C'était un été difficile, mais intéressant, malgré les coups de soleil, l'hypothermie, les marécages, les moustiques et l'éducation physique à l'aurore, auxquels nul n'a échappé. L'entraînement était souvent bon, et la compétition, amicale. C'est dans cette épreuve que se sont nouées de nouvelles amitiés qui ne s'oublieront pas.

Si vous avez des enfants en âge d'entrer à l'université, rappelez-vous que le collège est un des endroits où l'on peut faire des études post-secondaires. Et il y a du travail à la fin du programme. L'éducation qu'on y dispense est sans pareille, et nous servons le Canada tout en poursuivant nos études.





1ST REGIMENT ROYAL CANADIAN HORSE ARTILLERY

1 RCHA: 1993 IN REVIEW

The year 1993 will be remembered as one of many challenges for 1 RCHA. Upon completion of a very successful OP SNOWGOOSE tour in Cyprus last February, the newly designated 1 RCHA wasted no time or effort preparing for the first live fire exercise in close to a year. EX LIMBER GUNNER, conducted in March, was doubly challenging for the Regiment as the gunners had to quickly refresh their shooting skills as well as adapt to the recently received Gun Alignment and Control System (GACS). In addition to these obstacles, the soldiers had to quickly acclimatize themselves to the colder temperatures (winters here are just slightly chillier than those in Cyprus!). Once under way, the exercise practised the Regiment in basic fire and movement on the Shilo ranges, and the level of proficiency achieved in the short time was impressive.

In May, only two short weeks following the exercise, 1 RCHA deployed once again for CFB Wainwright in Alberta, for the Brigade exercise, STALWART RAM. This exercise provided a steady progression in training from LIMBER GUNNER as the Regiment was now involved in combat team attacks and battle group operations. Having successfully

completed the transformation from UN peacekeeping force to a fully functioning combat arms unit, the Regiment returned to Shilo in early June and immediately began preparations for the 1 RCHA Family Day to be held on the 11th. The event gave the soldiers the opportunity to show off their skills to family and friends through live fire demonstrations, static displays and APC rides.

On July 12, the Regiment celebrated once more with a Change of Command parade as we bid a fond farewell to LCol Mike Capstick and welcomed the second Leslie to command 1 RCHA. LCol Andrew Leslie quickly established aggressive training and fitness policies for the Regiment, all of which emphasize the necessity for realism in the field and a heightened level of basic soldier skills for all ranks. Field training was increased to feature a minimum of one three-day Regimental exercise each month, alternating between gunnery (EX QUICK THUNDER) and basic infantry (EX LIMBER FOOT) exercises. The common theme between the two types of exercises was digging, patrolling and more digging. In celebration of this theme, each and every member of the Regiment became the happy recipient of a brand new entrenching tool.



Sgt Reid, A Bty, takes a moment to pause between fire missions during EX STALWART RAM.



35B detachment prepares for action.

In August, each battery undertook its own adventure training, some of which included watermanship in areas such as Duck Mountain Provincial Park and Lake-of-the-Prairies. A Battery canoed on the Assiniboine River on a three-day, 100 km trip from Treesbank to Holland, Manitoba.

In Early September, the focus of training was on Internal Security and on the evening of the 8th, the Regiment was called out for EX RIGID STANCE. Members from Shilo's base-side, acting as a belligerent force, aided in providing a realistic scenario which exercised the gunners' capabilities in performing various Aid to Civil Power roles. The 1 RCHA security forces encountered such incidents as

road blocks and hostage takings, conducted a cordon and search, negotiated with belligerents and exercised crowd control. The exercise proved to be very constructive in indicating potential strengths and weaknesses in the different aspects of operations should the need for civil aid ever arise.

On September 25, 1 RCHA joined CFB Shilo and the German Army Training Establishment (GATES) as they observed 20 years of German Army training in Shilo. A parade was conducted, honouring the 10 year renewal of the agreement. Armed Forces Day was celebrated simultaneously and the Regiment participated in the live firepower, parachute, rappelling and static displays at King OP. Once again, the



Best Wishes
to the Officers,
NCO's and
Soldiers of "The
Royal Regiment
of Canadian
Artillery"

Mayor Rick Borotsik and
Members of Council



Bdr Gosse assists a future gunner on the GPMG on 1 RCHA Family Day.

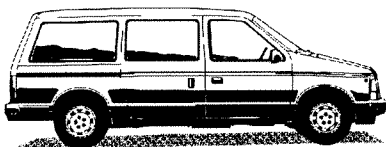
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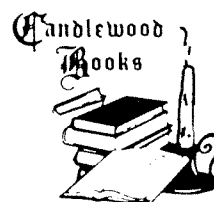
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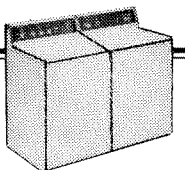
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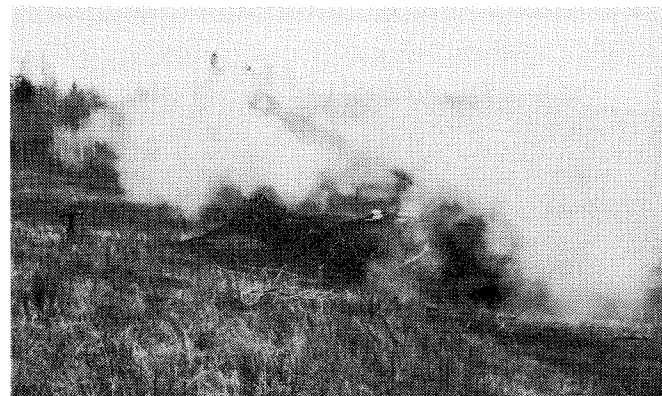
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gunners of '1 Horse' demonstrated their abilities with a Gun Run and a Quick Action display. The following week saw us back in the field with the first EX LIMBER FOOT taking place at the various rifle ranges. The soldiers were tested on their personal weapons in order to qualify to the Infantry Personal Weapons Test Level 2 and patrol skills. A high success rate was achieved, with well over one hundred attaining the level of Marksman. It was also during this month that 1 RCHA began receiving its new guns. Six newly rebuilt M109 self-propelled howitzers were received by December with the remaining two scheduled to arrive in the new year.

With October came Regimental School, and



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many of the gunners acquired new qualifications via the many courses conducted including Basic Tech, Arty Comms, Detachment 2 I/C, FOO Tech and a variety of Driver courses. CPR/First Aid training was introduced and the entire Regiment was instructed on several life-saving techniques. This training proved to be extremely effective indeed as two of our soldiers came to a man's rescue after he suffered a heart attack at a shopping mall in Brandon. Bdrs George Davis and Joel Langley were credited with saving the man's (a WW II veteran of 1 RCHA visiting from BC) life through the use of CPR. By the month's end, many of the Regimental School students were also able to test their new skills during the live fire exercise



The CO discusses trench construction and range cards with WO Bode and a couple of signallers during EX QUICK THUNDER II.

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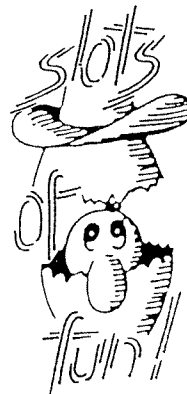
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QUICK THUNDER 9302 which was a very intensive Regimental exercise focusing on fire and movement and local defence (and yet more digging!). In addition to all of this activity, a mortar troop was organized and intensive training began in the hopes of being sent to Bosnia next spring.

Since the opening of the Trans-Canada Highway in 1962, the Home Station's Regiment has provided an artillery presence in Rogers' Pass, BC, performing avalanche control. The first detachment for AVCON 93/94 left in early November for a six-week tour, taking



LCol Capstick presents the CO's pennant. From L to R: LCol Capstick, BGen Ashton, Col Jacobsen, LCol Leslie.

with it several reservists from across Canada in support of the Total Force concept. November's training was concluded with EX LIMBER FOOT 9302, during which emphasis was placed on live-fire section attacks, advances to contact and patrolling.

Regimental School was completed on 9 December, and on the following day the Regiment celebrated the upcoming holidays with a Christmas dinner and parade, on which many of our members received their Special Service Medal. This seemed a fitting conclusion to a very productive, albeit very busy



A section from C Bty preparing to assist in negotiating the removal of a barricade during internal security EX RIGID STANCE.

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year. Our unit has witnessed many important changes, from the redesignation of the Regiment from 3 RCHA to 1 RCHA to the retirement of our RSM, CWO W.W. Noseworthy, and the arrival of CWO N.D. Walker. Along with our updated equipment we gained new skills and new attitudes towards fitness and training. On a much broader scale, changes in policy have given us new insight and views on our role in the military. It will be interesting to see what '94 has in store for us. Ubique.



Gnr Holmes loading 25B during EX QUICK THUNDER II.



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1993 saw 2 RCHA facing many new challenges ahead. The highlight of the year was the Regiment's deployment to Cyprus on OP SNOWGOOSE 59, the final Canadian contingent to UNFICYP. The Regiment continued the Canadian tradition of peacekeeping to the highest standard. As well, 2 RCHA was responsible for the close-out of the Canadian commitment and the handover of Sector Three to our British and Austrian counterparts. On redeployment to Canada in June, the Regiment began the transition

from a Light Artillery Regiment, to a Mechanized Regiment of two M109 batteries and one towed 105mm battery supported by a headquarters battery. The year also witnessed the final airborne deployment of the L5 Pack Howitzer as E Battery (para) re-roled to an M109 battery. The varied tasks and challenges faced by the Regiment in 1993 once again demonstrated the flexibility and dedication required to soldier in 2 RCHA.

January saw the Regiment reorganized into Rural, City, Adm and Ops Battery in preparation for



2 RCHA soldiers preparing to depart for UN duty.

deployment to Cyprus on Op SNOWGOOSE 59. Although 2 RCHA was to embark on a peacekeeping operation, the basic elements of a soldier's skill remained the same. Training was conducted in small arms, NBCW, negotiation skills, riot control tactics, and first-aid. This training culminated in a three-day exercise that saw the Mattawa Plain and parts of CFB Petawawa converted into the United Nations Buffer Zone. Various incidents ensued which required all levels of the chain of command to respond and take appropriate action. This training proved to be very beneficial as a great many lessons were learned.

As preparations for Cyprus were ongoing, several members of the Regiment were preparing to



deploy with the Airborne Regiment on OP DELIVERANCE to Somalia. 2 RCHA's contribution included a fire support coordination centre, and two forward observation parties. Apart from losing a Bison vehicle to an anti-tank mine, the contribution of our soldiers greatly assisted in the success of the mission.

February began with one week of embarkation leave for soldiers to make up for lost time yet to come. Final preparations were made and the advance party departed the Petawawa deep freeze almost without incident on 8 February. While enroute to Canadian Forces Base Uplands, contemplating the possible dangers which lay ahead, we were initiated to the everyday squeal of tires, honking of horns, and

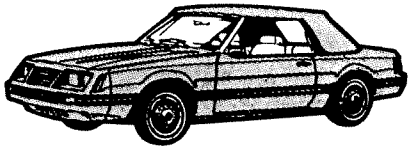


General Salute during the lowering of the Canadian Flag for the last time in Cyprus.

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crashing of metal, which would be common place on Cypriot roads. The end result was increased business for the local tow trucking company.

After a short delay and continuing on our way, the first soldiers of 2 RCHA touched down at the Limassol Airport. We were greeted with a warm welcome by our fellow gunners from 1 RCHA and before long, the members of the Regiments were sitting in the messes reminiscing about old war stories. The next two weeks were busy conducting the official handover as 2 RCHA prepared to take responsibility for Sector Three. The days saw our soldiers occupying their respective observation posts as they quickly became familiar with their area of the buffer



LCol Swan, Commander of CANCON handing the Canadian Flag over to Major General W.B. Vernon, Commander of LFCA

zone. With the majority of the troops in theatre, 19 February saw the Regiment officially take responsibility for operations in Sector Three. As is normally the case, the Opposing Forces increased their levels of activity in an effort to test the soldiers of 2 RCHA. The soldiers on the line were well prepared and extremely vigilant in ensuring the status quo was maintained. This resulted in a decrease in the number of incidents and set the tone for the rest of our tour.

The troops quickly adapted to life on "The Line", Ledra Palace, Blue Beret Camp, and even Camp Berger, the jewel of the Lourajina pocket. The schedule permitted the soldiers with time to take full advantage of the recreational activities found on a



Carrying out a tour of a line house during the handover period.

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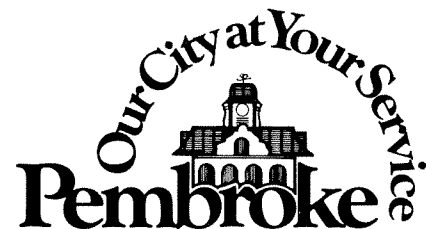
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Mediterranean island. These ranged from scuba diving off Capt Greco, to skydiving, to sight-seeing at Ayia Napa. Many took the opportunity to visit other countries such as Israel and Egypt. Shopping became a past time as the families of the soldiers arrived to join them for their UN leave. Nevertheless, our focus continued to be maintaining the status quo of Sector



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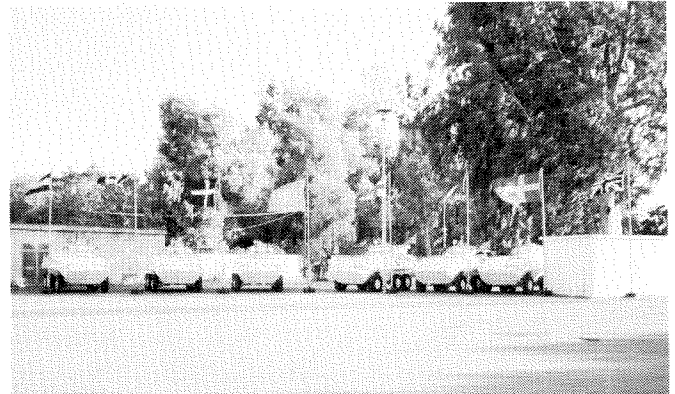
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"Zero, this is Two, SHOT REP prepare to copy" was an often familiar transmission from the Line Batteries. OP SNOWGOOSE 59 did not differ from the many previous Canadian rotations. There were many incidents which required the intervention and negotiation of our soldiers to arrive at a solution acceptable to both Opposing Forces. However, the many incidents that occurred during our tour paled in comparison to the volatile situation which developed when a Turkish soldier shot and killed a Greek soldier in the UN buffer zone in the area of Ortona House. The quick reaction of several soldiers in Rural Battery, though unsuccessful in saving the soldier's life,



Force Reserve on the close out parade OP SNOWGOOSE 59.



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stabilized the immediate situation until negotiations could be carried out. After several days of tension, the line returned to somewhat normal routine.

2 RCHA was honoured with several visits during our tour. The Chief of Defence Staff travelled to Cyprus where he toured the buffer zone visiting the soldiers of the Regiment. Admiral Anderson addressed the officers and senior NCOs to enlighten us on Canada's expectation of their peacekeepers abroad. The Regiment was also privileged to host Brigadier General E.B. Beno, Commander of the Special Service Force in Petawawa, and Colonel R.A. Jacobson, Colonel Commandant of the Royal Regiment of Canadian Artillery.

One of the final tasks faced by the Regiment in Cyprus was that of the close-out ceremonies as the final Canadian contingent to UNFICYP. 2 RCHA conducted a formal parade at the Ledra Palace which was attended by many guests who had dealt with CANCON throughout their thirty years of dedicated service to peace. The Reviewing Officer was Major-General W.B. Vernon, Commander of Land Forces Central Area. Upon completion of the sunset ceremonies, the Canadian Flag was lowered for the last time. As of 15 June 1993, responsibility for Sector Three passed to the Austrian and British Contingents.

The Regiment commenced redeployment to Canada on 16 June with the majority of the unit back in Petawawa by the end of the month. The last

soldiers to return to Canada departed Cyprus in September. These soldiers were members of Administration Battery which was responsible for the administrative close down of CANCON. On arrival in Petawawa, the Regiment embarked on a well deserved block leave.



Bdr Smith W.W. during the Basic Artillery Technician Course 9301.

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With the Regiment back from block leave, we turned our attention to the task of reorganization to a mechanized regiment. As a result of the reorganization, E Battery (Para) was to lose its airborne role on 1 October 1993. To commemorate twenty five years of indirect fire support to the Airborne Regiment, E Battery (Para) conducted a final jump/fire power demonstration on September 3rd 1993. Although the weather was less than perfect, the event was well attended. The demonstration consisted of an airmobile deployment of three L5 pack howitzers followed by an air drop of the remaining three guns and approximately seventy personnel. The Battery also deployed one mortar group and together with the six guns of the Battery, conducted a fire power demonstration. The air defence soldiers of G Troop also participated, deploying the Javelin air defence missile system. The deployment aptly demonstrated the unique capabilities of Airborne Gunners. MWO (retired) Willet, the first Battery Sergeant Major of 1 Airborne Battery fired the last round for E Battery (Para).

The reorganization of the Regiment resulted in a change in unit affiliations. While D Battery continued to support the Royal Canadian Dragoons, E Battery now supported the 1st Battalion The Royal Canadian Regiment, and F Battery readily accepted the task of supporting the Airborne Regiment. As the Airborne Regiment became Canada's commitment to the ACE Mobile Force (Land), F Battery assumed the artillery AMF(L) task.

September saw the commencement of Regimental School. Several courses were conducted including the Pre-Combat Leaders Course, Basic Artillery Technician and Communications Courses. All the courses culminated in exercise SPARTAN GUN, a live fire exercise conducted to confirm the skills taught during regimental school.

Throughout the months of October and November, 2 RCHA was busy training its soldiers to meet the combat readiness standard set forth in the "Warrior", a Land Forces Central Area Publication. This manual contains the essentials of combat survival which must be mastered by the soldiers of LFCA. This training will no doubt serve us all well as LFCA continues to deploy units on various peacekeeping missions throughout the world.

December left little time to relax as 2 RCHA was responsible for organizing and conducting Exercise PROUD FLAG, a Brigade level command post exercise. The aim of PROUD FLAG was to exercise the brigade staff in brigade operations. As it ended the Regiment was into the Christmas Season, and yet another well deserved break.

As 1993 drew to a close, the members of 2 RCHA had time to reflect on what can be best described as both a demanding and challenging year. This feeling was no doubt shared by the families of our soldiers. We look forward to 1994 and the challenges that lie ahead.



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5e REGIMENT D'ARTILLERIE LEGERE DU CANADA

RETROSPECTIVE 1993

1993 a été une année très mouvementée pour le 5e Régiment d'artillerie légère du Canada. Le régiment a relevé plusieurs défis à travers l'entraînement, les exercices, les tâches, les opérations et les compétitions. En revenant du congé des Fêtes, le régiment s'est concentré sur l'entraînement pour les jeux d'hiver de la brigade. Même après un entraînement très rigoureux, le 5e



Participant à l'OP CAVALIER, les bdr Lanthier, Aspirot, Faucher et Gagné posent fièrement devant leur M113 à Sirac (Croatie) en ex-Yougoslavie.



Nous voyons les bdr Perron et Issa et l'adj Pinard en exécution lors des jeux d'hiver du 5e GBMC 1993.

RALC s'est classé 5e dans la brigade avec une bonne performance malgré tout. Par la suite, ce fut les préparatifs d'exercice, l'aguerrissement hivernal et l'EX RAFALE BLANCHE conduit dans les secteurs de la BFC Valcartier du 30 janvier au 3 février. Au même moment la batterie X débutait une série d'entraînement pour le Groupe de Soutien du Contingent Canadien (GSCC) qui se déployait en ex-Yougoslavie.

Immédiatement après l'exercice, les préparatifs pour l'inspection technique annuelle (ITA) se sont intensifiés et les équipes d'entretien ont été augmentées. L'ITA s'est bien déroulée et le régiment s'en est bien tiré. L'école de ski régimentaire tenue à la fin février fut un succès. Plusieurs adeptes se sont perfectionnés alors que d'autres se sont initiés à une nouvelle activité. L'inspection du Général Commandant a suivi et peu après le régiment se déployait à Gagetown pour un exercice de tir réel du 22 mars au 7 avril.

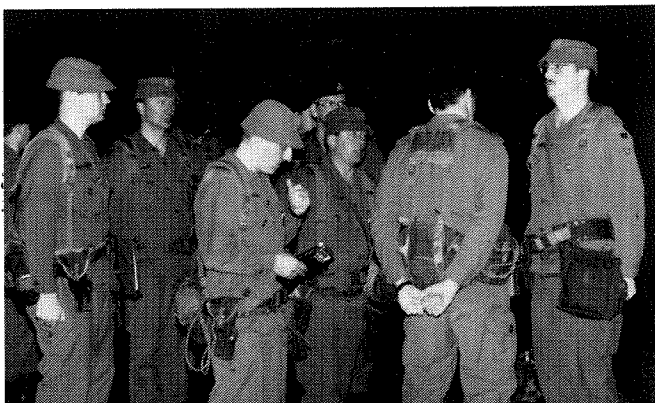
L'exercice PIECE MOBILE s'est très bien déroulé et l'ancien commandant, le lcol Couture, fut très satisfait de son dernier exercice de tir réel. Ce dernier a su garder les batteries sur le qui-vive jusqu'à



Le travail accompli se voit par le sourire satisfait des participants de la course des grades du 5e RALC lors des jeux d'hiver.

la fin. Peu après, l'entraînement pour le GSCC reprenait à nouveau, encore sous la responsabilité de la batterie X. La batterie Q se déployait à Connaught pour la qualification annuelle sur les armes légères et la batterie R conduisait la compétition de tir annuelle de la brigade.

Cette année marquait le 25^e anniversaire du régiment. Une série impressionnante d'événements se sont succédés à un rythme effréné. Le tout a débuté le 6 mai, date de notre anniversaire, avec la dédicace de notre quartier général au nom de "Caserne Col J.P. Bouvette CD". Cette dédicace fut soulignée par 25 coups de canon, le 25^e tiré par un



L'adjm Moretti répond aux questions du bgén Dallaire en compagnie du lcol Couture et du maj Magnan durant l'inspection du gén cmdt du 5^e GBMC.

détachement d'élite, le Bgén (R) R.P. Beaudry, le Bgén R.A. Dallaire, le lcol A. Couture et l'Adjuc M. Dumont.

Une grande soirée régimentaire fut tenue le 22 mai. Plus de 730 convives, membres et ex-membres du 5^e RALC, se sont rappelés de vieux souvenirs tout en dégustant un superbe MECHOUI. Le Dr. Jacques Castonguay en a profité pour effectuer le lancement du livre commémorant les 25 premières années du régiment.

Les 24 et 25 juin furent hautes en couleurs. Une



Chevauchant les années fiscales, rien de mieux qu'un entraînement du printemps (EX PIECE MOBILE) à Gagetown pour se préparer pour l'été. Là, le sgt Boyer passe ses directives aux membres de sa pièce (réguliers et réservistes).

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parade du Droit de Cité Régimentaire dans la ville de Québec a précédé le bal régimentaire au Manège militaire de la Grande Allée au centre de la ville de Québec.

Juin a donné place aux changements de commandement des batteries X (le major Pierre Beauséjour) et Q (le major Serge Jean), et à celui du régiment avec l'arrivée du lcol J.G. Fleury. La batterie R pour sa part s'acçairait aux nombreuses salves d'honneur à travers la brigade et la région de Québec.

Les tâches estivales furent nombreuses et plusieurs d'entre nous ont dû sacrifier leur congé d'été pour supporter la réserve, les cadets et l'école d'artillerie à la BFC Gagetown.



Le bdr Lamarre et le bdr Mena-Orostequi se font donner quelques instructions lors d'un exercice.

Le régiment se déploie avec deux batteries et le régiment d'artillerie du Secteur Québec à Gagetown en août pour l'EX NOBLE LION. Au même moment nous recevons la tâche de déployer un peloton de mortier avec le Groupement Tactique du 12e Régiment Blindé du Canada en ex-Yougoslavie, trente chauffeurs TTB avec le Groupement Tactique du 1 R22eR et une quinzaine d'individus sur GSCC. La batterie R fut choisie pour préparer le peloton de mortier et débuta l'entraînement à Gagetown pour le terminer à Valcartier en septembre. Quelques 40 membres furent qualifiés sur le mortier de 81 mm. La batterie X poursuivait la série d'entraînement pour les divers groupes de GSCC. Le peloton de mortier et les

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autres membres du régiment partaient au début novembre pour l'ex-Yougoslavie. Peu après, l'école régimentaire prenait place avec les cours de technicien de base, communicateur et technicien au poste d'observation.

La batterie Q, augmentée avec du personnel du QGET et de la réserve, s'affairait aux préparatifs et à

l'entraînement hivernal pour l'EX LANterne NORDIQUE qui s'est tenue à Clyde River du 28 octobre au 21 novembre. Ce fut une expérience

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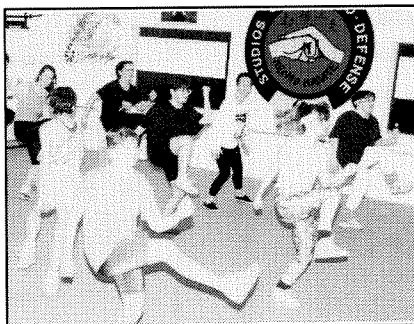


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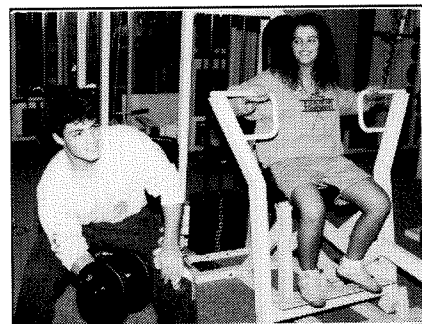
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Mme Bouvette regarde sous un oeil attentif le bgén (R) Beaudry dévoiler la plaque commémorative de la Caserne Colonel J.P. Bouvette CD, le 6 mai 1993.



Le gâteau de la soirée régimentaire du 22 mars 1993. Col (R) F.A. Bussièrès, premier cmdt A du 5e RAIC effectue la coupe.

unique et très enrichissante pour tous. A la fin novembre, l'EX BOMBARDE BORDEE est venu clôturer l'école régimentaire en qualifiant les candidats par le tir réel et en permettant aux batteries X et Q de renouer avec leur rôle premier: le tir d'artillerie.

En décembre, plusieurs activités ont pris place dont les Fêtes de la Sainte-Barbe, avec le 5e



Durant la dédicace de la Caserne Colonel J.P. Bouvette CD, un salve de 25 coups de canons a été effectuée.

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Le 5 juin 1993, une rue au nom du 5e Régiment d'artillerie a été nommée en l'honneur du 5e RALC pour souligner notre présence durant la crise d'Oka en 1990. Le maire de Blainville, M. Paul Mercier, se prépare à couper le ruban en compagnie du Icol Couture.

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Une fois de plus, le 5e RALC exerçait son Droit de Cité pour la 10e année consécutive. En 1993, le Maire de la ville de Québec, M. L'Allier, inspectait la troupe.



Le Icol Couture inspecte ses troupes une dernière fois durant le changement de commandement le 25 juin 1993. Le Icol Fleury accompagne notre colonel commandant.

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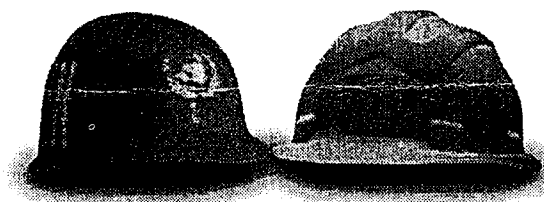
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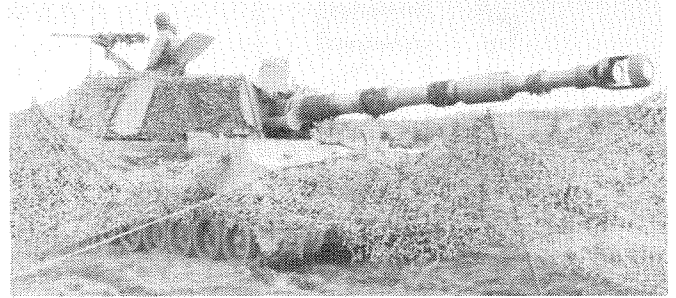
Le 5e RALC est fier de ses réussites durant



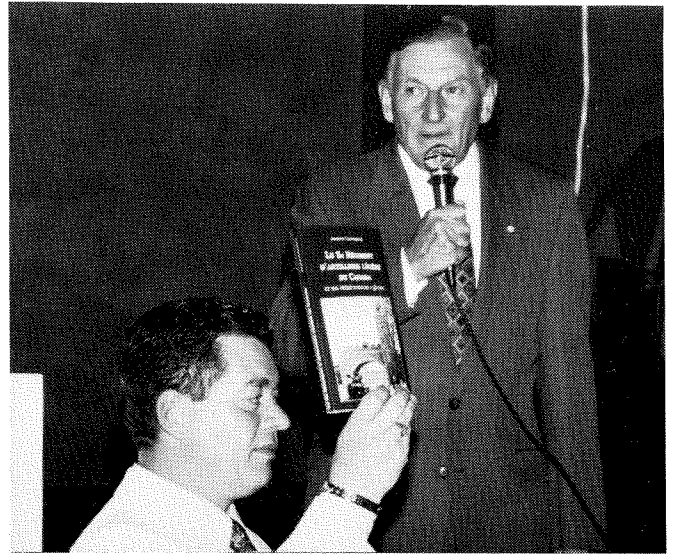
Le changement de commandement officiel se fait sous les regards attentifs du bgén Dallaire et du col cmdt le col Jacobson.



l'année 1993 et envisage avec enthousiasme et confiance cette nouvelle année qui nous apportera sûrement de nouveaux défis à relever.



Une des pièces en action du 5e RALC faisant partie du Régiment d'Artillerie Secteur Québec (RASQ) en août 1993 à Gagetown.



Le Dr. Jacques Castonguay présente le livre du 25e anniversaire en présence du Icol Couture.

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
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La Ste-Barbara était une fois de plus célébrée en compagnie du 5e RGC. Le 1col Fleury présente en guise de cadeau une cloche au cmdt par intérim, le capt Goudreau.



En présence des femmes du 5e RALC, le brigadier Rhoulstone visitait le régiment cet automne.




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3RD FIELD REGIMENT ROYAL CANADIAN ARTILLERY THE LOYAL COMPANY – 200 YEARS LOYAL

INTRODUCTION

As we entered our 200th year of loyal service to the guns, the Regiment was filled with apprehension and eagerness. We finally entered our Bicentennial after years of planning and preparation. This year saw the Regiment schedule many commemorative events in the Saint John and Woodstock areas. The celebrations were intertwined in the Regiment's busy training schedule. We hope that the following narrative will provide some insight as to the Regiment's busy schedule during such a special occasion.

BICENTENNIAL CELEBRATIONS

The prelude to our celebrations took place in November 1992 with the opening of the Remembrance Day exhibit, with six former Commanding Officers of the Regiment, at the Aitken Bicentennial Exhibition Centre.

Our Bicentennial celebrations began with a New Year's Eve Ball at the Barrack Green Armoury. The Colonel Commandant, Royal Regiment of Canadian Artillery, Colonel, the Honourable, Judge R.A. Jacobson, CD was the guest of honour. Our regimental print, "200 Years Loyal" was presented to the Colonel Commandant. At noon on January 1, a 21 gun salute was fired from the Barrack Green to begin the year's 200 round salute. A reception was held in the Officer's Mess.

On April 30, the two honorary Colonels, Colonel Turnbull and Lieutenant-Colonel McKelvey, and the gunner members of the Byng Boys Club, hosted a dinner for unit officers at the Byng Boys club. The Master Gunner of St. James Park was the guest of honour.

On 1 May, the City of Saint John presented replica Colours to the Regiment in a colourful ceremony at Saint John Stone Church, where our original colours are deposited. Mayor Wayne was presented with a Regimental print and was made a

Honourary Gunner. The unit wore, for the first time on parade, the replica uniforms of the 1866 period.

The Master Gunner of St James Park, General Sir Martin Farndale, KCB was the Reviewing Officer for the Regiment's exercise of the Freedom of the City parade that afternoon. The Master Gunner brought greetings from our Captain General, Her Majesty Queen Elizabeth II. Greetings were also received from Prime Minister Brian Mulroney and Premier Frank McKenna. The Master Gunner also presented the Canadian Forces Decoration and the Canada 125 Medal to members of the Regiment.

The annual Loyalist Ball was held at the Barrack Green Armoury on the evening of 1 May, again with the Master Gunner in attendance. Our member of Parliament, the Honourable Lieutenant-Colonel Gerry Merrithew, PC, CD, presented Canada 125 commemorative medals to our Commanding Officer and to retired Chief Warrant Officer Stick Holtom.

On our birthday, May 4, both batteries fired salutes in their home communities. The 115 Battery saluting troop was inspected by retired Major Buzz Devenne, who served the Regiment from 1926 to 1962. The 89th Battery planted a commemorative tree in Woodstock. Both Batteries held birthday parties in their respective messes that evening.

The Regiment continued with the traditional firing of the 18 May Loyalist Day salute from Fort Howe. The saluting troop was inspected by our Honourary Lieutenant-Colonel, Neil McKelvey, and the President of the United Empire Loyalist Society, Elizabeth Hoyt-Prescott, whose father served with the Regiment during World War One. 115 Battery planted a commemorative tree in Queen's Square, Saint John, on 20 May.

The Regiment marked its close ties with the town of Woodstock with a reunion weekend from 4-6 Jun. On the evening of the 4th, current and former members of 89th Battery attended a meet and greet in the armoury mess. On the 5th, Mayor Clara Moffatt

presented the Freedom of the Town to the Regiment on behalf of the Council and Citizens. The Regiment gave a 13 round General Salute for Major General Frederick Mariage, Chief of Reserves, who then inspected the Regiment. The Regiment then exercised for the first time its new Freedom of the Town of Woodstock.

That evening, the Regiment and former members of 89th Battery in Woodstock held a Special Guest night at the Knights of Columbus Hall. The Regimental Band provided music, as it had for the two previous functions earlier in the year.

Sunday, June 6 marked a special anniversary in the history of the 89th Battery and the Regiment. To mark the 49th anniversary of D Day, when several former members of the Regiment landed in France, a church parade was held at St. Luke's Anglican Church. Following the parade, a plaque was unveiled on the Woodstock Armoury commemorating the Regiment's bicentennial.

