



COMMUNICATIONS AND ELECTRONICS BRANCH

NEWSLETTER

VOLUME 60 › WINTER 2014 › FRANÇAIS AU VERSO



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110TH
ANNIVERSARY
CELEBRATION



National
Défence

Défence
nationale

Canada



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About the C&E Newsletter

The aim of the Newsletter is to present practical Communications and Electronics articles, provide a forum where topics of interest concerning Branch matters can be presented and discussed, and foster esprit de corps. The Communications and Electronics Newsletter is an authorised, unofficial publication of the Communications and Electronics Branch of the Canadian Forces. It is published semi-annually. Views expressed are those of the writers and do not necessarily reflect official Branch opinion or policy.

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How to Submit an Article or Pictures

CONTRIBUTIONS, SUGGESTIONS, and CRITICISMS are encouraged. They must be submitted in an electronic format and include a title, name, unit, position and phone number of the author.

TEXT: Submit your text in an electronic format using the departmental standard software product (MS Word). All articles are to be a maximum length of 700 words unless the article is to be considered as the feature article. There will only be one feature article per edition. The feature article will be selected by the Editor-in-chief.

PICTURES: Imageries of all sorts are worth a thousand words, so do not hesitate to use them. We are particularly fond of photos. Please ensure they have an appropriate caption. Electronic photos must have a 300 DPI resolution and must be in a jpg format.

Next Newsletter Deadline: **15 May 2014**

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Note: Our newsletter is also published on the C&E Web Site:

INTERNET: <http://www.commelec.forces.gc.ca/>

INTRANET: <http://commelec.mil.ca/>

FACEBOOK: <https://www.facebook.com/pages/Communications-and-Electronics-Branch/269435966469687>

How to win \$150 (Clement Military Writing Award)

The Branch has set aside a total of \$600 per year for the winners. This \$600 is divided into four prizes of \$150 each. To be eligible to win this award, participants must have been donating to the C&E Branch Fund for at least a year. There are two categories; one officer and one NCM for each issue and there are two issues per year. Along with the financial award, the new "Clement Military Writing Award Certificate" signed by the C & E Branch Adviser will be presented to each winner. To submit your article, please follow the guidelines:

Topic: The articles can be from any topic you choose, such as; the role of electronic warfare on the battlefield, the need for on-time communications in the modern battle arena and so on... or it can also be from your workplace. Who knows your workplace better than yourselves? Tell the members of the C & E Branch what you do for a living, with the trials and tribulations that go on in your daily life. Just because you know what you are doing, it doesn't mean that the rest of us do, put it in writing, enclose a picture, and let us know. Make sure you include a title, name, unit position and phone number.

Due date: 15 May 2014 // Format: Word document Length: Maximum of 700 words // Picture: jpg file (please send a caption as well) // Submission:

By e-mail to +DGIMT C&E Branch@ADM(IM) C&E Branch@Ottawa-Hull

Branch Leader

MESSAGE

2⁴ OCTOBER 2013 MARKED THE 110th Anniversary of the order that established the Canadian Signalling Corps (Militia) — the first in the Commonwealth — and the realization of the vision and foresight of Major Bruce Carruthers, a combat veteran and war hero. His wartime experience forged a conviction that signalling was a vital part of the army and that it should be a profession unto itself. Although it is unlikely that Major Carruthers could have ever imagined the incredible changes and advances that we have witnessed with communications and information technologies since 1903, his vision is still intact and today's Canadian military communicators are true professionals who are integrated into every facet of the Canadian Forces' operations and readiness, domestically and abroad.

The current Communications and Electronics Branch comprises over 7500 Regular and Reserve Force personnel. As well there are some 3000 dedicated public servants who contribute directly, many of whom having worn the uniform before entering the Public Service. Our personnel are deployed on operations in Afghanistan, the Middle East, Haiti, Africa, and aboard our ships. They are conducting operations on a day to day basis at Canadian Forces Station Leitrim and at other installations. They support and enable operations and training on Bases, Wings and Stations across the country. Members of the Branch are the engineers and technical experts who are delivering new capabilities: from high capacity, global satellite communications; to complex communications and information systems that enable joint and service-specific command, control, intelligence, surveillance and



MGen D.G. Neasmith

reconnaissance capabilities for the Canadian Forces. They wear the uniforms of the Royal Canadian Navy, the Canadian Army and the Royal Canadian Air Force. Some of our very best serve with Canada's Special Forces. The essence of our Branch is in its people and its strength lies in the ability of those people to adapt and overcome the hurdles they may face, often with a good sense of humour and a "we can do that" attitude.

Understanding communications and information technologies coupled with the skills to successfully integrate them into military operations and to support intelligence requirements — by providing, protecting and operating within — is at the core of what military communicators have done throughout our history and will continue to do into the future. Canada's military forces will always need to share and use information — swiftly, through the application of sound knowledge and skills, and with vigilance — regardless of the types of technology and associated application to military operations the future brings. This foundation is represented through our Branch motto "Velox, Versutus, Vigilans".

We were indeed most privileged and honoured that Her Royal Highness, The Princess Royal, Princess Anne joined us during this historic Celebration 2013. I am extremely proud of the work completed by the Home Station Commandant and his staff as well as the OPIs of every event. Her Royal Highness was indeed impressed by the commitment made to make Celebration 2013 the success it was given the financial restraints that were imposed on us. From my perspective, you have all done us proud.

Colonel-Commandant

MESSAGE

AS I WILL BE COMPLETING MY TERM AS your Colonel-Commandant in June 2014 and considering the high rate of Branch activities that I participated in during the past six months, I have to be extremely proud of what we have accomplished together in spite of the challenging financial restrictions imposed on the CAF at large.

I am particularly pleased with the dedication and seriousness demonstrated by the members of the Branch Advisory Committee (BAC) and of the Extended BAC (EBAC) in coming to grips with numerous challenges brought about by many CAF initiatives impacting the Branch and the many projects undertaken concurrently by the Branch especially those related to the celebration of our 110th Anniversary.

Our discussions at the BAC and EBAC have led to the proposal to create a Branch Senate similar to what other Branches have done to coordinate all Branch activities and projects across all Branch stakeholders: regular force, reserve, retired members, related associations and interest groups



BGen J.J.M. Charron (Ret'd)

and possibly our industry partners. This would facilitate all stakeholders synchronizing their vision of the future of the Branch and marching in step towards the accomplishments of common objectives and projects. This proposal was well received by all representatives who attended the inaugural meeting in Kingston on October 26. The Branch leadership is now looking at the possibility of using a remodelling of the C&E Association as the basis for the proposed Branch Senate.

I was also quite pleased to receive my copy of the Branch History book, Semaphore to Satellite after having worked so hard on the Editorial Board along with many others over the past three years. It is a truly outstanding historical document that we can be extremely proud to have on our coffee tables or in our offices. If you have not purchased a copy yet I would encourage you to do so at the earliest.

The highlight of the past six months however, has to be the visit of Her Royal Highness Princess Anne, our Colonel-in-

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Chief to present her Royal Banner, her new Colonel-in-Chief Commendation and launch our history book during our 110th Anniversary celebrations. Escorting her from the time she stepped off the aircraft, throughout her visit of many displays and units on base and her review of the Branch parade, was both an honour and a very pleasant and rewarding task. The feedback I received from her about our Branch members was

"... the proposal to create a Branch Senate similar to what other Branches have done to coordinate all Branch activities and projects across all Branch stakeholders: regular force, reserve, retired members, related associations and interest groups and possibly our industry partners."

very complimentary as she felt our members were very well trained, dedicated and eager to respond to any challenge thrown their way. I would be terribly remiss if I did not recognize the absolutely outstanding work done by all members of the C2013 organizing committee to deliver a first class celebration in spite of the length of time to obtain financial approval, a significantly reduced budget envelope and several last minute but necessary adjustments to plans.

The Museum Expansion project was also another area where I provided some assistance to advance the signing of an MOU between our Museum and the EME Branch in order to allow the EME Branch to use part of this Expansion as an initial footstep of their future Kingston based museum.

In my past articles for the C&E Newsletter, I expressed some concerns about the impact of budget reductions on the quality of life of our members. From what I can observe many months later, this problem is probably getting worse as we hear about further reductions in administrative support and more budget reductions for DND and the CAF but while the Defence Renewal team is

working hard, we have yet to see results from the overall effort to simplify processes and procedures to gain efficiencies. Our Branch leadership also remains challenged in terms of making sure their voice is heard in ensuring adequate representation of our Branch in all areas of C&E responsibility including cyber. Another challenge is to ensure the reintroduction of the royal designation for many elements of the CAF and the reintroduction of the old army rank designations for army officers does not become a divisive factor for our Branch.

I am cognizant that these are difficult and challenging times but we have the leadership, knowledge and intellectual strength and courage to persevere and contribute to a better and stronger C&E Branch and community as long as we remain united in our vision and in our means to fully partake in the CAF mission. A strong indication of this high quality leadership is the fact that the Branch may have up to seven GO/FOs serving in the CAF as of this summer which may be a historical first as well as filling many key CWO. I wish to also take this opportunity to congratulate the recently announced promotions of Martin Girard and Frances Allen to BGen.

Finally, it is also a time to reflect and recognize the twelve years of dedicated and highly professional service by members of our Branch in Afghanistan, and their sacrifices, which will come to an end in 2014 as well as the sacrifices of their families while they were deployed. Well done and happy return home for those who have been in the last rotation!

Let me wish all of you and your families a Happy, Healthy and Prosperous Year in 2014! As I said at the end of 2012, may you also have a winter full of sunshine, crisp snow to enjoy, significant progress towards the Branch strategic objectives, continued successful delivery of C&E capabilities to the CF and hopefully a rewarding Spring break. ■



Branch Advisor

MESSAGE

MILITARY COMMUNICATIONS IN CANADA HAS an inspiring history stretching from the creation of the first Signal Corps in the British Empire on October 24th, 1903, through to modern leading edge operations in space and on the internet. The selection of "Semaphore to Satellite" for the title of our Branch history book and also for the theme of the C2013 (Celebration) events is particularly appropriate.