The highlight of the weekend was the renaming of the Armoury after Major John Douglas Winslow, MC, a prominent Woodstock businessman who went overseas with the 65th Overseas Battery in 1917. After seeing active service in France, Major Winslow was sent to North Russia where he was awarded the Military Cross and the Order of St. Ann for his brave conduct in the field. The Winslow plaque was unveiled by his son, with his mother in attendance. Following the renaming of the Armoury, a 9 pounder gun detachment gave a demonstration and fired a hourly gun at King's Square.

On the weekend of August 19-22, the Regiment held a reunion in Saint John. On Thursday evening, the 19th, registration took place with many old friendships being rekindled and tall tales being retold. Friday began with tours of local military sites. That evening saw the first of the units main events, a sunset ceremony and mini tattoo. The Guest of Honour for Friday's events was the Acting commander land Forces Atlantic Area, Brigadier General A.R. MacDonald. Following this ceremony, there was a small reception held in the armouries with a display of Regimental memorabilia and artifacts.

At King's Square the next day a grand parade was put on by the Regiment and its former members for his Excellency the Right Honourable Ramon J. Hnatyshyn P.C., C.C., C.M.M., C.D., Q.C., Governor General and Commander-in-Chief of Canada. The Governor General inspected the Regiment and presented several C.D. medals to the members of the Regiment. After the parade, the Regiment returned to the Armouries where the Governor General unveiled a

plaque commemorating our "200 years loyal". That evening the members of the Regiment hosted a Ball at the Saint John Trade and Convention centre with the Lieutenant-Governor of New Brunswick as the special guest of honour.

Sunday morning saw the Regiment attend church parade at the Saint John Stone Church. The Stone Church is the Regiment's Garrison Church where the Regimental colours are proudly displayed.

TRAINING

The Loyal company's strength was consistent with previous years with a total of 210 all ranks. The Regiment conducted a wide variety of training in 1993. Live fire exercises took place in May, October and November with the annual operational evaluation (Exercise Shellburst Valley) in May in which the Regiment produced a second place finish. Command Post Exercises, rappel training and Officer/Senior NCO training completed the training year.

This year saw the creation of the Army Reserve Training Centre (ARTC) in Gagetown. As a trial, the three Atlantic Artillery Regiments formed the Reserve Artillery Battery in the Field Artillery School. It was found to be a success and it was recommended that the other arms adopt the same approach.

During ARCON 93 in August, The Loyal company joined with 1st Field Regiment and 84 Independent Battery to form the Atlantic Artillery Regiment. The Regiment conducted extensive live fire training along with observer/command post support to Exercise Atlantic Warrior.

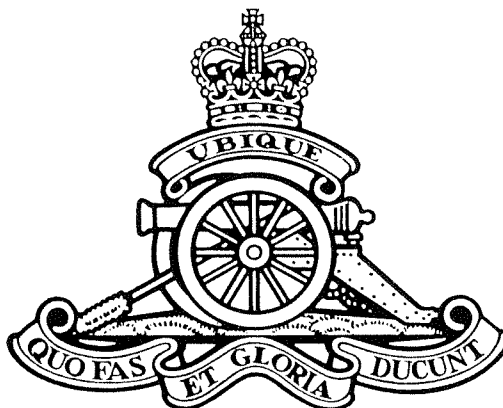
The Regiment also found time to support a POT course conducted by 403 Sqn in March 1994. We also fired the opening day salute of the New Brunswick Legislature on 16 March. The unit fired the Remembrance Day salute in Fredericton and minute guns in Hartland, Woodstock and Saint John, New Brunswick.

In keeping with our support to the Regular Force and UN operations, five members of the Regiment served with 2 PPCLI in Yugoslavia. We also saw one of our full time staff, Captain R.G. Leblanc, join 12 RBC during their tour in Yugoslavia.

HONOURARY APPOINTMENTS

This year also saw a change in our Honourary Colonels. Colonel J.H. Turnbull took over from Colonel W. Simcock and Lieutenant Colonel E.N. Mckelvey received the appointment of Honourary Lieutenant Colonel.





6e RÉGIMENT D'ARTILLERIE DE CAMPAGNE ARTILLERIE ROYALE CANADIENNE

58E BAAA VALCARTIER

QUELLE ANNÉE 1993 DES PLUS ACTIVE

L'année 1993 à la 58e baaa du 6e RAC fut une des plus remplie et des plus actives, tant au niveau des exercices qu'en garnison. Nous prévoyons que l'année 1994 sera aussi active sinon plus que l'année 1993.

Le tout a débuté avec la conversion de 13 miliciens artilleurs de campagne à l'artillerie antiaérienne. Cette opération s'est déroulée du 16 janvier au 19 avril. Tous ont réussi avec succès le cours non sans devoir effacer de "faux plis" de l'ancien métier de "gunner".

Par la suite s'est déroulé le cours de recrues du 6 mars au 6 juin. Des 20 candidats du début, 19 ont réussi le cours. Ceci, grâce aux instructeurs qui ont mis la main à la pâte pour bâtir de bons plans de leçon et fournir un matériel d'instruction adéquat. Soulignons ici, que, lors de la parade de graduation des recrues qui s'est déroulée au Fort de la Martinière, la 58e BAAA s'est particulièrement démarquée par la prestance et la fierté de ses nouvelles recrues.

Du 31 mai au 15 juin 1993 se déroulait le cours de chauffeur véhicules chenilles M-113. Un cours qui

s'est fait sans complications, ni accidents favorisé par une température des plus clémentes. Encore là, les 15 candidats ont obtenu un succès.

Du 5 au 30 juillet avait lieu le cours de chauffeur roue. Ce cours-ci fut plus mouvementé. Il suffit de penser au bombardier-chef Collins qui, paraît-il, restait pris dans la boue ou autre terrain quelconque presque tous les jours. Il faut mentionner que les chauffeurs apprennent dans des conditions de normales à extrêmes (route et campagne) et que la plupart n'ont aucune expérience de conduite avant de suivre ce cours. Malgré tout, les 19 candidats ont tous réussi.



Un peu de coordination pendant l'EX WIDE SKY.



En memoire de l'artilleur Martin Rondeau décédé le 1 Oct. 93.



Groupe d'ordres pendant l'EXERCICE WIDE SKY.

Conjointement à ce cours se déroulait le cours de javelin s-15 en vue de l'exercice de tir réel BLAZING ARCHER à Petawawa. C'est avec détermination et fierté que les 17 candidats ont réussi le cours qui demandait une note de passage de 90% sur le simulateur javelin, pré-requis pour eux à leur participation au tir d'un vrai missile lors de la qualification annuelle.

C'est du 28 août au 1 septembre qu'a eu lieu l'exercice BLAZING ARCHER à Petawawa. Cet exercice de tir réel de javelin S-15 restera à jamais gravé dans la mémoire de nos artilleurs puisqu'un record sans précédent a été établi. Sur 19 missiles tirés, trois atteignirent la cible directement et neuf autres furent des "hits techniques", ce qui signifie que le missile est passé en deça de trois mètres de la cible et que si le sélecteur de tir avait été placé à "impact proximité" cette cible serait tout simplement détruite des résultats jamais enregistrés auparavant. Nous pouvons maintenant ajouter trois noms à notre "temple de la renommée", ceux du bombardier Pouliot et des artilleurs Dumont et Plante.

Toujours à Petawawa, du 24 au 26 septembre a eu lieu l'exercice SKY WIDE. Cet exercice, organisé par le 1 RAAA Pembroke, a été amalgamé au déplacement de la 11 BAAA (US) qui consistait à vérifier leur capacité au niveau d'un déplacement rapide des systèmes Patriot, Hawk et Avenger. La tâche de la 58e BAAA était de défendre le point vital contre d'éventuelles attaques aériennes. Le but de l'exercice fut atteint et les résultats très encourageants si l'on considère que c'était seulement la deuxième opportunité pour la troupe de s'entraîner au niveau collectif. De plus, cet exercice a permis à tous d'améliorer leurs connaissances au niveau de l'artillerie antiaérienne et de connaître les différents systèmes de défense de nos voisins Américains.

Le 1 octobre 1993 ne fut cependant pas une journée des plus gaies pour le 58e BAAA, lorsque nous avons appris que l'artilleur Martin Rondeau était décédé, et que l'artilleur Linteau était entre la vie et la mort, suite à un accident d'automobile.

L'artilleur Rondeau était une personne très aimée et respectée de tous, ce qui nous a donné un grand coup. De plus, ce fut très dur d'attendre trois

semaines avant de savoir si l'artilleur Linteau survivrait. Pour passer à travers cette épreuve, tous ont compris que le mieux à faire était de ne pas lâcher, mais de continuer à performer du mieux que nous le pouvions, et ce, à l'exemple et à la mémoire de notre compagnon.

Le 21 novembre 1993 était pour tous la journée de qualification de tir C-7 étape n° 1 du "tirer pour vivre". Sur le champ de tir Batoche à Valcartier, les membres de la batterie ont fait du tir de groupement et confirmé le zéro tage sur leur arme personnelle C-7.

Afin de terminer l'année sur une bonne note, la troupe d'appui de la batterie a procédé à la vérification et à la pré-inspection de tout l'équipement qui sera vérifié lors de l'inspection technique annuelle de janvier prochain. Tous ont mis la main à la pâte, et quand je dis tous, c'est que même notre commandant de batterie, le major Lavoie, y a participé en faisant lui-même le changement d'huile de son véhicule et ce, sous l'oeil avisé de notre sergent-major de batterie, l'adjudant-maitre Ostiguy, qui lui-même a joué les mécanos. Ceci afin de combler le manque de personnel pour effectuer les tâches, plusieurs étant à l'extérieur sur des cours. Le quartier-maitre a, quant à lui, subi de très bonnes transformations et on a procédé à l'inventaire. La mise à jour de l'équipement des véhicules de la batterie s'est complété en 5 semaines, parfois parsemée d'embûches, mais qui ont, bien sûr, toujours été surmontées de façon à ce que la tâche se déroule bien.

Quoi de mieux pour finir l'année qu'un party de Noël pour la batterie. Eh bien, le 10 décembre dernier, le fameux party avait lieu à Shannon avec des invités de marque pour agrémenter la soirée. Notons la présence du commandant de notre régiment, le Lcol Toussaint, Raymond Beaudoin et son Polaroid et sans oublier bien sûr, le Père Noël et ses cadeaux. Mais ce fut sans doute le retour de notre BK le capitaine Beauchamp qui fut le plus remarqué après un mois d'absence sur un cours en vacances Ha! Ha! Ha!. Bref, ce fut une soirée des plus agréables et qui termina bien l'année remplie que fut 1993.

Un travail dément a été accompli et beaucoup de tâches avec peu de personnel furent effectuées (nous somme 27 membres réguliers et 50 membres



En colonne de route pour le déplacement à Petawawa.



EX BLAZING ARCHER 9302 à Petawawa.

miliciens, et une batterie compte normalement 120 membres). Les buts ont été atteints de façon professionnelle, ce qui fait évidemment la fierté de la 58e BAAA.

Tous les membres de la batterie sont donc prêts pour affronter l'année 1994 qui s'en vient à grands pas. Celle-ci débutera avec le cours de recrues, le 15 janvier. En février, il y a aura des exercices de poste de commandement tels; le NOBLE LEADER à

Valcartier, le FLAMING ARROW et le RITE COMPLEX à Petawawa. De mars à juin ce sera de l'entraînement collectif de troupe avec les miliciens. En juillet, le cours de javelin et en août les exercices Noble Lion et Blazing Archer à Gagetown. Sûrement que l'année 1994 sera une autre année bien remplie pour la 58e BAAA du 64 RAC.

A la prochaine! Ubique.



Adj Savoie et Sgt Brisebois pendant l'EX WIDE SKY



Promotion accélérée du Bdr Dumont.



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11TH FIELD REGIMENT ROYAL CANADIAN ARTILLERY

The past year for 11 Field Regiment was one of opportunity and challenge. At the start of the year, the Regimental Training Plan of the new CO, Lieutenant-Colonel R.W. Elliott included training at Canadian Forces Bases Petawawa, Borden, and Meaford.

On the operational side, 12 reservists from 11 Field were deployed on United Nations duty; four on OPERATION MARQUIS in Cambodia, and eight on OPERATION SNOWGOOSE with 2 RCHA. Our significant social event of the year was the Annual Associates Special Guest Night, held in April, where Major-General Vernon, Commander LFCA was honoured as the Special Guest.

Memorable amongst the seven exercises we conducted was EXERCISE BROADSWORD held at Canadian Forces Training Area Meaford from 7 - 9 May.

The Fantasians were on the march again. This ill bred army, reared on prejudice and misinformation was threatening peace, order and government as we know it. They were reported to be massing a battalion in the vicinity of Meaford. This rapacious horde of miscreants, schooled in the Soviet style of trench digging and armed with Canadian weapons were holed up in the territory surrounding the impact area. They thought they would be safe from the guns. They

thought wrong!

Hamilton District brought together a battalion of infantry to push the enemy west into the Georgian Bay. It included elements of the Lincoln and Welland Regiment, the Royal Hamilton Light Infantry, the Argyll and Sutherland Highlanders and the Lorne Scots Regiment. A Forward Logistics Group from 23 Service Battalion and a Medical Evacuation Platoon from 23 Medical Company took part. 2 Fd Engr Regt from Toronto District provided assault boats, artillery simulation, excavation assistance and other general engineer support. In direct support of this military machine was 11th Field Artillery Regiment. The campaign will go down in history as EXERCISE BROADSWORD IV.

For the gunners of the 11th, EXERCISE BROADSWORD was indicative of the gunnery and high morale that characterized 1993. Six guns with full detachments, four Observation Parties (two



Bdr Turner firing 25B on EX SHELLBURST VALLEY.



Sgt Wright (employed as a Cpl on OP MARQUIS) receives his UN medal.

attached to the infantry companies for their portion of the exercise), two Battery Commanders parties, a Regimental Command Post; an operations cell and a Headquarters Battery, were all on the ground at the same time. In total, 152 gunners of all ranks from 11 Field took part in the battle.

For the guns the exercise was a critical part of the build-up training prior to EXERCISE SHELLBURST VALLEY. Fire and movement were the order of the day, followed by simple fire planning on Sunday. Local defence was a high priority with an attack from those pesky Fantasians being a distinct possibility. The comforting sounds of a competent artillery regiment going about it's business were heard

throughout Meaford. The crump, as rounds landed, brought startled looks from the infantry, and grins from the Forward Observation Officers and their parties.

The forward observation parties attached to the companies had an interesting exercise. Platoon, Company and Battalion attacks were livened up by an amphibious assault onto the beaches from Georgian Bay. The observation parties certainly earned their money that day!

EXERCISE BROADSWORD IV ended with 11 Field Regiment being ready for EXERCISE SHELLBURST VALLEY, and the Observation parties and their infantry counterparts both a little wiser and more appreciative of the skills of each other. Freedom in Canada was safe for the time being, and the barrels of the guns were warm from use.

After EXERCISE BROADSWORD and SHELLBURST VALLEY we were well prepared for EXERCISE CENTRAL AREA CONCENTRATION 93 (CAC). As usual, Petawawa had beautiful weather during the 10 days of August that CAC was held. Our Regiment was well represented with about 130 personnel participating. This enabled us to fully man six guns, provide over a third of the Headquarters Battery and contribute significantly to the Regimental Headquarters of 12 RCA. One highlight that will be long remembered is the 12 RCA "Hub to Hub" regimental shoot that was held on the last day. It was good to finish off the exercise with a bang!

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In the Autumn of 1992, opportunities for Reserves to augment UN Contingents became a reality. 11 Field Regiment sent four members on OPERATION MARQUIS who were deployed with the transportation company in Cambodia. Their area of operations were centred on the Killing Fields (as westerners know



Captain Schotsch makes a new friend in Cyprus.

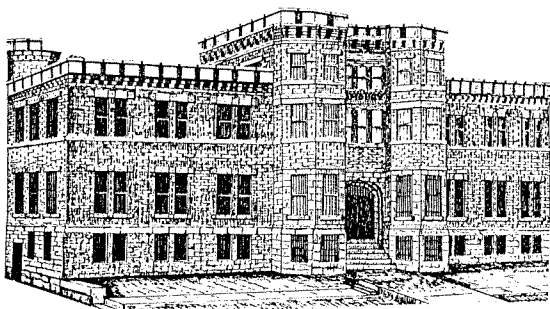
them). And a most notable observation was that due to the large number of anti-personnel mines that have been sown over the decades, there is little wildlife larger or heavier than a sparrow or a snake. Domestic water buffalo, carefully tethered away from the mined ditches and paths survived. The mines also protected them from thieving bandits! The 11 Field personnel were well accustomed to busy Toronto traffic, but it did not prepare them for the congestion of mopeds, bicycles, pedestrians and other forms of transportation that filled the roadways of Cambodia. Despite this, they got their convoys through the monsoons, scorpions, minefields and extreme heat in good spirits.

Later, a similar call came from 2RCHA in Petawawa for augmentees for OPERATION SNOW-GOOSE in Cyprus. Of the nine soldiers we sent to Petawawa for training, seven were deployed to Cyprus with Rural Battery, and two others remained in Petawawa with the Rear Party. Both had exciting stories of their experiences on Class C service with the Second Regiment. One thing that our soldiers did learn was that on operational duty, boredom and mundane tasks have no limits of magnitude. Our soldiers were kept busy throughout the deployment contrary to stories that it would be an easy vacation in a warm climate. They were shocked when they had to wear their parkas outside and also use their sleeping bags with liner to sleep comfortably at night for the first six weeks of the deployment.

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With the sudden retirement of Major-General McKenzie, 11 Field Regiment had the distinct pleasure of welcoming Major-General Vernon to his first mess dinner as Commander of the Area. After inspecting the Quarter Guard, General Vernon was welcomed to the Officers Mess where he found several old friends such as Major-General Sparling and Honourary Lieutenant-Colonel Erskine. Brigadier Todd was also in attendance, in good health and his usual happy spirits. Attendance was high as curious associates tried to ensure that they met the new Commander of

the Army of Ontario. It was a rare gathering filled with good cheer and an excellent time was had by all.

1993 was a challenging year for 11 Field Regiment and presented several unique opportunities. We look forward to the new training year, as well as to remembering that 1994 will mark 50 years since batteries of this regiment participated in D Day landings. Celebrations and participation are being confirmed, and you'll hear about them in the next issue of the Gunner.

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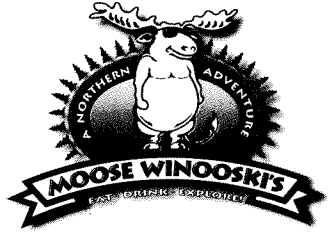


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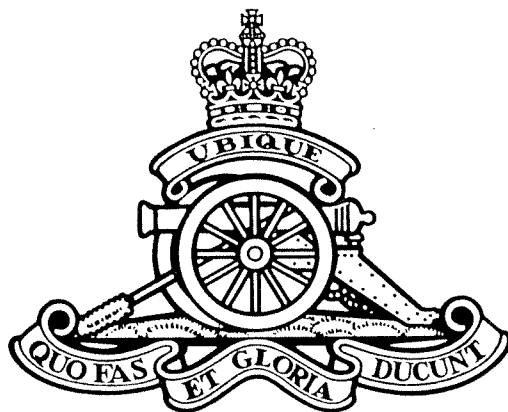
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20TH FIELD REGIMENT ROYAL CANADIAN ARTILLERY

During the past few years the Regiment has enjoyed a steady growth in its strength and qualification of its soldiers. With a current strength of 135 all ranks, the Regiment has successfully completed many tasks, including UN augmentation, training exercises and unit run individual corps training. Significant changes over the past year include the succession of LCol Colin Reichle from LCol Steve MacNab as the new CO and the posting in of Sgt Pete Finn from Gagetown.

The year 1993 began much as did 1992, and again, the Regiment generally had enough resources and funding to complete its requirements. With the critical factor being time, not money, the Regiment continued its efforts to improve the quality of training, our flexibility and capability. To assist in the coordination and standardization of training and administration between the Red Deer and Edmonton batteries, MWO Wilkins was relocated to Red Deer during APS 93. The Sgt position was simultaneously moved to Edmonton amongst other regular force

positions at RHQ.

After winter indoctrination conducted in the foothills of the Rocky Mountains in mid January and the conclusion of a communicators course during Christmas, the Regiment shifted its focus onto artillery training. With the support of the 1 RCHA Phoenix Trainer, a CPX was conducted with OPs, CPs and guns linked together. Members of our sister unit, 10 Fd Regt, also participated making the exercise more beneficial and an excellent primer for upcoming artillery training and deployments.

The God of Ammunition was on our side in the spring, enabling the unit to conduct two field deployments and SHELLBURST VALLEY by May. The first exercise saw six guns complete with plenty of 105mm projectiles and a full A Echelon actually deploy into snowy Wainwright. It just doesn't get much better than that!

A multitude of personnel and equipment taskings quickly overtook the unit's abilities and, like every other artillery unit, we too changed into our summer role. By this time, all 18 members had returned from duties in Cyprus with 1 RCHA, along with MBdr Strong from the first rotation to Yugoslavia. Augmentees on the second rotation, Lt Szabunio and Bdr Huedepohl,



Sgt Glen Slater fires simultaneously with the howitzer to his left during Change of Command Ceremonies Aug 93.



Change of Command scrolls are signed by LCol MacNab and LCol Reichle.

were already in theatre with 2 PPCLI by the start of NRQS/ARTS here in Canada. Over 55 personnel were able to participate in taskings and training to NRQS/ARTS Shilo, including staff to Calgary and Wainwright. The Regiment was also able to dispatch seven members to Jericho, Vermont for Mountain Warfare Training with the Army Reserve National Guard.

20th Field Regiment provided substantial augmentation to RHQ and 312 Battery during Western Challenge 93. 312 Battery provided key personnel in the provision of an FSCC and an infantry company later in the Exercise, and also in the conduct of FIBUA training for members of the Western Artillery Regiment. During the FTX, a well camouflaged 312 Battery was selected as the only battery visited by DComd LFC, COS Reserves, Comd LFWA and several other VIPs.

The Regiment was saddened with the sudden death of Sgt Robert Larrivee in August. A memorial service was held at Edmonton while the funeral was held in Sault Ste Marie, Ontario. Although autumn began on a solemn note, it was one of the busiest times for the unit in recent memory. In September the Regiment shifted again and began its general individual training cycle with emphasis on weapons handling, NBC, first aid, and the commencement of an LFC/artillery driver wheel course. The Regiment also provided booming accompaniment to Tchaikovsky's 1812 Overture which was performed by the Edmonton Symphony Orchestra. October also included an ambitious live fire Change of Command parade in Wainwright coupled with a Direct Fire competition with six complete gun detachments able to deploy. Late

autumn also saw the unit begin the process of providing more UN augmentees to Yugoslavia and candidates to attend regular force courses and general training.

The Regiment continues to remain socially active in the Edmonton and Red Deer areas. We have hosted several functions over the year, including celebrations for Artillery Day and St Barbara's Day, as well as functions involving the Alberta Gunners Association.

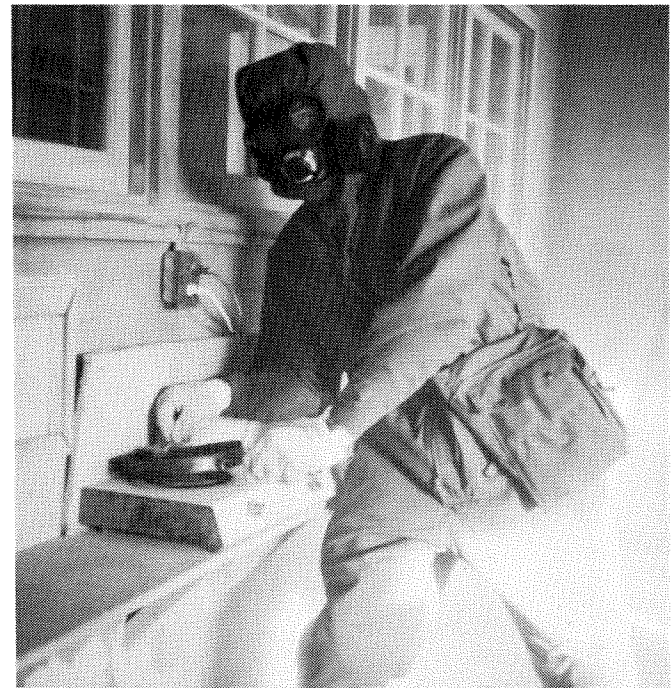
The Regiment is doing well with its training and enjoys a good liaison with the other units within the Edmonton Area. The continued support from them and 1 RCHA ensures things "keep on the rails" to the benefit of the unit and its planning staff.



On direction of the percussionist from Edmonton Symphony Orchestra, 20 RCA fires for 1812 Overture at Hawrelak Park.

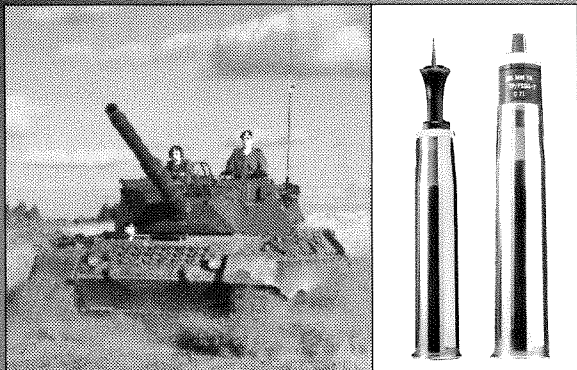


A member from 312 Bty leads a section through FIBUA Trg during WESTERN CHALLENGE 93.

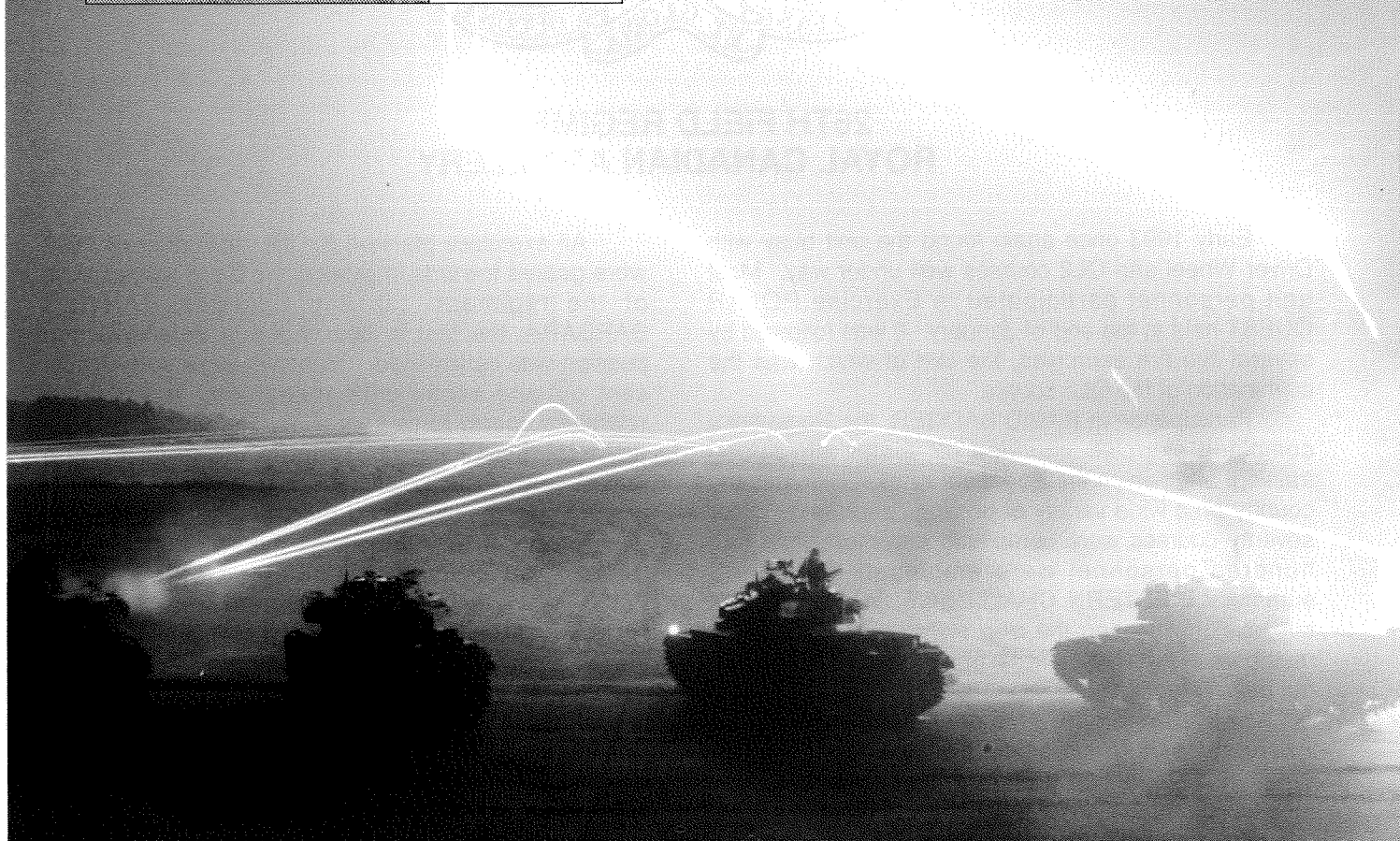


Captain Morris assists staff in preparing a special treat during Regt NBC refresher training.

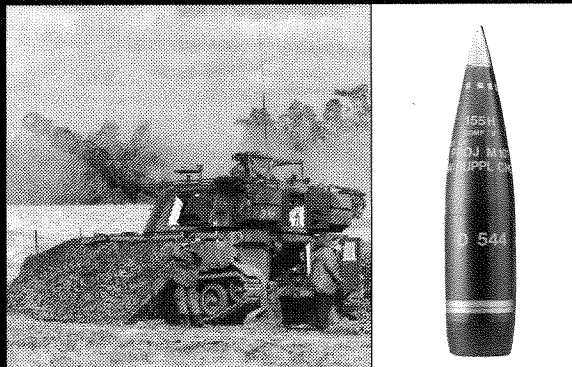


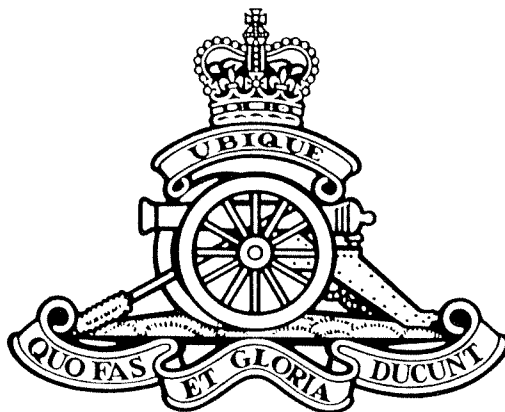


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26TH FIELD REGIMENT ROYAL CANADIAN ARTILLERY

Early 1993 once again found the unit busy with Driver Wheel and QL2 courses well under way. Most unit personnel participated in Exercise POLAR QUEST held at the end of January. It was followed by several live fire exercises, the last of which was the culmination of the QL3 course.

Participation in RABID BADGER, the Regiment's combined exercise, rounded off winter and spring training, after which the Regiment scattered across the country on a wide variety of postings and tasks. Over seventy courses were completed and more than one hundred personnel were employed during the summer. WESTERN CHALLENGE, in August, was successful in testing the new skills learned by many members of the Regiment. It proved that old ones had not been forgotten!

Early September saw an Adventure Training Exercise for eight members of the Regiment in Whiteshell Provincial Park and, in spite of forgetting their fishing rods, everyone had a great time.

The past year has seen several members of the unit on UN tours. In March, twenty-one soldiers returned from Cyprus and more recently we have sent nine soldiers to the former Yugoslavia as part of Operation Harmony. The benefits of having these soldiers participate in such tasks are enormous.



The guns fire a salute at the 20th Anniversary of GATES

All exercises planned for the remainder of 1993 were geared towards improving the basic soldier skills of the regiment. During Exercise RANGER BARBARA, the first in this series, a defensive gun position was established. Trenches were dug, patrols sent out and sentry drills rehearsed. A small but relentless enemy force kept everyone on their toes by ambushing patrols, challenging the sentries and attacking the entire position. The use of a wide variety of pyro greatly enhanced the training. During this exercise RSM Roberts became the inventor of a new training device currently being patented as the WASDASAT or Webbing Attached Smoke Device Artillery and Small Arms Trainer. It is widely rumoured that all branches have shown interest!

Armed Forces Day at CFB Shilo saw hundreds of spectators from the Brandon area and the CDS, Admiral Anderson. Among many displays 26 Field Regiment performed a Quick Action while the German Army introduced the Leopard 2.

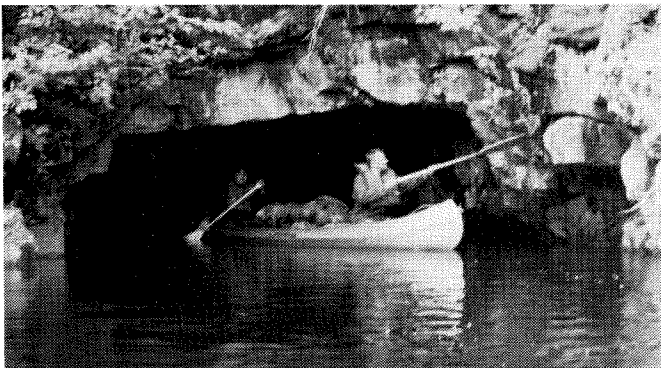
October saw the Regiment refreshing their C7 skills with maximum participation in the "Shoot-to-live" exercise. This became the prerequisite for the next weekend as C7 skills were combined with C9, M72 and Carl Gustav. Exercise JUNGLE BARBARA was a



*"Leave me alone, I'm having my first cup of coffee"
MBdr Patterson and MCpl Hansen on adventure training.*

live-fire exercise, conducted in two stages, including an Advance-to-Contact in pairs with C7 and M72 and a three stage section assault with C7, C9 and Carl Gustav. This training was very successful and showed the importance of training with live ammunition in battle-like scenarios.

In November, the annual Military Ball was held and it was, once again, very successful. The Right Honourable Antonio Lamer, Chief Justice of the Supreme Court of Canada, was the guest of honour. He was joined by civilian dignitaries and numerous military guests from Canada, Germany and the United States. The Americans were very well represented and "captured" a miniature gun which they took back with them to Minot Air Force Base.



Exiting one of the tunnels encountered during adventure training in the Whiteshell



C9's unleash their firepower on the enemy in the open . . .

A "snatch-party" will be tasked to visit the Minot Military Ball, recapture our gun, and possibly a trophy of our own!

Exercise ACTIVE BARBARA rounded off the fall outdoor training schedule and the few weeks before Christmas were filled with activities of a more social nature. Santa surprised the Regiments member's kids with an appearance, while his elf surprised the entire Regiment!

After unit briefings, Exercise HUNGRY BARBARA had the Regiment in PT gear for some fierce sports competition, followed the next day by the annual Men's Dinner. Both proved a great success with all members looking forward to another challenging year.

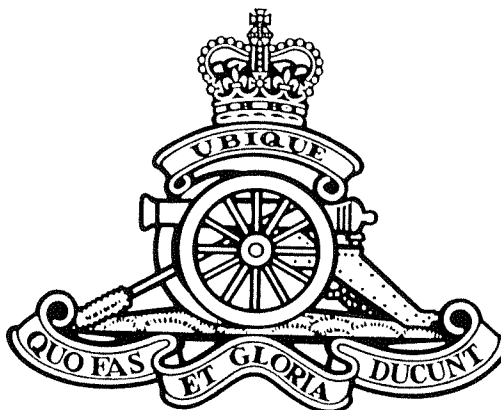


*"Dismounted infantry, 2 o'clock, 400 metres"
The section commander gives direction to his troops*



. . . while the M72 takes care of any AFV support.





30TH FIELD REGIMENT ROYAL CANADIAN ARTILLERY

INTRODUCTION

The "Bytown Gunners" is one of the more active militia units in Canada. In addition to regular training responsibilities which include parades at Canadian Forces Reserve Barracks (CFRB) Dow's Lake Armouries, the Regiment participates in live fire exercises and combined arms training at CFB Petawawa on weekends and during the summer. Ten soldiers also served with 2 RCHA in Cyprus.

The Regiment is often called out to participate in ceremonial salutes. These salutes are fired to mark special occasions such as the Queen's birthday, the opening of Parliament, State funerals and to greet world leaders on their arrival to Ottawa.

JANUARY-SOCIAL ACTIVITIES

The New Years Day Levee started off 1993 for the Regiment on a positive note. At the end of the month, a detachment of officers drove to Kingston, New York, where they joined 1 Battalion, 156 Field Artillery, National Guard, Rochester N.Y. to celebrate a late St. Barbara's Day mess dinner.

FEBRUARY-WINTER INDOCTRINATION

Training in Canada means that inevitably you'll



Capt D. Ainslie, BK, checking sentries during local defense exercise.

have to practise your trade under winter conditions. The Regiment did just that during its annual winter indoctrination exercise conducted 12-14 February 1993. OBSERVANT ROAST II was a two and a half day exercise which emphasized basic winter survival skills. The practice consisted of navigation and route marching, building snow shelters, setting snares for wild game and honing first aid skills. The training area was the Rideau Provincial Park, about one hours drive south of Ottawa. The weather conditions were ideal for winter training. The forecast called for 25cm of snow followed by sunshine and crisp coldness.

The Regiment left Friday night with gunners packed into the back of vehicles with winter kit and sleds. Given the focus of the training the 105mm C1 Howitzers were left at the armoury. Close to 15 cm of snow had already fallen on the frozen ground as the vehicles pulled up to the disembarkment area. Gunners dismounted and assembled themselves and their kit into tent groups. Radios crackled feebly, their batteries emasculated by the knife-sharp cold. The inclement weather did not impede the Regiment. On the contrary, it increased every gunner's resolve as everyone knew warmth was generated by hard work. As the Regiment dragged its sleds along the park trails the snow groaned beneath. Thus began the first leg of the march deep into the wilds of Rideau Park.



Sgt S. Livingstone receives firing orders.

MARCH-OTTAWA DISTRICT BALL

The Regiment was tasked to co-ordinate the Ottawa District (OD) Ball on 6 March 1993 at CFRB Dow's Lake. Close to 280 members and former members along with their escorts attended. Participating units included; 1 Air Defense Regiment (Lanark & Renfrew Scottish) RCA; 3 Field Engineer Squadron; Governor General's Foot Guards; Princess of Wales Own Regiment; Brockville Rifles; Stormont - Dundas & Glengarry Highlanders; Cameron Highlanders of Ottawa; 28 Service Battalion; 28 Medical Company, and Ottawa Militia Training Detachment. Special guests included U.S. National Guard Capt S. Taylor, BC C Bty of 1 Battalion, 156 Field Artillery Rochester N.Y., and his wife. Music was provided by the Regimental Band of the Governor General's Foot Guards and the Regimental Pipes & Drums of the Cameron Highlanders of Ottawa. The ball, ending in the wee hours of the morning, was a success.

MARCH-ARTILLERY WINTER TRAINING

On the weekend of 26-28 March 1993, the Regiment ushered in the spring with a roar of the guns. The two and a half day live fire exercise was called OBSERVANT RAGOUT and was conducted at CFB Petawawa. The aim of Observant Ragout was to confirm the abilities of students on the Regiment's Forward Observation Post Technician and Basic Artillery Communicator courses.

The Regiment deployed a battery of three 105mm C1 Howitzers and two Observation Post (OP) parties. All procedures from gun detachment drills up to Troop Commander's offensive fire-plans were practised. Training included battery fire and movement, basic and technical fire missions, fire planning and battle procedure. The students were rotated through a variety of jobs in the battery, such as Command Post and OP duty.

The weekends clear warm sunny skies made the training enjoyable and memorable. The Regiment witnessed the sun melt two feet of snow in two days. One effect of the warm weather was the transformation of snowy gun positions to fields of mud and water. The only misfortunes suffered during the



Gnr C. Fisher loads a round.

exercise were sun burn.

After the sun had set, training continued late into the night with co-ordinated illumination missions. The weekends co-ordinated illumination missions were sensational as there was no wind or cloud cover to adversely affect the illumination. The snow in the impact area reflected the light emitted from the illumination canisters making the targets more visible. Spectacular displays of the northern lights complimented the show of gunnery.

On Sunday morning several junior infantry officers from the Cameron Highlanders of Ottawa visited the OP to hone their skills at calling down artillery fire. The infantry thoroughly enjoyed and fully appreciated the opportunity to work with the artillery during a live fire exercise.

Spring training ended with preparations for the Royal Canadian Artillery Association (RCAA) Competition 1993.

MAY-RCAA COMPETITION

The RCAA Competition, known as Exercise SHELLBURST VALLEY, was conducted for 30 Fd from 14-16 May 1993 at CFB Petawawa. The aim of the 50 hour exercise was the evaluation of an artillery unit on its operational effectiveness based on the Field Artillery Battle Tasks Standards. The Regiment was assessed on its command and control, the occupation and preparation of gun positions, live firing during the day and at night, communications and local defense. The Regiment deployed a battery of three 105mm C1 Howitzers and two OPs. Overall the battery performed well during the exercise. All elements of the battery were well trained and demonstrated sound job knowledge and skills.

SUMMER-CAC 93

CAC 93 was held in CFB Petawawa from 21-31 August 1993. The aim of artillery training at CAC 93 was to practice all procedures in a gun battery up to quick fire planning. The objectives of the exercise included battery and regimental fire and movement, basic and technical fire missions, fire planning at FOO and BC levels, fire support coordination and battle procedure. The Regiment manned BC, BSM and



WO Donahue, TSM, rests in his vehicle.

other key positions in a composite HQ Battery

In keeping with the Regiment's philosophy that the first job as gunners is to be ready for war physically, mentally and technically, 30 Fd took its training seriously. The exercise enabled the men and women of the Regiment to experience soldiering as part of a large exercise, as well as to instill in them a sense of pride in a job well done.

SEPTEMBER-THE ANNUAL REGIMENTAL DINNER

The Regiment held its annual regimental parade and dinner 29 September 1993. Maj T. Creech, the Regiment's Second in Command and Master of Ceremonies, awarded the following prizes during the dinner to outstanding members of 30 Fd:

- The Matheson Trophy for Merituous Service - Ceremonial Troop was awarded to Capt D. Sinclair, Sgt W. Baldwin, Sgt R. Kaasalainen, MBdr S. Boyechko and Bdr M. Simpson.
- The Tarasco Trophy for Best Detachment during CAC 93 was awarded to MBdr R. MacDonald, MBdr P. Heron, Gnr C. Headley, Gnr S. Latulippe, Gnr R. Lynch, Gnr T. Nelson and Gnr G. Lefebvre.
- The Adams Trophy for Best Detachment during 1993 went to MBdr R. MacCulloch, MBdr T. MacCaul, Bdr G. Clark, Gnr C. Fisher, Gnr D. Levesque, Gnr B. MacIntyre and Gnr S. Gillen.
- The Ryan Trophy for Best Sub-altern went to Lt C. Giles.
- The Steeds Shield for Best Deportment and Conduct was awarded to WO R. Montague.
- The MacLaren Shield for Best Sergeant was awarded to Sgt S. Livingstone.
- The Hilton Shield for Best Communicator was awarded to Gnr R. Duffy.
- The Anzac Shield for Best Observer was awarded to MBdr J. Hemlin.
- The Leslie Cup for Best Master Bombardier was awarded to MBdr C. Leggett.
- The Brule Shield for Outstanding Administrative and Clerical Achievement was awarded to Sgt B. Dulmage.
- The Hutcheson Shield for Best Bombardier was awarded to Bdr K. O'Neil.
- The 30 Fd Regiment RCA Trophy for Outstanding Service and Support was awarded to Cpl K. Amesbury.
- The McCormack Shield for Most Improved Recruit was awarded to Gnr M. Robillard.
- The Beament Shield for Best Gunner was awarded to Gnr B. MacIntyre.
- The Scardina Trophy for Best Technician was awarded to Gnr M. McLellan.
- The Vergette Trophy for Best Rifle Shot went to MWO R. Cassidy.
- Honourable mentions went to MBdr S. Boyechko, Sgt R. Kaasalainen and Gnr C. Plante.

NOVEMBER-REMEMBRANCE DAY

The highlight of November was the annual Remembrance Day ceremonies. The Regiment participated in the ceremonies by firing a salute on Parliament Hill and by taking part in the roll past for the Governor General. After the services the Regiment opened its Messes to the public.

DECEMBER-WARRIOR COMBAT READINESS STANDARDS

Major General W. Vernon, the Commander of Land Force Central Area, initiated a program in August 1993 where soldiers regardless of rank, MOC or component, were to be trained and tested on the essentials of combat survival. The intention was that with these skills as a basis, soldiers would be more successful in dealing with the quickly-evolving threats which are characteristic of today's theatres. The Warrior program considers the following as the essentials of combat survival: battlecraft; navigation; communication; NBC defence; combat first aid; physical fitness; personal weapons handling; C6-C7-C8 handling; grenade handling; and, SRAAW (L & H) handling.

The Regiment's training schedule for the Warrior program ran from October to December 1993. All other training, such as artillery field exercises, were put on hold until a majority of the Regiment's personnel had passed the tests held in December. Many were disappointed in not being able to practice gunnery however, most understood the importance of such a program and expressed interest in completing it. The possibility of achieving a bronze, silver or gold medal, depending on the individuals test scores, was a key motivator. Although hastily implemented, the objective of the program was excellent and the Regiment completed Phase I on time. Many of the Regiment's personnel did very well on the program. The general consensus was that the Warrior program was very effective training. Most of the Members of the Regiment are now confident they have mastered the basics of combat survival.



Lt C. Giles and Lt T. Maroney rest after an attack on the gun position.

CONCLUSION

In reflection, this year has been productive, demanding and at times, frustrating and confusing for us all. We have witnessed diverse events: the reductions of armies world- wide; a substantial increase in peace-keeping missions; and escalating political instability in the CIS and Asia. Despite the apparent reduction in military conflict globally, there is still the need to remain vigilant and prepared for any

future military conflicts. The Regiment feels it has contributed in a small way to peace with our Cyprus detachment and we are in a better position to address future conflicts having successfully completed the Warrior program. We now look forward to resuming artillery training. To our gunner friends in Canada and abroad, we wish you good shooting. Ubique.



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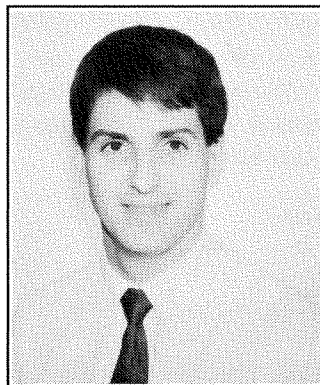
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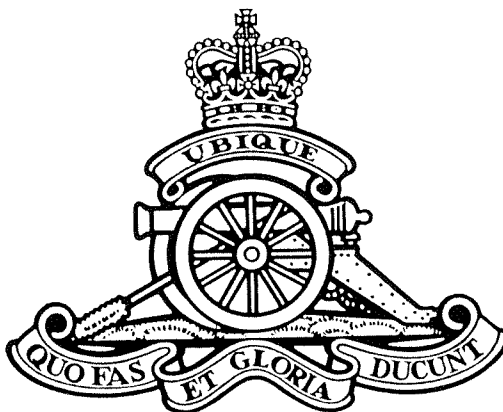
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62e REGIMENT D'ARTILLERIE DE CAMPAGNE ARTILLERIE ROYALE CANADIENNE

1993 fut une année bien remplie considérant notre calendrier d'entraînement très chargé et surtout, grâce à quelques événements majeurs et parfois historiques, qui ont suscité beaucoup d'intérêt de la part de nos membres.

Le 62e Régiment est une unité en excellente santé. Plusieurs faits viennent corroborer cette affirmation dont: notre effectif réel d'environ 300 membres, un taux de membres en non-activité inférieur à 9% et, finalement, un taux de participation aux activités régimentaires d'environ 80%.

Rappelons-nous les événements majeurs qui se sont déroulés au cours de l'année. Le 3 avril dernier, ce fut l'intronisation de notre Lieutenant-Colonel Honoraire, le Très Honorable Antonio Lamer, CP, O St J, juge en chef de la Cour Suprême du Canada. Par sa nomination, il comble le poste qui était vacant depuis le décès du Lieutenant-Colonel Jean-Pierre Bouvette en novembre 1991 à la suite d'une courte maladie. Cette cérémonie fut grandiose et suivie d'un dîner régimentaire présidé par le Brigadier-Général Roméo Dallaire, CD.



Le Lieutenant-Colonel Gaétan Tremblay, CD signant son parchemin de commandement accompagné du Colonel Léonard Caya, CD, Commandant du District no 2 du Québec et du Colonel RA Jacobson Colonel Commandant de l'Artillerie Royale Canadienne.

Dès le retour de l'exercice NOBLE LION, il fallait déjà se préparer et être prêt pour le changement de commandant du 11 septembre dernier. Après 7 ans de commandement au sein de l'unité, le Lieutenant-Colonel Claude Dufresne, CD remettait le fanion du régiment au Lieutenant-Colonel Gaétan Tremblay, CD qui arrivait directement de l'École d'Artillerie de Shilo. Ce fut une belle réussite qui fut grandement appréciée par l'invité d'honneur le Colonel Jacobson, Colonel Commandant de l'Artillerie royale canadienne.

Actuellement, le Lieutenant-Colonel Claude Dufresne, CD est chef des opérations au sein du District numéro 2 du Québec. Septembre n'était pas encore terminé que le régiment s'est vu décerné le trophée "Cape Challenge Cup" obtenue pour la 3e position lors de la compétition nationale des régiments d'Artillerie de 1992. Rappelons que l'unité avait remporté le trophée pour la 1e position lors de la compétition de 1991.



Présentation du trophée "Cape Challenge Cup" en compagnie de l'Adjudant-Chef Réjean Boisvert, CD, L'adjudant-Maître Denis Girard, CD, Sergent-Major de batterie, le Capitaine Jean-Guy Moreau Commandant de la batterie, le Colonel Gérard Dufresne CM, O St J, ED, CD, Colonel Honoraire du régiment, le Lieutenant-Colonel le très honorable Antonio Lamer, CP, O St J, Lieutenant-Colonel Honoraire du Régiment et le Lieutenant-Colonel Gaétan Tremblay, CD, Cmdt du régiment.

En novembre, pour la 2e fois de son histoire, le régiment s'est déployé dans les secteurs de la BFC Valcartier dans le but de participer à l'exercice AUTOMNE CHAUD. C'est un exercice régimentaire de tir réel impliquant la 81e batterie, la 185e batterie et la batterie de commandement et services. Une fois par année, cet exercice renforce l'esprit de compétition et apporte de nouveaux défis aux commandants de batterie.

L'année s'est terminée en beauté car le 4 décembre l'unité fut l'hôte du souper de la Ste-Barbe qui réunissait tous les artilleurs de la province de



Le très honorable Antonio Lamer, CP, O ST J, Lieutenant-Colonel Honoraire inspectant la garde de caserne lors de son intronisation.

Québec. Environ 140 personnes furent présente à ce souper qui a permis d'échanger quelques vieux souvenirs entre les invités présents.

En terminant, il ne faut surtout pas oublier notre musique régimentaire qui, cette année, a participé à plusieurs activités telles que; plusieurs Dîner Régimentaire à St-Hubert, Sherbrooke, 5e Régiment d'Artillerie Légère du Canada etc et l'événement à retenir fut la cérémonie d'ouverture du Fort de la Martinière, à Lévis, le 1 juillet 1993.

Ubique.



Une vue d'ensemble de notre musique régimentaire lors du changement de commandant.



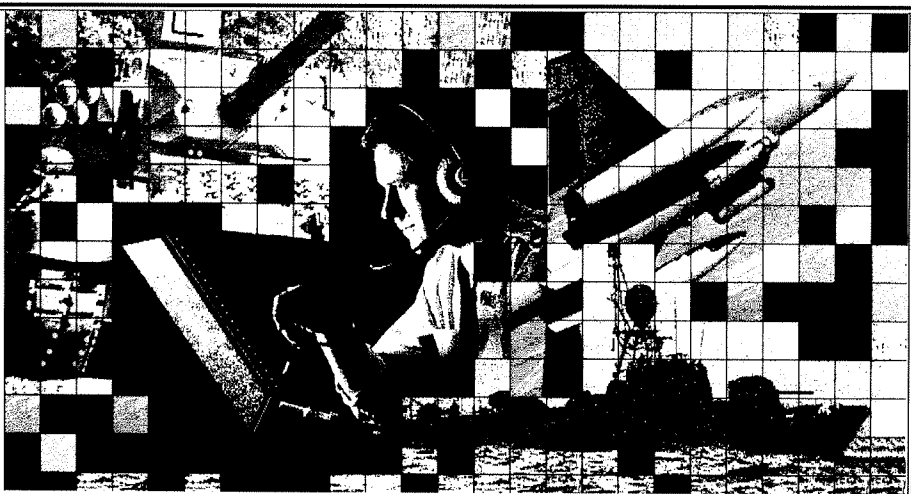
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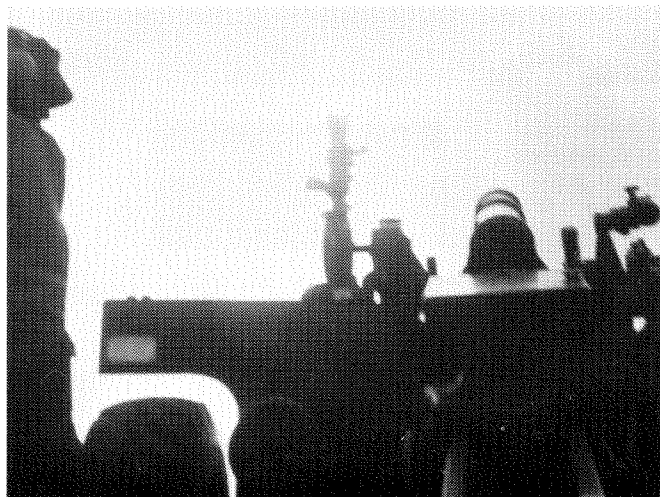


116 INDEPENDENT FIELD BATTERY ROYAL CANADIAN ARTILLERY

116 Independent Field Battery counts among its members, soldiers from all over Northwestern Ontario and Manitoba. Personnel meet in Kenora every second weekend after travelling from locations such as Winnipeg, Rainy River, Fort Frances, Dryden, and Thunder Bay. The unit boasts a close comraderie which exists despite the fact that personnel may live up to 700 km away from each other. These gunners experienced a broad range of training that proved professional and rewarding.

The year started with the unit's winter indoctrination/winter warfare exercise (Ex NORTHERN EXPOSURE 93). The unit members spent a weekend north of Kenora practising patrols, section attacks and winter survival. The training was hard yet rewarding and the -40 degree temperature lead to inclement conditions which could have quickly become hazardous. Nevertheless we persevered and had a very successful weekend of training.

In March, 116 Indep Fd Bty, spent a week at CFB Shilo, learning and improving their skills as soldiers. Training included NBCD, first aid, familiarization with C7, C9, C6 and M72, as well as the annual BET.

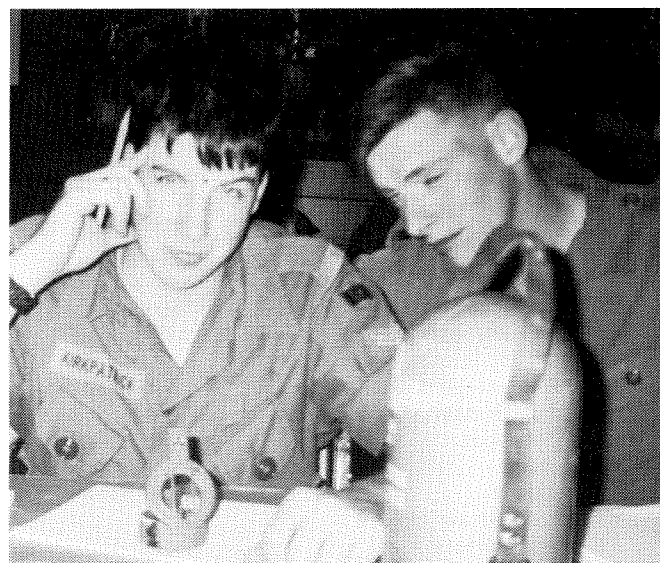


St. Barbara appears to the gunners of 116 Bty.

Later in the week, the unit went to the field to employ their skills as gunners. This proved to be an excellent exercise (Exercise ROLLING THUNDER 93) giving the unit members a chance to improve their gunnery skills and introduce the students on the QL3 to the guns.

In early April the Battery broke into teams to compete in Exercise LOST NAVIGATOR 93. This competition requires the teams to successfully identify and answer questions pertaining to landmarks around the Kenora area, without being seen by other teams or exercise administrators. The route was over twenty kilometres long and challenging but the exercise gave members excellent navigation and camouflage and concealment experience.

On the 15th of May 93, 116 Indep Fd Bty, officially changed command from Major N.J.G. Dufresne, who went on to his posting of DCO 26 Fd Regt, to Maj D.A. Fraser. The event was marked with the Change of Command Parade, presided over by



*An early morning for Tech Part I.
Bdr's Kirkpatrick and Brumwell begin work.*

Col Jefferies, Comd Man/Lkhd Dist, followed by a boat cruise aboard the MS Kenora on the Lake of the Woods.

Exercise RABID BADGER 93 was the last exercise undertaken by the unit before summer training began. The District Level exercise was based on defensive operations and saw 116 merge with 26 Fd Regt to set up a battery defensive position in CFB Shilo. Afterwards, the unit moved to Winnipeg to fire the Victoria Day Royal Salute on the Manitoba Legislative grounds, with augmentation from 26 Fd Regt.

Before the Battery members left for individual training during the summer, 116 had graduated QL2, QL3, LFC Driver Wheel and Arty Driver (TOW) courses.

After the gunners of 116 had completed their various summer tasks, the unit mustered again in Wainwright, AB, for the annual LFWA concentration, Exercise WESTERN CHALLENGE 93. For this exercise, 116 provided, along with 26 Fd Regt, the senior battery, 311 Bty, of the Western Training Brigade's Western Artillery Regiment, with 116's CO, Maj D.A. Fraser, acting as BC.

As the exercise drew to a close, the Western Artillery Regiment was asked to provide a company to act as D Coy, of the Western Training Brigade's Infantry Battalion. 116 gunners became infantrymen as they again combined with 26 Fd Regt to comprise 1 Platoon, D Coy, with Maj Fraser assuming the role of Company Commander.

In September, training began again in earnest. A QL3 Arty and an Arty Tech Part 1 got underway, training the graduates of the summer's QL2 and increasing the technical experience in the battery. Later, the unit moved to Shilo in October to take part in a small arms shoot, training the soldiers on accurate use of the C7. As well POL recognition and first aid were included. While the rest of Canada was glued to

their TV sets watching the Blue Jays win their second straight World Series, the members of 116 were roaming the grounds of Shilo on a Navigation Exercise.

The unit was glad to see the safe return of two of their own, Sgt Shawn Attrux and Cpl Ross Good, who had served with 2PPCLI in the former Yugoslavia. Their actions to further peace in that region both inspire and give pride to all members of 116 Fd Bty.

Now, the "Black Sheep Battery" looks forward to 1994 and the challenges that lay ahead. As well we eagerly anticipate moving into the New Kenora Armouries in about a year. The experience that unit members received from the training underwent in 1993 have increased their professionalism and potential, and we all look eagerly to the future for more training and more chances to serve.



*Gnr's Windross and Linklater.
EX NORTHERN EXPOSURE 93.*



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1ST AIR DEFENCE REGIMENT ROYAL CANADIAN ARTILLERY (LANARK AND RENFREW SCOTTISH)



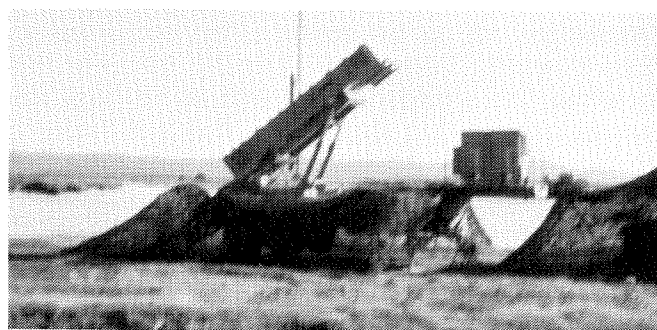
Another Javelin is launched against a Banshee over CFB Petawawa's Training Area.

1993 has been a very successful first year for 1 AD Regt. It has also been so busy that there has been little time to enjoy our successes.

The spring and early summer were spent preparing for the Regimental change of command and the Area Rank and Trade School. In June the Regiment's command was handed from LCol David Frausell to LCol Bruce Armstrong. Other key personnel changes included the 89 AD Bty command changeover from Capt Doug Hollin to Maj Dana Clarke and the transfer of the RSM's pace stick from MWO Tom Hollett to CWO Terry Yemen.

The summer training schedule was very hectic but productive. By the end of August two serials of the Basic Javelin Operator, LFC Driver Wheeled and Basic Communicator courses had been completed along with a serial each of the Driver Light Track and Basic Recruit Training courses.

Over the Labour Day weekend the Regiment hosted its first Javelin live firing camp. Firers from 4 AD Bty in Chatham and 58 AD Bty in Valcartier were on hand to participate in what can be argued to have been the most successful Javelin firing camp in Canada ever. Almost 50% of the missiles fired achieved technical kills against the Meggitt Aeromarine Banshees. In fact, a total of 4 Banshees were destroyed. The high point for the Regiment occurred when Gunner Shannon Leroux annihilated her target with



11 Air Defence Artillery Brigade, of Fort Bliss, Texas, deployed Patriot for the first time on Canadian soil as part of EX WIDE SKY.

her first missile, despite having waited out a 2nd stage misfire 20m in front of the firing point for 45 minutes.

Three weeks later the Regiment hosted Exercise WIDE SKY. This was a joint Canada/US air defence exercise with elements of 11 Air Defence Artillery Brigade from Fort Bliss Texas deploying Stinger, Avenger, Improved Hawk and Patriot. This exercise marked the first time that Patriot was deployed to Canada. Though brief, this field training exercise was almost as popular with the soldiers as the barbecue that followed at the Pembroke Armouries.

For the remainder of the year we put up our Javelin to get back to the basics of soldiering by carrying out LFCA Warrior training. Personal weapons skills and fitness were stressed while achieving a basic level of knowledge regarding combat life saving, NBC defence, navigation, C6, C9, SRAAW light, SRAAW heavy, M67 grenade and radio voice procedure. Skill levels among the unit members varied greatly, contributing to the challenge of meeting the standards as a Regiment. The Warrior Training program reinforces the value of basic soldier skills while ensuring that all unit members are confident in their own abilities. We look forward to continuing our air defence training in 1994 with a serial of the Air Defence Technician course this winter and air defence Area Rank and Trade School this summer. Ubique.





18TH AIR DEFENCE REGIMENT ROYAL CANADIAN ARTILLERY

INTRODUCTION

1993 was a year of tremendous growth and activity for the Regiment. The nominal roll increased month by month and the training calendar soon filled up with all sorts of activities. One of the most important events was the Regiment's official rerolling to air defence which took place on 15 May 1993. At that time, 20th Independent Field Battery paraded for the last time and the new Commanding Officer, LCol S.E.I. Steinke took over the Regiment.

The rerolling parade was a great success. Three military bands and a flypast of two CF-18s served to highlight the ceremonies. Several dignitaries were also in attendance, including the Mayor of Lethbridge and Honourary Colonel of the Unit, His Worship David Carpenter and our own Colonel Commandant, who resides just a short distance from the Armouries in Lethbridge. The parade was capped off with an Artillery Guest Night at the Lethbridge Lodge with over 250 in attendance!

From the parade onward the unit leapt, with both feet, into the many challenges of Total Force and the fielding of the Javelin S-15 missile system.



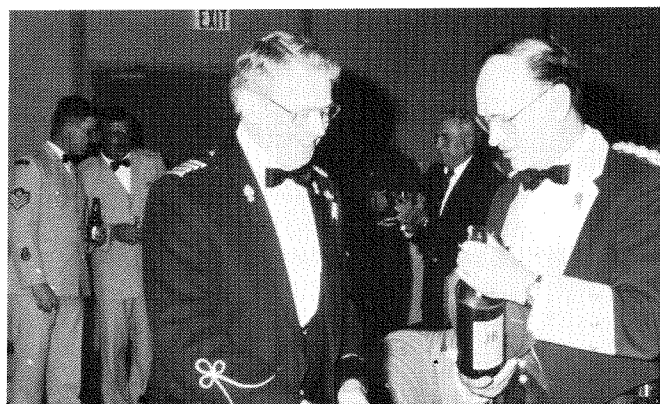
The new Commanding Officer of the 18th Air Defence Regiment, LCol Sheldon Steinke, accepts the Command Sword from BGen C.A. Walker, DComd LFWA during the rerolling ceremonies held on 15 May 1993.

EXERCISE WESTERN CHALLENGE

The first opportunity for the Regiment to prove itself came on Exercise Western Challenge when 20th Air Defence Battery, commanded by Major Chris Kilford, deployed in support of the Western Training Brigade. The two-week exercise, at the end of August, involved 83 of our personnel in 15 full Javelin detachments and untold numbers of aircraft and helicopters. The Battery was also visited in the field by Lt Gen Morneault, DComd LFC and Lt Gen DeFaye, Comd LFWA. Later, BGen Cox, Comd 1 CMBG also had a chance to meet with the BC and discuss our impending operational task in support of his Brigade. The Battery, without a doubt, made a very positive impact on all those who visited and demonstrated that Regular Force and Reserve soldiers can easily work side by side.

EXERCISE BLAZING ARCHER 93

The spirit of cooperation and teamwork was also instrumental in the Regiment's first live fire exercise held in CFB Suffield in October. In all, 65 missiles were fired down range with two of the tiny Banshee targets being blown to bits. Numerous technical kills

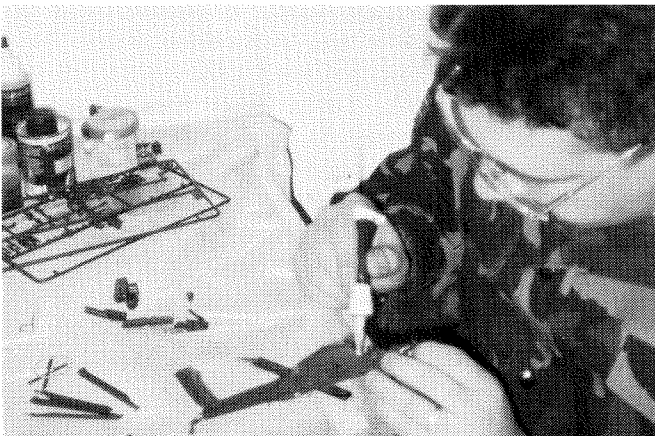


Post rerolling parade activities - the Colonel Commandant presents Col John Fletcher, Commander Alberta Militia District with a bottle of the "finest".

further highlighted the exercise and once again visitors flocked to see us in action. And action there was. In addition to the live firing, the unit also deployed on a tactical exercise that included dry deployments and plenty of night patrolling. The Javelin gunners were tired but realism and good use of every training minute was definitely achieved.

EXERCISE POISON DART 93 AND SUPPORT TO THE AMF(L)

All of the training conducted by the unit in 1993 was done with one purpose in mind - to meet our operational readiness date of 1 September 1994. On this day the Regiment will be responsible for providing air defence for 1 CMBG. However, no one was to be found just sitting around and waiting for this magical date to arrive. In fact, the unit was earlier tasked to provide eight Javelin Detachments as part of the AMF(L) from April to December 1993 and, in early December, the command section of 20th Battery deployed on Exercise Poison Dart, a 1 CMBG CPX. This exercise allowed us to test our readiness and skills while working within the ASCC and with the Brigade staff. The exercise also increased the overall awareness of air defence in the Brigade and paved the way for future exercises involving the entire Battery.