The Communications & Electronics (C&E) Branch is the successor body of professional military communicators from the former Royal Canadian Corps of Signals, the Royal Canadian Air Force Telecommunications Branch, and the Royal Canadian Navy shore based signals intelligence community. Our 7,500 members are the glue that connects our country and national leadership to Canadian Armed Forces operations spread around the world. As well, our members work 24/7 to preserve sovereignty, particularly in the Arctic and in cyberspace.

Her Royal Highness The Princess Royal (Princess Anne) is the Colonel-in-Chief of the C&E Branch. During C2013, Princess Anne launched the Branch history book, which records some of our wonderful history. If you don't already have a copy, you can buy one at the C&E Museum. I will treasure my copy because it is my story—I am deeply grateful to the numerous volunteers who made this book possible.

As well, Princess Anne honoured our Branch by granting us a



Col S.C. Sibbald

Royal Banner on parade. The banner design is simple, but deeply meaningful: blue like our Cap Badge, a Branch crest in the centre, and her Royal Cipher in the top inner corner. Like the history book, the banner is a powerful symbol of our story and will be our rallying point for generations.

The C&E Branch includes a far broader constituency than just serving members of the Regular and Reserve Forces. It also extends to our retired members, to honorary appointees, to our benefactors, and to others. It is thus fitting that Branch leadership met with a number of associations

during C2013 to discuss governance in general, and specifically re-instating the C&E Association. The new body's membership will be as broad as possible to include a voice from all groups and associations that are connected with Canadian military communications and electronics. The mandate will be to promote the long-term well-being of the C&E Branch, to preserve the health of military communications in the forces and society, and to allow the broader community of stakeholders to brainstorm issues of interest and influence decisions. Like the history book and Banner, I hope that the C&E Association will serve our Branch well in the years and decades to come.

For those who were able to attend Celebration 2013, I hope you enjoyed the pomp and ceremony as much as I did; for the many more who were unable to attend, I encourage you to visit our museum, to see our Banner, to buy and read our book, and to get involved in our C&E Association.

Branch Chief Warrant Officer

MESSAGE

THROUGH THE TIRELESS WORK OF A CANADIAN Officer, his appreciation of the need to have dedicated communicators to pass crucial information on the chaotic battle field and long logistic lines was the start of what brought us together to mark 110 years of Military Communications in Canada. The oldest formed Signals of all the commonwealth countries. The choice of our theme of "Semaphore to Satellite" was very appropriate as it highlights where we have been to current times. Our logo designed by one of our own, symbolizes our theme quite well with a signalman, holding the letter V with semaphore flags on a back drop of a satellite dish plus the RF waves coming from the zero on 110.

Through the very beginnings to today the constant thread has been the people. The signallers of the World Wars and Korea have become a legacy that has been the foundation of our proud heritage. We were so fortunate to have a few of these members participate with us. Canada has a renowned legacy across the world thanks to the Canadian Peace Keepers who have served professionally and with distinction in their service which included the separation of belligerents, providing respite to men, woman and children



CWO M.M. Dinelle

the world over. Our awakening that not all play by rules was brought home to our troops in Bosnia. The evolution of peace keeping including engaging belligerents to keep the peace was common practice during this time. We have learned much from these men and women on the physical and mental toll of being a professional in the CAF. Our participation in Afghanistan has demonstrated that our men and woman of all environments walk in the shadow of no other nation. The experiences in operations of all our members have taught us so much in the full spectrum required of us from war fighting to providing relief and

aid internationally and domestically. Lessons learned by those who spent so much time away from home had helped us in Libya and Mali.

We have a proud history that has confirmed that we as a Branch are adaptable and resilient. Lessons learned also show that we must rely on our ability to continually adapt to change and trust the young professionals to do the heavy lifting in a fluid and dynamic environment. Our future is in good hands as the next generations try to keep up in a fast pace era of changing technologies and topographies. Do not spend too much time looking in the rear view

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Director of the Royal Canadian Corps of Signals

MESSAGE

ROYAL VISIT: CELEBRATION 2013 WAS A resounding success and to those on whose shoulders lay the burden of making this all happen, I offer my most sincere appreciation. It was the best Branch gathering to date.

I would also like to offer a special thanks to MGen Neasmith and Maj Bergeron regarding HRH's acknowledgement of the re-designation of the Royal Canadian Corps of Signals during the Branch Parade. I asked for something more out of sight but with Maj Bergeron's insistence and MGen Neasmith's approval, we were able to acknowledge this historic moment with HRH in front of the Branch.

SUCCESSION BOARDS: All of the Corps selection and succession boards are done. Having read hundreds of PERs from the rank of Sgt up to LCol I was truly struck by the quality of our people. These PERs are written by everybody from Corps members to civilians to other environments and even other nationals. The consistent theme was how determined, resilient and professional our Corps members actually are and from that perspective let me complement you on the excellent work you do and for being recognized as such.

The other message I wish to convey regarding succession is how these boards were conducted. I chaired the LCol's with four other Col's, I also chaired the Post-Tier 4 CWO appointment board with the Corps CWO and four Sigs colonels, my D/D Sigs conducted the majors board with two separate groups (LTSP and STSP of seven LCol's) and our Corps CWO conducted the Tier 4 CWO board. So why all the numbers? It is important to me that all of you see that these boards as open, fair and in compliance with Army direction. I am satisfied that the results do just that.

ACISS UPDATE: There is much activity with respect to the ACISS occupation, however, I'll say up front that there is no update on pay. We have, however, made tremendous strides in better defining the various jobs that together define the IT&E requirements for ACISS. We are also investing considerable effort in writing Comm'd Sp TTPs with a view to better refining the individual training at each rank level and sub-occupation, and also informing collective training. CFSCE is under considerable pressure to finish this work and the folks deserve considerable credit.

OP HUSKY: I'd like to take a moment to thank one of our own, BGen Bill Richard (Ret'd) for taking a leadership role in Op HUSKY this past summer. Op HUSKY 2013 was a commemoration of the landing in Sicily 70 years ago and many regiments and corps came together to retrace the route of the 1st Cdn Division through Sicily. During the symbolic



Col S.W. Hall

march by the Canadian Group last month in Sicily, they planted markers sponsored by their Corps or regiment, each bearing the name of a soldier who died on that date 70 years earlier. Markers were placed where every Cdn soldier (562) was killed and they dedicated a memorial since there was no previous memorial in Sicily that mentioned the Cdn presence in the liberation of the island. There was no Signals involvement in Op HUSKY 2013 and so General Richard took it upon himself to organize sponsorships for markers to be placed for each

of the Signal Corps' dead. To General Richard and all of the sponsors listed below, on behalf of the Royal Canadian Corps of Signals, thank you.

THE SPONSORS WERE AS FOLLOWS:

Col (Ret'd) Jim Holsworth sponsor for:

Brown, Charles George — 12/07/1943

29 Signalman C, F, 334. Agira

BGen (Ret'd) Bill Richard sponsor for:

Devlin, Ralph William — 19/07/1943

23 Corporal D, A, 390. Agira

Col (Ret'd) Jack Thomson sponsor for:

Jinssen, Herman William — 12/07/1943

33 Signalman C, F, 339. Agira

MGen (Ret'd) John Leech sponsor for:

Kroon, Theodorus Senedictus S. H. — 12/07/1943

Sergeant C, F, 333. Agira

Col (Ret'd) Mel McLeod sponsor for:

Quick, Milton Stewart — 12/07/1943

Signalman C, F, 332. Agira

LCol (Ret'd) Bill Cowperthwaite sponsor for:

Quinn, Robert Arthur — 12/07/1943

29 Signalman C, D, 304. Agira

BGen (Ret'd) George Simpson sponsor for:

Simpson, Thomas William — 21/07/1943

Signalman A, C, 46. Agira

LCol (Ret'd) Sylvain Bouffard sponsor for:

Walker, Norman Alan — 18/07/1943

Signalman B, F, 211. Agira

"The consistent theme was how determined, resilient and professional our Corps members actually are and from that perspective let me complement you on the excellent work you do and for being recognized as such."

We should note that 2014 is 70th anniversary of D-Day and 100th anniversary of beginning WWI. I am seeking advice on selecting appropriate events/dates that would honour the men and women of the Signal Corps from these periods.

Royal Canadian Air Force C&E Advisor

MESSAGE

WHAT A SPECTACULAR CELEBRATION 2013 we have had for HRH Princess Anne! And a particularly fine turnout from the ATIS and CELE community! Out front and centre were Maj Jeff Szumlanski (8 ACCS) with MWO Shelly Harris (CFSCE) and the Guard of Honour welcoming the Princess Royal at Battery Park, Kingston. Moving swiftly behind the scenes was the Official Visits Officer, Maj Ben Achim (DIMEI), working closely with his Signals counterparts to ensure that everything ran as smoothly as it did. Other successes during C&E Week included another incredibly successful AFTIM conference led by LCol Eric Charron (1 CAD A6) and an entertaining track discussion from LCol Chris Grandy (DADD) at the Network Operations Symposium.

The spirit of volunteerism is alive and well in the Branch. Enormous thanks go to those who have stepped up to the plate. This fall's AOCCIS course has produced another crop of keen captains, thanks to LCol Patrice Sabourin (DADD), Maj Olivier Montplaisir (CJOC), Maj Anil Sheehan (CFS Leitrim), and Maj Tony Watson (DAEPM(R&CS)). Kudos to those who have volunteered to participate in the upcoming CELE Qualification Standard Working Board: LCol Paul Vadon (D Cyber FD), LCol Chris Grandy (DADD), Maj Dave Brown (19 Wing Comox), Maj Eric Jodoin (D Cyber FD), Maj Tyler Lavigne (ATESS Trenton), Maj Pete Williams (1 CAD A6 Winnipeg), Maj Peter Yip (DIMEI), Capt Vaughan Curnew (DAEPM(R&CS)), Capt Clint Legg (CFSCE), Capt Gillian Turner (9 Wing Gander). The 2014 CELE Basic course should be nicely postured with augmentation of Capt Bernie Leclair



Col S.N. Lew

(DAEPM(R&CS)), Capt Justice Anderson (22 Wing), and Sgt Stephane Thomas (8 ACCS).