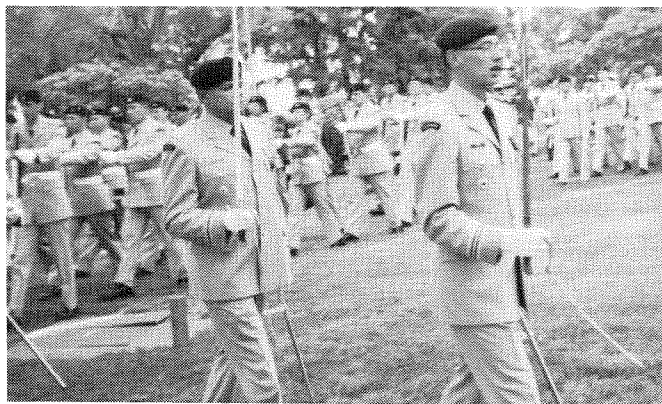
Bdr Klein, the unit Aircraft Recognition NCO, hard at work building models for future aircraft recognition and tactics lessons.

SPORTS

Life in the Regiment was not all work though. In early April a small team of 8 soldiers took part in the Comox Snow-to-Surf race and placed 61st out of 160 teams. The race involved one downhill skiing leg, one cross-country skier, one mountain biker and one road biker, two runners and finally two canoeists. The team had a superb time and are now in training for next year.

Meanwhile, the Regiment also fielded a 16 person soccer team, coached and managed by Capt Tim Folkerson, that competed in the Lethbridge Indoor Soccer Tier II League. The first game was against the League's number one team "Croatia", and after a hard fought game the Gunners lost by only one goal. In other league play the team continued to perform well and provided the unit with some excellent "PR".

On the running front the unit was also extremely active. The Regiment was a co-sponsor of the Peter Kooy/Scotty Armit 5 km Memorial Road Race and unit members took part and volunteered as "pointspersons". The Scotty Armit portion of the road race was last organized by the unit in 1963 - so a tradition was reborn some thirty years later in recognition of Mr Armit, a famous runner, who was killed in World War II. Major Chris Kilford also represented the Prairie Region in the CF Nationals (10 Km) held at CFB Kingston in October, and although he



Major Chris Kilford leads 20th Independent Field Battery past the reviewing stand for the last time. The Battery is now the 20th Air Defence Battery.



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didn't win, he wasn't last either. Gnr Keewatin Conner also proved himself to be quite the cross-country runner, finishing second in overall standing within the Province.

UNITED NATIONS

All the work and all the play served the unit very well. Eleven members served with 1 RCHA in Cyprus including the Commanding Officer who took command of Rural Battery for the duration. Two soldiers, Gnrs Dombowsky and Hunter also served with 2 PPCLI in the former Yugoslavia and returned safely. They will be followed in early April 1994 by 14 more volunteers, regular and reserve, who will serve with 1 PPCLI and the LDSH (RC). The experience gained by these individuals has and continues to be invaluable and their service is an inspiration to all those who are not able to go.

FUTURE ACTIVITIES

While our soldiers busily prepared themselves to go overseas on United Nations duty, the folks back in the garrison were equally hard at work conducting courses, building aircraft models for recognition training, giving each other karate chops in unarmed combat classes and preparing themselves for another 50 recruits! It is expected that by the summer of 1994 the unit will go from its present strength of 130 to 160 or more. With any luck this will allow us to start up 39th (Training) Battery in Lethbridge and prove that

the city will easily support a Regiment size organization.

In February 1994 our armoury will undergo extensive renovations and a new maintenance hangar will be built as well. These renovations (almost a million dollars) will be needed right away as space is limited now and, on an average parade night with over 100 air defenders on the armoury floor, it's becoming very difficult to turn around without bumping into someone else. Despite this short term lack of room, in one short year the concept of Total Force has certainly proven itself in Lethbridge and 1993 has been a great success.



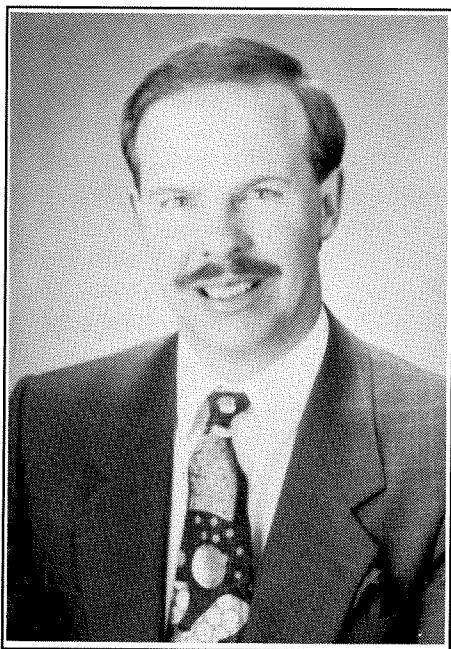
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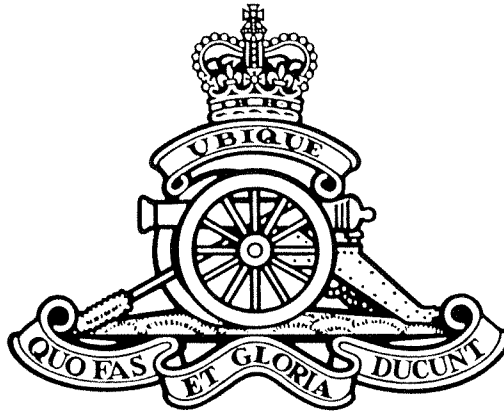
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119 AIR DEFENCE BATTERY ROYAL CANADIAN ARTILLERY

The year 1993 has come to an end and so have all the high expectations and plans for the year. We don't always get to see the fruits of our labours but 119 AD Battery has been fortunate enough to see some of the results. When we look back at the year many events come to mind such as unending manning and organizational changes, awards, promotions, training support to the Air Defence Artillery School, battery run courses, postings (in and out), the Initial Operability Capability (IOC) trials, social events, operational training, individual training, the integration of 128 Battery and many more.

The year began with a cold plunge into winter indoctrination and warfare training. You would think by now we would be accustomed to winter survival but each year it seems to bring a challenge. Normally the thick mud under a couple feet of snow and rain is a problem but in 1993 temperatures as low as -55 degrees Celsius, with the wind chill, reminded everyone the importance of maintaining that winter gear.

The month of February was celebrated with a bit more snow and a warm Chatham Winter Carnival. Some people definitely came out of it with egg on their face, especially following the egg toss event. Although

119 Battery didn't place first, we came a close second and will certainly be up to the task for the 1994 Winter Carnival to reclaim the title we held in 1992.

For most of CFB Chatham, the year began in typical fashion: looking forward to the 1993 Winter Carnival. 119 Battery, however, had a few additional items and events to look forward to. The battery took its turn as the IRU (Immediate Reaction Unit) for January. No one minded being on eight hours notice to move for an entire month since the area of CFB Chatham is such an entertaining place for the young and old. C and E troop were not part of the IRU since they were preparing for EX PERFECT KILL 9301 in Suffield, the ADATS live fire exercise. The actual firing took place from the 1 to 5 Feb 93. This time the gunners had a chance to engage a real T-72. A couple of gunners distinguished themselves by making a double kill against both an air and ground target: Good shooting Gunner Makin and Gunner Mason.

In March several members travelled to CFB Gagetown to take part in a Basic Communicator Course at the Armoured School with Bombardier Dewert of B Troop topping the course. The battery also had the opportunity to use the new scopes for the



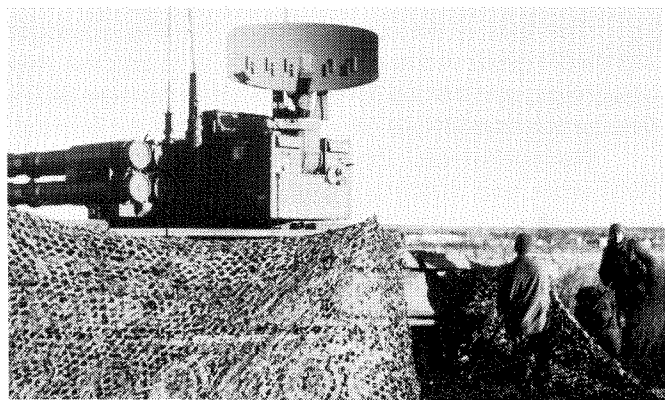
Captain Shrum keeps her troop Sergeant Major, Master Warrant Officer Labrie, updated on the tactical situation during EXERCISE LONGSHOT I.



The Airfield Battery Command Post manned by Lieutenant Embree, Master Bombardier Hawes, and Bombardier Nicholas during EXERCISE LONGSHOT I.

C-7 and C-9 during a "Shoot-to-Live" program in March at the Tracadie Range. During this month the Battery welcomed the Premier of New Brunswick, the Honourable Frank McKenna, who presented selected members with the "Canada 125" medals. Congratulations to: the CO, Maj Tremblay; the then BK, Capt Lavoie; the then Battery Sergeant Major (BSM), Master Warrant Officer (MWO) Lynch; MWO Lee; MWO Provenchie; WO Gillman; WO Shire; WO Sweet; Sgt Audet; Sgt Cousins; Sgt Beland; Sgt Bigger; Sgt Young; and MCpl McIssac.

During the year several events came and went, some with rather emotional tones such as the passing of the annual inspection, much to the relief of the Maintenance Officer Captain Parent. The Battery was pleased to present the Chief of Defence Staff Commendation to WO McIntyre. The Air Defence Artillery School was quick to snatch him up and now he has crossed that line, the street between hanger 4 and Building 57, to the "Centre of Excellence". We had the opportunity to welcome some other distinguished visitors throughout the year including the Master Gunner of St James' Park, Lt Gen Farnsdale, and Brigadier-General Dallaire, who learned a bit about operating a radar console of an ADATS. Brigadier-General Stevenson made several trips to CFB Chatham and many more visitors were welcomed



D Troop camouflages an ADATS (and finding it is not a simple task) in preparation for the Airfield IOC in December 1993.



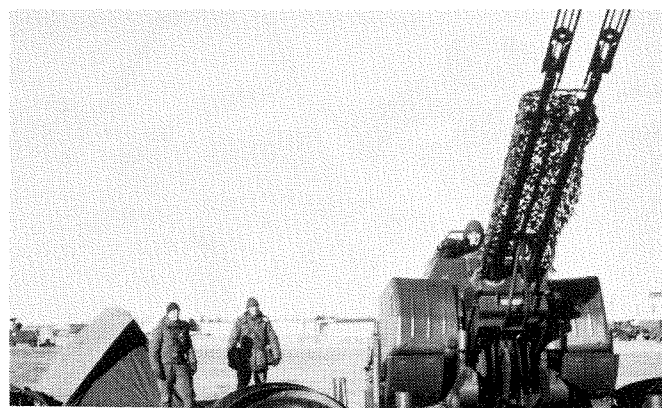
Major Tremblay, Commanding Officer of the 119 AD Bty, and Master Warrant Officer Lynch, the Battery Sergeant Major, presents Bombardier Beauchemin with The Top Gunner of the Year Award.

throughout the year. The Battery also continued their support of the AD Arty School while supporting trials for the Gun-Skyguard system and the airfield air defence trials.

EXERCISE SILENT STALKER served to work out a few bugs prior to final preparations and training for the long awaited Installation Battery Trials. Following this exercise, the greater task came when approximately five kilometres of range had to be swept for duds from unexploded munitions. Due to the closeness of the terrain, this proved to be an overwhelming task for the small contingent.

Included in the year were the more conventional aspects of battery life such as annual gas hut training and family day, not at the same time of course. Family day afforded the families of the soldiers an opportunity to see first hand what their loved ones do in the "army". Over the year courses were conducted such as the Air Defence Technicians Course, the Pre-Combat Leaders Course, Internal Security Training, the Battle Efficiency Test, Group Thirteen Trials, and an HLVW Course, just to name a few.

The Battery said goodbye to several persons during the year, the two most obvious being the Battery Sergeant Major, MWO Lynch and the BK, Captain Lavoie. The new BSM, MWO Jordan, was welcomed in fine fashion during a field exercise in Tracadie, and the new BK, Captain Proulx managed to



A Troop manning the Guns for the Airfield IOC on a brisk November morning.



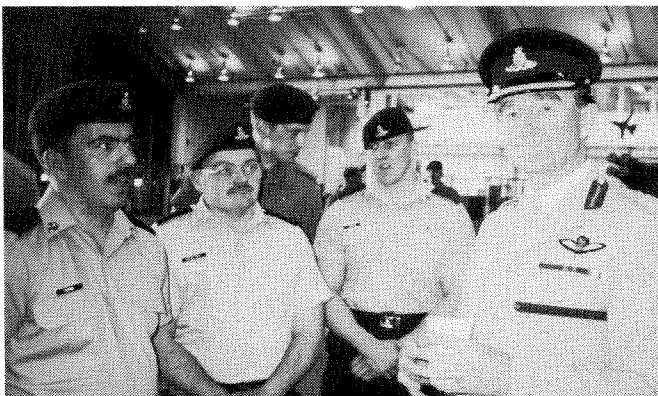
Master Warrant Officer Randell and Sergeant Perry of 128 Battery keep a watchful eye on the Gun-Skyguard detachments during EXERCISE LONGSHOT I.

sneak in quietly (we are still not sure just how he did that). The Battery said hello to many more people including all of 128 Air Defence Battery personnel and equipment. What a party!

With all of the normal events and training going on, 119 had its priority, the Installation Battery (Airfield) IOC conducted as EXERCISE LONGSHOT I. The importance of the training was made more obvious when one remembered the history of the Low Level Air Defence (LLAD) System. The acquisition of the LLAD system began in the 1980's when NATO asked Canada, and other contingents, to provide their own LLAD. The threat to ground troops from highly advanced aircraft and attack helicopters was demonstrated during the Persian Gulf War. Equipped with antiquated naval anti-aircraft guns and a limited shoulder launcher missile system, Canada desperately needed a new Air Defence System which could react to pop-up and stand-off air weapon systems. The amount of time and energy to train people and keep them current on the new highly technological systems such as ADATS and Skyguard has meant sacrifices of both time and energy for the personnel of 119 and 128 Battery over the past year. The combined batteries embarked on an intense schedule to try to meet IOC preparation deadlines but were met with difficulties acquiring the kit to train on.



Sergeant Chamberland assists one of his detachment members on the gun on a very cold November morning during EXERCISE LONGSHOT I.



WO Dionne, Sgt Webster and Sgt Poirier bend the ear of Lieutenant-General Farnsdale, Master Gunner of St James Park, while he visits with 119 AD Battery, RCA.

September saw the completion of the 35mm Gun Operators course after delays stopped training during the month of August. This month also saw the beginning of a 35mm Detachment commander's course and training for the IOC move from detachment level up to troop level. To the chagrin of a few of the local populace the exercises up to and including the IOC were well supported by airpower both Canadian and American. The pilots were given an excellent opportunity to test their skills against some of the most sophisticated Air Defence Systems in the World and to their dismay they found that the ADATS and Skyguard System's accuracy and detection range make a formidable opponent. I believe the words used could have been expressed as "WOW, I'm glad you're on our side" and "When can we come train with you guys (and gals) again?"

The fighting troops are not the only ones who were involved in the preparations for the IOC. Maintenance, Support and Operations Troops were part of the trials as well. The diligence required to maintain these highly technological systems requires a close marriage of maintainers and operators at all times.

Operations troop personnel prepared for the operation of the new BCP (Battery Command Post) which must marry up with the Fire Control Units by various communication links, a process which seemed to be not entirely user friendly.

The battery exercises prior to the trials brought significant gains in the operators' ability to use the new equipment, and helped to form the basis for new SOPs vital for the smooth operations of an Installation Battery.

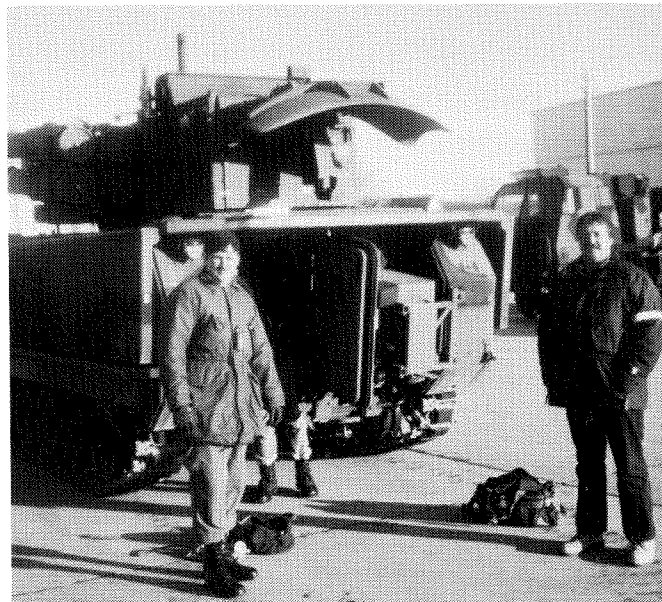
November and December brought even more hard work and training but some pretty hardy party time as well. During St Barbara's Day celebrations the Officer/Sr NCO hockey team made a fine showing and turned the tables on the Jr Ranks. The score was almost the reverse of the previous year so obviously some of our newcomers know their game. The St Barbara's annual Officer's "Dining In" came off with a bang, literally, as Captain Robinson of the Air Defence Artillery School celebrated his departure from the



Master Bombardier Cotnoir and Bombardier Haun prepare to send up the balloon for some quick meteorological data for the Skyguard during EXERCISE LONGSHOT I.

military with the use of his "Mini Gun" during the "wee" hours of the morning. Some nearby windows and residents were a bit shaken by the artillery fire and the Military Police did not hesitate to wish the "Mini Gunners" a Merry but Quiet Christmas.

The end of 1993 brought 119 Battery to what may be considered the halfway point of operational readiness. The Installation Battery IOC was completed and the Brigade IOC was yet to come. As the year came to a close and the festive season passed, 119 Battery looked to a somewhat uncertain future, along with the rest of the military community. But we still had a goal in mind, to provide our fellow Canadians with the best trained air defenders and most efficient LLAD system in the world. Now as we look ahead to 1994 some things are certain, people will continue to fight, for whatever reason, and long buried regional, religious and ethnic hostilities coming to a head in many parts of the world are creating a potential nightmare for the future. As air defenders we must be able to protect Canadians, wherever and whenever we are called upon to do so. We have the technology and we at 119 Air Defence Battery want to be ready to use it, if that time ever comes.



Sergeant Trask works with a member of Oerlikon Aerospace, Gabriel Boivin, to ensure the ADATS are up to date and ready for EXERCISE LONGSHOT I.



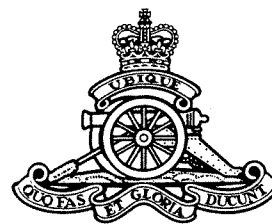
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FIELD ARTILLERY SCHOOL

1993 was a dynamic year for the Field Artillery School. Faced with declining resources, the School continued in its role of administering individual training for the Royal Regiment of Canadian Artillery.

The main focus of the School was directed at conducting basic and advanced artillery courses. The Instructor-in-Gunnery (IG) course, serial 9201, completed their final phase of the course which included the Battery commander's (BC's) Fire Planning course. External support from 5 RALC made it possible for the School to develop a divisional artillery organization. Fire units that were available to the students consisted of two regiments of artillery, a mortar group and close air support with CF 18s. Daily, the IG students would alternate in developing the tactical scenario. Coordinating these multitude of fire systems provided the IG with a unique challenge to coordinate simultaneously the weapons safety restrictions in concert with the safety of our own troops while maintaining a realistic tactical scenario. The student BC would extract the necessary information from the scenario, provide advice on the best employment of indirect fire and develop the fire plan to best meet the needs of the Commander. IGs/AIGs

from the School manning the divisional artillery, both on a mission call basis and for fire planning, was an extremely responsive, rapid and efficient system. Changing the tactical missions of the regiments periodically demanded that the student BCs understand the responsibilities of the regiments, specifically concerning the provision of communications and priority in call of fire. All elements of the School contributed significantly to the exercise by providing the necessary fire direction centre, gun detachments and supporting elements. Working as a regiment under divisional control provided all ranks with invaluable experience concerning higher level operations.

With the completion of the IG course, the School was in a good position to tackle the busy summer training period. Five basic officer courses were conducted which culminated with Exercise NIMBLE BARBARA. The members of the School contributed significantly to the exercise by providing gun line officers, headquarters staff, drivers and gun detachments. The exercise was an intensive 11 day fire and movement designed to test the leadership and technical ability of all students on course. Maximizing the training area at CFB Gagetown and venturing into territory not previously used by the guns, provided for



Sgt Finn being presented with the New Brunswick Day merit by the Mayor of Oromocto in recognition of his contribution in the category of volunteer service.



WO Lizotte, TSM Gun Troop, providing support to phase IV.

some interesting and challenging deployments. Outside the summer training period, advanced artillery courses were conducted including two Forward Observation Officer (FOO) serials and a 6A Detachment commander's course.

The School lent support to many other exercises, notable among these were Exercises POWER PROJECTION and STAUNCH GLADIATOR. These live fire power demonstrations afforded the School with the ancillary benefit of participating in a combined arms team. Additionally, the School provided a FOO party to Exercise COMMON GROUND, the final exercise for infantry/armour Phase IV candidates. This effort made it possible for the students to



Capt Plante supporting phase III.

recognize the methods in which indirect fire support is integrated into a combat team.

Although principally involved with the conduct of courses, the School is committed to its ongoing responsibility to develop, standardize and evaluate artillery training and programs at the Combat Training Centre. This work is directed toward integrating the

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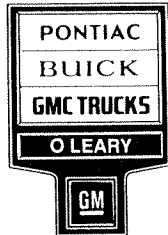
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Reserve Forces into Regular Force courses as well as restructuring the 6B, AIG, and QL 7 courses to fit the NCM career profile.

Several members of the School distinguished themselves by taking part in United Nations duty. Maj C.R. Voss and Sgt P.J. Ready completed their assignments in the former Yugoslavia. Maj E.G.

Campbell and Bdr M.I. Volpato left to support United Nations operations in Italy and are scheduled to return in March 1994. Capt R.W. Bachynsky and Capt S.W. Morrison completed a three month assignment as Forward Air Controllers in Bosnia. Sgt W.G. Gittens also found employment in the former Yugoslavia as a Transport NCO for OP MANDARIN and MBdr A. Johnson served with OP DANACA in the Golan Heights.

The officers and men of the field Artillery School saw a number of key personnel changes in the School. Maj K.F. Haeck took over as CIG from Maj B.W. Travis who left to complete his degree at the University of New Brunswick. In HQ Battery, APS 93

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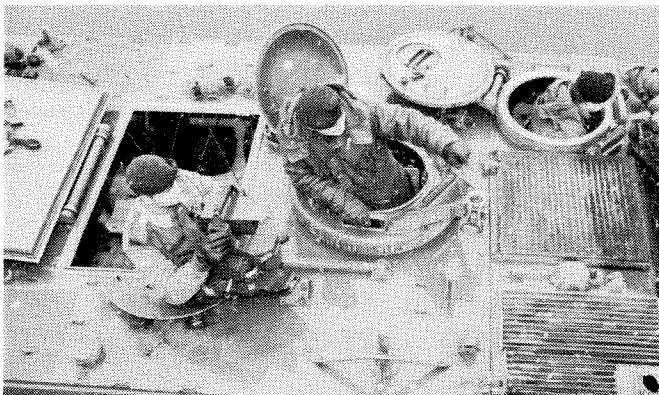
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saw a change in the Battery Commander and Battery Sergeant-Major with the posting of Capt L.W. Herod and MWO E.B. Mills. They were replaced by Maj C.R. Voss and MWO J.R.G. Moretti. In Field Battery, MWO M.L. McDonald took over as BSM Field Battery replacing MWO K.J. Norman who retired in April. Capt G.D. Gillis, posted in from Shilo as Battery Captain of W Battery, took command of W Battery during Maj E.G. Campbell's absence while on UN duty.

The Field Artillery School closed off the year in the traditional way with the Mens' Christmas Dinner.



The FOO, Capt J.B.G. Lessard, directs his tech, Bdr R.G. Schnarr, to the target area during the TAS 10 trial. The driver, Bdr J.L.E. Ryan, is ready to move at a moments's notice.

The Commandant used this opportunity to express his gratitude to all ranks for their continued dedication and professionalism.

The aforementioned is but a resume of the School's achievements from the past year. However, mere words cannot accurately portray the considerable effort put forth by the men and women of



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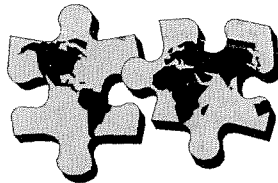
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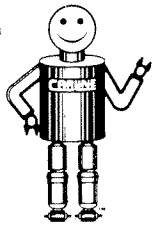
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the School. Under an atmosphere of confusion and concern as to what the future will hold, the soldiers of the Field Artillery School accepted the rent, tax and accommodation increases, realized the logic behind wage freezes, acknowledged the need to reduce defence spending, confronted their frustration with the false perception that they are not suited for UN duty, and soldiered on setting such an example of professionalism that they epitomized the very word. We close with a salute to the soldiers of the Field Artillery School and Gunners everywhere.

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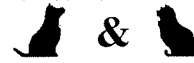
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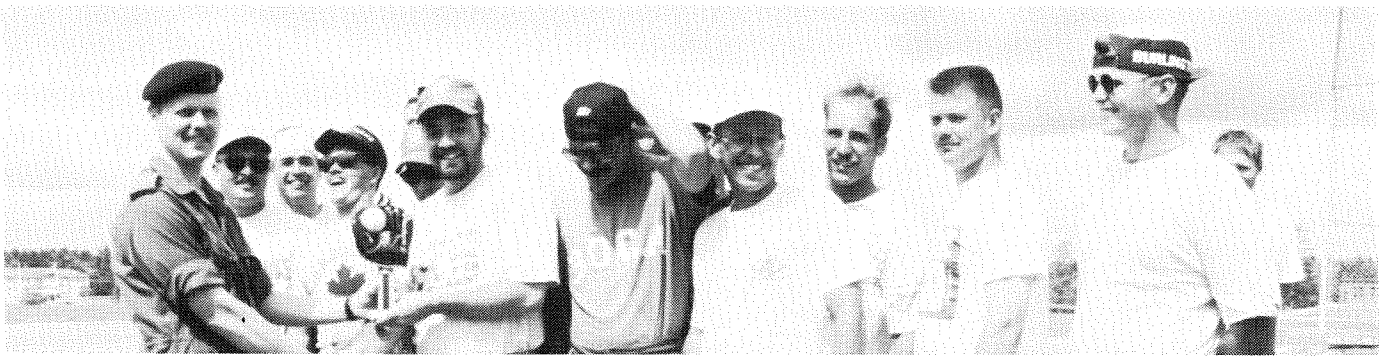
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Artillery School slow pitch champions accept the championship trophy from LCol B.W. MacLeod and Maj S.N. Upton. From left to right: LCol MacLeod, Bdr Brady, Bdr Benard, Bdr Lelievre, Bdr Bergeron, Bdr Turcotte, Bdr Smith, Bdr Lacoste, Bdr Flynn and Maj Upton (in background).



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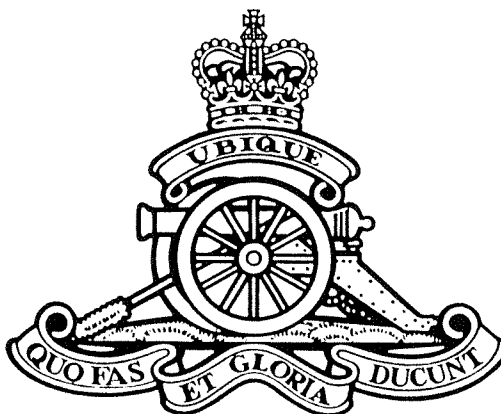


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AIR DEFENCE ARTILLERY SCHOOL

INTRODUCTION

1993 was a demanding, yet rewarding year for the Air Defence Artillery School. Highlights of the year included the introduction of Total Quality Management/Leadership and Strategic Planning techniques to School operations, the conduct of another successful ADATS live firing exercise, continuing support to the LLAD Project implementation. Visitors to the School included a number of high profile guests including the Premier of New Brunswick, the Honourable Frank McKenna, MLA; the Master Gunner St James's Park, General Sir Martin Farndale, KMG; and the Colonel Commandant of the Land Electrical and Mechanical Engineering Branch, Colonel Murray Johnston, CD.

Premier McKenna visited in March to present medals commemorating the 125th anniversary of Confederation to twelve members of the School. These medals were part of New Brunswick's allotment which the Premier had directed to be presented to deserving military personnel serving in the province. This was an effective means of thanking military personnel, on behalf of the people of New Brunswick, for their continuing service and commitment.

The School took advantage of the concurrent

visits of the Master Gunner St James's Park and the Colonel Commandant on the 3rd of May to celebrate the Artillery and LEME birthdays. This occasion was made especially memorable by the mounting of a 50 soldier Guard of Honour and the conduct of a GDF-005 35mm Gun Salute fired by soldiers of 128 AD Battery, RCA. This salute was only the second of its kind ever fired by Canadians and the first ever in Canada. The visit programme also included a superb dynamic equipment display involving tactically deployed Javelin, ADATS and GDF-005/Skyguard detachments, field deployable elements of 210 AD Workshop and two CF-18 aircraft in the role of "targets". The programme concluded with a Special Guest Night at the Officers' Mess.

The organization of the AD Artillery School comprises School Headquarters and four sub-units - 4 AD Battery, RCA, 210 AD Workshop, Gunnery Training Battery, and Maintenance Training Battery. These are their stories.

4 AIR DEFENCE BATTERY RCA

The past year has been witness to the stabilizing, and maturing of 4 Air Defence Battery as we continue to fulfil our role of supporting the Air Defence Artillery



Premier McKenna inspecting the School escorted by MWO Montague, LCol Selbie and Maj Jarrett.



BGen Dellaire signing the School's guest book as RSM Burgess and the Cmdt look on.

School. Presently we are made up of two Troops: one fighting Troop, with one Wheeled Section and one Tracked Section; as well as the Headquarters Troop. We are equipped with the Javelin S-15 missile system and conduct the bulk of our training in the Tracadie Training Area in Northern New Brunswick. Although supporting the Air Defence Artillery School encompasses the majority of our time and manpower, we still have managed to conduct continuation training for our soldiers and provide them with the courses necessary for maintaining and improving their qualifications. This will better enable us to achieve our mission of supporting the School while maintaining



The Master Gunner St James's Park, Sir Martin Farndale, speaking with Bdr Ammeter, escorted by Capt T.P. Harder, RA, British exchange officer to the AD Arty School.

better cohesion by allocating complete troops or at least detachments to support various activities.

An important task assigned 4 AD Battery is the planning and conduct of live firing exercises on behalf of the Air Defence Artillery School. We also lend our support to all Air Defence practice camps that take place. 1993 was a busy year for live fire practice camps. The Battery participated in three Javelin practice camps: EXERCISE BLAZING ARCHER 9301 in CFB Gagetown; 9302 in CFB Petawawa; and, 9304 in CFB Suffield. 4 AD Battery conducted EXERCISE BLAZING ARCHER 9301, a combined Skyguard Twin 35mm gun and Javelin live fire practice camp. This exercise involved firers from 58 Bie and 1 Air Defence



Col Johnston, Col Cmdt of the LEME Branch, inspecting the quarter guard, escorted by Sgt Davidson of 4 AD Bty.

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Regiment (L & R Scots), with 4 AD Battery controlling all facets of the camp.

Highlighting our participation in the three Javelin live fire practice camps was EXERCISE BLAZING ARCHER 9302, held at CFB Petawawa, where eight of our Gunners fired their first live missile. Approximately 60 firers fired live missiles, 13 of these firers were from 4 AD Battery, the remainder came from various Total Force units. 4 AD Battery trained extremely hard for this camp which resulted in our Gunners coming away with the best average "miss distance" of the three participating units.

The ADATS live fire practice camp, EXERCISE PERFECT KILL 9301, was held at CFB Suffield,



The Master Gunner St James's Park addressing the members of 119 AD Bty and the AD Arty School.

where 4 AD Battery ran the month long exercise utilising the bulk of the Battery's manpower. The BC, Capt Noel Dykes, was the OIC EX and controlled the exercise from the Command Post, the nucleus of activity. Similarly, the BSM, MWO Rick Hawkins, was kept on his toes during this exercise, acting as both the BSM and Administrative Officer.

When not supporting the Air Defence Artillery School, 4 AD Battery ran several unit level courses. Courses such as the Air Defence Artillery Technician, Javelin Gunner, Basic Communicator, and the Driver Light Track Course's were conducted with course programmers having to be very imaginative and resourceful in organising course schedules around battery taskings. Flexibility is always the key to running a successful supporting unit and 4 Battery has developed this process into an art.

The Driver Light Track Course enabled us to qualify 12 of our Gunners and Bombardiers on tracked vehicles which further enhances our supporting position. This course, conducted at CFB Gagetown by Lt Tim Hogan and WO Eric Janes, with overwhelming success, allowed candidates to become confident at driving and maintaining various tracked vehicles, in every imaginable scenario.

Ongoing refresher training has been conducted whenever the opportunity arises and in October the entire Battery spent a week in the Tracadie Training Area, brushing up on orienteering and navigation,

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Nuclear and Chemical Warfare training, as well as a small arms refreshers on C7, C9 and the HMG.

4 Air Defence Battery coordinated a number of THUNDEROUS APPLAUSE exercises during the past year. Essentially, THUNDEROUS APPLAUSE is a dynamic demonstration of Air Defence Artillery weapon systems in action. The aim of these exercises is to display the equipment and actual operating practices of the Air Defence, in a tangible training environment. This allows the VIP's from other Arms and Branches of the military an opportunity to witness and experience the many facets of the Air Defence Artillery as a whole. These demonstrations






Capt Chapman briefs fellow students of AD IG Crse 9301 on his plan during the tactics package as Majors Allison and Poirier look on.



involved the support of 119 Air Defence Battery, 210 Air Defence Workshop, and other elements of the Air Defence Artillery School. As the demonstrations began, all was quiet, the crowd of observers waited in anticipation. A Gun Skyguard Section (made up of two Twin 35mm guns and a Skyguard fire control unit) dotted the wood line, barely visible under a veil of cam nets. A Javelin detachment occupying a trench on the edge of the forest watched the sky for enemy aircraft. Suddenly, hidden Armoured Personnel Carriers (APCs) emerged from the wood line in a cloud of dust, and barrelled down the track in front of the spectators. The APCs reentered the tree line and came to a halt.





(L to R) Capt Fitzgerald-Sloman, Sgt Goodyear and MWO Michaud take time out for a photo while supporting EX ROYAL GUARD, a div staff exercise held in Picton, Ontario.