The CELE Mentoring programme is well established at the LCol-to-Maj level, thanks to the fine efforts of LCol Pascal Godbout, LCol Nick Torrington Smith, and LCol Darren Harper. We have received very positive comments from Majors that more information is now flowing to them about the branch and the CELE trade. This is especially true for those who do not work for a CELE. We are now working on the Maj-to-Capt level and looking for more Majors to post their biographies on the CELE Mentorship SharePoint site. We need you

to make this program work for the Capts. I know they can hardly wait to get a mentor and get the benefits from the mentorship programme. Your new leads: Maj Dave Brown and Maj Allan Ferriss.

By now, many of you have heard of the resource challenges being faced by CFSCE. Thanks to Maj Rob Snow and the good folks at 2 CAD Winnipeg collaborating with Combat Training Centre HQ Galetown, we have a way ahead for a while. One thing is clear: This is our school; we need to make it work. The RCAF has invested 41 ATIS Techs, four AVS Techs, and nine CELE (Air) officers at this institution — all working for you to produce the future of our Branch. We are pulling our share and we are committed to its success.

A team of fourteen members from ATESS received the prestigious C&E Branch Commendation from MGen Neasmith for their extraordinary efforts in completely revamping QL-5 ATIS training. Congratulations to Capt Cooper, WO Isenor, Sgt Adamson, MCpl Brooks, MCpl Gagnon, MCpl Gosteau, MCpl Bowker, MCpl Calder, MCpl

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Commander Canadian Forces Information Operations Group

MESSAGE

IT HAS BEEN ABOUT A YEAR SINCE THE LAST CFIOG message, and I have been reflecting on the activities of the past year and the challenges of the future.

The men and women of CFIOG, of all ranks and occupations, military and civilian, have continued to provide exceptional 24/7 and surge activities in the EW, Network Defence and Signals Intelligence disciplines, supporting CF operations around the globe. CWO Boislard, the CFIOG Formation CWO, and I have had the distinct pleasure of seeing the outstanding work and dedication of our folks in their established and deployed work environments across Canada and abroad, always receiving incredibly positive feedback from the commanders and supervisors they support. Throughout the year we have also been proud to showcase our mission and talents to a wide range of visitors including the Chief of the Defence Staff, the Australian High Commissioner to Canada, the Deputy Minister and Associate Deputy Minister, the NORAD J2 and J6, the US Cyber Command J3 and the Commander of



Col F.J. Allen

the USN 10th Fleet. I see these visits as important opportunities not only to focus on what we do, but to also get feedback and insight into commanders' broader requirements. This helps to feed and support our change agenda, which seems to always have a next bound.

With respect to the next bound in cyber activities, we have been working closely with the Cyber Force Development staff at Chief of Force Development, to ensure we are best positioning ourselves in the short-term to meet the longer term strategic vision for cyber they are developing for the CAF. Through resources provided by CFD, we have imbedded a cyber savvy team into the Canadian Joint Operations Command (CJOC) operations and planning functions, to consider what activities in the cyber domain should be undertaken to support commanders' needs and intent. The growing importance of the cyber domain as a domain through which military commanders need to be prepared to fight and defend themselves is clear, and this initiative helps to

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Observations From A Former CFSCE Commandant

MESSAGE

WHAT A BUSY YEAR 2013 WAS FOR A GOOD many members of the Branch, in particular for those at the Home Station, with Celebration 2013 on top of the usual C&E Week activities, the visit of our Colonel-in-Chief, JOINTEX (joint exercise), and changes of command parades for both the CFJSR and CFSCE. In spite of all this there was of course the usual “routine business” to attend to, training for and executing operations, planning in the midst of further personnel and resource reductions, and conducting the myriad of typical unit activities from maintenance routines to PT to parades. Indeed, short of the intensity of periods of war, it’s hard to imagine a time over the past 110 years when we would have been busier or more challenged. Meanwhile there have been a number of significant developments lately indicating that we as a community have entered somewhat of a terra incognita and suggesting that we might need to conduct an azimuth check and adjust our course accordingly. Therefore as a recent past commandant of our School and at the focal point of many of our collective issues, I thought I would offer a few thoughts on where we are and what we as a community need to consider as we forge ahead through our second century of service to Canada and the Canadian Armed Forces.

Much has changed while much stays the same, of course. Certainly job number one remains the provision of communications and the enablement of command. However, we now have the novel term “cyber” and variety of perspectives on what it is and what to do with it. Get three of us in a room and you’ll hear four different variations on the former while discussion of the latter tends to escalate rapidly to turf war and pokey chest. Let’s consider for a moment where this fits with the well-used but not well-contextualized expression “CAISR” — what is it, an operational construct, a capability, or a mission set? And yet we still also throw out the familiar terms of CIS (communications and information systems), command support (but only apparently in the Army), and less frequently perhaps, information operations. Some have already begun using novel terminology such as electromagnetic spectrum operations (EMSO) and network operations (NetOps) but these have not yet been officially accepted. Increasingly we are loath to limit ourselves to the vital but more mundane CIS support role and certainly there’s more to what we represent. So where does “cyber” fit in all this mix? The point is we are in a bit of a doctrinal quandary here and the lack of clarity in this regard only makes the professional cohesion we ought to have more tenuous and discordant.

Regardless of the state of our doctrine, the impetus to train persists. Although an assuredly inescapable imposition, the funding and manning pressures we face certainly do stimulate us to think outside the traditional paradigms to seek out innovative ways to pass on to our juniors the ever-expanding body of knowledge we represent. The sacred cows of in-class lecturing are slowly but assuredly succumbing to the cutting edge of computer- and network-enhanced learning capabilities such as offered through virtual task trainers and by the Defence Learning Network. Clearly there’s a revolution in learning going on around us as suggested for example by www.khanacademy.org, www.coursera.org, etc and further stoked



Col W.A. Wood

by the concept of learner-focused learning over our current instructor-centric model. Despite the contemporary zeal to establish sacrosanct “centres of excellence”, in reality we need a more decentralized execution of training guided and informed by a centralized but open-minded guardian of the body of knowledge — who better than CFSCE? — if we hope to achieve the savings we are being compelled to pursue.

Yet at the same time as we are beginning to modernize our training methodology, we are struggling to update our sphere of competencies with ongoing efforts at analysis, redesign, and tailoring of

our MOSs — notably ACISS — and the shaping of computer network operations specialist skills into militarily useable capabilities. Fortunately a dedicated cyber force development team is tackling this latter issue while designated occupation advisors are covering down on their respective, clearly-marked lanes. However we now have to consider the implications of the Shared Services Canada initiative in reducing the hands on management of enterprise networks and as well the increasing tendency for our CIS support core business to be seen as a “logistics” function in light of the ease of contracting services and the prevalence of common networking and interface standards within the global telecommunications industry. This suggests the requirement for a coherent competency framework encompassing all our related occupations that demonstrates rational progression upward in expertise as network systems operators, managers, exploiters, and attackers — indeed, full-spectrum “cyber-warriors” — while accounting for the breadth of possible employment areas in the combined, joint, and inter-agency operational environment where our members will be employed. Isn’t it high time we established a “joint bubba” to develop that model and ensure that higher systems-of-systems level knowledge and skill sets are adequately incorporated in our training? The continued build-out and evolution of CFSCE EM Battle Lab, training NOC, and cyber-range capabilities will go a long way to setting the conditions for and enabling that effort.

The central role of the School in much of the activity thus far alluded to is clear. Unfortunately, as I can personally attest, there has been a significant reduction in funding and in personnel support to CFSCE over the past two years, with the budget less than half of what it was and with an even more deeply felt one third workforce reduction. It is unrealistic if not absurd to expect that in the face of this predicament that the School can be expected to deliver on a much-needed C&E Branch transformation agenda without significant reinforcement or assistance. Of course even without all that, the School needs reinforcement and assistance now just to carry out its core business of training development and delivery.

Taking full account of where we are then means understanding not only the technological realities in our midst, but also the conceptual, educational, organizational, and fiscal. As such it would certainly be easy to become pessimistic about all the apparent challenges. Although surely we can draw on our strengths and exploit opportunities to muddle through as best we can. Alternatively, we can confront the situation head-on by comprehensively reviewing our

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Royal Canadian Corps of Signals Chief Warrant Officer

MESSAGE

HELLO FELLOW BRANCH MEMBERS. I WOULD like to take this opportunity to introduce myself. My name is CWO Don MacIsaac and I am currently the Command CWO for the CF Intelligence Command. In addition, and probably more important to this audience, I was selected the past summer as the Royal Canadian Corps of Signals CWO—an appointment for which I am extremely honoured to hold.

So you may ask yourself, what is the role of the RCCS CWO? I believe I can break this down into two specific areas. First, I am an advisor. I am part of the RCCS Command Team and I report directly to our Director of Signals, Colonel Hall. As a Team, we discuss issues and challenges that are facing the Corp today and into the future. As a team member, the Director expects me to provide him with situational awareness, advice and guidance on the most burning issues from personnel issues, to morale to NCM (non-commissioned member) professional development. Secondly, I am responsible to the Director to ensure an open, fair and transparent Succession Planning process. The Aim of Succession Planning is to find the most suitable person, in the right position, at the right time. It addresses gaps between the current competencies and future needs, enables better organizational capabilities and maximizes the employment of highly skilled leaders and individuals.

During the week 12–15 November 2013, myself and 8 other CWO's with the guidance of the 7 Regional Signals CWO's reviewed nearly 200 files from highly merited WO's to new CWO's to identify those who have the potential to lead the institution at the highest levels.



CWO D. MacIsaac

As guardians of the NCM Corp, we have a responsibility to ensure our personnel have the opportunity, the skills and the training to succeed at these very high levels. I believe our Succession Planning Model is very good and it will continue to evolve in the coming years. Presently the Signal Corp has 6 CWO in Senior and Key Appointments; this represents nearly 10 percent of all positions. This is a result of the work my predecessors started and I wish to build on. I will, in the very near future, distribute the guidelines and criteria for our selections so that our process is transparent as directed.

We have many challenges presently within the Royal Canadian Corp of Signals from specialist pay to training and I cannot promise you any quick and easy solutions, what I will do, is continue to work hard on your behalf and work in the best interest of the Corp. If you have any concerns or complaints with the work that we are doing please feel free to contact the Director of Signals, he is not busy. I on the other hand, will pay dearly for that last comment! All humour aside, please feel free to contact me at donald.macisaac2@forces.gc.ca.