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Seconds later a Javelin Section streaked from the APCs, deployed their systems, and began scanning the sky. Then, in another turbulent flash, a large truck (HLVW), towing a powerful gun (Twin 35mm), materialized from the trees and promptly deployed just in front of the Javelin Section. As the HLVW disappeared down the road and then off into the woods, the Twin 35mm gun conducted a "Quick Action" deployment and was rapidly prepared by its detachment of three. A mere 20 seconds after halting, the "Quick Action" gun engaged an incoming jet aircraft (T-33) with breakup ammunition, followed by an Auto Reload and engagement of the first aircrafts'



MBdr Garnier and Bdr Cartwright from 4 AD Bty, smile with relief as they finish the fireman's carry portion of the Battle Efficiency Test (BET).

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wing man (a second T-33). Following the gun, with similar speed and violence, came the tracked Air Defence Anti Tank System (ADATS) which roared into position. An instant later, the ADATS began tracking the two T-33s and then conducted simulated engagements. The jets were engaged manually by the "Quick Action" gun as well as remotely by another twin 35mm gun controlled by the SkyGuard Fire Control Unit. The demonstration encompassed approximately 10 minutes, to be followed by a static display where visitors were given the chance to visit the different positions and speak with the soldiers.

These demonstrations have been accomplished with great success which can be attributed to the motivated efforts of the professional soldiers involved. Visitors depart with a lasting impression of the Air Defence Artillery's capabilities while the soldiers participating feel proud of the demonstration and their part in it.

Life in 4 Air Defence Battery is extremely challenging and demanding. Working with highly motivated, professional soldiers manning the most highly advanced military equipment in the world makes 4 Air Defence Battery a very rewarding unit in which to serve.



Capt Dykes, BC 4 AD Bty, discussing the "concept" with some of his command post staff during EX PERFECT KILL 9301 at CFB Suffield.

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210 AD WORKSHOP

210 Workshop began life in 1952 in Picton, Ontario, where it provided electrical and mechanical support to the Artillery. The Workshop was disbanded in 1968 but was brought back to life in Chatham, New Brunswick, to support the Air Defence Artillery School.

Today, 210 Air Defence Workshop employs 47 all ranks and is a bustling centre of activity. Our mission is two fold, we provide first line support to the Air Defence Artillery School, as well as second line support to 119 Air Defence Battery. Although the mission is two fold, the energetic production crew here is always able to keep on top of their work load.

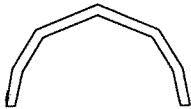


Maintenance Training Battery students installing a Receiver Assembly in the GDF-005 35mm Gun.

The Workshop participated in a number of field training exercises designed to test the Workshop's capability for production and its ability to perform top quality work under tactical conditions. Some of these exercises included Exercise PERFECT KILL, an ADATS live fire exercise in Suffield, which not only gave the Gunners a chance to fire live, but also gave the contractors a chance to test and evaluate the ADATS. During the last exercise, Workshop personnel recovered a Russian T-72 tank which was used for the ground target engagement portion of the practice. BLAZING ARCHER exercises included the GDF-005 35mm Gun, Skyguard and Javelin firing at CFB Gagetown. To support these exercises, the Workshop's Electronics, Weapons and Vehicle Sections were particularly heavily tasked.

The Workshop's first tactical field exercise was to support EX LONG SHOT I, where we set up next to WINE RIVER for five days. This was a milestone for the Low Level Air Defence Project. The contractors worked with us for this preliminary test of prime mission equipment in the hands of its users before the real test during EX LONG SHOT II, the airfield portion of the LLAD Initial Operational Capability (IOC) trials.

In November the Workshop supported EX LONG SHOT II. A base camp went up quickly where once there had only been swamp. As a tactical exercise the entire camp was concealed in one huge cam net, and no sooner was this done when the calls for



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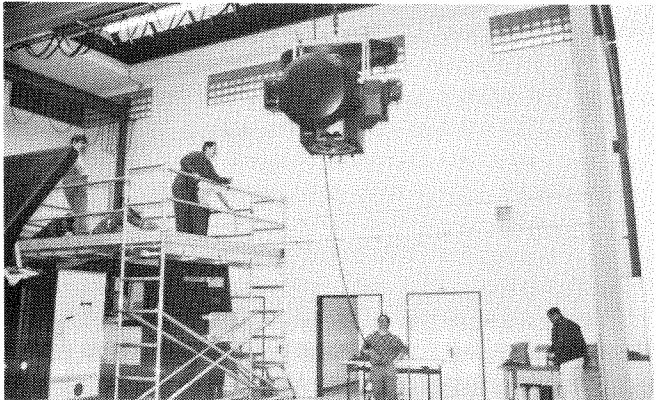
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maintenance support came in, and then the MRTs were dispatched. The exercise proceeded as planned and four days after the exercise started, the swamp was once again a swamp and the Workshop returned safely home. In 1994 210 Air Defence Workshop will gear up to support EX LONG SHOT III for the brigade portion of the IOC trials.

GUNNERY TRAINING BATTERY

1993 proved to be another busy year for the members of Gunnery Training Battery. With the recent addition of three Total Force Air Defence units to the Order of Battle, both the number of students and the amount of training required has increased



Maintenance Training Battery students removing the Skyguard Tracer mount assembly.



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substantially. This, coupled with the continuing implementation of new equipment, has had a significant impact on operations within the Battery over the past year. As a result, the Battery experienced many firsts in terms of courses and innovative ideas for the conduct of Gunner training.

In addition to the normal gamut of courses run by the Battery, a few new ones were conducted as well. These included two C3 Conversion courses, an ADATS Officer course, a Reserve Air Defence Senior Officer Conversion course and Reserve QL 6A and 6B courses. The addition of these courses to the normal schedule often involved "re-training the trainers" in order to bring them up to speed on changes to Course Training Plans and newly acquired technology. The C3 Conversion course for example, required instructors to be trained on the new Battery Command Post console, Digital Data-entry System and the new family of Plessy frequency-agile radios, none of which have been fielded anywhere else in the Army.

Basic Artillery Officer Training Phase IV (Air Defence) was successfully conducted by the staff of Skyguard Troop over the summer period. Again, the onus was on developing students as leaders and providing them with the tactical knowledge to effectively deploy air defence artillery. Students again participated in Exercise COMMON GROUND at CFB



(L to R) MCpl Bellemare, Sgt Sollows, MCpl Seaman, Cpl Matheson, MCpl Demers, and MCpl Brown in the turret on a Russian T-72 during EX PERFECT KILL in Suffield.

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Gagetown - a combined arms combat team level exercise in which students were able to develop and practice their newly acquired skills.

1993 also saw the formation of Tactics and Doctrine Troop within the Battery. Since its inception, the Troop has been responsible for the development of tactics packages for a variety of courses, including the Instructor-In-Gunnery course. Among its other tasks is the manning of an intelligence section which provides weekly intelligence summaries on world events and potential threat areas. This has provided members of the School with an insight into current events and created a more aware and forward-thinking staff all round.

The acquisition and upgrading of training simulators kept many Battery personnel occupied over the course of the year. A Target Identification and Recognition Trainer (TIRT) was recently acquired to assist in training ADATS gunners. TIRT uses CD ROM technology to provide gunners with thermal image video of aircraft and AFV as they would appear when the ADATS' television and FLIR are employed on the battlefield.

IG Assistance Teams from the Battery also attended one Gun/Skyguard, an ADATS and four Javelin live firing exercises during the course of the year. In addition, Battery personnel were called upon



An APC transmission being changed under field conditions, during a 210 AD Wksp training exercise for EX LONG SHOT.

on numerous occasions to participate in equipment demonstrations, visits and various staff exercises both in Canada and abroad.

It has often been said that "all work and no play makes Jack a dull boy". With this in mind, Gunnery Training Battery made a point of setting aside a time to conduct both winter indoctrination and summer adventurous training. Captain Harden, RA, assisted by members of Javelin Troop, masterminded the plan for the winter program, which involved instruction in tactical skiing, trapping and basic fieldcraft skills. Participants got back to basics by living in improvised shelters of their own design and feeding on the food they managed to forage. The summer program was not nearly as harsh an activity. Nicknamed Exercise WHITEWATER SHARK, it involved a five-day, one hundred and six kilometre voyage down the NEPISIGUIT RIVER by canoe. Battery personnel got a chance to camp out under the stars, do a little fishing and experience the thrill of white water canoeing (and swimming) as well.

1993 saw a "changing of the guard" as the Chief Instructor-In-Gunnery, Major R.R. Poirier, and Sergeant-Major Instructor-In-Gunnery, MWO (Master Gunner) R.T. Montague, handed over command of the Battery to Major S.B. Strachan and MWO G.J. Schmidt. Under their leadership, the Battery looks forward to an equally challenging 1994.



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MAINTENANCE TRAINING BATTERY

Canada's purchase of the ADATS, Skyguard radar and fire control unit (FCU), GDF-005 Twin 35mm Gun and Javelin S-15, has projected the Air Defence Artillery to the leading edge of technology. Succinctly put, Maintenance Training Battery trains the people who maintain some of the world's best Air Defence Artillery Systems. The Battery comprises a multi-disciplined group of fifteen instructors responsible for training Radar Technicians, Vehicle Technicians, Weapons Technicians, and Fire Control Systems Technicians in the maintenance of all aspects of Air Defence Artillery weapons systems. The synergy created by this multi-disciplinary approach provides for a stimulating learning environment which we believe to be unique in the Canadian Forces.

During 1993, Maintenance Training Battery conducted a total of eleven multi-disciplined courses. In addition to course instruction, significant support was provided to the Low Level Air Defence Project's validation program, with particular emphasis on technical publication review. At the helm of the Battery during the first part of the year was Captain Greg Crowe. He was replaced on posting by Major Ron Boyce who shortly after taking command departed for the Canadian Land Forces Command and Staff

College. During his absence MWO John O'Connell served as a most capable Acting Chief Instructor.


Canada's Air Defence Artillery now owns the tactical "high ground" and influences a significant amount of the air space above the battlefield with its technologically advanced weapons systems. Maintenance Training Battery's multi-disciplined technicians shall continue to help keep that "high ground" by training the world's best Air Defence Maintainers.



Cpls Butt and Matheson from 210 AD Wksp firing the C6 during weapons training in Tracadie.



MCpl Mackay (left) and MCpl Salmon stand beside the "Horse" that came from the original 210 Workshop in Picton, Ontario.




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SCHOOL HEADQUARTERS

Included in School Headquarters are the Command Group, Operations, Administration, Supply and the Standards Sections. The Standards Section was kept particularly busy in 1993. Several Course Training Plans were rewritten including the Air Defence Instructor-In-Gunnery (AD IG) course training plan, while the conduct of many others was monitored. Equally busy was the Operations Section whose responsibility it is to plan and coordinate the execution of the School's broad range of mission elements. The Section was augmented in 1993 by Captain Art Henry, an Air Weapons Controller by trade, who serves as the School's Air Liaison Officer. Thanks to his efforts, the skies over Chatham and Tracadie were filled with aircraft throughout the year. Several hundred sorties were flown in support of training including Canadian Forces Hornets, Challengers and T-33 Silver Stars as well as Eagles, Falcons, Thunderbolts and Prowlers from the USMC, USAF and Air National Guard. The SQMS, WO Mike Bourassa, and his staff were fully occupied throughout 1993 contending with the challenges derived from the withdrawal of AD artillery equipment from Germany and its interim storage in Chatham. In the School Orderly Room, Chief Clerk WO Ray Boutillier and his scribes saw all but one of their typewriters (the CC's) taken away to be replaced by computers.

One of the highlights of the year for SHQ was, without a doubt, Exercise POSEIDON PADDLE, an adventurous training exercise conducted in June. Sixteen intrepid canoeists under the leadership of Chief Standards Officer, Major Ron Jarrett, successfully travelled the TOBIQUE RIVER from its headwater in MOUNT CARLETON Provincial Park to PLASTER ROCK some 130 kilometres and four days downstream. Within minutes of their departure, the meaning of the words "adventurous training" were made clear to all. The learning curve for most participants was steep, as the swollen, winding river confronted the teams with a myriad of obstacles including rapids, "S" turns, hidden rocks, deadfall and the dreaded "sweepers", (fallen trees over-hanging the river which can and did "sweep" certain of our explorers out of their canoes and into the frigid early summer water). Good spirits prevailed throughout the trip and all returned safely with ideas for POSIEDON PADDLE II occupying their thoughts.

Key personnel changes during the summer included the arrival of MWO Ray Gingras as the Standards MWO, and WO Mike Ouellette as Maintenance Standards WO. In November, Captain Dean Price came aboard as Maintenance Standards Officer and in December, we bade farewell to the Operations Officer, Captain Ross Robinson on his retirement from the Regular Force and welcomed his replacement, Captain Rob Clarke.

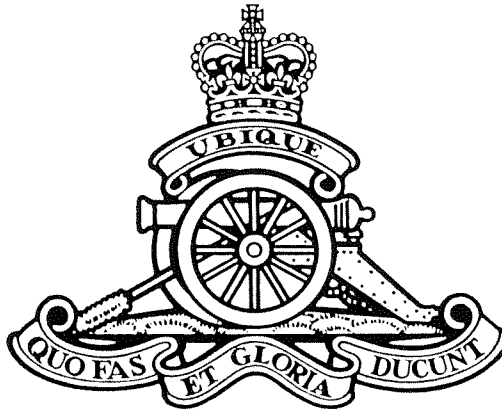
CONCLUSION

In retrospect, 1993 has been a busy year for the Air Defence Artillery School. Significant strides towards Total Force have been made with the conduct of a number of conversion courses for the Air Defence militia and the conduct of courses with both militia and regular force Air Defence personnel. Future work will focus on reviewing, rewriting and updating our training documentation and continuing to improve our instruction. The School's efforts for the coming year will be directed towards completing a number of Total Quality Leadership initiatives and continuing to strive towards being the Centre of Excellence for Air Defence in the Canadian Forces.



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ROYAL CANADIAN ARTILLERY BATTLE SCHOOL

The year 1993 at the RCA Battle School will be remembered as a year of continued active Total Force implementation. Throughout the year, in addition to regular force courses, numerous reserve force courses were conducted as part of ARTS/NRQS training.

PERSONNEL

The Battle School saw a change of both the CO and RSM this year. In July, LCol R.C. Curry assumed command of the School from LCol J.G.G. Tremblay. LCol Curry joined us from LFCA HQ in Toronto where he was the G1. LCol Tremblay was posted to 62nd Fd Regt, RCA in Shawinigan. In October, CWO Walker was posted as RSM of 1 RCHA. CWO O'Donnell, formerly the Base Range Control Officer, took over as the School RSM.

TRAINING

In 1993, the majority of the School staff's time and effort was concentrated on ARTS and NRQS training. However, regular force courses were conducted which included a QL3 course in May and a JLC/LLQ conducted in October. The May-Aug 1993 period was one of hectic activity. During the

ARTS/NRQS training a total of 29 courses were conducted, 16 of which were QL2 courses. Students on the QL2 recruit courses totalled 586 and came from all LFWA Militia MOCs. In all, 797 militia students commenced training. Instructional and support staff consisted of a mixture of regular and reserve officers and NCMs resulting in a temporary summer expansion of the Battle School from 42 to over 220 all ranks. To achieve the instructional requirements of conducting the reserve courses including QL3, Basic Comms, CP Tech, FOO Tech, ICT, Recce Tech as well as QL2 the School was organized into three batteries. The structure of a HQ Bty, Training Bty and Recruit Bty, each with its respective Total Force command organization, was used.

Training was conducted in four main phases or "pulses". The end of each phase was marked by a graduation parade, comprising two in the month of June, one in July and one in August. On average there were approximately 200 to 250 soldiers on each of the four graduation parades.



LCol Curry accepts the CO's pennant at the Change of Command parade.



LCol Tremblay marches the School past the Reviewing Officer, BGen Walker for the last time.

MISCELLANEOUS ACTIVITIES

When not actively involved in conducting courses, School personnel were involved in a variety of activities. September saw the School staff complete refresher training on the C7, C9, M72, Carl Gustav, NBC training and the LFC Battle Efficiency Test. As well, the Battle School was an active participant in the 20th anniversary celebrations of GATES training in Shilo. The School's static displays and helicopter rappelling team were a great addition to the day's festivities.

CONCLUSION

The upcoming training year (1994) promises to be another one of extreme activity for the School. Four QL3 courses (regular) are scheduled. NRQS will be in full swing next summer with as many as 25 QL2 courses planned. Other scheduled courses are numerous serials of QL3, BCT, QL4 Tech, and Arty Comms, just to name a few. The impressive part is that RCA Battle School is planning to train over 900 students for QL2 training alone next year. By next summer's end approximately 1500 students will have passed through the School in QL2, ARTS and NRQS course training. It will definitely be a busy time again, but we are all anticipating the challenge.

UBIQUE

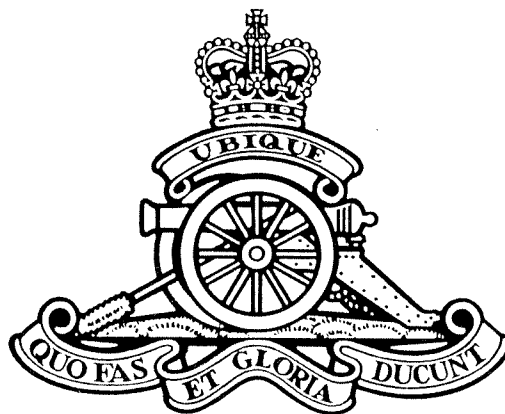


2Lt Richard, 6 Fd Regt RCA, accepts the top candidate sword for BCT III from Col Manson, CD3, Hon Col 26 Fd Regt, RCA.



CWO O'Donnell accepts the RSMs pace stick in the change of RSMs.





1ST CANADIAN DIVISION HEADQUARTERS AND SIGNALS REGIMENT "GUNNERS"



Div Gunnery are briefed by a member of 3/27 FA Bn (Steel Rain) on the Multiple Launch Rocket System (MLRS) during Exercise DRAGON FIRE IV. Left to Right are Major Don Scott, Captain Lee Spencer, Lieutenant Colonel John Selman, and Staff Sergeant Michael Bunting.

The Gunner community in the Division is busier than ever. 1993 saw Gunnery from the "Div" deploy to Somalia as part of Headquarters Canadian Joint Force Somalia (HQCJFS). HQCJFS was Headquarters and Signal Regiment (1 CDHSR) and included Major Terry Lelievre, Major Bob Hodgson, Captain Lee Spencer and Captain Peter Wellsman. Deployed from early December until mid June HQCJFS performed many essential functions in an inhospitable environment.

With the return of all personnel from HQCJFS, preparations continued for a series of major command post exercises in 1994 that include Exercise RITE COMPLEX, which will exercise all Brigade Headquarters at CFB Petawawa and Exercise NORTHERN LIGHTS at CFB Kingston. Exercise NORTHERN LIGHTS will include Brigade Headquarters from Australia, the U.K., the U.S.A. and Canada, as well as our Division Headquarters. Both of these exercises will take the better part of a year to prepare for and the Gunnery on staff have played an important part in all phases of the planning process.

In addition, the Gunnery have been busy preparing and running purely artillery exercises at division level. These include Exercise FLAMING ARROW, an air defence exercise, and Exercise ROVING GUNNER, a field artillery one, which will also be run in 1994.

One of the highlights of the year was the participation of Gunnery from 1 CDHSR in Exercise DRAGONFIRE IV. The exercise was held in Ft Bragg, North Carolina 14-24 October by XVIII Airborne Corps Artillery. Lieutenant Colonel John Selman, Major Don Scott, and Captain Lee Spencer played the General Support Artillery Brigade and as a reward for their fine efforts were treated to a live fire demonstration of the MLRS before their return.

As busy as 1993 was, 1994 promises to be even busier with a variety of exercises that will maintain the Canadian Army's ability to mount formation level operations. As always Gunnery continue to play a vital part. Ubique!



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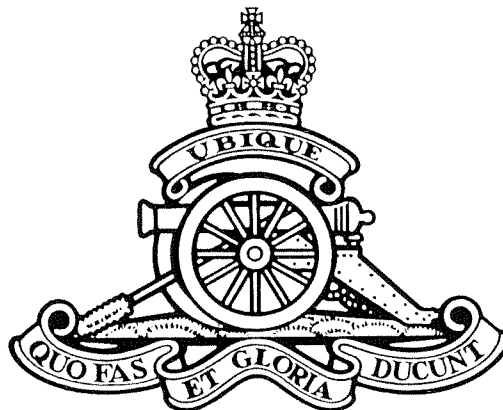
- Forward Area Air Defense Command and Control Intelligence System - FAAD C²I
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**LAND FORCE
COMMAND
HEADQUARTERS
"ARTILLERY
SECTION"**

Comme à l'habitude, cette année fut encore très occupée pour la section de l'artillerie. Vous n'êtes pas sans savoir que nous traversons une autre période de grands changements. La flexibilité est un atout majeur dans la bataille quotidienne que nous livrons dans les tranchées du Quartier-général du Commandement de la Force terrestre. La restructure, la Force Totale et la réorganisation sont toujours des sujets chauds qui demandent du temps et des efforts considérables.

Naturellement, il y a eu des changements au sein du personnel de la section au cours de l'été. Le Colonel Briscoe cumule les fonctions de Commandant de la BFC Montréal et de Directeur de l'artillerie suite au départ du Col Oehring pour l'ex- Yougoslavie. Le Lcol Capstick a pris les rênes à titre de G3 Artillerie/Directeur adjoint et le Major Armstrong a remplacé le Major Beauséjour au poste de G3 Artil 2 (Instr). Ainsi, pour assurer une continuité indispensable à la section, le Major Cantin (G3 Artil 3 (camp)), le Capt Moreau (G3 Artil 3- 2(camp)), le Major Tate (G3 Artil 4 (AA)), le Capt Cantin (G3 Artil 4-2 (AA)) et Mlle Petit (commis) sont restés



First row from left to right: Maj PER Cantin, Col JD Briscoe, LCol MD Capstick. Second row from left to right: Capt JAC Cantin, Maj JR Tate, Miss MF Petit, Maj MB Armstrong, Capt JG Moreau.

As usual this has been a busy year for the Artillery Section. There is no doubt that we are living in a time of change. Flexibility is a most valuable asset as the day- to-day battles are fought in the trenches of Land Force Command Headquarters. Restructure, Total Force, and Reorganization continue to be the hot topics and demand considerable time and effort.

Of course there were personnel changes in the Section during the posting season. Colonel Briscoe, Commander CFB Montréal took on the duties of Director of Artillery following Colonel Oehring's departure for ex-Yugoslavia. LCol Capstick took over the reins as G3 Arty/Deputy Director and Maj Armstrong replaced Major Beauséjour as G3 Arty 2 (Trg). That meant that Maj Cantin as G3 Arty 3 (Fd), Maj Tate as G3 Arty 4 (AD), Capt Moreau (G3 Arty 3- 2), Capt Cantin (G3 Arty 4-2), and Mlle Petit (secretary) remained to provide much needed continuity. Please note the appointment titles



LCol Richard receiving his departure gift from Maj Cantin.

vaillamment à leur poste. Vous aurez noté que les titres des positions ont été modifiés pour la xième fois. De plus, l'Adjc Greene a pris sa retraite après presque 32 ans de service suite à la suppression du poste de Maître canonnier. Heureusement, cette décision du QG a été renversée et le poste sera réinstauré à l'été 94.

Malgré les aspects négatifs de la réduction des effectifs et de la diminution des budgets, l'avenir de l'artillerie de campagne et antiaérienne est prometteur...nous nous en assurons !

(naturally they had to change for the umpteenth time as well !). In addition, the retirement of CWO Greene after nearly 32 years of service coincided with the deletion of the Master Gunner position. Fortunately this decision has been reversed and APS 94 will see the Master Gunner appointment reinstated.

Regardless of the negative aspects of downsizing and reduced budgets, the future of both air defence and field artillery is bright...We are making sure of that !



L'Adjc Green reçoit son cadeau de départ des mains du LCol Richard.



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LE GROUPE DES ESSAIS

Rangée arrière: B. Collins, P Daigle, M. Lemoine, Sgt G. O'Quinn, Sgt M. Gingras, P Chiasson, P. Chapleau, M. Ruest.

Rangée avant: Adjum R. Rosseau, Adjum R. Levesque, Adjuc E. Wylie, Major M. Bonnet, Adjum R. Poulin, Adjuc R. Bernier, Adjum C. Lagacé. Absent (Adjuc G. Tremblay)

L'année 1993 en fut une très intéressante et active pour le groupe des essais de la division de l'armement du CRDV. Durant cette année nous avons complété 34 essais scientifiques, 37 tirs d'épreuve et tâches variées reliées aux explosifs. Nous fûmes impliqués avec plusieurs branches du ministère ainsi qu'avec d'autres agences gouvernementales comme la GRC et Transport Canada et l'université Queen's.

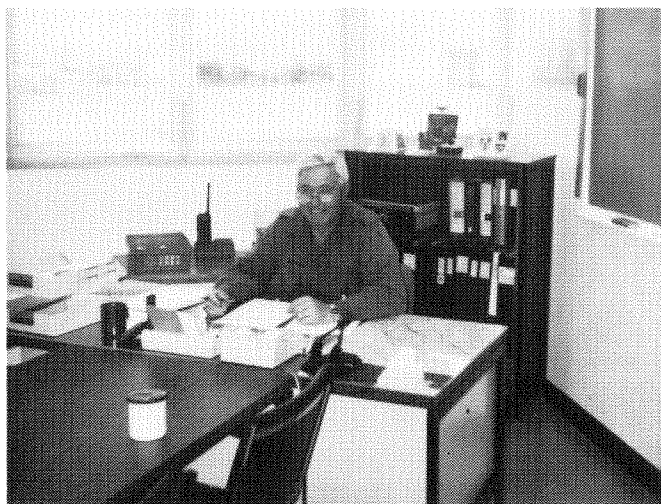
Avec l'arrivée de l'été nous ne pouvions nous échapper des mutations au groupe des essais. Nous avons dit au revoir au Sgt Debbie McClung qui est partie pour le paradis de Meaford, par contre nous avons souhaité la bienvenue à l'Adjuc E. Wylie, fraîchement moulu d'un cours d'un an dans la langue de Molière à la BFC Valcartier et au Sgt M. Gingras notre nouveau technicien en munitions qui nous arrive du soleil de Chilliwack: aussitôt arrivés, aussitôt intégrés.

Il y a toujours une période d'adaptation pour les militaires qui arrivent au CRDV, c'est très différent de la vie régimentaire. Nous travaillons avec

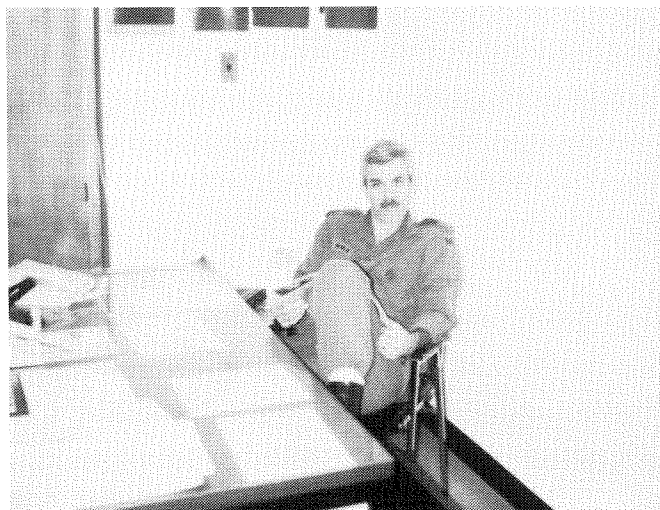
principalement du personnel civil dans l'évaluation des travaux de recherches et du développement dans le but d'aider les Forces canadiennes à accomplir leurs missions de la meilleure façon.

Attached to the Trials group, we have a detachment from PETE Nicolet made up of one military and three civilians. The detachment has been very busy conducting numerous proofing and testing of ammunition.

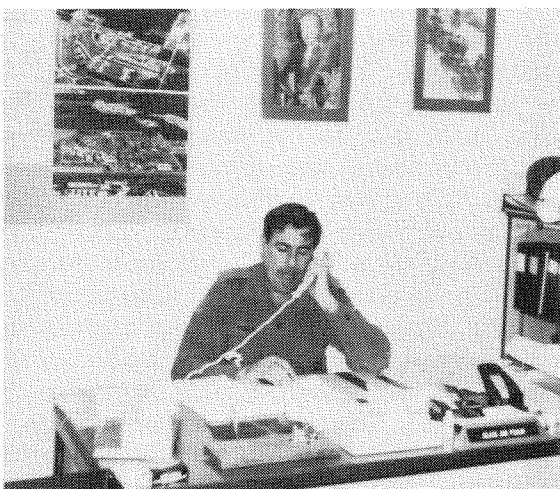
The summer and fall continued to be a busy period for conducting trials at DREV. The four Master-Gunners employed as Trials Directors were kept very occupied. St-Barbara was again celebrated with great success and the event was culminated by the Trials group donating a St-Barbara's plaque to the Armaments Division. Après toutes ces activités réalisées en 1993 nous avons pris un congé bien mérité et pour rebâtir nos forces en vue d'une année 1994 qui s'annonce très occupée.



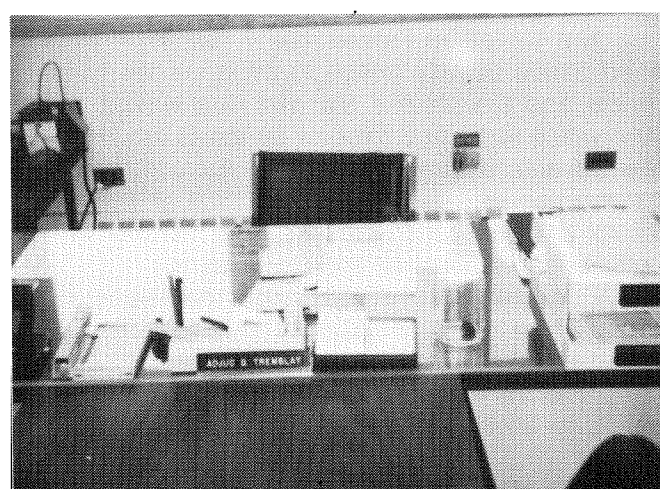
Major M. Bonnet - Chef du groupe des essais "C'est un plaisir de planifier le travail des autres."



CWO Ernie Wylie - Master Gunner on post - settling in? "Being current is a part of our work at DREV."



Adjum Roger Poulin - Me Canonnier occupé à préparer un essai avec la GRC (Nous sommes sérieux aujourd'hui).



L'Adjuc (Me Canonnier) G. Tremblay en fonction, regardez l'air absent pour une autre année.



On the occasion of St-Barbara's Day MWO J.R. Levesque presented the Director of the Armaments Division, M. Mike Clark with this trophy on behalf of the Trials Group.





A WEEK IN THE LIFE OF AN ARMS CONTROL INSPECTOR

by Major I.C. MacVicar

The Canadian Forces role in helping maintain world peace usually brings to mind visions of blue berets and the United Nations flag waving over observation posts in Cyprus or on the Golan Heights. Few Canadians know that Canada also contributes to the maintenance of world peace through the arms control and verification process as a member of the Conference on Security and Co-operation in Europe (CSCE), and more specifically, under the Conventional Armed Forces in Europe (CFE) Treaty and the Vienna Document 92. Under the provisions of the CFE Treaty, NATO and the former Warsaw Pact nations are each limited to 20,000 tanks, 30,000 armoured combat vehicles, 20,000 artillery pieces, 6800 combat aircraft, and 2000 attack helicopters between the Atlantic Ocean and the Ural Mountains. Equipment surplus to these totals must be "reduced" or destroyed by the signatories in the next three years. This process begins with a data exchange detailing the combat equipment held by each signatory nation and is followed by inspections to verify that nations are complying with the restrictions accepted under these treaties.

Canada has a military arms control agency which maintains a data bank and conducts these inspections

on behalf of the Department of Foreign Affairs and International Trade. "J3 Arms Control Verification" (J3 ACV) is part of the Chief of Staff J3 branch of National Defence Headquarters in Ottawa. This is an operational organization with operators as well as staff officers. J3 ACV draws personnel from the combat arms and air operations classifications. Three Gunner officers currently serve in J3 ACV; Lieutenant-Colonel R. Hoyland is the Section Head of Operational Plans and Training, Major I.C. MacVicar and Captain S.R. Kitchener, both Russian linguists, work as full time inspectors in the Verification Operations Section. The Verification Section personnel spend, on average, 10 days per month in Europe and the countries of the former Warsaw Pact conducting two main types of inspections, the "declared site" and "reduction" inspections. These inspections are conducted under the provisions of the CFE Treaty which entered into force in July 1992. The declared site inspections are conducted at operational land and air units such as infantry battalions and fighter squadrons, and also of storage facilities. The purpose of these inspections is to verify the accuracy of the numbers of combat equipment submitted in the annual data exchange. These inspections are conducted at very short notice (36 hours) to ensure that the inspected nation does



The Team Leaders.

Left: Col K. Pasko. Right: LCol R. Hoyland.



Warsaw "Old Town" at dusk.

not have the opportunity to circumvent its Treaty obligations by hiding or moving Treaty Limited Equipment (TLE).

The second type of inspection, the reduction inspection, actually forms the present bulk of the workload carried out by the Verification teams. Although the reductions are carried out by the nations which own the equipment, every reduction event to date thus far has been verified by a multi-national NATO team. Occasionally, Joint-Multinational Inspection Teams are formed with officers from the former Warsaw Pact nations as members of NATO teams. Such practices build confidence in the intentions of the signatories as they work together in demonstrating and verifying compliance with the limits established by the Treaty.

Although it is impossible to describe a "typical" inspection there is a sequence of events which must occur prior to each team departing Ottawa. Although in official CF terms it is called the "mounting phase" it is simply "battle procedure". During our most recent operation, OP VERIFY 1/94, personnel attachments were received on 17 January and the initial kit issue, travel plans, and preparation of documents were completed that same day. Training began the next day as the six Canadian team members received country and site briefings, equipment and camera refresher lectures, and aircraft recognition training. The diplomatic notification was sent to Poland by Foreign Affairs at 0700 hours GMT 19 January. By the end of the day the team members were ready with their brains swimming with data on the Polish air force and its air defence organization, and the minuscule differences between the variants of the MiG-21 "Fishbed". They had also received diplomatic passports, foreign currencies, appropriate inoculations, and official gifts for members of the Escort Team which they would soon meet in Poland.

Our KLM flight arrived in Amsterdam at 0740

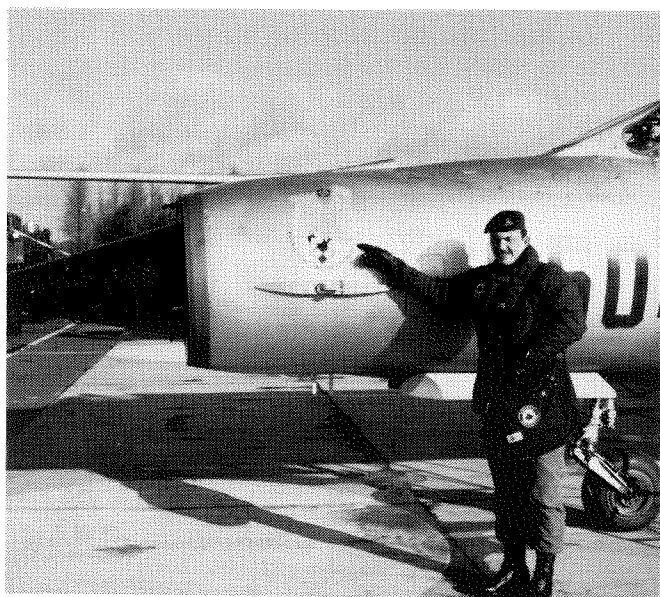
hours 21 January to find our reserved rental vehicles fuelled and waiting just outside the Budget office of Schiphol Airport. Due to the close out of CFB Lahr, Canadian inspection teams now stage through the Dutch Army Kaserne at Ermelo which provides the necessary logistic support in Europe. After completion of in-clearance procedures with Dutch authorities in Ermelo, the team completed a stores check and grabbed some much needed rest.

The next day was taken up by meeting the guest inspector from Germany, preparation of our briefing room, and preparing the team's documents for the operation. Usually this second day at the staging base is devoted to the reception of up to five NATO guest inspectors arriving from all points of the compass. Our drivers began to drive the route from the Kaserne to the airport as if they were on "autopilot". The third day, 23 January, was dedicated to completing our training, administration, and the issue of orders delegating groupings and tasks during the inspection. Once completed we hit the "rack" early, as reveille was scheduled for 0500 hours. After a quick "cuppa" courtesy of the Team Leader and our "Patricia" augmentee we hit the road. We were now into the deployment phase of the mission which ended courtesy of KLM at the new civilian airport in Warsaw. After meeting the Escort Team we were quickly moved to the military airfield, our official Point of Entry (POE).

In accordance with the CFE Treaty once at the POE the Team Leader had an hour to declare which site was to be inspected. The Polish Team Leader expressed hope that we would select a site in eastern Poland for our inspection and it became obvious that most of their preparations were oriented in that part of their country. They appeared quite surprised when the air defence fighter base at Lask (170 kilometres southwest of Warsaw) was designated by LCol Hoyland. After an hour the Escort Team Leader



Tomb of the Unknown Soldier, Warsaw.



*The author pointing out the emblem of
"10th Fighter Air Regiment"*

returned to confess that it would not be possible to accommodate the Inspection Team near Lask that night and would we consider the alternative plan of remaining in Warsaw with an early departure at 0500 hours the next day. We were able to put the time to constructive use as our escorts took us on a tour of Warsaw which included the Tomb of the Unknown Soldier, the memorials to the Warsaw Ghetto uprising of 1943, the Warsaw Underground uprising of 1944, as well as a brief cultural visit to the Old Town of Warsaw.

After another rude reveille, we topped up with the local "coffee brutale" prior to the three hour bus trip to Lask. After a quick but hearty breakfast, the purpose of our mission began to unfold as we received a site diagram for Declared Site Lask. The Team Leader selected "10th Fighter Air Regiment" as our Object of Verification and we were then ushered into an assembly room for the necessary briefing by the Regimental Commander on the unit's equipment and personnel establishments. Within the hour we had divided into two sub-teams, each responsible for inspecting differing parts of the Regiment and the airfield. The Regiment's aircraft and personnel were verified against the annual data exchange. Regimental side numbers were counted and compared against those given in the unit briefing. As well the location of each aircraft away on training or undergoing maintenance was mutually verified. Such demonstrations of "military transparency" help to defuse fears that one signatory may be trying to circumvent its Treaty obligations and they build trust in the future intentions of both parties. Since flying operations were not curtailed for the day, the pilots of the Regiment put on a magnificent show of 20 second full afterburner takeoffs and low level "beat ups" of the airfield. Although the MiG-21 is over thirty years old, from 10 metres off the deck and 500 kph it is still an impressive sight!

Too soon after our "airshow", the real work began with the completion of the inspection report. This time the inspection report was not a sensitive task as we

had no anomalies to report and the minor discrepancies observed had been explained to our satisfaction by the Escort Team or unit authorities. Once the report had been signed and countersigned by the Inspection Team and the Escort Team Leaders we returned to the diplomatic aspect of our duties as exchanges of national and individual gifts were made between our hosts at Lask and the individual inspectors. After the return trip to Warsaw, we were guests at the official dinner hosted by the Ministry of Defence with our opposite numbers of the Escort Team. Shortly after we sat down, the more official aspect of our job started to fade as soldiers and airmen from both sides swapped souvenirs, compared "lies", families, jokes and cemented Polish - Canadian relations.

At the POE departure ceremony the following morning, LCol Hoyland acknowledged the profound changes of the last five years and paid tribute to the level of professional skill displayed by all ranks of the Polish armed forces with whom we had come in contact.

Once back on the ground in Holland, we went through a "hot wash" debrief on the chronology of the mission, lessons learned, and prepared our reports for "faxing" to J3 ACV. Once these reports were received in Ottawa, the European phase of our mission was nearly complete. All that remained was a proper farewell for our German guest inspector. He assured us that he had heard many things about Canadian inspection teams and that "fortunately all of them were true!" Our combined mutual professional knowledge of military equipment and the CFE Treaty, language abilities, and typical Canadian flexibility had brought another inspection half way around the world to a successful conclusion for both NATO and our new partners in peace. "Dziekuje" (Thank you) Poland for your hospitality and mutual cooperation in demonstrating your compliance with both the numerical goals and the spirit of the CFE Treaty.

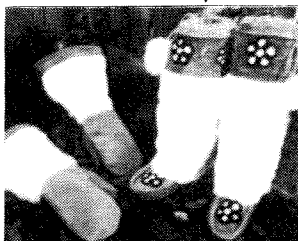


Fleece Line

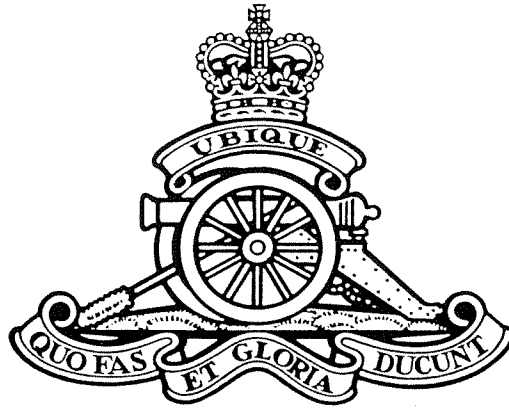
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LA PRÉSENCE DE L'ARTILLERIE AU C.M.R.

par Élève-officier J.L. Brazeau

Although the closest artillery regiment located near the Collège militaire royal de Saint-Jean (CMR) is the 5 RALC in Valcartier, we artillery officer cadets studying at CMR have managed to keep abreast of the latest happenings in the artillery branch.

In December, a contingent of CMR officers and officer cadets celebrated St. Barbara's Day, along with members from 2 RCHA, 5 RALC, 62 RCA and 6 RCA at the St. Barbara mess dinner at the 62 RCA armoury in Shawinigan. By seating one member from each unit per table, a successful exchange of experiences and views was assured. Not only did we officer cadets have a chance to ask many questions, but we were exposed to and able to enjoy the evident camaraderie and spirit displayed by all the members. In fact, a very spirited gentleman officer on my right entertained my table by successfully persuading the mess staff to sneak him some extra wine which he stored under the table and shared with the rest of us. The evening was far from dull. We appreciated becoming better acquainted with our senior artillery officers.

Puis en janvier, dans le cadre de la fin de semaine annuelle d'information sur les occupations militaires, le CMR a été l'hôte de plusieurs officiers

artilleurs. Le major Lord, actuellement en poste au 5 RALC, a donné aux élèves-officiers des armes de combat deux exposés des plus intéressants sur l'histoire du Régiment, il a aussi livré quelques anecdotes personnelles, puis a expliqué en quoi consistaient ses nouvelles fonctions de commandant adjoint. Le lieutenant Dumas, récemment diplômé du CMR, l'accompagnait. Celui-ci a été en mesure de renseigner davantage les élèves-officiers quant au rôle qu'ils seront appelés à jouer comme officiers juniors au sein du Régiment. «Le jour de mon arrivée, dit-il, j'ai fait la connaissance de mon capitaine, qui m'a dit: "Bienvenue au Régiment, voici la première tâche que vous avez à faire...veillez à l'exécuter d'ici lundi.» A l'issue des divers exposés, nous avons ainsi découvert que l'artillerie est une occupation très exigeante, mais combien gratifiante.

Pour l'instant, notre défi premier est de mener de front les études, les sports et l'entraînement militaire au CMR. Mais déjà, il est stimulant et enrichissant de pouvoir être associé aux activités de l'artillerie et d'en connaître toujours davantage sur notre occupation militaire de demain.





FAREWELL TO CHIEF WARRANT OFFICERS I.J. TRIPP AND W.W. NOSEWORTHY

CWO I.J.L TRIPP, MMM, CD



CWO "Jack" Tripp was born in Hillier, Ontario, 2 January 1940, and he attended public and secondary schools in Wellington and Picton, Ontario.

Mr. Trip enrolled in the Royal Regiment of Canadian Artillery on 6 July 1959 taking his basic training and Group One RCA at the RCA depot in Camp Shilo, Manitoba. On completion of training in 1960, he was posted to the third Regiment in Camp Gagetown, New Brunswick, and that fall to Deilinghofen, West Germany.

Upon reporting, it was found that he was a goalie who had played with the Prince Edward County Juniors of the Eastern Ontario Junior League. He was immediately posted to the "Sports" Troop, where he played hockey with such well known personalities as "Tank" Davidson, Warren and Sonny Van Tassel, and Laurie Totten. He didn't let the team down because during the '62/'63 season the Gunners won the

brigade championship and he was named the top goalie during regular season play with a 3.18 goals against average.

3rd Regiment RCHA rotated to Winnipeg in 1964 and Mr. Tripp was promoted to LBdr. In 1965 he was promoted to Bdr. In 1973 he was promoted to Sergeant and posted to 1 RCHA in Lahr where he was employed as a Detachment Commander and BCs Tech. He was promoted to Warrant Officer in 1976 and took over as TSM F Tp of C Bty - a position he held until 1978. He also coached the Gunners hockey team during the 1976 and 1977 seasons. He was then posted to the 7 Toronto Regt as the Unit Training Assistant until his promotion to MWO and posting to the Royal Military College of Canada where he carried out the duties of Drill Sergeant-Major. He was also named as an Honourary Graduate of the Class of 1983. Once again, he was called to Regimental service as the BSM of B Bty from 1983 to 1985. He carried out these duties so well that he was promoted to CWO and rewarded with attendance on the continuous French course. Upon completion of second language training, he was appointed the School CWO of l'École des langues FC at BFC Saint-Jean, Quebec. In 1988 he was posted to the RCA Battle School as RSM where he was known for his eagle eye inspections and hours of drill practice in preparation for recruit passing out parades. He was also appointed the Order of Military Merit in the grade of member. In 1990 he was posted to Kingston as the College CWO of RMC, a prestigious position he will hold until his retirement in the summer of 1994.

Over the 35 years, Mr. Tripp has served the guns and represented the Regiment well through his participation in sports and by his appointment to no less than three positions of RSM equivalency. Throughout all these years, he has been supported by his wife, Veronica, their two children, Jeff a member of the LdSH (RC) and his daughter, Lisa, a social worker in Kingston.

**CWO (MR GNR) W.W. NOSEWORTHY, MMM, CD
RSM 3 RCHA AND 1 RCHA
JULY 1991 - NOVEMBER 1993**



CWO Noseworthy was born in St. John's, Newfoundland, where he lived and attended school until joining the Canadian Army in 1965 at 12 PD. He graduated from Gunnery Training at CFB Shilo (Artillery School) in October and was posted to C Battery 1 RCHA Gagetown.

In 1967, he was posted with 1 RCHA to Fort Prince of Wales in Germany, where he was employed as a Gun Number, OP Signaller, and CP Tech. In December 1971, he returned to Canada where he joined J Battery 3 RCHA. After a short stay, he was posted to A Battery 1 RCHA for the next four years in 1974.

He was promoted to Sergeant in 1976 and attended the Advance Cbt INT Course at CFB Borden.

During his second tour in Germany he was employed as the OP Tech, BC Tech and Recce Sergeant for A Battery until 1978.

He left the Regiment for employment with the CAF Recruitment Centre in Corner Brook, Newfoundland, where he was appointed the Zone Warrant Officer for the Atlantic Region when he was promoted in 1979.

In May 1981, after completing the Arty 6B Course, he instructed on the Phase 3 Arty Officer Course, and in August was posted to G Battery 3 RCHA as the BQMS. During his stay with the Regiment, he was appointed TSM A Troop while on UN Peacekeeping duties in Cyprus. He was also TSM B Troop.

He was appointed BSM in June 1985 and remained with G Battery until he attended the Master Gunners Course in 1987. Upon completion of the course in 1988, he was promoted to Chief Warrant Officer and posted to DREV in Valcartier, where he was a Trial Officer (MR GNR).

After a two year stay, 1989-1991, in Ottawa with the Director Land Operations Training Requirements Office, he was posted to 3 RCHA.

CWO Noseworthy assumed the appointment of RSM in July 1991. He was RSM 1 RCHA July 1992 when 3 RCHA was reduced to nil strength, and remained RSM until November 1993. This period included the 1st Regiment's first UN peacekeeping tour in Cyprus.

CWO Noseworthy was appointed to the Order of Military Merit in January 1994. He is currently residing in Brandon, Manitoba. His release date is 12 August 1994.

He is married to Ursula Parke of Germany. The Noseworthy's have two children, Lilian and William, and one grandson, Adam.





THE COLONEL GEOFFREY BROOKS MEMORIAL PRIZE ESSAY COMPETITION

ELIGIBILITY

All ranks of the Royal Regiment of Canadian Artillery.

TOPIC

Write on any topic of general or specific military interest with current applicability to the Royal Regiment of Canadian Artillery. Purely historical narratives are not usually suitable as the purpose of the competition is to encourage discussion of current issues. Therefore, any historical essay must point out "lessons learned" which could be applied today or in the future.

RULES

Essay entries should be between 3,500 and 5,000 words in length. They must be typewritten and submitted in quadruplicate.

The title and page of any published or unpublished work to which reference has been made, or from which extracts have been taken, must be quoted.

Authorship of entries must be strictly anonymous. Each competitor will adopt a motto or nom de plume which will be quoted at the top of the entry.

A sealed envelope will be enclosed with the entry. This envelope will contain the service number, rank, name and address of the competitor but will have the appropriate motto or nom de plume only typewritten on the outside.

Entries are to be addressed to the Editor of The Canadian Gunner, CFB Shilo, Manitoba, and marked "The Colonel Geoffrey Brooks Memorial Prize Essay Competition." They must reach the office of The Canadian Gunner by 16 January 1995.

PRIZES

First – \$500.00 Second – \$250.00

JUDGING

The Editor will arrange for a committee to judge the entries. The decisions of this committee will be final.

Results will be made known in the next issue of The Canadian Gunner, and the winning essay will be published in that issue.

The Editor and Staff of The Canadian Gunner cannot be held responsible for the loss or return of any essay submitted; nor shall they incur any liability whatsoever in connection with the receipt, dealings, judging and reports of essays.

The copyright of any essay which is published in The Canadian Gunner will belong to the RCA Regimental Fund.



COMPÉTITION POUR L'ESSAI EN MÉMOIRE DU COLONEL GEOFFREY BROOKS

ÉLIGIBILITÉ

Les membres de tous rangs du Régiment royal de l'Artillerie canadienne.

SUJET

Écrivez sur n'importe lequel sujet d'intérêt général ou spécifiquement militaire qui s'applique au Régiment royal de l'Artillerie canadienne. Habituellement, les descriptions purement historiques ne sont pas acceptables puisque le but de la compétition est d'encourager la discussion de sujets d'actualités. À cette fin, les essais à caractères historiques doivent démontrer les "leçons apprises" qui pourraient être appliquées dans le présent ou dans le futur.

RÈGLEMENTS

Les essais devraient contenir de 3,500 à 5,000 mots. Ils doivent être dactylographiés et soumis en quatre copies.

Le titre et les pages de tout travail publié ou non-publié au quel il est fait référence dans le texte, ou du quel des extraits ont été utilisés doivent être cités.

Le nom de l'auteur de l'essai doit demeurer anonyme. Chaque compétiteur adoptera un motto ou un nom de plume qui sera cité au haut de l'essai.

Une enveloppe scellée accompagnera l'essai. Cette enveloppe contiendra le NAS, rang, nom et adresse du compétiteur et aura d'inscrit à l'extérieur le motto ou le nom de plume du compétiteur.

Les soumissions devront être adressées à l'Éditeur de l'Artilleur canadien, BFC Shilo, Manitoba, avec l'inscription "Compétition pour l'essai en mémoire du Colonel Geoffrey Brooks." Elles doivent parvenir au bureau de l'artilleur canadien au plus tard le 16 janvier 1995.

PRIX

Premier – \$500.00 Deuxième – \$250.00

JUGEMENT

L'éditeur s'organisera pour former un comité pour juger les soumissions. Les décisions de ce comité seront finales.

Les résultats seront publiés dans la prochaine édition de l'Artilleur canadien, et l'essai gagnant sera aussi publié dans cette édition.

L'éditeur et le personnel de l'Artilleur canadien ne peuvent être tenu responsable de la perte ou du retour de tout essai soumis; ils ne peuvent aussi accepter aucune responsabilité en ce qui concerne la réception, distribution, jugement et le rapport des essais.

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- judging will be conducted by a committee formed by representatives from CFB Shilo, 1 RCHA and the RCA Battle School;
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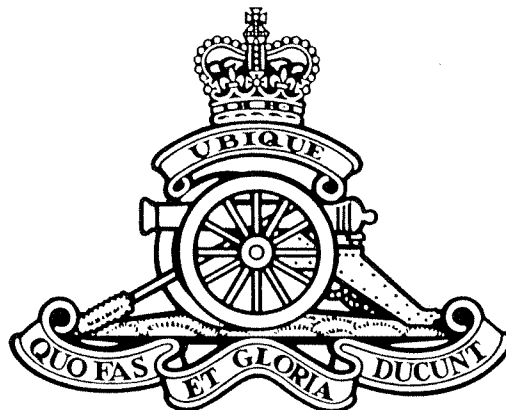
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THE COLONEL GEOFFREY BROOKS MEMORIAL PRIZE ESSAY WINNER



STEEL RAIN: A HISTORICAL PERSPECTIVE ON ARTILLERY IN DEEP BATTLE

by Captain Scott H. Osborne

"Sans doctrine les textes ne sont rien." ¹

INTRODUCTION

With the increasing advances in technology, the ability of artillery to influence the ground battle is greater than ever before. Improved conventional munitions, survey, gun systems and new weapon systems such as MLRS/ATACMS all make artillery greater in lethality, accuracy and range coverage. More important are the advances in near real time target acquisition with RPVs, drones and systems such as the American Joint Surveillance and Target Attack Radar System (JSTARS). These systems all make it possible to both detect and hit targets beyond the FEBA in excess of 100 kilometres. These advances are creating the opportunity for a revolution in doctrine. The US Army calls their new doctrine Airland Operations, popularly known as Deep Battle.

Deep Battle is the simultaneous and sustained attack across the entire depth of the enemy deployment including his C2I systems aimed at causing his morale to collapse. Deep Battle relies heavily on the application of technology to increase the range and target acquisition of all types of firepower in conjunction with attacking manoeuvre forces. For the remainder of this paper the term Deep Battle will refer to this general concept.

The doctrinal concept of Deep Battle was originally developed by the Soviets in the 1920s and 1930s. Their concept was and is based on its application to the offence. The Americans, on the other hand, because of their defensive posture in Europe have concentrated on the application of Deep Battle to the defence. In reality it is applicable to both phases of war equally and will increasingly blur the difference between the offence and defence. In fact, Deep Battle allows both phases of war to occur simultaneously.

In the offence or defence, artillery will engage C3I facilities, airfields, troop concentrations, artillery,

geographical choke points and conduct SEAD. In a meeting engagement for example, firepower, including artillery, airpower and aviation will interdict and attrition enemy forces as deep as possible before they can close with the FEBA. Figure 1 illustrates an example of how a corps commander might choose to apply his firepower during Deep Battle:

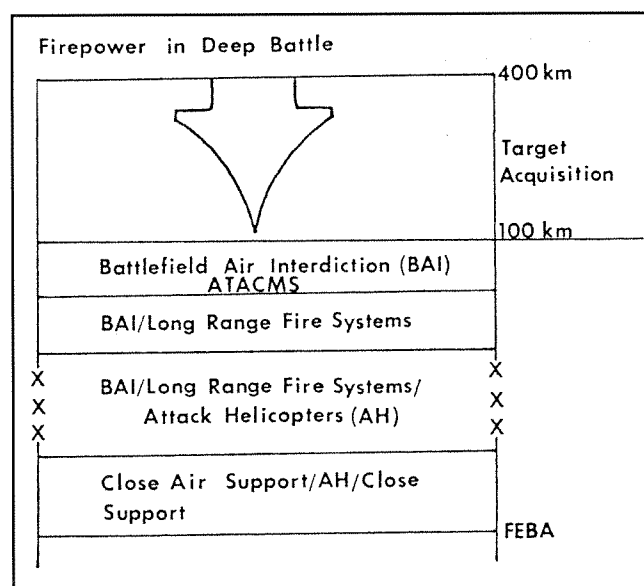


Figure 1

Firepower in Deep Battle²

Before starting Deep Battle, the commander must determine his target engagement priorities and allocate target acquisition resources in the areas he expects to acquire those targets. In the above figure, the corps commander could interdict and attrition the enemy for 100 kilometres before he reached the FEBA. The aim of employing Deep Battle in this example is defensive.

Although this new doctrinal concept is expected to take both the US Army and the successors to the Soviet Army into the 21st century, it is not as revolutionary as it appears. In fact, within the technological and doctrinal limitations of the day, artillery has conducted Deep Battle throughout this century. It has only recently been conceptualized in the West by this emerging American doctrine.

Doctrine has often developed quickly during a war, but during peace the doctrinal process has often been sluggish or stagnant. Doctrine that could be developed within a few years during a war may take 20, 30 or more years to properly develop during peace. The evolution of Deep Battle has taken so long to conceptualize because of long periods of peace, technological limitations and for the artillery, adherence to the doctrine of close support.

Deep Battle doctrine formalizes the exploitation of technology and its application to firepower. This concept has been evolving since guns could first employ indirect fire techniques. This makes it worthwhile to discuss the historical development of artillery in Deep Battle. This discussion will allow us to understand both where artillery has been and where it may be going.

AIM

The aim of this paper is to examine the history of artillery in Deep Battle.

APPROACH

Although Deep Battle doctrine encompasses all aspects of combined arms including airpower, this paper will concentrate on a historical perspective of artillery in Deep Battle from World War One to the Gulf War. This historical perspective will discuss the evolution of Deep Battle, through the emphasis between artillery tactical function and their tactical tasks. The Conclusion will summarize the lessons learned and make recommendations regarding Canadian Artillery in Deep Battle.

TERMINOLOGY

There is currently no Canadian doctrinal terminology specifically relating to Deep Battle. Therefore this discussion requires a common terminology that is understandable and applicable throughout the whole historical period. Where possible we will use existing Canadian terminology and where it is not we will invent new terminology. However, any new terminology will be based on existing Canadian doctrine as far as possible and radical new terms will be avoided. The purpose of this terminology will be, not to write new doctrine, but to establish a vocabulary that will add clarity to this discussion.

For this discussion, the battlefield will be broken into three interdependent battles, direct, depth and deep. The direct battle will be waged by the forward

combat teams within the brigade boundaries to a maximum depth of about four kilometres. The depth battle will be conducted by the division to a maximum depth of about 30 kilometres. Deep battle as a specific term, not to be confused with the general term Deep Battle, will be conducted by Corps and Army past the depth battle into the corps communications zone and beyond. These battles will be separated for the purposes of discussion only and in reality are part of one large simultaneous battle.

The factors which determine the range parameters of direct battle are the range of direct fire weapons and observed artillery fire. Depth battle is the range of the divisional artillery currently in use. Deep battle is beyond divisional resources and ranges. These terms are applicable, regardless of a formation's tactical posture.

The tactical function of artillery support will be determined by the type of battle. Thus the terminology for tactical functions we will use in the paper are: direct support³ for the direct battle, depth support for the depth battle and deep support for the deep battle. For our purposes, both depth and deep support are considered part of Deep Battle. Figure 2 illustrates the relationship between these tactical functions.

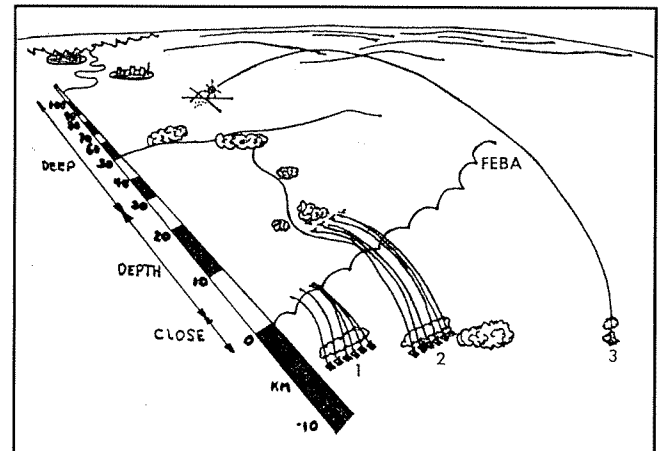


Figure 2

Tactical Function Schematic⁴

The limit of direct support does not change much as it is governed by the distance the eye can see. Depth support varies throughout the 20th century as the range of divisional artillery increases. In World War One, it was about 10 kilometres. In World War Two, about 15 kilometres and in the 1990s, about 30 kilometres. 1. Guns engage a direct support target on the FEBA; 2. Guns conduct counter battery as depth support; and 3. ATACMS engages an airfield as deep support.

In addition to the artillery tactical functions, we will list the tactical tasks required to accomplish each function. Figure 3 illustrates our tactical tasks for each function:

Function	Direct Support	Depth Support	Deep Support
Task	Preparatory Fire		
	Defensive Fire		
	Attrition	Attrition	Attrition
		Interdiction	Interdiction
	Target	Target	Target
	Acquisition	Acquisition	Acquisition
		Counterbattery	Counterbattery
	Coordination	Coordination	Coordination

Figure 3
Tactical Tasks Matrix⁵

WORLD WAR ONE

Previous to World War One, artillery had only one tactical function and that was direct support by direct fire. By 1915, direct support by indirect fire required the massing of huge numbers of guns and shells in order to literally destroy the defenders and their defensive works. By late 1916, reliance on heavy and lengthy preparatory fire was seen as counter productive because it destroyed the terrain the assault force had to cross.

Artillery support in the direct battle was limited by its range and, once exceeded, attacking infantry were forced to halt their advance. Inevitably, this was when the enemy chose to launch his counter-attack. This restriction and the physical difficulty of moving the guns forward in order to continue the advance created a demand for longer range. The guns would be able to effectively support the direct battle longer and further, interdict divisional counter-attack forces deployed in depth and conduct counterbattery. With longer range, artillery was not limited to one tactical function. Artillery could now affect the direct battle through depth and deep support tasks such as counterbattery and interdiction. Direct support was now only one way for artillery to affect the direct battle's outcome.

The static nature of the war reduced size and weight as restrictions on the employment of guns in the field. Navies long had a requirement for, and thus experience with, heavy long range guns. Surplus naval guns of long range and great shell size were soon sent to the front. The Germans, French, British and Americans converted hundreds of ex naval and coastal ordnance to field, static and rail mountings. The Germans were leaders in the employment of these naval guns and in the words of one German naval artillery officer, saw their tasks as follows:

"It was now a question of reaching out a few dozen kilometres behind the enemy lines, taking rear communications and main lines of communications depots under fire, striking into military camps and staff

headquarters, delivering fire on large railway stations and trans-shipment stations, harassing and rendering uninhabitable large towns and troop concentration points far behind the front and pushing the enemy's safe zone as far back as possible"⁶

The Germans often saw these guns as more effective in striking deep targets than aircraft. Aircraft were restricted by night, poor weather, air interception and anti-aircraft fire. Before 1914 ended the Germans had a 280mm naval gun emplaced opposite the fortified city of Verdun. Beginning in April 1915 and continuing throughout the war, a German 380mm static naval gun shelled the port of Dunkerque at a range of 45 kilometres. The fire from this gun caused great disruption in the disembarkation of British troop ships.⁷ By war's end, the US Army alone operated 10 regiments with over 70 long range rail guns.⁸ The value of long range rail guns, conducting deep support tasks some tens of kilometres beyond the FEBA was clear.

The importance of artillery in both attack and defence dictated that the guns themselves would become primary targets. The depth task of counterbattery started in earnest as early as January 1915. Counterbattery increased in importance throughout the war, as did the resources allocated to it. Counterbattery could involve thousands of guns on both sides struggling for firepower supremacy over a period of weeks. At the Third Battle of Ypres in 1917 the artillery duel lasted for 43 days between 1,500 German and 3,100 British guns. By 1918 the task of counterbattery was considered the important prerequisite to the direct battle.

The engagement of depth and deep support tasks could not be successful without target acquisition from intelligence gathering, aerial photos, aerial observers, flash spotting, sound ranging and forward observers. Intelligence gathering consisted of shellreps, patrolling and prisoner interrogation. Aerial photos allowed the guns to shoot predict missions off the map deep in the rear of the enemy combat zone. Aerial observers could spot for the guns and engage hostile batteries and other deep targets of opportunity. The British employed ad hoc flash spotting organization by late 1914. As early as September 1914, the French explored the possibilities of sound ranging and employed the first operational sound ranging section in January 1915. Within months the British and Germans followed with their own sound ranging sections. By August 1916, the British had deployed one sound ranging section per corps whereas the Germans had one per army. The British used their superior target acquisition organization to regularly locate 75% of all German batteries by mid 1917.⁹ In one month the Germans lost 13% of their artillery deployed on the Western Front to counterbattery.¹⁰ Target acquisition was crucial to not only engagement of counterbattery, but all other depth and deep targets.

The 1,220 German guns deployed for the Battle of Verdun in 1916 included two 380mm naval guns with ranges of 48 kilometres.¹¹ These naval guns were to conduct the deep support task of interdiction on choke points such as the Verdun rail station, the Meuse River bridges and the MSRs. Batteries of long range 150mm naval guns were also detailed to interdict all roads leading to the front. These guns were so successful, that Verdun was in danger of falling, due to the almost complete interdiction of supplies and reinforcements moving over the MSRs. Only one road, christened the "Sacred Way" after the battle, remained open for supplies and replacements. The failure of the Germans to close this MSR saved the city and turned the battle into a bloody stalemate. The value of depth and deep support, through tasks such as interdiction was increasingly important to the plan of battle.

By the last year of the war, the use of all tactical functions as part of Deep Battle had become commonplace. The best example of fire support coordination of all the tactical functions was the great German offensive of 1918. This offensive was designed to win the war for Germany in one last effort, before the material and manpower superiority of the Allies overwhelmed her. The fireplan included 6,400 guns, 73 long range naval guns (210mm and larger) and 3,532 light and heavy mortars. The artillery offensive was conducted up to an average depth of 18 kilometres behind the British FEBA. The Deep Battle fireplan consisted of interdiction on reserve battalion assembly areas, railheads, airfields, bridges, key road junctions, battalion, brigade, divisional and corps headquarters and of course counterbattery.¹² The artillery was task oriented specifically to conduct all three tactical functions. Figure 4 illustrates these groupings:

Group	Function	Control	Notes
IKA	Direct	Division	75%, Preparatory Fire
AKA	Depth	Corps	20%, Counterbattery
FEKA	Deep	Corps	4%, C3, Interdiction
SCHWEFLA	Deep	Army	1%, C3, Interdiction
MW	Direct	Division	Preparatory Fire
IBB	Direct	Division	Preparatory Fire

Figure 4

Artillery Organization for Combat¹³

IKA were the direct support artillery for the infantry. AKA artillery were for counterbattery. FEKA were the long range artillery controlled by corps. SCHWEFLA were heavy artillery controlled by army. MW were the infantry mortars and IBB were the direct fire infantry guns attached at company and battalion level.

Before the end of the war there was a challenger to artillery's dominance in Deep Battle. The challenger was tactical air support, including close air support, counterbattery and battlefield air interdiction. The Germans in their 1918 spring offensive, for the first time used tactical air support squadrons with specialized, armoured ground attack aircraft. Previous to that, some limited tactical air support had been conducted on an ad hoc basis with whatever aircraft were available. In August 1918 during the Battle of Amiens, the British further refined the use of tactical air support by conducting counterbattery missions. The British continued to display air support's potential by effectively interdicting the Turkish 7th Army's retreat from Palestine in late 1918. Artillery's role in Deep Battle had not remained unchallenged for long.

LESSONS OF WORLD WAR ONE

Balanced Tactical Functions - Requirements for long range had changed the emphasis from direct support to a coordinated balance between direct, depth and deep support. Experience in battle had confirmed that Deep Battle was as important to every operational plan as direct support.

Target Acquisition - Closely linked with the functions of depth and deep support was the tactical task of target acquisition. If counterbattery was, by the end of the war, a prerequisite to the direct battle, then target acquisition was the crucial prerequisite to counterbattery. Effective target acquisition was also mandatory in acquiring all manner of direct, depth and deep targets on the battlefield. However, it took time to acquire targets. This encouraged a static and predominantly defensive posture for the employment of Deep Battle.