In conclusion, I would like to take this forum to state how proud I was to be a member of the C&E (communications and electronics) Branch during our recent celebrations. I was truly amazed at the professionalism and dedication demonstrated at every event. It was clearly evident to me that we have a proud past, strong presence and an even brighter future. Bravo Zulus to all who made this historic event, truly historic.

Branch Chief Warrant Officer's Message — Continued from page 3

mirror as you might end up off the road.

I would also like to note the real heroes, the ones that make our house a home, the ones who have to be both mom and dad when we spend so much time away. To our children and folks who never do get used to the time away but adapt and are always quick with a hug.

Finally in closing I would like to thank all those who took the

time to mark our 110th Anniversary. From Comox to St. Johns, In Kabul Afghanistan to Yellowknife C&E Members took part in marking a 110 years of Military Communications in Canada. Special thanks to all those who worked hard to organized, participate and make the events at the Home Station a tribute to the men and woman of our Branch. ■

Commander Canadian Forces Information Operations Group Message — Continued from page 5

support that work.

The cyber domain has also been reflected in the recent DGPR (director general personnel report) sponsored 291 Communicator Research Feasibility Report, which looked to re-define the jobs, confirm the structure and adjust the rank-to-rank ratios for the 291 occupation. The review, which originally started in 2006 as part of the MOSART C4ISR study, started and stopped several times, but was finally given the go-ahead in January 2012. What had been upwards of 80 different job descriptions, based largely on equipment types, were reviewed and in the end, reduced by over half to a group of 35 functional descriptions based instead on the nature of the activity. It was assessed that there was need for 3 Rank Qualifications, at the AB/

Pte(T), LS/Cpl and PO2/Sgt levels, and 3 Experience Qualifications for Apprentice Collection Op, Sr Analyst and MS/MCpl Entry level. Rank-to-rank ratios were reviewed and approved and these changes should be reflected in the upcoming Annual Military Occupation Review. More details on this work will continue to be made available through the Implementation Plan and briefings to the 291 community.

In closing, the dedication and hard work of all members of CFIOG never ceases to amaze me. It's also balanced by the generosity of spirit and sense of community that I see, not only during the holidays but everyday, through fund-raisers and donations for charity organizations, the hosting of outings for Rideau Pearly veterans, and contributions to other community projects. Bravo Zulu to all of you! ■

Afghan National Army (ANA) Signal School, Our New Baby Sister School?

CAPTAIN J.D. GUIGNON

AS THE CANADIAN CONTINGENT Training Mission — Afghanistan (CCTM-A) winds down over the next few months, the impact is clear. Over the last four rotations our soldiers and leaders have worked “Shohna ba Shohna” (Shoulder to Shoulder) with our ANA counterparts, training, advising, and mentoring them to become autonomous and self sufficient.

The ANA Signal School is a pillar of mission success, since its inception in November 2010 it has gone from infancy to a self sustaining, autonomous, and highly professional ANA Signal School — the centre of excellence for Signal training. It was originally mandated to provide Signalers for all of the ANA corps — this mandate will be filled by the end of 2013. As of September 2013 the school has already graduated 3632 students: 886 Officers, 513 Bridgmans (NCOs), 1899 Soldiers, and 334 National Military Academy students (their Royal Military College).

As the school completes this mandate it will be re-rolled into the equivalent to our own Signal school, the Canadian Forces

School of Communications and Electronics (CFSCE). Its new goal will be to maintain the corps with qualified signalers and continue to develop advanced courses such as VSAT, fibre, Signals planning, and frequency management to name a few — enhancing the command and control the ANA will require to be a first rate army. The Signals guidance given by the Signals Training Advisory Teams (Sigs TAT) over the last three years brings pride to all who have worked with the school knowing not only have they facilitated the standing up of an outstanding school but have made a long term impact on the school of what it means to be Canadian.

The culmination of this Schools success was marked on 23 September 2013 when it hosted a celebration of mission success at Camp Gazi Kabul, current home of the



Joint celebration at the ANA Signal School (23 Sep 13)

Photo by: CCTM-A Image Tech MCpl Van Putten

School. They opened invitations to all those who had assisted them over the years and were proud to see word spread and had 100% participation from all counterparts. All key leaders in the area of operations attended: CCTM-A Comd MGen Milner, CCTM-A DComd Col Hammond, Sigs TAT Senior Mentor LCol Van-Vianen, Unified Training Advisory Group Comd Gr Capt O'Connor (British), NTM-A J6 Col Hason (American), Integrated Joint Command Comd Col Holt (American), DCOM-A Comd Col Maybery (British), along with countless ANA Generals.

While Sigs TAT started with 44 personnel from various coalition nations first led by Maj Barnes, followed by LCol Laroche then LCol Blais-Parent, we now stand four Canadians under the command of LCol Van-Vianen. It is due to the diligent work of all of our predecessors that we now enjoy mission success and proudly step off to allow the ANA Signals School the natural evolution as our own CFSCE has over the last thirty plus years.



LCol Van-Vianen presentation to Col Haider Photo by: CCTM-A Image Tech MCpl Van Putten

Observations From a Former CFSCE — Continued from page 6

circumstances, taking ownership of our domain (i.e. the EM spectrum and the networks and systems that take advantage of it), and developing a coherent strategy for the Branch as a community of practice and expertise for enabling and conducting the full breadth

of military network operations into the 21st century. Easier said than done for sure, but unquestionably our best option if we want to remain relevant for another 110 years. So now, who's got a little spare time? ■

End of Mentoring at the Afghan Signal School

CWO J.F.S.P. DUPUIS

ASI AM SITTING HERE IN CAMP PHOENIX Kabul, I am reflecting on preserving the legacy of the NATO Training Mission Afghanistan (NTM-A). In 2010, following its combat mission in Afghanistan, Canada committed troops to the NTM-A aimed at delivering training and professional development to the national security forces of Afghanistan, Canadian Contribution Training Mission Afghanistan (CCTM-A). The Canadian C&E Branch, known for its excellence in providing communications, was to take the lead in the creation of the Afghan Signal School. Although the Afghan Signal School was a partnership between Afghanistan and NATO Coalition Forces, Canada Led the mission and took the lion's share of the mentoring responsibilities: I can see the Canadian influence everywhere in the school. Despite the fact that the SIGS TAT has completed its mission, the challenges that the Afghan Signal School has to face are not all in the past. I am, however, confident that the School possesses the ability to overcome all the challenges that they will face in the future.

Given the relationship that was established between mentors and mentees, I thought that I would ask my mentee, RSM Danis Khorshid what he had to say as our training mission is nearing completion;

I HAVE BEEN SERVING THE AFGHAN NATIONAL ARMY ISLAMIC REPUBLIC OF AFGHANISTAN FOR THE PAST 8 YEARS. THE SIGNAL SCHOOL HAS BEEN CREATED ON 1389/08/15 (15TH OF AUG 2010 IN OUR CALENDAR) BY FINANCIAL SUPPORT OF THE UNITED STATES OF AMERICA AND DIRECT COORDINATION OF THE CANADIAN GOVERNMENT. DIFFERENT COURSES



CWO Pascal Dupuis with RSM Danis Khorshid at the Afghan Signal School

ARE BEING GIVING INSIDE AND OUTSIDE AFGHANISTAN TO THE SIGNAL SCHOOL INSTRUCTORS TO BRING THEM TO NATO STANDARDS. DIFFERENT COURSES ARE CURRENTLY BEING GIVEN TO THE SIGNAL SCHOOL STUDENTS SUCH AS: HF-VHF TACTICAL RADIO, SATELLITE COMMUNICATION, COMPUTER, NETWORK, FREQUENCY MANAGEMENT AS WELL AS BASIC COMMUNICATOR COURSE. THE SCHOOL IS DIVIDED IN 3 SECTIONS — BASIC, INTERMEDIATE AND ADVANCED COURSES. SINCE THE OPENING OF THE SIGNAL SCHOOL WE HAVE TRAINED

868 OFFICERS, 858 NCOS AND CLOSE TO 2000 SOLDIERS. AS WELL WE HAVE TRAINED THE COMMUNICATORS FOR THE CREATION OF 215, 205 AND 209 SIGNAL BATTALION.

KHORSHID DANISH
SIGNAL SCHOOL SGT MAJOR

It is with mixed feeling that I say goodbye to Khorshid and Safi (my trusted interpreter). I sometimes wonder who learned the most in the past few months, me or my mentee. I am however very happy to come back home to my family. Even though I am leaving Afghanistan, a part of me will remain here.

Royal Canadian Air Force C&E Advisor's Message — Continued from page 5

Lupien, MCpl Ryan, MCpl Roberts, Cpl Hoddinott, and Cpl Diaz for their tremendous hard work, dedication, and inspiration. On Remembrance Day, Capt Vincent Dumontier-Houle did us proud, leading the RCAF flight on parade at the national ceremony in Ottawa. Have you seen our Museum recently? It's not just a collection of kit that your grandfather used to work on. Watch for the new walkthrough

diorama-style displays that really bring you into the period being depicted. Some terrific work by some talented people!

Again, I will end this column with Per Ardua Ad Astra, which CWO Peever keeps telling me translates as "Check out Peever Point regularly." Who knew that Latin could be so easy! ■

Signals TAT – Recipe for Success

LCOL BEN VAN-VIANEN, SIGNALS SCHOOL SENIOR MENTOR ADVISOR

Since its inception in November 2010, Canadian Armed Forces personnel as part of OP ATTENTION, have worked “Shohna ba Shohna” or “Shoulder to Shoulder” with the Afghan National Army (ANA) Signal School to train Signal Soldiers to operate and maintain communications and information systems. These capabilities are required to accomplish the tactical mission of the Signal Team to Battalion Commander, fulfill the operational requirements of the Brigade to Corps Commander, and achieve the strategic vision of the Afghan Ministry of Defense. In the almost three years since Canada took the lead role in the Signals Training Advisory Team (Sigs TAT), we have seen the Signal School evolve from training soldiers and officers on the radios used in the ANA, to a state where the Signal School currently provides specialized and advanced courses such as Frequency Management, Network Planning, and Information Assurance. The

success of the Signal School culminated at the end of June 2013 with the recognition that the School has reached the capability milestone representing its ability to work autonomously.

Does this mean the Sigs TAT mission is over: not at all. We must set the conditions for long-term success. The Sigs TAT continues to play an important role liaising with Coalition Forces and advising Signal School staff during the transition from “mentors dealing with mentors” to “Afghans dealing with Afghans” — we must “step back” without “stepping off”.

The ANA Signal School has come a long way in a very short time. Indeed, every member of the Sigs TAT, from ROTO 0 to ROTO 3, should share in the celebration of the Signal School’s accomplishment and should feel a profound sense of satisfaction in the part they played in the school’s success.

Furthermore, every member who has served with OP ATTENTION should be

proud that they contributed to the creation and transformation of a School that will provide command support capabilities to the ANA for years to come.

As the ROTO 3 Sigs TAT begins the process to close out its primary objectives, we are ever cognizant of the need to set the conditions for the Signal School to be successful in the long-term. In the upcoming weeks the Sigs TAT will continue to support the School as it transitions from its current mandate of generating Signalers for the Signal Kandaks (Battalions) within the newly formed Corps located around the country, to ensuring the maintenance of skilled communicators for the future of the ANA. The team will also work diligently with previous Sigs TAT Comds/RSMs to ensure the legacy of the outstanding work completed by previous ROTOs is captured. The leadership and professionalism demonstrated by the Sigs TAT cannot be forgotten.

Changes of Line Training

WO R.J.A. CASSISTA, 2 SQUADRON CTROOP, CFSCE

THIS ARTICLE IS TO GIVE AN OVERVIEW of the changes that have occurred within Line Training and the direction we are moving towards in the future. The implementation of ACISS and the move from the old Line Training building to C 55 have brought about many changes to how we do business.

C 55 is a great building, climate controlled, state of the art classrooms and closer to the Harvey Training Area where the bulk of our training is conducted. Unfortunately there was no room to move Line Training stores over so they are still located at B15 in the old Line Training Lines. This separation has proven difficult, since our training is so dependant on stores availability, but careful co-ordination has mitigated these problems.

Our primary classroom, the Harvey Training Area, has also undergone some changes. The first is the addition of four 70 feet composite stepped poles to replace the wooden ones. There are several benefits to these new poles, they are lighter and modular

meaning decreased delivery charges. They are also rated to last at least 80 years and have the potential to be serviceable for up to 120 years. Compared to our wooden poles that lasted approximately 20 years, if we could keep the woodpeckers away, they will pay for themselves several times over their lifecycle. There are no changes to training with these structures but they sure do sway a lot at the top. At least three times more than the wooden ones, it’s a wild ride. A special thanks to the LCMM Antenna Support Structures, Owen Crabbe for purchasing these structures for us to trial.

The new poles have been co-located at our tower climbing site, consisting of a 100 feet self support and a 150 feet guyed structure. This has allowed for more efficiency while training and less down time for the students during training. We now have six structures in use at the same time, increasing practice in less calendar days.

After countless years in the same location the pole orchards are being moved closer

to Highway 2. This will put them in closer proximity to our new location and allow sharing of resources between sites. We are going to two orchards instead of three to cut down on maintenance cost and time.

As for training we are in the midst of restructuring our training to meet the need of the user community. Our current LSS DP 1.1 course (QL 3 Level) does not meet the needs of units across the spectrum of CAF operations. Further to that the wait time for LST 2.1 Training (QL 5 Level) is too long, and the course duration (6 months) means we have not been able to keep up with attrition.

To overcome these challenges we are proposing a restructuring of 1.1 and 2.1 level training. The 1.1 will be the longer of the two courses (5 Months) and will consist of 1st line (with limited 2nd Line) training on all aspects of the line trade. Graduates of this course will be employable anywhere in the CAF, domestically and on operations.

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The 2.1 course will be shorter in duration (2 Months) and focus on 2nd and 3rd Line specialty training. Provisions are being made to recognise the value of on site training and experience and the course will be broken into 3 portions each with a specific qualification code. Linemen that reside in units where opportunities exist will be able to challenge the course based on experience and training and may never have to come back to CFSCE for a 2.1 qualification.

When proposing these changes we looked for ways to maximise training in the shortest possible time. By packaging the lessons to ensure concurrent activity whenever possible we shorten the amount of time a student in residency training while retaining the same skill sets.

Pre ACISS it took 11 months off residency training for a lineman to be Qualified QL 5. With the implantation of ACCIS it took 9 months. Under the proposed system for a student to be 2.1 qualified they will have spent a minimum of 5 months up to a maximum of 7 months on residency training. This duration allows us to meet the needs of the CAF, keep up with attrition and comply with current fiscal restraints.

In preparation of these changes we are planning to run 13 courses in the 2014 calendar year. These courses have the capacity to generate 160 desperately needed linemen. Each of these graduates will be fully employable in any unit. According to the Career Manager we are down in

strength by 20% and we need to recover those numbers and produce enough for regular losses. The proposed training packages will allow us to stay ahead of the attrition curve and provides enough flexibility to concentrate our efforts at to the level of training that is in demand on a year by year basis.

The current fiscal realities have forced us to make changes to the way we do business. Courses must be as efficient as possible to survive in the current economic environment. This forced change was used as an opportunity to allow us to change training for the better and ensure the line trade is viable and sustainable for years to come. ■

DP1 Signals: Exercise FINAL GLORY

CAPTAIN J. LEMAY

**"Everything changes,
nothing remains
without change"
— Gautama Siddharta**

THIS FAMOUS QUOTE SUCCINCTLY portrays many facets of society and it was certainly not meant to pertain to the Royal Canadian Corps of Signals (RCCS). It has become synonymous with the continued evolution with which army signals has always, and continues to, provide command and control (C2) to commanders and staff. For most within the RCCS, and specifically related to Development Period (DP) 1 Sigs officer training, this tenet may not actually be known or ever mentioned. It does, however, concisely portray the nature in which technology and CAF (Canadian armed forces) operations have driven the requirement to evolve training to meet modern day Tactics, Techniques and Procedures (TTPs). To meet modern demands for Signals Officer (Sig O) training, the concept for their final confirmation exercise FINAL GLORY (FG) has evolved into a codified standing Army task.

EX FG is a Field Training Exercise (FTX) that sees the DP1 Signal Officer Troop Commander Course deploy within one of three Canadian Mechanized Brigade

Groups (CMBGs) in order to train with their respective Signal Squadrons. As a standing Army task, the Brigade hosting the exercise rotates on a yearly basis. With each new graduating class there is a fresh batch of Sig O's with a unique perspective on how the Army runs a Sig Sqn.

Upon arrival they integrate into the Signal squadron to get familiarized with the personnel, expertise and equipment. During the exercise, the students are tested against two challenging Performance Objectives (PO): Reconnaissance Officer (Recce O) and Troop Commander. To accomplish this, the students assume the roles of the Sig Sqn's troop commanders, commanding qualified soldiers. Additionally, the students fill the

position of Recce O and are tasked with completing site recces for all manner of sigs assets such as: Radio Rebroadcast (RRB) for Combat Net Radio (CNR), High Capacity Line of Site (HCLOS) antennas for data transmission, Brigade Forward, Alternate and Main Command Posts locations. The opportunity to conduct training with Sig Sqn troops in a live Operational scenario offers a training value that is impossible to duplicate in simulation.

This past year's EX FG was held at 5 CMBG Valcartier hosted by 5 HQ and Sig Sqn. Fully supported by 5 Sigs well in advance, they were able to plan an exercise that allowed Sqn collective training to be accomplished

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Exercise FINAL GLORY - Forward Operating Base (FOB) In Operation, CFB Valcartier, September 2013



Entrance to Cheyenne Mountain Air Force Station Colorado Springs

We Have The Watch

Cyber Domain Chief Training for the NORAD-USNORTHCOM Current Operations Center

MAJOR DANIEL GENDREAU

Canadian Analyst/Cyber Domain Chief
NORAD-USNORTHCOM J85
Current Operations Center
Colorado Springs, CO, USA

This past summer (2013), I was fortunate enough to be posted to Colorado Springs – NORAD and United States Northern Command (USNORTHCOM) Headquarters. This is a joint headquarters with two distinct but interrelated missions: “NORAD conducts aerospace warning, aerospace control, and maritime warning in the defence of North America”; and, “USNORTHCOM partners to conduct homeland defence, civil support, and security cooperation to defend and secure the United States and its interests.”

My primary duty is as a Canadian Analyst for the Capabilities Integration Division (J85), whose mission is to “Identify, assess, and develop solutions for capability gaps associated with aerospace warning, aerospace control and maritime warning for the defense of North America.” While my C&E experience is certainly relevant to my primary duty, it is within the confines of my secondary duty, as a Cyber Domain Chief for the NORAD-USNORTHCOM Current Operations Center (N2C2), where our occupation truly adds value. Conversely, the training and experience of working as a Cyber Domain Chief in the N2C2 is providing C&E Branch members with a truly exceptional operational experience that does not exist elsewhere in Canada nor the United States.

It takes almost three full months of training in order to become a qualified Cyber Domain Chief – half occurs in the Cheyenne Mountain Air Force Station (CMAFS), and the other half in the N2C2, which is located on Peterson Air Force Base (PAFB). The initial part of the course was focused on the missions, structures and operations of NORAD, USNORTHCOM, and the N2C2 and we then moved on to the specifics of the Cyber Domain. After many weeks of classroom learning, we shifted to a synthetic operational environment, and then, finally, to the real operational environment of the command center. After a month of on-the-job training in the command center

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We Have The Watch — Continued from page 12

(and many, many exercises) I successfully completed my final evaluation and joined the ranks of the other six C&E Branch members that are qualified Cyber Domain Chiefs.

The mission of the N2C2: “The NORAD-USNORTHCOM Current Operations Center assures timely and accurate Assessments and Response Posture Changes for Canada and the United States, while providing continuous situational awareness on planned and contingency operations. Along with our mission partners, the Current Operations Center anticipates requirements and ensures unity of effort for homeland defence and defence support of civil authorities.” In simpler terms, the N2C2 maintains situational awareness on any activity, event, or object that could affect the safety or security of North America. Depending on the level of the threat, the chain of command (from the Commander of NORAD-USNORTHCOM, General Jacoby, and up to the President of the US and the Prime Minister of Canada) will make the appropriate decisions to protect our nations.