Technology - The various long range ordnance employed, demonstrated that long ranges were technically possible.¹⁴ Battlefield mobility, however, was sacrificed due to the size and weight of the weapon required to achieve long range. Although strategic mobility could be achieved by mounting these guns on rail, it remained to be seen if they could be effective in a war of movement.

Tactical Air Support - The future employment of tactical air support was not resolved by the end of the war. Was tactical air support a replacement for artillery or was it a reinforcement?

THE INTERWAR YEARS

Most armies were expected to carry on with the huge stocks of guns and ammunition left over from the war, due to the lack of a threat and the cost of replacement. The technical potential of tactical air support in the years after the war questioned if long range artillery was even worth manufacturing. These factors discouraged the modernization of artillery. Artillery technical, and more importantly, doctrinal development stagnated during most of these interwar years. Even the more fashionable concepts of tanks and tactical air support had difficulty receiving support

from financially strapped governments and war weary populations.

The Americans in late 1918 were the first to set up a board to examine the artillery lessons of the war. The board recommended the introduction of 155mm howitzers and guns, a 9.5 inch howitzer, self propelled guns, rail guns and research into ballistic shell design for maximum range. As far sighted as these suggestions were, most were shelved due to lack of money. By the 1930s, the US Army believed that tactical air support would fulfil any task of long range artillery. The Americans even believed artillery's role in a future war would not be above the direct support or divisional level.¹⁵

As early as 1924, the British had completely abandoned long range artillery because of its lack of mobility. Only one target acquisition battery was retained in the army, and that was at the school of artillery.¹⁶ This lack of interest in Deep Battle was further reinforced by several colonial wars which emphasized direct support. It was generally believed that tactical air support would fulfil the requirements of long range artillery. The RAF, however, was not interested in tactical air support or even aerial observation. Their efforts were directed almost solely at strategic bombing and fighter defence. Some of the advocates of tanks and mechanization thought that artillery could be dispensed with completely. Consequently, the future employment of artillery was confused and lacked focus.

The Soviets, in their political isolation, identified a threat based on previous Allied intervention during their civil war. This threat focused their studies of World War One on mechanization and airpower. In the 1920s they developed the concept of Deep Operational Theory or Deep Battle. This was the first attempt to write a comprehensive Deep Battle doctrine. This concept envisioned artillery, mechanized and airborne forces supported by tactical air support as an integrated and balanced combined arms team operating both laterally and in depth. Unlike the West, artillery development, both technical and doctrinal, were given very strong priority. Unfortunately, the author of Deep Battle, Marshall Tukachevskii fell out of favour with Stalin and was executed as part of the great purge of 1938. With his death these ideas were dropped.

The Germans, having lost the war, had no problem foreseeing a future war. They quickly embraced the idea of combined arms supported by tactical air support. They also realized that air superiority was not guaranteed and decided to experiment with long range artillery as well. Their biggest challenge for the development of long range artillery was not the technical difficulties of range, but of achieving comparable mobility to the armoured forces they were to support. In 1936 they initiated development programs on long range rail guns and conventional artillery.¹⁷ By 1939 they realized that

neither large calibre conventional artillery nor rail guns could be made mobile enough. The technical difficulties restricting mobility might have been eventually solved, but the Germans started too late and World War Two forced production and development priorities elsewhere.

By the late 1930s most world powers realized that a new war was probable and renewed their interest in long range artillery.¹⁸ New manufacturing techniques such as autofrettage promised to make longer ranges easier to achieve. The Soviets had formalized the theory of Deep Battle but this was stagnant because of the death of Marshall Tukachevskii. The Germans had done a lot of technical development but experienced problems in developing a mobile long range artillery and had no written doctrine.

WORLD WAR TWO

The German doctrine of combined arms integrated with tactical air support brought great success in the early years of World War Two. The Luftwaffe provided aerial observation for artillery, conducted tactical air support and, through air superiority, denied the same to their opponents. They used dive bombers as flying artillery in close air support, counterbattery and battlefield air interdiction. A good Stuka pilot could put a 500 kilogram bomb on a target with a circular error probable of about 30 meters.¹⁹ Aircraft were more mobile than conventional artillery and appeared to be the best source of firepower in a war of movement.

The Germans during an attack, often decentralized their corps and army level artillery to divisional control. Priority was given to the direct battle in the belief that direct support was the most important way for artillery to affect that battle. As the Germans were usually attacking or counter-attacking, decentralized artillery became the accepted way of organizing artillery. This focused artillery on direct support with tactical air support providing the flexibility to conduct tasks such as close air support and battlefield air interdiction.

The Soviets felt the Germans relied too much on tactical air support, particularly close air support. This allowed the Soviets to employ their anti-aircraft resources against a major source of German firepower. The Soviets believed that artillery was the principle source of firepower and tactical air support reinforced, but did not replace it.²⁰ As the Soviets did not have air superiority in the first years of the war, they developed a large role for artillery. Even though its range was less, the Soviets used artillery in interdiction tasks. As the Germans advanced on Stalingrad in the summer of 1942, for example, the Soviets employed their artillery to interdict and attrition the advancing enemy before they reached the outskirts of the city. A classic example of artillery utilizing Deep Battle for defence. Figure 5 illustrates this interdiction of the German advance:

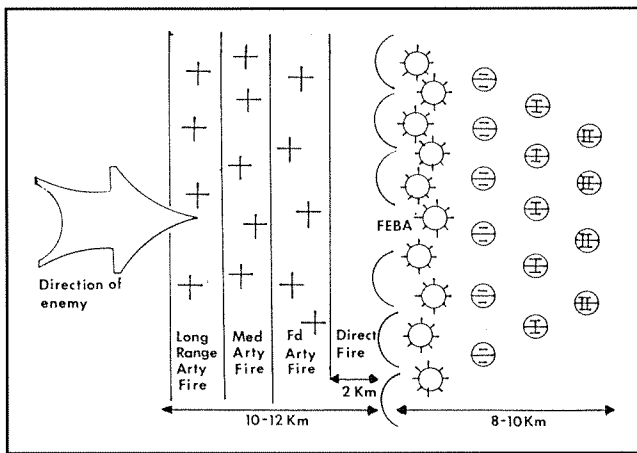


Figure 5

Deep Battle at Stalingrad 1942²¹

As shown in the example in Figure 1, the Soviet commander could interdict and attrition the enemy for 12 kilometres before they reached the FEBA and started the direct battle.

By 1943, the German's lack of long range artillery started to become critical. The range of the divisional artillery could not support the greater divisional frontages required in the large expanses of Russia.²² The Soviets had quickly increased their artillery strength and relied on it as their principle source of Soviet firepower. This lack of range could be dealt with by air support as long as the weather was good and the Luftwaffe could maintain air superiority. As soon as the weather turned bad, the enemy achieved air superiority or even air parity, this lack of range became critical. German artillery with its predominantly shorter range could not make up for the loss of air superiority.

In the last year of the war logistics restricted both the Western Allies and the Soviets in their advances across Europe. A Blitzkrieg in the style of 1940 was also no longer possible as both sides were experienced in employing mechanized combined arms forces. Once the fronts became static, it was artillery firepower in conjunction with airpower which created the opportunities for manoeuvre. For this reason the Allies placed increasing emphasis on firepower. The fact that by late 1944 the Germans could no longer, and the Allies could conduct effective counterbattery by guns or aircraft, was a major cause of German defeat in World War Two.²³ The Germans had failed to maintain a balance between the tactical functions of direct, depth and deep support.

Although tactical air support was expected to perform battlefield air interdiction tasks, it never completely replaced artillery. By 1945 the Soviets had complete air superiority on the Eastern Front but still used artillery for interdiction tasks in the enemy rear. Figure 6 illustrates the depth of counterbattery and interdiction tasks in the Berlin operation of April 1945:

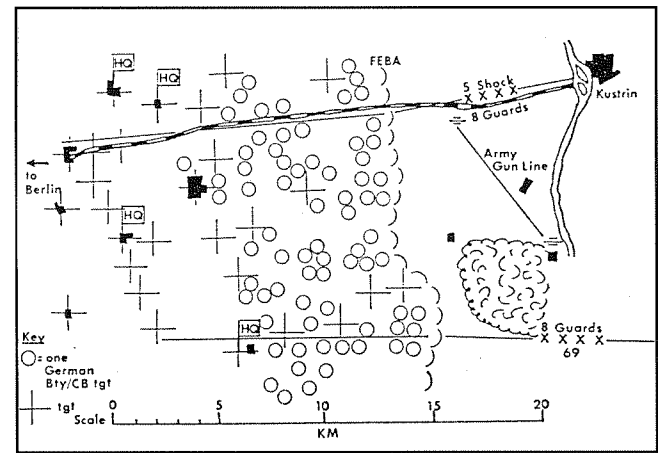


Figure 6

Deep Battle at Berlin, April 1945 8th Guards Army Fire Plan²⁴

In addition to counterbattery targets, the Soviets also interdicted all towns/roads junctions, known headquarters and interdicted the Berlin east-west autobahn. Target symbols are representative and due to scale may represent more than one actual target.

The Western Allies started the war with very little long range artillery and placed their priority on direct support. As they gained air superiority, tactical air support took on increasing importance as a substitute for their lack of long range artillery. As this importance grew, so did the requirement for artillery to also conduct SEAD as part of counterbattery. By late 1942 new American and British medium and heavy long range artillery were finally being fielded. However, there were never enough to conduct all the counterbattery or interdiction tasks. Despite having air superiority, the clamour for long range artillery grew, particularly in the Italian campaign.²⁵

The advantages of tactical air support in Deep Battle were superior range, greater immediate ordnance load and although there was an air space coordination problem, it created no real estate management problem.²⁶ The disadvantages were its vulnerability to weather, antiaircraft fire, fighters, lack of accuracy, long response times and the fact that those requesting it didn't own it.²⁷ Artillery shells on the other hand could not be interfered with once fired, responded quicker and army ownership guaranteed a response. For these reasons airpower could not be a replacement for artillery in Deep Battle but only in reinforcement.

LESSONS OF WORLD WAR TWO

Balanced Technical Functions - In spite of the pre-war belief that tactical air support would replace long range artillery, it had proven it was still required. The major weakness of tactical air support was control of the skies. Reliance on airpower for depth and deep

support and artillery for only direct support proved disastrous if that airpower was lost or just unavailable. The Allies were fortunate that due to their material advantages they established air superiority and never lost it. The Germans had no such material advantage and discovered that an imbalance between artillery tactical functions could be fatal.

Target Acquisition - Simple radars were introduced, mostly for the detection of mortars. There were no other appreciable changes to the conduct of target acquisition except a greater reliance on aircraft.

Tactical Air Support Complementary - By the end of the war, artillery and tactical air support were seen as complementing each other's weaknesses. Tactical air support required artillery to conduct SEAD in support of some air operations and artillery required air support to engage targets out of reach.

Artillery More Reliable - Artillery in Deep Battle was preferred for those targets in range, due to speed of response and ownership.

POST WORLD WAR TWO

Wars since World War Two were either long, drawn out guerilla wars of national liberation or very short wars emphasizing fast-paced mechanized operations supported by airpower. Both types of wars reinforced the primacy of direct support. There was little opportunity in guerilla warfare to engage targets in depth as there usually was nothing in depth. The short and fast wars followed the Blitzkrieg pattern which stressed direct support with tactical air support for depth and deep support tasks.

Thoughts about conventional war in Europe were influenced by the overwhelming numerical superiority of the Warsaw Pact and the possible employment of nuclear weapons. It was believed that a war would be short and only a quick escalation to nuclear weapons would save NATO. Based on a short war scenario that could not be won conventionally, there was little interest in employing artillery beyond direct support.

Korea was the exception to guerilla wars or blitzkriegs, more resembling World War One than World War Two. It started with a quick mobile phase and then settled down to a stalemate. Although the US Army asked for more heavy long range artillery, they had to rely on tactical air support for most depth and deep tasks.²⁸ What long range artillery there was, usually reinforced the divisions in direct support. An over reliance on tactical air support brought with it the usual disadvantages.

One of the major problems in Vietnam was area coverage, which encouraged the dispersion of artillery resources into firebases. As such, it was a battery commander's war which focused on direct support.²⁹ Long range was seen as an ability to engage in direct support tasks at greater distance rather than the ability to engage in depth. The other problem in Vietnam was target acquisition. It relied heavily on unattended ground sensors, long range reconnaissance patrols

and aerial observers. Success in acquiring and engaging targets was erratic at best. Interdiction fire was conducted on trail junctions and streambeds in the enemy controlled countryside. Due to the nature of the terrain, the enemy and the fact that these targets were randomly picked off a map, most ammunition was wasted. Between January and June 1967, 45% of all missions fired in Vietnam were of this type.³⁰ Their overall failure led to their being totally discredited by the end of the war.

The American experience in Vietnam reinforced the general movement back to an emphasis on direct support. American attention in the mid 1970s then focused on combat in Europe against the Warsaw Pact. Based on their assessment of how a conventional war in Europe would be fought they rewrote their doctrine. The Americans disbanded their corps artillery headquarters, putting all artillery under divisional control for direct support and some limited depth tasks.³¹ The US Army was back exactly where it had been in late 1942. The lessons of World War Two were rapidly being forgotten or ignored.

The Soviets, however, had not forgotten the lessons of World War Two and the value of Deep Battle. They developed long range artillery after the war, such as the 130mm M-46 with a range of 27 kilometres. The M-46 outranged all NATO guns for about 15 years. They also developed several different types of tactical free flight rockets for use in Deep Battle. The Soviets saw tactical rockets as an extension of artillery much more than did NATO. Unlike American rockets such as Lance and Pershing, Soviet rockets were expected to be employed in a conventional role and not just nuclear. In addition, Marshal Tukachevskii and his Deep Operational Theory were formally rehabilitated in 1965.

The former Soviets realized that one of the potential problems of conducting Deep Battle is fire support coordination. They are currently exploring the possibilities of what they call artillery reconnaissance-fire and strike complexes. Artillery reconnaissance is their term for target acquisition. They currently field a first generation substitute, a reconnaissance-fire group using current technology. These complexes are automated systems fused with an intelligence cell and fire detection centre allowing the complexes to tap into all forms of target acquisition. The fire complex, employed at divisional level, will coordinate depth support, primarily counterbattery to about 25 kilometres. The strike complex will coordinate deep support at army level as the former Soviets do not employ corps.³²

Canada has made some informal moves in the same direction. In 1985 with the fielding of the Intelligence Collection and Analysis Centre (ICAC), some effort was made over the next few years to integrate artillery into the ICAC in imitation of the reconnaissance-fire/strike complex. These informal moves were initiated by the Intelligence Corps and not

by the Royal Regiment of Canadian Artillery. Cooperation was grudgingly tolerated over command and control of RPVs but no other real progress was made.

In 1981 the US introduced Airland Battle doctrine, specifically incorporating the employment of artillery in Deep Battle. A re-examination of what the Soviets were capable of, and how a possible war in Europe might be fought forced this change in doctrine. The corps artillery headquarters, the ideal organization to conduct deep support, was reformed.³³ Soon thereafter, development was started to determine where doctrine should go in the future.

Airland Operations, as this new doctrine is called, focuses attention on the impact of emerging technology on the development of doctrine. Airland Operations is predicated on winning quickly, doing this by engaging the enemy as early as possible with long range weapons such as artillery. Although this doctrine is not finalized, its pervasive influence is affecting how the Americans fight their wars now. The US V Corps in Europe currently has a Deep Operations cell which includes the G-2 section.

The Gulf War was the first test of the American concept of Deep Battle. It was applied with nothing less than devastating effect on the Iraqi Army. Sophisticated target acquisition systems such as RPVs, drones and the experimental JSTARS, allowed the US to destroy the Iraqi artillery and interdict anything that moved. Although air power was very effective, artillery still appeared to have distinct advantages. One Iraqi divisional artillery with 64 guns lost only seven to tactical air support but 46 to MLRS counterbattery.³⁴

The Iraqi Army had virtually no targeting ability and could not conduct anything beyond direct support. They had no understanding of Deep Battle and the importance of balanced tactical functions. In the words of one American general: "An enemy who outgunned and outranged us lost the war because he could not target our forces. We won because we could and did target the enemy successfully."³⁵

LESSONS OF POST WORLD WAR TWO

Balanced Tactical Functions - Initially after World War Two artillery employment emphasized direct support. Even counterbattery was given a low priority. As in the period after World War One, the advantages of Deep Battle were quickly forgotten or ignored. A resurgence of interest in Deep Battle on the part of the Soviets and later the US Army and advances in technology make Deep Battle doctrine fundamental to the conduct of modern warfare.

Target Acquisition - The importance of target acquisition remained unchanged. The Gulf War highlighted the impact of technological advances in target acquisition which make effective Deep Battle possible. An inability to acquire any kind of target

was, for the Iraqi Army, fatal.

Fire Support Coordination - The application of technology to Deep Battle doctrine will only be restricted in the future by our ability to effectively coordinate near real time target acquisition.

CONCLUSION

Deep Battle was born in early World War One and has been evolving ever since. The primary emphasis has been on direct support between the wars but on a balance of tactical functions during major wars. The importance of target acquisition has been obvious for the successful conduct of Deep Battle. Tactical air support could substitute for a lack of long range artillery but had limitations. Long range artillery was more reliable as it couldn't be shot down, responded quicker and was owned by the ground forces. Except for range limitations, artillery was still the best system to conduct Deep Battle.

All countries advocate combined arms. Deep Battle will promote a combined approach to the application of firepower. In the future this may include all forms of target acquisition, fire support coordination and firepower under one control. The future will see new improvements in the MLRS family of munitions such as Search and Destroy Armour (AADARM), Terminally Guided Weapons (TGW), and ATACMS Block II smart munitions. Further improvements in target acquisition, to match those advances in munitions are expected. Improvements, however, will be required in fire support coordination, both technical, organizational and doctrinal. All these will enhance or restrict the ability to conduct Deep Battle. In the words of Les Aspin, Chairman of the US House of Representatives Committee on Armed Services:

"The need for intelligence will continue to grow as next generation weapons enter the inventory and as the sophistication of weapons increases, deficiencies in intelligence support will proportionally constrain their effectiveness."³⁶

The Canadian artillery has a thorough and integrated system for conducting direct support. Canada has followed the usual peacetime practice of relying on direct support and ignoring Deep Battle. How the Canadian artillery would conduct depth and deep support are not in Canadian doctrine. Canadian doctrine mentions terms such as counterbattery, interdiction and attrition, but our doctrine is either out of date or is lacking on how to conduct them. At best we could only conduct Deep Battle in the manner of World War Two. At worst we couldn't conduct it at all. Consequently, current Canadian artillery doctrine is obsolete.

The three requirements for the successful conduct of Deep Battle are advanced long range artillery, target acquisition technology and a comprehensive doctrine. All three are coming together now. Without a Deep Battle doctrine Canada will not even be able to effectively cooperate with our

American and European allies. Canada may not be able to afford all the new advances in technology, but we cannot afford to be left behind doctrinally.

This discussion has proven that artillery in Deep Battle was a viable concept in the past. It is a viable and combat proven concept in the present and will be even more so in the future.

ENDNOTES

1. Shelford Bidwell and Dominick Graham, *Firepower, British Army Weapons and Theories of War 1904-1945* (London: George Allen and Unwin, 1982), p. 2.
2. General John W. Foss, "Airland Battle-Future: An Evolving Concept", *Field Artillery*, August 1990, p. 10.
3. The Artillery Terminology Board has recently declared the term close support obsolete. For the purposes of this paper we have used the term direct support. The two terms are interchangeable.
4. Chris Bellamy, *Red God of War* (London: Brassey's Defence Publishers, 1986), p. 210.
5. All these tasks are defined in current Canadian doctrine. In current doctrine they are defined as tactical classifications of fire, for this paper we will refer to them as tasks. These definitions include the old term, counter-preparatory fire, as part of defensive fire. Harassing fire is only one part of interdiction and is not a separate term in Canadian doctrine. Most armies consider it obsolete. Target acquisition is used here in its broadest sense to include acquisition of all targets including artillery weapon systems. Although not strictly an artillery definition, target acquisition in this broad sense is a part of Canadian doctrine. The following are the definitions of the terms referred to in this paper as tasks and their source;

Attrition - Artillery can employ fire support to cause heavy enemy casualties, both personnel and material. This will help to establish and maintain favourable combat ratios. (CFP 306-1)

Coordination - The artillery commander at every level of command is tasked to coordinate all means of fire support available at that level. This includes land, air and sea delivered fire support. (CFP 306-1)

Counterbattery - Neutralization and destruction of enemy artillery, mortar, rocket launcher and air defence equipments and units is referred to as counterbattery (CB). The purpose of CB is to establish such fire supremacy over the enemy's artillery that, for specific periods, he can neither provide fire to support his own operations nor interfere with ours. (CFP 306-1)

Defensive Fire - The aim of defensive fire is to disorganize the enemy's preparation for attack and to break up his assault when it is delivered. It is also to strike at his reserves and HQ once the attack is launched. (CFP 306-3)

Interdiction - Artillery can employ fire support to achieve interdiction. This is designed to delay, isolate, disrupt, harass and deny the enemy freedom of movement. Its purpose is to maintain favourable force ratios by preventing the enemy from deploying additional forces to reinforce those he has already committed to an operation. (CFP 306-1)

Preparatory Fire - Fire on the enemy's defensive position, designed to weaken his resistance by inflicting

casualties to personnel and to equipment, by destroying his defensive works and disrupting his communications, or to demoralize the enemy so that he will offer little or no resistance to an assault. (CFP 303-2)

Target Acquisition - The detection, identification, and location of a target in sufficient detail to permit the effective employment of weapons. (CFP 303-2)d

6. Gerald V. Bull and Charles H. Murphy, *Paris Kanonen - The Paris Guns (Wilhelmgeschutze) and Project HARP* (Herford: Verlag E.S. Mittler und Sohn GmbH, 1988) p. 54. In the sense that it is being used here, the word communications does not refer to radio communications but rather lines of communications such as roads and railways.
7. *Ibid.* p. 55.
8. Ian V. Hogg, *The Guns 1914-1918* (New York: Ballantine Books Inc, 1971) p. 108.
9. Bidwell and Graham, *Firepower*, p. 109.
10. Cracker, 'A Short History of Counter Bombardment in the First World War 1914-1918', *Journal of the Royal Artillery*, (March 1983), p. 62.
11. Alistair Horne, *The Price of Glory* (London: Macmillan and Co Ltd., 1962), p. 43.
12. This fireplan was all the responsibility of one rather obscure reserve Lieutenant Colonel of artillery, George Bruchmuller. He was appointed as the artillery advisor to the German Supreme Command on the Western Front after successfully employing similar methods in Russia. His unusual methods remained controversial after the war. Internal opposition to him in the army was so strong that he was never reinstated into the regular army after the war. His highest rank was acting colonel, although he was made a Major General on the retired list in September 1939.
13. Major David T. Zabecki, USAR, "Der Durchbruchmueller", *Field Artillery*, August 1990, p. 15.
14. Bull and Murphy, *The Paris Guns*, p. 67.
15. Major David L. Ingle, *The Role of Corps Artillery in the Airland Battle Concept*, United States Army Command and General Staff College, (Fort Leavenworth, Kansas: USACGSC, 1982), p. 33. It was only upon the insistence of the corps artillery officer that the Americans in the North African landings in November 1942 had any long range artillery at all.
16. Bidwell and Graham, *Firepower*, p. 153. A situation only slightly better than that in the Canadian Army today.
17. The rail gun program built about 50 assorted guns by 1939 and a further 50 by the end of the war. The standard rail gun of 280mm, of which 298 were made, had a range of 62 kilometres. The conventional gun program consisted of several types but all were manufactured in small numbers. The initial statement of requirement (SOR) in 1938 called for a 240mm gun with a range of 50 kilometres and transportable in one load. The gun produced to meet this SOR had a range of 37.5 kilometres, a crew of 25, weighed 54 tons, was transported in six loads and took one and a half hours to set up. Only six were built.
18. J.B.A. Bailey, *Field Artillery and Firepower* (Oxford: The Military Press, 1989), p. 164. At a Chief of the Imperial General Staff committee meeting in London in 1938, it was recognized that long range artillery would be required for the army.

19. Williamson, Murray, *Strategy for Defeat, The Luftwaffe, 1933-1945* (Secaucus: Chartwell Books, 1986), p. 90. With accuracies like that one can see why there was a strong belief during the 1930's that airpower would replace artillery completely.
20. Esen, "Artillery in the Defence of Stalingrad", *Journal of the Royal Artillery*, LXX No. 4 (October 1943), p. 301.
21. *Ibid.* p. 299.
22. Gerd Niepold, *Battle for White Russia* (London: Brassey's Defence Publishers, 1987), p. 28.
23. Karl Thoholte, General der Artillerie, "A German Reflects Upon Artillery", *Field Artillery Journal*, Vol. 35 No. 12 (December 1945), p. 709.
24. Bellamy, *Red God of War*, p. 70.
25. Carlo D'Este, *Fatal Decision* (New York: Harper Collins, 1991), p. 456. The Germans were able to mass a formidable array of long range guns at Anzio, specifically their excellent 170mm "Matterhorns" and 280mm railroad guns. It was the effectiveness of these German guns which produced a demand for more long range guns in the Italian campaign.
26. During the battles around Leningrad in 1941-1942, the swampy terrain restricted the numbers of guns the Germans could deploy, even though more were wanted and available.
27. Baily, *Field Artillery and Firepower*, p. 246.
28. *Ibid.* p. 238.
29. *Ibid.* p. 250.
30. *Ibid.* p. 247.
31. Ingle, *Corps Artillery*, p. 46.
32. Lieutenant Colonel Lester W. Grau, *Soviet Artillery Planning in the Defence*, Soviet Army Studies Office, (Fort Leavenworth, Kansas: US Army Combined Arms Centre, 1990), p. 18.
33. Ingle, *Corps Artillery*, p. 81.
34. Colonel Robert H. Scales Jr., "Accuracy Defeated Range in Artillery Duel", *International Defense Review*, 5/1991, p. 479.
35. Major General Fred F. Marty, "Targeting and the D3 Methodology", *Field Artillery*, February 1992, p. 1.
36. Representative Les Aspin and Representative William Dickinson, *Defense for a New Era: Lessons of the Persian Gulf War* (Washington: Brassey's Inc., 1992), p. 37.

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FINANCIAL REPORT

27 FEBRUARY 1994

RCA REGIMENTAL FUND BALANCE SHEET 27 FEBRUARY 1994

	Balance 27 Feb 94	Balance 28 Feb 93
ASSETS		
Bank	85,442.03	27,825.21
Entities Bank	12,421.27	72,989.90
Investments (Inv) Greenshields	399,949.57	310,267.54
ACCOUNTS RECEIVABLE		
Accounts Receivable GST	0.00	27.23
TOTAL ACCOUNTS RECEIVABLE	<u>0.00</u>	<u>27.23</u>
TOTAL ASSETS	<u>497,812.87</u>	<u>411,109.88</u>
LIABILITIES		
CURRENT LIABILITIES		
Accounts Payable (A/P)	287.87	416.18
1 HA Sword Fund	147.70	820.60
Arty Reunion 1994	4,000.00	4,000.00
A/P Gregg Revenue	1,035.00	4,301.87
125th Anniversary	6,750.12	5,206.84
Mitchell Trust (A)	300.00	0.00
Unearned Gunner Revenue	0.00	7,273.79
TOTAL CURRENT LIABILITIES	<u>12,520.69</u>	<u>22,018.79</u>
LONG TERM LIABILITIES		
Reg Inv	40,837.21	35,265.33
Museum Inv	53,577.77	46,384.67
Gregg Inv	269,966.04	215,384.67
125th Inv	399,949.57	310,267.54
TOTAL LONG TERM LIABILITIES	<u>412,470.26</u>	<u>332,286.33</u>
CAPITAL		
Capital Begin	78,823.55	47,190.07
Retained Earnings	6,752.65	37,376.47
Capital Adjustment	-233.59	-5,742.99
TOTAL CAPITAL	<u>85,342.61</u>	<u>78,823.55</u>
TOTAL LIABILITIES AND CAPITAL	<u>497,812.87</u>	<u>411,109.88</u>

RCA KIT SHOP BALANCE SHEET

	Balance 27 Feb 94	Balance 28 Feb 93
CURRENT ASSETS		
Petty Cash/Chg Fund	600.00	700.00
Accounts Receivable	21,919.64	49,159.78
Fixed Assets Net BV	580.86	672.27
Inventory (B)	210,342.45	243,227.53
Prepaid Expense	3,979.00	0.00
TOTAL ASSETS (B)	<u>237,421.85</u>	<u>293,759.58</u>
LIABILITIES		
A/P Suppliers	2,954.02	-93.63
Bank Overdraft (E)	17,580.11	71,274.52
A/P PST	0.00	87.15
TOTAL LIABILITIES	<u>20,534.13</u>	<u>71,268.06</u>
CAPITAL		
Capital Begin	222,491.52	224,967.13
Capital Adjustment	1,430.87	-2,475.61
Retained Earnings	-7,034.67	0.00
TOTAL LIABILITIES AND CAPITAL	<u>237,421.85</u>	<u>293,759.58</u>

NOTES:

- A. Monies held in trust on behalf 2 HA from Col Mitchell (Retd).
- B. Affected by the reorg of the kit shop and its write-off of bad debts and unsaleable merchandise.

RCA REGIMENTAL FUND PROFITS/LOSS

	Budget	Actual
REVENUE		
Fund Subscriptions	75,600.00	95,270.96
Kit Shop (B)	18,154.00	-28,040.02
Quadrant Revenue	8,500.00	8,279.90
Miscellaneous Revenue	696.00	955.75
Gunner Revenue	17,000.00	17,526.30
Interest Revenue	0.00	558.07
TOTAL REVENUE	<u>120,250.00</u>	<u>94,770.96</u>
EXPENSES		
Museum	10,800.00	10,800.00
Info & PR		
Gregg Expenses	0.00	10.02
Gunner Expenses	17,000.00	21,300.00
Quadrant Expenses	7,200.00	8,700.00
Brooks Essay Contest	750.00	500.00
RCA Photo Contest	100.00	0.00
Quadrant Postage	1,065.00	0.00
Gunner Postage	650.00	1,556.86
TOTAL INFO & PR	<u>26,765.00</u>	<u>31,843.88</u>
SOLDIER (SDT) RECCE		
Top Students	1,575.00	1,070.78
Retirement	4,980.00	1,988.47
Bursaries	4,000.00	4,000.00
Asst	500.00	1,000.00
TOTAL SDT RECCE	<u>11,055.00</u>	<u>8,059.25</u>
SPECIAL PROJECTS		
Standing Orders	500.00	0.00
RCA/RCHA Uniforms	2,000.00	0.00
125th Anniversary	16,200.00	16,200.00
5 RALC 25th	2,000.00	2,000.00
18 AD Regiment	750.00	750.00
TOTAL SPECIAL PROJECTS	<u>21,450.00</u>	<u>18,950.00</u>
CONTINGENCY		
Contingency Fund	1,500.00	1,500.00
NPP ACQ & MAINT		
NPP ACQ & Maint	5,000.00	3,751.92
OPS & MAINT		
Office Expenses/Postage	3,200.00	750.28
Miscellaneous Bank Charges	240.00	282.21
Photocopier Rent	1,000.00	40.00
Audit Charges	390.00	0.00
NPF Bookkeeper (D)	3,300.00	4,585.52
Travel Expenses	2,100.00	238.00
Computer Expenses	1,200.00	887.34
TOTAL OPS & MAINT	<u>11,430.00</u>	<u>6,746.35</u>
MISC ALLOCATIONS		
Col Comdt	700.00	704.03
D Arty	500.00	374.53
RSM RCA	200.00	149.59
Junior Officers Crse (C)	800.00	1,638.97
SSO Arty	250.00	180.67
Pres Exec Board	1,000.00	250.00
RCA Band Maint	2,000.00	2,000.00
RCAA Membership	1,550.00	1,632.00
TOTAL MISC ALLOCATIONS	<u>7,000.00</u>	<u>6,929.79</u>
TOTAL EXPENSES	<u>95,000.00</u>	<u>88,018.31</u>
NET SURPLUS/DEFICIT	<u>25,250.00</u>	<u>6,752.65</u>

- C. Driven over primarily by theft of bar stock from VIP houses. Some may be rec in FY94/95.
- D. Higher main due to maternity leave handovers and NPF collective agreement.
- E. Tied to accounts receivable.

OFFICERS' LOCATION LIST

(as of February 1994)

The following information was provided courtesy of DPIS and D Arty

MGen JA MacInnis, UNPROFOR

BGen JHLC Achambault, ACOS LOGMAN HQ AFCENT
Brunssum

BGen EB Beno, Comd SSF, CFB Petawawa

BGen DA Dallaire, UNAMIR

BGen BE Stephenson, Comd CTC Gagetown

Col JLHLP Boucher, Comd CFB Shilo

Col JD Briscoe, Comd CFB Montreal

Col RG Elrick, DGRET

Col TJ Guiler, LFWA HQ

Col KC Hague, CFB Gagetown

Col MK Jeffery, DGLFD

Col FK Laforge, CFA Rome

Col BTN McGrath, CFA Kuala Lumpur

Col CJ Mialkowski, DGRD OPS

Col JE Miller, CFA Ankara

Col LTB Mintz, Perm Rep CDA

Col DS Moreside, CFA Islamabad

Col GJ Oehring, C HQ E UNPRO

Col DL Ross, NDC

Col TAH Sparling, DG Pol Play

Col JG Trepanier, NDHQ/AU

LCol J Arp, DGPCO

LCol HM Auger, CFLS Ottawa

LCol JGJC Barabe, VCDS

LCol JMN Bernier, LFQA HQ

LCol FB Brake, AB Dist HQ

LCol LA Branum, LFC AC LN Det

LCol JEF Bryce, DGLFD

LCol MD Capstick, LFC HQ

LCol DM Chupick, 2 RCHA

LCol NH Connolly, CFA Moscow

LCol JBA Couture, CDS J3

LCol PD Crosman, University of Calgary

LCol JP Culligan, RMC

LCol RC Curry, RCA Battle School

LCol JA Davidson, C HQ E UNPRO

LCol WJ Douglas, DGFD

LCol JH Duhamel, CCDS

LCol JJG Fleury, 5 RALC

LCol JJ Fraser, LFAA HQ

LCol WF Gee, CFB Shilo

LCol SJ Gillies, 2 Quebec D.S.