The N2C2 accomplishes its mission through teams of highly trained military and civilian individuals focused on specific domains: Command, Air, Cyber, Intelligence, Land, Maritime, Weather and, Missile and Space. The N2C2 is always operational in either their primary location on PAFB or in their alternate location at CMAFS. Each domain contains 1–5 people and all of the domains together, along with various support personnel, form a crew. There are five crews of approximately 40 personnel per crew that operate the N2C2 in eight-hour rotations. The majority of N2C2 personnel are full-time crew, meaning that their primary duty is to work in the N2C2, but there are also a large number of trained personnel that work in the N2C2 as a secondary duty and they are called “Pro-shifters”. Pro-shifters complete the same training and qualification process as their full-time colleagues and then work a minimum of two shifts per month to maintain their qualification. A pool of Pro-shifters is crucial to maintaining a functional operations center as they work in times of increased operational tempo and ensure the continuity of operations when full-time members are ill, in training, on TD or on leave.

CYBER DOMAIN MISSION

As a key contributor to NORAD and USNORTHCOM’s defence mission, the N2C2 Cyber Domain is the Commander’s primary contact for anything cyber-related. It is the focal point for assessing cyber capabilities supporting NORAD-USNORTHCOM missions, and the Commander’s link to cyber threat partners including US Cyber Command, and the Defense Information

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***"Along with our mission partners,
the Current Operations Center
anticipates requirements and
ensures unity of effort for
homeland defence and defence
support of civil authorities."***

NORAD-USNORTHCOM Headquarters Peterson Air Force Base Colorado Springs



We Have The Watch — Continued from page 15

Systems Agency (DISA). The Cyber Domain receives information on actual or potential cyber threats or attacks from a number of sources such as the N2C2 Intelligence Domain, the National Security Agency, open sources, as well as from the aforementioned cyber threat partners. The Cyber Domain then has to try and characterize the event(s), find attribution (who is responsible for the threat or attack) and provide the Commander with enough information so that he or she can formally assess the event and take the appropriate actions (usually in concert with the cyber threat partners).

THE CYBER OPERATIONAL IMPERATIVE

The Pentagon has formally recognized cyberspace as a new domain in warfare which has become just as critical to military operations as land, sea, air, and space. As our world becomes more “connected”, cybercrime and cyber warfare targets increase accordingly. The estimated annual cost of global cybercrime is 100 billion dollars and there are some 1.5 million victims per day. These figures represent the exponential increases in cyber warfare attacks in the past few years, and they are becoming increasingly more complex and more focused on disrupting or degrading North America’s security posture. Traditional warfare does not exist in cyberspace as it can be very difficult to find attribution for threats and attacks—for example, the culprit(s) could be state or non-state actors, motivated by financial gain, ideology, or by political or military purposes. They could be actively engaged in cyber warfare, cybercrime, cyber espionage, or so-called “hacktivism.” In order to combat these asymmetrical threats,



Alternate Command Center in Cheyenne Mountain Air Force Station Colorado Springs

the United States established a large cyber security structure, of which, the N2C2 Cyber Domain is a small but important member.

FUTURE

The N2C2 Cyber Domain has undergone a significant transformation recently in order to better focus its energy and attention to where it matters most—the security and safety of North America. It will continue to transform because it has to in order to combat the adversary’s ever-evolving tactics. Commanders have never been more cognizant of the threats emanating from cyberspace, ever-increasing the future importance of the domain. Despite having just arrived, I feel very fortunate to work in this operationally-focused environment. The skills and operational experience gained by C&E Branch members through their contributions to this mission will hopefully translate into significant gains for the Branch and the CAF as a whole. ■

DP1 Sigs: Exercise FINAL GLORY

— Continued from page 11

while allowing SOTC students to validate their individual training. This was an excellent example of integrating two units’ separate training objectives into one collaborative training event. Furthermore, the inclusion of students acting as troop commanders enabled the Sig Sqn to employ its junior officers to more senior positions in order to foster a greater learning/mentorship environment. This level of collaboration and integration of collective and individual training objectives proves that training is a unified effort; from the formation level on down. The support provided by the Army and 5 Sigs in this instance was second to none and CFSCE (Canadian forces school of communications and electronics), specifically the 1 Sqn staff involved were welcomed with open arms.



FINAL GLORY - Forward Command Post (CP) Tearing Down, CFB Valcartier, September 2013

Exercise FINAL GLORY has certainly demonstrated that, as a training platform, it has the ability to evolve and adapt to meet future training requirements. The Army’s ability to adapt and implement their Sig Sqn’s to further supplement their training calendar

while adapting to the needs of CFSCE validates Signallers from all levels of the Army. With this approach to training, Sig O’s now have an excellent opportunity to excel and succeed upon completion of the Signal Officer Troop Commander Course. ■

Adventure Training, 25th – 27th September 2013

CAPT SÉBASTIEN BEAUDET AND WO JOHN WEAVER, SHARED SERVICES UNIT (CENTRAL) SECTION PETAWAWA

SHARED SERVICES UNIT (CENTRAL) Section Petawawa was extremely successful in conducting the first Adventure Training Exercise in the Canadian Forces Shared Services Group (CFSSG). The Adventure consisted of three days of hiking and camping on the Western Uplands Backpacking trail of Algonquin Park. This event was an opportunity for the members to come together and participate to an activity away from the office.

The preparation for the Adventure Training included many rucksack marches with increasing distances, culminating in a 16 kilometres validation march. The group was initially comprised eight members but, for various reasons, the expedition party ended up being only four people: Capt Sébastien Beaudet, WO John Weaver, MCpl Travys Côté and Cpl Peter Goes.

On September 25th, the team set out on a three days, 55 kilometre hike. After the first 3 kilometres, the team realised that the initial goal of making camp 20 kilometres into the park, prior to dark, would be more of a challenge than expected. The members were carrying packs that averaged 60 pounds and this, combined with a trail that included obstacles such as crossing streams and beaver dams, and elevation changes of 500 feet, made for unexpected difficulty. By 12h00 hours, on day one, the team had completed



Weaver bridge: WO Weaver stumbling on the bridge

campsite and mentioned to the team that this was a perfect campsite, “so why walk another 10 kilometres, when this site is so beautiful.” The expedition In Charge and Second In Charge, Capt Beaudet and WO Weaver, weighed the three hours of remaining daylight, the 13 kilometres of distance left to that night’s campsite, and the average speed of travel. The Captain decided that a new route must be taken to ensure that the expedition would be completed without injury, within the three days. The expedition In Charge took the satellite phone and contacted the Park Administration in order to change the campsites. Cpl Goes and MCpl Cote were delighted with the new plan. The expedition In Charge and Second In Charge were really

for about two hours, while the Park Rangers attempted to rebuild a walkway over a washed-out area that was damaged by beavers. Once the team was back on the trail, they completed another 10 kilometres of the “best terrain” the park had to offer. One of the “best” parts of the trail included a 30 metres scramble up a very steep incline. They thought for a bit they had accidentally signed up for a wilderness rock climbing expedition! Around 16h00 hours, after all was said and done, the exhausted team arrived at their second camp location. After setting up the camp and having dinner, the group sat in front of the campfire and shared stories, some more printable than others, before going to bed.

Day three started with a 5h30 wake up to ensure that the team had adequate time to reach the 10h30 rendezvous with the support team for a much anticipated BBQ steak lunch. The team proceeded with the help of headlamps in the dark prior to dawn so as to navigate the last 10 kilometres. The first 6 kilometres were still very difficult, but remaining four kilometres got much easier, with flat terrain and better trail conditions. The team managed to complete the final leg in a surprising three hours.

The support team arrived as planned with food and beverages and set up the BBQ. By the end of the lunch, the enormous 20 oz steaks became as difficult to get through as the trail. Altogether, while more of an adventure than anticipated, the exercise was a success.



The Expedition Party (Cpl Peter Goes, WO John Weaver, Capt Sébastien Beaudet, MCpl Travys Côté) just before the departure

only 5 kilometres and after four more gruelling hours they made it to the half-way point of day one at around 11 kilometres from the starting point. The team took a well-deserved break at a lovely waterfront campsite. Cpl Goes was taken with the

impressed by how quickly Cpl Goes had his tent set up and dinner on.

On day two, in an attempt to gain as much daylight as possible, the team was off to an early start. Despite early departure, the team was stymied after a couple kilometres

Delivering New C4ISR Capability to Canadian Armed Forces (CAF)

COL BRYSKI, OMM, CD CHIEF OF STAFF, DIRECTOR GENERAL INFORMATION MANAGEMENT PROJECT DELIVERY

THE DIRECTOR GENERAL INFORMATION Management Project Delivery Division (DGIMPD) is a very busy group of Defence Team IM/IT professionals delivering new capability to the CAF and DND. As one of four divisions within Information Management Group, DGIMPD comprises approximately 260 military and civilian personnel, which includes

IM/IT capability development delivered by DGIMPD directly supports the top 2013–2017 Defence Priority, specifically to develop and implement initiatives to provide an integrated, secure and effective IM and IT environment in support of all Defence operations. The division's unofficial motto — We deliver solutions — has inspired all team members to achieve their maximum

output in order to meet growing Defence IM/IT needs. Indeed, output delivered by projects has doubled in terms of expenditures over the past couple years! In terms of procurement dollars in FY 12/13, DGIMPD projects collectively expended the second most in relation to other project divisions within



Prototype deployable classified satellite communications system for situational awareness developed by Grey Goose Project and National Research Council

43 personnel from the C&E Branch. These dedicated professionals span the ranks of WO to LCol and are assigned to one or more of the 37 C4ISR projects with a total value of \$4.4 billion. While most DGIMPD personnel are located in Ottawa, four are in other locations including Halifax, Victoria and Washington, DC. The mission of DGIMPD is to collaboratively partner with clients and stakeholders to strategically plan, design, develop, and deploy technology enabled solutions, capabilities, and changes to the IM/IT capability of DND/CAF. Projects are organized into one of five portfolios: Communications and Sense, Management Information Systems, Common Information Systems, Intelligence and Surveillance Systems and Command and Control. In addition to C&E Branch uniformed members in DGIMPD, there are a plethora of former members, including three who are portfolio directors. All contribute to making DGIMPD a highly integrated and capable team.

DND — its highest level when considering historical IM/IT investments. This is a remarkable feat



DGIMPD Banner displayed at C2013 Parade

given recent strategic reviews and that there has been no increase in staff due to fiscal pressures.

New IM/IT capability delivered to DND/CAF by DGIMPD provides a direct impact on C4ISR support to CAF operations. Further, most new capabilities delivered have been transformational, especially with the introduction of new space-based

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Portfolio and Director (* = former C&E Branch member)	C&E Branch Members in DGIMPD
Communications and Sense, Don Messier*	Maj Fleury, Maj Groh, Maj MacArthur, Maj Stark, Maj Tremblay, Capt Ahmad, Capt Arsenault, Capt Eyvindson, Capt Fleming, Capt Guimond, Capt Mahar, Capt Meqa, Capt Mizuno, Capt Tetreault
Management Information Systems, Lyse Langevin	Capt McCue, Capt Warner
Common Information Systems, Christine Stanczyk*	LCol Thibeault, Maj Flynn, Maj Moore, Maj Sudsbear, Maj Thompson, Capt Al-Aubidy, Capt Chaudhry, Capt Savard, Capt Simard, MWO Rolet, WO Watkins
Intelligence and Surveillance Systems, Mike Donaldson	LCol Robichaud, Maj Burke, Maj Flanders, Maj Steinke, Capt Williams, WO Ringuette
Command and Control, John Langen*	LCol Jackson, LCol Royer, Maj Cumbo, Maj Enns, Maj Petchiny, Maj St-Pierre, Capt Huhta, Capt Nantel, MWO Thibodeau

Table 1 - C&E Branch Members assigned to DGIMPD Portfolios

Delivering New C4ISR Capability — Continued from page 18

and satellite communications systems and providing timely solutions in cyber and joint C4ISR domains. The Surveillance of Space project launched the Sapphire satellite in February 2013 representing the premiere CAF operational satellite. This capability marks a substantial improvement to CAF's space surveillance mission since the retirement of the Baker Nunn cameras in the '90s.

The Mercury Global project is delivering the first ever wide-band SATCOM service for DND/CAF. As a result of successful significant negotiations with the US, early access to the Wide-Band Global SATCOM system was successfully gained in 2012 and the service provides vital support to CAF expeditionary operations. Initial Operational Capability of the Marine Security Operation Centers project is an example of cooperation across seven departments to improve maritime security. Polar Epsilon established

a wide-area maritime and arctic surveillance capability via satellite; supporting sovereignty by delivering space-based, persistent, all-weather maritime surveillance information of Canada's Arctic, Atlantic, and Pacific oceans and includes global high-resolution surveillance capabilities to support deployed units. The Lunar Eclipse project delivered a deployable suite of SIGINT survey and exploitation capability, greatly enhancing force protection in theatres of operations. Driven from the start by a time-sensitive requirement for CAF and our allies, Polar Ice delivered complex classified processing and international communications systems nationally and in support of CAF operations in Afghanistan. The Joint Space Support Project delivered the CAF's first mobile Surveillance and Reconnaissance capability providing near-real time high resolution imagery to support operations.

These projects represent the many firsts for DND/CAF. Further, more are in the hopper as 40% of the 37 projects are in implementation phase at present. Among others, these include IT Service Management, Protected MILSATCOM, Joint Command System (Air) and Defence Cryptographic Modernization projects and several classified projects. The demand for Defence IM/IT is expected to continue for the foreseeable future given that the largest majority of the top priority projects in the DND Investment Plan are IM/IT projects and the Defence missions require modern C4ISR capabilities. All project teams and C&E Branch members can be justifiably proud of their collective accomplishments and remain motivated that the demand is strong for their talents. If you are looking for a great place to contribute to the Defence Team, consider a posting to DGIMPD. Contact us for more info. ■



Unclassified Remote-Sensing Situational Awareness (URSA) satellite antenna with personnel from Joint Space Support Project, LCMM and CFJSR attending the URSA Operator and Technician training in November 2013



WOW Earle and Sgt J Cyr, 19 Wing Comox ATC and Air Field Supervisors Photo by: Cpl J Chiasson of 19 Wing Imaging

PARs Decommission

In Trenton, Bagotville, and Comox

CAPT A MOJAVERI
CELE (AIR) OFFICER
COMOX, BC

On 23 April 2013, 8 Wing Trenton was the first of the three RCAF Wings to recently decommission their legacy Precision Approach Radar system. Col Sean Friday, the Commander of 8 Wing, attended a ceremony in Trenton where technicians and controllers gathered to mark the last PAR guided touchdown. Sgt Chris Zevenbergen, a senior PAR controller, guided a CC 150 Polaris from 437 Squadron to mark the last AN/FPN-503 (V) employment in Trenton. With an average of 60 to 80 approaches every month the past few years, Trenton's PAR was just as busy as Bagotville or Comox for guiding in aircraft.

Cpl Murray, an 8 Wing ATIS technician, explained how the system went through many modifications over its years of service. From upgrading the transmitter modulators to changing the gearbox motors, our technicians drastically improved the system's performance to the point that the switching capability from one runway to another was reduced from 15 to only four minutes. WTISS technicians in IFRCC officially switched off the unit on the 23rd of April.

On 15 May 2013, 3 Wing Bagotville also hosted a special ceremony to commemorate years of PAR service in Bagotville. The final touchdown was completed by RCAF Commander, LGen Yvan Blondin, in a CF188 at North America's only francophone air field. The Commander officially switched off the PAR in a ceremony shortly after his landing. This radar was also quite busy during the last few years with approximately 700 flights each year. PAR Controllers at 3 Wing successfully provided bilingual service until the "beach ball" was retired.

On 28 June, 19 Wing Comox also bid farewell to 32 years PAR operations. The system guided a CF188 to a safe landing in its last mission. 19 Wing Commander, Col Jim Benninger, opened the

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Cpl J Doiron and Pre P Roy ATIS technicians at 19 Wing Comox assisting in the PAR removal



PARS Decommission — Continued from page 20

ceremony by addressing a crowd of past and present PAR operators and technicians joined by local civilian dignitaries.

The AN/FPN-503 (V) PAR systems initially were purchased from ITT Gilfillan in the late 70s to replace the QUAD radar systems at most air bases. Its hydraulic turntable allowed the PAR to be remotely switched between separate runway approaches within minutes. “Despite the fact that we decommissioned PAR in Comox, this radar is still being manufactured. It is a NATO requirement not to mention that there are specific air frames, such as P3 (Aurora) upgrades that are using this radar for their navigation. This is a system that could be utilized practically anywhere in the world due to its mobile capabilities,” explained the 19 Wing Operations ATC supervisor, WO Dwayne Earle, during a group table talk.

“(The) flying community in this area was lucky to have the system. It helped numerous troubled aircrafts guiding them to a safe landing” said Sgt Sylvain Houde, an experienced PAR operator with thirty plus years behind the radar scope. “As PAR operators, our voices were a relief to pilots assuring them a safe landing using the most primitive yet reliable way of communication, a basic radio frequency to tell pilots up-down (elevation) or left-right (azimuth) no matter how broken the aircraft instruments were or an emergency happened inside the cockpit” added Sgt Heather Moss another experienced PAR controller.

Not only did this mark the end of an era for the flying community or its operators but also for ATIS technicians. More than 1000 technicians had gained their 503 maintenance qualification over the systems lifespan. Air Reserve ATIS technician MCpl Rob Slonski, a PAR qualified WTIS member, recalls the day when controllers reported that birds were being mistaken for aircrafts because of the inexplicably overachieving receiver on one of the channels. He was able to resolve the disparity issue with some initiative. “After going through numerous checks all confirming that it met the same specifications as the other channel and aligning and realigning the receivers for countless times we were finally forced to detune it, dropping the STC baseline by whopping 2 VDC (The STC curve is 6 VDC in total so this is quite the adjustment). This had the desired effect, finally reducing the size of the birds so that they were no longer mistaken for an uncooperative aircraft on PAR approach”

“The new automated technology will never replace the advantage of having a human operator; take for example when no instruments are working on an aircraft that needs to land” said Sgt Jeff Cyr, the Airfield Radar & Communications Systems Supervisor and one of two PAR qualified technicians, “besides I had my kids convinced that

Daddy had a Bouncy Castle at work” he added in reference to the orange and white inflated radome that houses the PAR.

The Aerodrome Precision Approach Landing Systems (APALS) project was initiated to replace aging PAR systems as they were no longer economically supportable due to obsolescence issues and dwindling parts availability. Technical and operational requirements of each unit across Canada along with financial restraints were among the factors to decide where and when to replace the legacy PAR systems or switch to an Instrument Landing System (ILS). There are five units that continue to employ PAR technicians and operators with the new MPN 2000 PARs: 12 Wing Shearwater, 14 Wing Greenwood, 15 Wing Moose Jaw, 4 Wing Cold Lake and 8 Air Communication and Control Squadron.

As we gradually shifted from QUAD to AN/FPN-503(V) and now to MPN 2000, the newer systems increasingly rely on software rather than specialized hardware and physical controls. MCpl Peerenboom, a Cpl in Cold Lake at that time, was among a group of technicians who received the initial training on PAR 2000. He was amazed with the new system in which several computers were used to process the signals. This gave the technicians the capability of narrowing down the troubleshooting in to subsystems which in turn reduced maintenance and repair time considerably.

In addition to Comox, Bagotville, and Trenton, the AN/FPN 503 (V) PAR was operated out of Greenwood, Goose Bay, Chatham, Ottawa, North Bay, Moose Jaw, Cold Lake, and Edmonton. The end of PAR operations at 19 Wing Comox marked the end of a 38 year association with the AN/FPN (V) PAR and the RCAF. Over the period, approximately 1000 radar technicians were trained at Kingston from 1975–1982 and at TRACS STU and ATESS from 1983 until 2011.

The AN/FPN-503 (V) PAR was officially declared obsolete and surplus to requirement by the RCAF on 16 Aug 13 as it was no longer required for air traffic operations. Thanks to everyone and for the old techs out there, we say goodbye to one of the few remaining component repairable systems — a true radar technician’s system. ■



R/SAOC Project Closeout

CAPTAIN MARK MURPHY R&CS 5-3-2

THE CANADIAN REGION/SECTOR AIR Operations Center (R/SAOC) project began in 1989 with the goal of modernizing Canada's command and control computers at the Canadian Air Defence Sector (CADS) in North Bay, Ontario. The project successfully moved operations from the underground complex, commonly known

as an adequate long term solution for the NORAD mission. It was also determined that it was no longer cost effective to remain in the underground complex.