LCol DM Grant, SHAPE Staff

LCol EC Hague, DGMU

LCol BA Hamilton, DGPCO

LCol YJ Hidioglou, CTCHQ

LCol DR Hopper, DGLFD

LCol R Hoyland, COS J3

LCol WR Johnston, DGFD

LCol SJ Joudry, C HQ E UNPRO

LCol JB Knapp, DGPE

LCol PJ Kramers, CLFCSC

LCol JDL Krauter, DGLFD

LCol RG Kyle, Ex Duty UK

LCol JCR Lacroix, LFWAHQ

LCol DJ Leclair, CDLS(W)

LCol JMR Lemieux, DGRET

LCol AB Leslie, 1 RCHA

LCol JE MacBride, DGLFD

LCol BW MacLeod, Fd Arty School

LCol DD Marshall, CFB Petawawa

LCol DN McLaughlin, DGLFD

LCol MB Morrison, LFAA HQ

LCol HP Mundell, RII Proj

LCol PV Nielsen, COS J3

LCol DE Peterson, CTCHQ

LCol JM Petryk, 26 Fd Regt Brandon

LCol DW Read, CFCSC

LCol JGA Richard, CMR

LCol BS Saunders, Ex Duty UK

LCol DG Schott, NDHQ/AU

LCol JJ Selbie, AD Arty School

LCol RJM Selman, 1 Cdn Div HQ

LCol RC Stowell, CLFCSC

LCol JER Tattersall, DGPC

LCol JGG Tremblay, 62 Fd Regt

LCol GM Walker, DGMU

LCol RS Wilson, CFB Chilliwack

Maj LA Araujo, DGLFD

Maj MB Armstrong, LFCHQ

Maj MA Beare, DGFD

Maj SA Beare, 2 RCHA

Maj JJGP Beausejour, 5 RALC

Maj JCL Boily, RSS (Eastern)

Maj JGS Boissoneault, CFB Valcartier

Maj MF Bonnet, DREV

Maj AB Bowles, DGOR

Maj JNJC Brault, CFCSC

Maj TE Brewster, CFRC Regina

Maj PE Brown, LFC HQ

Maj W Brynkus, DGOL

Maj RHM Burnford, DGLFD

Maj EG Campbell, Fd Arty School

Maj PER Cantin, LFC HQ

Maj SS Carr

Maj JP Chartres, DGFD

Maj DG Clarke, 1 AD Regt (LBR)

Maj DT Cook, CFLS Ottawa

Maj JYR Cote, DREV

Maj KR Cotten, 2 RCHA

Maj CL Cotter, CDS

Maj JDE Crosman, Ex Duty UK

Maj GF Dame, LFQA HQ

Maj GWK Davis, Ex Duty UK

Maj RG Davis, CDLS(W)

Maj SM Davis, DGPCO

Maj JB Dick, CDLS(W)

Maj JA Dorman, DGLFD

Maj BW Douglas, DGE

Maj JS Doyle, 1 FD Regt

Maj JRG Dupre, CFB Gagetown

Maj DA Elrick, DGLFD

Maj W Filonik, CFB Trenton

Maj EW Gagnon, DGFD
 Maj GA Gallop, CFRC Saint John
 Maj JDE Gates, CFRC Det Saskatoon
 Maj JJB Gauthier, Cdn ELM UNTS
 Maj WR Gemmell, DGLFD
 Maj TD Gerow, CFSS
 Maj JP Girard, DGLFD
 Maj LE Glover, DGOR
 Maj JA Gosbee, 1 RCHA
 Maj JMV Grossinger, LFC HQ
 Maj RD Gunn, DGLFD
 Maj KF Haeck, Fd Arty School
 Maj RW Hamsey, CFB Petawawa
 Maj PG Harbert, COS J3
 Maj DG Hartnett, 1 Cdn Div HQ
 Maj JGA Harvey, CFSS
 Maj BC Hawkins, DGLFD
 Maj PJ Heenan, 1 RCHA
 Maj MD Hodgson, DSSC-NDIA
 Maj RP Hodgson, 1 Cdn Div HQ
 Maj AJ Howard, 1 RCHA
 Maj TT Itani, LDHQ/AU
 Maj RG Jarrett, AD Arty School
 Maj JRS Jean, 5 RALC
 Maj GL Johnson, CFLO Estb
 Maj SP Johnston, CFB Shilo
 Maj JAFJ Juneau, DGLFD
 Maj PE Kearney, CFCSC
 Maj KT Keffer, CTCHQ
 Maj CR Kilford, 16 AD Regt
 Maj HA Kochanski, 2 RCHA
 Maj JGJ Lang, Cadets Quebec
 Maj JLM Laporte, 2 RCHA
 Maj CWJ Larocque, Sask Dist HQ
 Maj DM Last, 1 LFCHQ
 Maj JLCM Lavallee, CFCSC
 Maj JAM Lavoie, 58 AD Bty 6 Regt
 Maj GR Lawrence, Stanrep Australia
 Maj PR Learmonth, CFB Shilo
 Maj WT Lelievre, 1 Cdn Div HQ
 Maj JAA Lemieux, LFQA HQ
 Maj GF Liddy, 4 ATAF HQ Staff
 Maj DA Lockridge, DGLEM
 Maj JEJ Lord, 5 RALC
 Maj RS Lott, 2 RCHA
 Maj JC MacVicar, COS J3
 Maj LR Mader, DGLFD
 Maj JCL Magnan, CFSU(E)
 Maj RH Matheson, CFCSC
 Maj GJ McAlpine, DGLFD
 Maj AD McIntosh, LFCA HQ
 Maj JA McKay, DISOA
 Maj MC McKean, DGLFD
 Maj JB McNair, 1 RCHA
 Maj WD McRobbie, Cdn Del NAC
 Maj TW Melnyk, COS J3
 Maj IA Miezzitis, DGLFD
 Maj RM Miller, CEHQ Minurso
 Maj DCD Milne, DGFD
 Maj TD Mooney, CFLO Estb
 Maj JW Mortlock, C HQ E UNPRO
 Maj JLMA Mouton, 5 RALC
 Maj MG Mussolum, LFQA HQ

Maj MH Neale, CFCSC
 Maj SL Nickerson, DGLFD
 Maj JJJ Pellan, DGLFD
 Maj JGAJ Poirier, LFC HQ
 Maj RR Poirier, CDLS(L)
 Maj TR Pond, LFAA HQ
 Maj CJ Ross, 1 RCHA
 Maj TP Ross, RCA Battle School
 Maj JA Roszell, Hamilton CAS
 Maj JCA Sawicki, 1 RCHA
 Maj RA Schell, DGLFD
 Maj GD Scott, 1 Cdn Div HQ
 Maj WM Shellnutt, DGPCOR
 Maj LB Sherrard, CLFCSC
 Maj HN Simister, Fd Arty School
 Maj CG Simonds, CFB Toronto
 Maj JC Stewart, C HQ E UNPROFOR
 Maj JC Stone, LFCA HQ
 Maj SB Strachan, AD Arty School
 Maj DA Strilchuk, CCONUMOS
 Maj DH Summerhays, FG/CANR HQ
 Maj SM Tolson, DGLFD
 Maj BW Travis, University of New Brunswick
 Maj JMR Tremblay, 119 AD Bty
 Maj KG Troup, DGLFD
 Maj JGPP Vandoesburg, LFC HQ
 Maj CR Voss, Fd Arty School
 Maj WR Watling, LFAA HQ
 Maj AM Weatherbee, CFB Shilo
 Maj WD Welykholowa, CFLO Estb
 Maj Wiley DS, DGLFD
 Maj Willis JW, CLFCSC
 Maj Wilson AJ, C HQ E UNPROFOR
 Maj Winter MJ, CFNA HQ Det

Capt DA Aaltonen, DG PC
 Capt OC Amberley, 5 RALC
 Capt IW Anderson, DG PCOR
 Capt JE Argue, RCA Battle School
 Capt BN Armstrong, CFB Shilo
 Capt WD Armstrong, LFC HQ
 Capt DB Arndt, 1 AD Regt (L & R SCOTS)
 Capt V Arslanian, CTCHQ
 Capt FM Aubin, Ex Duty USA
 Capt MT Aucoin, 11 Fd Regt
 Capt JAY Audet, AD Arty School
 Capt MG Audette, CFOCS
 Capt CW Bablitz, DGMU
 Capt JA Bachynsky, 1 RCHA
 Capt BP Baker, 119 AD Bty
 Capt TW Baker, Fd Arty School
 Capt PR Baldwin, HQ Nfld Mil
 Capt JGA Barbier, Fd Arty School
 Capt JECF Beauchamp, 58 AD Bty 6 Regt
 Capt JAM Beauchemin, DGPP
 Capt JLC Belanger, CFRS Saint-Jean
 Capt SR Beler, 2 RCHA
 Capt RP Belway, PMO LLAD
 Capt JGLR Benay, CFALL
 Capt TJ Billings, 1 RCHA
 Capt TJ Bishop, Fd Arty School
 Capt JGJB Blais, AD Arty School
 Capt SJ Boston, 1 RCHA

Capt JMD Bouchard, Ex Duty USA
 Capt JCD Boudreau, Cadets Montreal
 Capt RJ Bower, 1 RCHA
 Capt GN Brown, Marpac HQ
 Capt JE Bruce, CFRC Det Winnipeg
 Capt JEPP Bruneau, 58 Fd Bty, 6 Regt
 Capt CA Bryson, 18 AD Regt
 Capt DC Buchanan, 2 RCHA
 Capt KG Bullock, Fd Arty School
 Capt PJ Butler, AD Arty School
 Capt PJ Caines, 119 AD Bty
 Capt MTA Calnan, CEHQ Minurso
 Capt JAC Cantin, LFC HQ
 Capt SE Carragnes, Fd Arty School
 Capt JMF Casault, Fd Arty School
 Capt RK Chamberlain, LFC HQ
 Capt AB Chaplin, RCA Battle School
 Capt BJ Chapman, AD Arty School
 Capt L Chubbs, RCA Battle School
 Capt L Chubbs, CFRC Montreal
 Capt RH Clarke, AD Arty School
 Capt JCW Cliche, LFC HQ
 Capt CD Comeau, DGRET
 Capt JG Congdon, 1 CB HQ & Sigs
 Capt RW Conrad, DCDS
 Capt LE Cooper, Man-Lake Dis
 Capt SD Cowan, AD Arty School
 Capt PM Crane, DG ADP Svcs
 Capt JG Creelman, 84 Indep Fd
 Capt EK Crowell, 1 RCHA
 Capt LC Dalton, 2 RCHA
 Capt WPR Davis, 49 Fd Regt
 Capt RE Davis, LFAA HQ
 Capt AM Dejacolyn, 2 RCHA
 Capt JDR Deschambault, 5(BC) Fd Regt
 Capt JLGG Desrochers, 5 RALC
 Capt JAC Desrochers, 5 RALC
 Capt RJ Dhur, DGMU
 Capt BF Diilio, CFSU(E)
 Capt FLJP Dorris, AD Arty School
 Capt H Downing, 15 Fd Regt
 Capt KP Doyle, LFCA HQ
 Capt MJ Draho, 1 RCHA
 Capt KF Duff, CCUNIKOM
 Capt JMAL Dufour, DGPCO
 Capt M Duguay, 18 AD Regt
 Capt RP Dunne, LFWA HQ
 Capt JGF Duplessis, BFC St Jean
 Capt RW Dupuis, Fd Arty School
 Capt JRN Durette, 5 RALC
 Capt NRR Dykes, AD Arty School
 Capt ND Earnshaw, 2 RCHA
 Capt RD Embree, 119 AD Bty
 Capt KL Evoy, CFEME
 Capt RN Farrell, 2 RCHA
 Capt JLB Faucher, 5 RALC
 Capt JP Fenske, LFAA HQ
 Capt JR Fisher, CB HQ & Sigs
 Capt K Fitzgeralds, AD Arty School
 Capt TG Folkersen, 18 AD Regt
 Capt PW Forsberg, DGLFD
 Capt JPM Fortier, 5 RALC
 Capt JE Fortoloczky, 1 RCHA

Capt TM Fowler, 2 RCHA
 Capt JL Frenette, CFOCS
 Capt SM Fritzmilliet, 1 Cdn Div HQ
 Capt JAS Gagne, 5 RALC
 Capt SF Gallagher, 30 Fd Regt
 Capt SM Gallagher, 2 RCHA
 Capt BI Gallant, CFB Montreal
 Capt PC Gallinger, CTCHQ
 Capt JJG Garant, Fd Arty School
 Capt GM Gardner, 2 RCHA
 Capt BA Gauvin, 1 RCHA
 Capt MWJ George, DG Int
 Capt MP Gilewicz, Cdn ELM UNTS
 Capt GD Gillis, 1 Fd Arty School
 Capt MG Godefroy, AD Arty School
 Capt JJ Goetz, 2 RCHA
 Capt JM Greengrass, CFSU(E)
 Capt JJGR Grondin, Fd Arty School
 Capt NJ Grout, 119 AD Bty
 Capt DJ Gutscher, 1 RCHA
 Capt KR Habing, CFB Chatham
 Capt MJA Hache, AD Arty School
 Capt JE Hamelin, CFTS HQ
 Capt GR Hamilton-Brown, 15 Fd Regt
 Capt JAP Hannan, 62 Fd Regt
 Capt LJ Hammond, CABC
 Capt GJ Hardwick, DGLFD
 Capt RP Haskell, 1 Cdn Div HQ
 Capt GP Hatcher, 1 DGLFD
 Capt LW Herod, R22er Battle School
 Capt SC Hetherington, Fd Arty School
 Capt SL Hewitt, Ex Duty 1 RHA
 Capt JJ Hogan, AD Arty School
 Capt DW Hollin, AB Dist HQ
 Capt DC Holt, 1 Cdn Div HQ
 Capt CA Horeczy, DGLFD
 Capt JEJ Hornell, 1 AD Regt (L & R SCOTS)
 Capt KD Hynes, CFB Shearwater
 Capt TJ Isberg, 20 Fd Regt
 Capt JA Jackson, RCA Battle School
 Capt DG Jenness, CFRC Edmonton
 Capt JDG Jette, 2 RCHA
 Capt DW Johnson, CTCHQ
 Capt SAA Johnson, CFB Montreal
 Capt MB Johnstone, MPIS Proj
 Capt JCP Jourdeuil, LFAA HQ
 Capt AR Kaine, AD Arty School
 Capt LT Kennedy, 1 Fd Regt
 Capt DM Kenny, 1 RCHA
 Capt S Kiropoulos, LFCA HQ
 Capt SR Kitchener, COS J3
 Capt ML Klimaszkewski, CFB Suffield
 Capt CD Knowles, LFWA HQ
 Capt RJ Kokkonen, CFB Toronto
 Capt DM Kromrey, PPCLI Battle School
 Capt JEJD Lacombe, RCA Battle School
 Capt JMA Lafortune, 5 RALC
 Capt JCYF Lafortune, AD Arty School
 Capt JFD Lahaie, 2 Fd Regt
 Capt CS Landry, 56 Fd Regt
 Capt TC Lannan, 2 RCHA
 Capt JES Lauriault, LFQA HQ
 Capt JR Lavoie, 5 RALC

Capt JGS Lebel, 128 Bty Chatham
 Capt JDA Leblanc, 1 AD Bty Regt (L&R)
 Capt LJ Leblanc, 5 RALC
 Capt RGB Leblanc, 3 Fd Regt
 Capt JGP Lefebvre, 5 RALC
 Capt JGA Lepage, CFOCS
 Capt JPF Lepine, DGMU
 Capt JJR Lesperance, DGLEM
 Capt JBG Lessard, Fd Arty School
 Capt TW Levatte, 1 RCHA
 Capt PA Light, LFAA HQ
 Capt WK Little, CDLS(L)
 Capt MQ Locke, 3 Fd Regt
 Capt DL Lynk, 2 RCHA
 Capt RW MacDiarmid, CFB Gagetown
 Capt DL MacDonald, AD Arty School
 Capt MA MacDonald, CFLS Ottawa
 Capt RP MacEachern, 116 Indep Fd
 Capt KD MacKay, 2 RCHA
 Capt HGM MacLachlan, Fd Arty School
 Capt DH MacLeod, Fd Arty School
 Capt DG MacPherson, BC Dist HQ
 Capt GR Manson, ULO WA
 Capt BJE Marbach, 1 Fd Regt
 Capt AJ Marsh, CFB Winnipeg
 Capt AM Marston, DGLFD
 Capt BR Martin, 1 RCHA
 Capt DWP Martin, 11 Fd Regt
 Capt JHR Martin, CFNBSC
 Capt JAP Masse, RSS Quebec Dist
 Capt SD McBean, 119 AD Bty
 Capt DA McCuish, LFCA HQ
 Capt JR McCullough, 2 RCHA
 Capt JRM McNicoll, 5 RALC
 Capt BWG McPherson, Fd Arty School
 Capt JAYR Mercier, 62 Fd Rear
 Capt KAR Michaud, 567 Fd Regt
 Capt WS Molaski, RMC
 Capt TR Moore, 2 RCHA
 Capt DJF Morgan, DGLFD
 Capt JD Morgan, DGLFD
 Capt SW Morrison, FD Arty School
 Capt CDJ Munkittrick, CFB Cornwall
 Capt MF Murphy, AD Arty School
 Capt DC Nauss, CFB Petawawa
 Capt DA Neill, LFC HQ
 Capt MD Neville, CABC
 Capt AM Norris, LFCA HQ
 Capt DJ Norris, 2 RCHA
 Capt RJ Norris, CFRC Halifax
 Capt MF Notaro, AD Arty School
 Capt JP O'Brien, CFCSC
 Capt SD O'Leary, Fd Arty School
 Capt JMR Ouellette, Marland HQ
 Capt JPE Ouellette, SSF HQ & Sigs Sqn
 Capt JR Paquet, AD Arty School
 Capt JGAR Paquette, HQ Nfld Mil
 Capt RM Paus, Fd Arty School
 Capt JP Payne, 7 Tor Regt R
 Capt JA Pedneault, LFQA HQ
 Capt DDW Pentland, Sask Dist HQ
 Capt MJ Perego, Fd Arty School
 Capt JPM Perreault, CFRC Quebec

Capt RD Peters, CFB Shilo
 Capt BT Pickard, DGLED
 Capt RF Pierce, 30 Fd Regt
 Capt JLL Pinsonneault, LFC HQ
 Capt JAMG Plante, Fd Arty School
 Capt AG Plater, 5 RALC
 Capt LB Plemel, CFRC Calgary
 Capt JM Plourde, 5 RALC
 Capt GW Poehlmann, SSF HQ & Sigs
 Capt SJ Pollock, 1 RCHA
 Capt JG Pospolita, 1 RCHA
 Capt BS Poulin, CDLS(W)
 Capt PDD Preaux, Fd Arty School
 Capt PJC Pressoire, 58 AD Bty B
 Capt AE Proctor, 1 RCHA
 Capt CA Proulx, 26 Fd Regt
 Capt JJSB Proulx, 119 AD Bty
 Capt JP Pulchny, LFAA HQ
 Capt DMA Quesnelle, DISOA
 Capt DA Reckord, AD Arty School
 Capt JGDG Rheault, CMR
 Capt PE Ridyard, Fd Arty School
 Capt DO Rintjema, 15 Fd Regt
 Capt BE Ritchie, 30 Fd Regt
 Capt RG Robinson, AD Arty School
 Capt PV Romeo, AD Arty School
 Capt MN Rouleau, DGLFD
 Capt RC Roy, DGPCOR
 Capt RJ Roy, LFC HQ
 Capt DA Russell, RCA Battle School
 Capt RM Saunders, 10 Fd Regt
 Capt JJ Schamehorn, 119 AD Bty
 Capt DE Schmidt, 2 RCHA
 Capt DC Scholtz, LFWAHQ
 Capt PA Sedge, DGLFD
 Capt GMF Segard, 5 RALC
 Capt LW Seymour, AD Arty School
 Capt DW Shand, 1 RCHA
 Capt LA Shrum, 119 AD Bty
 Capt SW Smoley, 1 RCHA
 Capt RL Spencer, 1 Cdn Div HQ
 Capt ME Stacey, C HQE UNPROFOR
 Capt JE St Dennis, 1 RCHA
 Capt DG Steele, 5 RALC
 Capt JJ St Laurent, CFTDC
 Capt JAC St Pierre, Ex Duty Europe
 Capt JLAP St Pierre, 5 RALC
 Capt JVJG St Pierre, 5 CBG HQ & Sigs
 Capt MJC Sullivan, 1 RCHA
 Capt KD Sutherland, AD Arty School
 Capt WE Tait, COS J3
 Capt AM Tamburco, 2 Fd Regt
 Capt JLJ Theberge, DGLFD
 Capt SD Thompson, 7 Tor Regt RCA
 Capt JJS Tousignant, CMR
 Capt MA Trask, CCONUMOS
 Capt JGE Tremblay, 5 CBG HQ & Sigs
 Capt JJF Tremblay, 6 Fd Regt
 Capt JRN Turgeon, CFLS Saint-Jean
 Capt SH Usborne, Fd Arty School
 Capt SDJ Vahey, 1 RCHA
 Capt PA Voyer, RCA Battle School
 Capt AF Walsh, Fd Arty School

Capt JR Watts, 1 RCHA
 Capt WP Wellsman, 1 Cdn Div HQ
 Capt GG White, 49 Fd Regt
 Capt DA Whitley, 119 AD Bty
 Capt JR Wild, 1 RCHA
 Capt LM Williams, N Ont Dist HQ
 Capt PJ Williams, 2 RCHA
 Capt JC Willis, 1 Cdn Div HQ
 Capt JC Wilson, DGLFD
 Capt JGJD Wilson, DGLEM
 Capt BV Wiltshire, RCA Btl School
 Capt UJF Wolanski, CCONUMOS
 Capt JR Woodgate, HQ NS Dist
 Capt TR Young, Fd Arty School
 Capt DJ Zaharychuk, DGPCO

Lt JRGP Bernard, 2 RCHA
 Lt LHPS Boucher, 5 RALC
 Lt HA Brown, 1 RCHA
 Lt CDM Byrne, Fd Arty School
 Lt JS Dubois, 5 RALC
 Lt JRV Dufour, 119 AD Bty
 Lt JS Dumas, 5 RALC
 Lt RS Dunn, Fd Arty School
 Lt JSSD Fortin, 5 RALC
 Lt RJ Foss, 119 AD Bty
 Lt R Garon, Fd Arty School
 Lt JMF Giroux, 5 RALC
 Lt SA Hoffman, AirCom HQ Det
 Lt JB Huddleston, 119 AD Bty
 Lt DM Laplante, 5 RALC
 Lt JSPF Lavigne, 5 RALC
 Lt TJ Leigh, 119 AD Bty
 Lt MG Mailloux, 5 RALC
 Lt JJ Mathieu, 2 RCHA
 Lt BN McFarlane, 2 RCHA
 Lt LP McGarry, 1 RCHA
 Lt WG McHattie, 2 RCHA
 Lt RC Moon, 1 RCHA
 Lt JEJC Morel, 5 RALC
 Lt PK Morris, 2 RCHA
 Lt JGE Paquet, 5 RALC
 Lt BA Purcell, 1 RCHA
 Lt TS Scharlach, 1 RCHA
 Lt SC Sloat, 1 RCHA
 Lt JC Snejdar, 119 AD Bty
 Lt KJL Stoker, 1 RCHA
 Lt MD Whiting, 119 AD Bty
 Lt BW Woods, 2 RCHA
 Lt DG Zegarac, Cdn AB Regt
 SLt JSPF Lavine, Fd Arty School

2Lt JC Besner, Fd Arty School
 2Lt DR Bobbitt, Fd Arty School
 2Lt JAM Brazeau, Fd Arty School
 2Lt JSM Cloutier, CFALL
 2Lt CF Crosbie, 2 RCHA
 2Lt GC Davidson, 119 AD Bty
 2Lt VA Dewall, Fd Arty School
 2Lt MLT Ducharme, 1 RCHA
 2Lt DA Green, AD Arty School
 2Lt RG Hart, 1 RCHA
 2Lt CH Jones, Fd Arty School

2Lt MA Leach, 1 RCHA
 2Lt JA Legere, 1 Cdn Div HQ
 2Lt JGS Lemieux, CFB Gagetown
 2Lt DK Littleton, 2 RCHA
 2Lt DR McNeil, CFB Gagetown
 2Lt JARJ Mercier, Fd Arty School
 2Lt MD Mitchell, CFB Shilo
 2Lt DW Morrell, 2 RCHA
 2Lt NWP Ng, 2 RCHA
 2Lt JAR Otis, 5 RALC
 2Lt WK Peeler, Fd Arty School
 2Lt RC Smid, Fd Arty School
 2Lt MJ Snook, Fd Arty School
 2Lt JLPJ Theriault, 119 AD Bty
 2Lt JGS Tremblay, CFB Valcartier

OCdt JE Allen, CMR
 OCdt CA Austin, RMC
 OCdt JJF Azizbeaulie, CMR
 OCdt MJ Bater, RMC
 OCdt CR Beaver, RMC
 OCdt BJ Bedard, RRMCM
 OCdt AJV Belzile, CMR
 OCdt BF Boucher, CMR
 OCdt JL Brazeau, CMR
 OCdt SC Dawson, RRMCM
 OCdt RK Doiron, CMR
 OCdt ME Drummond, CMR
 OCdt JA Harding, RMC
 OCdt JD Held, RMC
 OCdt DK Higgins, RRMCM
 OCdt GW Ivey, RMC
 OCdt TJ Kennedy, RRMCM
 OCdt JPP Lajoie, CMR
 OCdt MNI Langlois, RRMCM
 OCdt OP Matsalla, RMC
 OCdt TL Maxwell, RRMCM
 OCdt WD McCarthy, RMC
 OCdt MD Mersereau, RMC
 OCdt DA O'Byrne, RMC
 OCdt JGA Picard, 5 RALC
 OCdt MA Robertson, RMC
 OCdt CS Rowe, RMC
 OCdt DJ Roy, CFTS HQ
 OCdt SW Taylor, CMR
 OCdt VJ Vanderveen, RMC
 OCdt RJ Warren, RRMCM
 OCdt MP Whelehan, RRMCM
 OCdt CV White, RMC

WARRANT OFFICERS AND SERGEANTS' LOCATION LIST

(as of February 1994)

CWO JCR Bernier, PETE Detachment, Valcartier
CWO PD Conrad, Combat Training Centre HQ
CWO JP Dero, Proof and Experimental Test
CWO JMV Dumont, 5 RALC
CWO DH Ferretti, Exchange Duties USA
CWO AJ Furber, CFB Shilo
CWO WH MacLean, DRES
CWO JAA Maillet, LFCHQ
CWO GJ Morris, LFAA HQ
CWO WW Noseworthy, CFB Shilo
CWO LP O'Donnell, CFB Shilo
CWO DD Paul, Dir DGMU
CWO GN Raymond, SSF HQ & Sig Sqn
CWO JAS Raymond, PETE
CWO CR Skinner, DGLFD
CWO DL Tomaso, 2 RCHA
CWO JGG Tremblay, DREV
CWO JBN Trepanier, AD Artillery School
CWO IJ Tripp, RMC
CWO ND Walker, 1 RCHA
CWO RK Walker, Fd Artillery School
CWO NJ Zacharuk, DGPCOR

MWO TJ Badour, AD Artillery School
MWO WR Byers, 1 RCHA
MWO RD Byrne, 2 RCHA
MWO WA Campbell, DGLFD
MWO R Caron, 6e RAC
MWO AA Critchley, 18th AD Regt, RCA
MWO DM Dearman, CFB Shilo
MWO JHR Desmeules, CPLS St Jean
MWO JFC Desrosiers, 5 RALC
MWO EB Dwyer, Fd Artillery School
MWO JMYN Fournier, 5 RALC
MWO RJE Gingras, AD Artillery School
MWO LR Goodfellow, 1 RCHA
MWO JAD Goulet, 5 RALC
MWO RC Greenwood, Fd Artillery School
MWO RL Hawkins, AD Artillery School
MWO JE Hobson, Land Force Command HQ
MWO JJ Hunt, CFB Petawawa
MWO JG Jordan, 119 AD Bty
MWO JVA Labrie, 119 AD Bty, RCA
MWO RAB Landrigan, 1 RCHA
MWO TH Lee, 119 AD Bty, RCA
MWO JCCR Levesque, DREV
MWO RJ Lonz, 119 AD Bty, RCA
MWO CR Lynch, CFB Chatham
MWO BE MacGillivray, 2 RCHA
MWO ML McDonald, Fd Artillery School
MWO MR McEwan, CFB Winnipeg
MWO DJJ Meehan, 1 RCHA
MWO JR Melanson, DGLEM
MWO JAC Michaud, AD Artillery School
MWO EB Mills, RMC
MWO RT Montague, R22er Battle School
MWO AC Moores, CFB Cornwallis
MWO JRG Moretti, Fd Artillery School
MWO SP Moyles, 2 RCHA

MWO CL Nickerson, 119 AD Bty
MWO CV Norris, 2 RCHA
MWO RLJ Oliver, RCA Battle School
MWO JGAC Ostiguy, 58 AD Bty, 6 Rgt
MWO JR Payette, LFAA HQ
MWO BW Peers, 1 RCHA
MWO JMR Poulin, DREV
MWO JMF Provencher, CFRS St Jean
MWO HA Randell, 128 AD Bty
MWO JAJ Rheaume, 5 RALC
MWO DH Robinson, 5 RALC
MWO WK Rogers, Armour Battle School
MWO JP Sandul, 1 RCHA
MWO JMA Schink, RCA Battle School
MWO GJ Schmidt, 119 AD Bty, RCA
MWO RH Sheaves, CF Northern Area HQ
MWO WC Tattersall, CFB Shilo
MWO EM Toll, 1 RCHA
MWO EA Watts, R22er Battle School
MWO F White, AD Artillery School
MWO PJ White, 2 RCHA
MWO AR Wilkins, 78 Fd Bty, 20 Regt
MWO WJ Williams, DGOR
MWO BS Wright, 56th Fd Regt RCA
MWO WE Young, 1 AD Regt (L & R Scots)

WO JW Alden, R22er Battle School
WO L Andreola, Fd Artillery School
WO AC Andrews, Fd Artillery School
WO R Andrews, 1 RCHA
WO MR Angus, Fd Artillery School
WO AJ Auchterlonie, 119 AD Bty, RCA
WO RM Ayers, 2 RCHA
WO CJ Barth, Fd Artillery School
WO WC Basker, Fd Artillery School
WO DA Batten, Man/Lakehead Mil Dist HQ
WO EW Beal, AD Artillery School
WO GE Bedore, 128 AD Bty
WO JR Benoit, 1 RCHA
WO GE Billard, 1 RCHA
WO RD Bissonnette, AD Artillery School
WO JJA Boivin, 5 RALC
WO JHC Boucher, 2nd Fd Regt RCA
WO SG Brydges, Marcom HQ Dist
WO GC Budd, LFAA HQ
WO BP Budd, CF Trg Development Centre
WO HR Bureau, CFB Ottawa
WO BF Burke, 2 RCHA
WO SJ Bylow, 2 RCHA
WO JJR Calille, 2nd Fd Regt RCA
WO JPY Carier, RCA Battle School
WO JEB Carrier, 2nd Fd Regt RCA
WO DC Carson, 2 RCHA
WO TP Cartmell, AD Artillery School
WO ME Chartrand, 128 AD Bty
WO RG Clark, CF Language School Borden
WO RR Collins, 84th Indep Fd Battery (RCA)
WO CD Comars, 1 RCHA
WO JSB Corbeil, Fd Artillery School

WO RW Corrigan, Land Force Central Area HQ
 WO JCD Coulombe, AD Artillery School
 WO JCG Courtemanche, 62e RAC
 WO JYC Courtemanche, 62e RAC
 WO WE Cox, CFB Shilo
 WO AJ Critchley, CFB Shearwater
 WO JRA Cusson, AD Artillery School
 WO RG Davis, Fd Artillery School
 WO JJE Degready, AD Artillery School
 WO LJMJ Demers, 5 RALC
 WO MG Deruelle, 2 RCHA
 WO MS Deslauriers, AD Artillery School
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 WO JCB Villeneuve, 1 RCHA
 WO WA Warren, 116th Indep Fd Bty RCA
 WO TN Watters, Fd Artillery School
 WO KE Webster, Cdn AB Regt
 WO GR Westcott, Fd Artillery School
 WO GM Wojnarski, 1 RCHA
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 WO TE Woods, AD Artillery School
 WO RR Wynn, 30 Fd Regt

WO RP Yetman, 11th Fd Regt RCA

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Sgt JHJ Beaulieu, 5 RALC
Sgt SB Bell, 1 RCHA
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Sgt JF Desroches, 1 RCHA
Sgt AI Dewar, 18th AD Regt RCA
Sgt JGR Deziel, 5 RALC
Sgt GP Dionne, CFB Petawawa

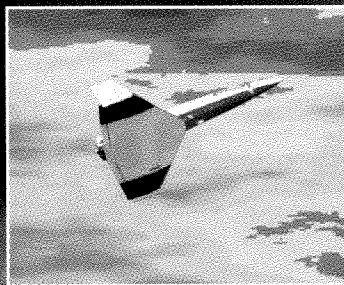
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Sgt AD Lancaster, 2 RCHA

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 Sgt GA Williamson, 2 RCHA
 Sgt GJ Wittebolle, 18th AD Regt RCA
 Sgt RF Woods, Fd Artillery School
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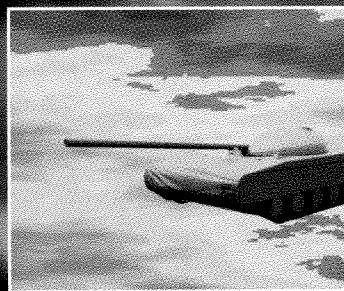
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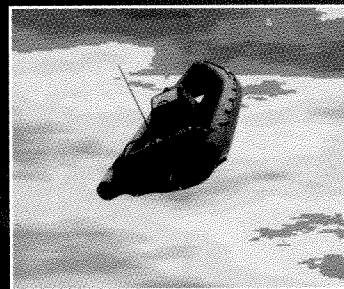
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