From the outset the R/SAOC project was closely linked with the United States Air Force's effort to replace their air defence system. Project Approval for R/SAOC was received in December, 1995 followed rapidly by the signing of an MOU and Bi-National Agreement with the USAF, and then in March 1997 the awarding of a contract for a command and control system with Litton Corporation. The R/SAOC project was also responsible for the relocation of CADS and a new internal communications system (ICS). In September, 1997 a

contract was awarded to General Dynamics Canada for the communications system. Ministerial decision to remain in North Bay overrode the desire to move CADS to Ottawa or Winnipeg — and ADM(IE) was tasked with building the above ground complex.

The command and control system being developed by Litton was significantly over budget and was proving to be an inadequate technical solution; the contract was cancelled in October 1999. The R/SAOC project determined that CADS' need for a new system was urgent, and they couldn't wait for the bi-national effort to deliver a solution. Instead, Canada began an effort to modify NATO's open-architecture MASE+ software using programmers at the NORAD System Support Facility. A statement of work for the Canadian MASE+ solution was signed in April, 2001. Before the system could be delivered, the events of September 11th, 2001 intensified the American air defence effort and the MASE+ solution was cancelled.

In April, 2003 Canada was formally

invited to join the BCS-F project as part of the bi-national agreement. In August, 2004, the R/SAOC project signed into a Foreign Military Sales (FMS) contract with U.S. DoD for purchase of the BCS-F and the associated system testing regime. The BCS-F is a spiral development hardware and software solution delivered by Thales-Raytheon Systems (TRS). The R/SAOC project received delivery of Spiral 2 of the BCS-F in late 2005 in concert with the completion of the above ground complex and the delivery of the ICS. In October, 2006, operations were moved from the underground to the DLP, and the R/SAOC project declared Initial Operational Capability (IOC). After many system upgrades, the R/SAOC project reached Full Operational Capability (FOC) when increment 3.2 of BCS-F was granted operational airworthiness certification in April 2013.

Despite its early troubles, the R/SAOC project turned out to be a great success. The FMS strategy proved highly effective, delivering multiple hardware and software upgrades over the past seven years. The closure of the R/SAOC project occurs in parallel with the USAF transition to system sustainment for the BCS-F. In Canada,



LCol. Pasiecznyk and Col. Boyle signing the R/SAOC project closeout certificates

as "the hole", to a new above ground site that was named the Sgt. David L. Pitcher building (DLP). In addition to the new facility, the R/SAOC project fielded a new internal communications system and a new command and control system called the AN/FYQ-156 Battle Control System Fixed (BCS-F). The CADS Commander, Col Sean Boyle, and the Project Manager, LCol Shane Pasiecznyk, commemorated the closeout of the R/SAOC project at a ceremony on October 2nd in North Bay.

NORAD operations in the underground complex began in 1963 using a computer system called AN/FYQ-7; part of the Semi-Automatic Ground Environment (SAGE) air defence network. In 1983 the SAGE network was replaced by the Regional Operations Control Centre/Sector Operations Control Centre (ROCC/SOCC) network; and the underground complex was outfitted with the AN/FYQ-93 workstations, called the Q-93 by operators. The R/SAOC project was created in 1989 in response to ministerial acceptance of NORAD Statement of Requirement 01-90, which stated that, due to the rapid advances in computer technology, the Q-93 would not



The Sgt. David L. Pitcher Building

the CADS Upgrade project was stood up to continue development of BCS-F in full partnership with USAF. It also has a mandate to procure a new red/black communications system and implement the Continuity of Operations (COOP), which allows NORAD sectors to take over command of each other's airspace. The CADS Upgrade project strives to build on the success of R/SAOC to provide NORAD operators extremely capable command and control systems.

110th Communications & Electronics Branch Day Phoenix

MCPL A.N. HOMMERSEN, CANADIAN FORCES JOINT SIGNAL REGIMENT

THE CELEBRATION OF THE 110th Anniversary of the formation of the Canadian Signalling Corporations at Camp Phoenix in Kabul began with the raising of the Signals flag on 24 October, 2013. It was a bittersweet moment for all of us, as this chapter of Canadian Armed Forces participation in Afghanistan comes to a close. This was the last time we had the opportunity to gather as a group and see the Signals flag flown beside the Canadian flag in Afghanistan.

Following this poignant moment, Signallers from a number of other camps gathered over coffee to celebrate and reminisce about branch operations, accomplishments, and our legacy in Afghanistan over the last 12 years. This also afforded our group valuable time to discuss current operations and events in theatre. In true Canadian fashion, the celebrations continued with the junior ranks battling the senior Non-Commissioned Officer's in a game of hockey. After some fierce competition, as anticipated, the junior ranks came out on top.

With appetites soaring we gathered to enjoy pizza, socialize with members from outlying camps, and enjoy a delicious cake that was purchased with the generous support from the Communications & Electronics Branch. The



Members of the Signals Corporations prepare to raise the flag over Camp Phoenix Tactical Operations Centre.

evening ended with a game of trivia in which all members of varying ranks ended up learning an assortment of facts about the Canadian Signal Corporations' deep rooted history. The next day we had the rare opportunity of participating in a video teleconference with Her Royal Highness, The Princess Royal, Princess Anne, The Colonel in Chief of the Communications and Electronics Branch. It was a remarkable day for all of us and one we certainly will not forget.

As the drawdown of Operation Attention fast approaches, the complexity of the rotation increases exponentially. At the moment the signals contingent is preparing an intricate plan to execute communications for the last ninety

days in theatre and are arranging a drawdown proposal to satisfy the needs of all members' communications who remain in theatre. Concurrently, while this is being accomplished, we are managing and supporting the everyday necessities to keep the communications side of the operation running smoothly. All members of Task Force 2-13 are hard working, dedicated, and have taken every opportunity to soak up everything this rotation has had to offer throughout the duration of the mission. As a branch, the Royal Canadian Corporations of Signallers will leave behind the legacy of outstanding effort and accomplishment met to the highest standard possible.

3 CDSG Signal Squadron Building Naming Ceremony

CPL WALSH B.M. 3 SIGS ATIS TECH

ON OCTOBER 3RD, 2013, A CEREMONY was held to honour Lieutenant-General Samuel Findlay Clark, CBE, CD, one of the Communications and Electronics Branch's most accomplished members. LGen Clark was the first Royal Canadian Signals Corps Officer to achieve the highest position in the Army, Chief of General Staff which is now known as the Commander of the Canadian Army.

This event was a key part of Edmonton based C&E Branch 110th Anniversary ceremonies. Presiding over this Building Naming Ceremony was the Commander of 3 Canadian Division Support Group (CDSG), Colonel D.A. Macaulay, CD. The purpose behind this ceremonial event was to name Bldg 192, headquarters of 3 CDSG Sig Sqn, to Lieutenant-General Samuel Findlay Clark,

CBE, CD Building.

LGen Samuel Findlay Clark, CBE, CD, was born in Winnipeg, MB on 17 Mar 1909 and passed away at the age of 89 on 3 Sep 1998. His education included degrees in Electrical Engineering and Mechanical Engineering. His military career began in 1933 when he was commissioned into the Royal Canadian Corps of Signals. A few years later, as an associate professor and at the rank of Captain, he taught Mechanical Engineering at the Royal Military College. From 1940-1942 he was promoted to the rank of Major and then to Lieutenant-Colonel, and within this time frame becoming the adjutant of 1 Corps Signals, taking command of the 5th Canadian Armoured Division Signallers, and attending the British Senior Staff College. In 1943 he was appointed to A/Brigadier and Chief Signals Officer of 1

Corps, which landed him in Normandy during the end of WWII. He played an integral role for the Corps until the final days of the war. 1945 saw Brigadier-General Clark appointed as the Chief Signals Officer of the CAF in Netherlands, in addition to being appointed as one of four Deputies to the Chief of the General Staff. Not too long after, he attended the Imperial Defence College, which was then followed by the appointment of Canadian Military Observer to the Western Union Defence Committee. Upon the creation of NATO, he was promoted to Major-General and appointed as the Canadian Representative on the NATO Military Committee. Shortly after he became the Chairman of the Canadian Joint Staff in London, UK. Four years later saw his appointment to Quarter-

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C&E Branch Subalterns and Sergeants Indoctrination 2013

CAPT A.E. CHERNYSH, 1 SQN, CFSCE

THE 2013 SUBALTERNs AND SERGEANTS Indoctrination sessions this year were hugely successful, due to the support of chains of command across the entire Branch, with 22 Subalterns and 25 Sergeants attending the sessions on October 22nd and 23rd in CFB Kingston. Thank you!

Under the stewardship of the CFJSR Colonel-of-the-Regiment, BGen (Ret'd) Larry Aitken, and organization by Capt Ian Maclellan, CFJSR Adj; Capt Andrew Chernysh, CFSCE 2IC 1 Sqn (Squadron), Capt Eduard Anca, 21 EW Adj, CWO Marcel Dinelle, C&E Branch CWO, and MWO Billingsley, 21 EW, 212 SSM, excellent briefings on the history, customs, and vision of the Branch were shared with both groups. This year both groups were given complimentary copies of the Celebration 2013 Official Program Guide and a reprinting of the "We still call him Bruce !!" booklet, which is a pictorial history of the founder of the Royal Canadian Corps of Signals, from the notebook of E.A. Sketcher (Sketch).

This year, the Subalterns (Subbies) Indoctrination was held in the Knowlton Theatre of E-30 and Room 101 of the Forde Building while the Sergeants Indoc was held in the CFB Kingston WO & Sgts Mess.

The C&E Branch Subalterns Indoctrination Course, in its original format, the Signal Regiment conducted a Subalterns course that covered the history of the Royal Corps of Signals, C&E Branch Customs and Traditions and mess history and etiquette, as well as history of the Regiment itself. The course was directed uniquely at the C&E Branch members from the Land Environment at the time. When the Signal Regiment became the current Canadian Forces Joint Signal Regiment (CFJSR), the Subalterns course was not conducted for a period of eight years (2000–2008). On behalf of the Branch, the CFJSR reintroduced the Subalterns Indoctrination Course as a C&E Branch Indoctrination for both the Land and Air officers in 2009. This year's version focused on the C&E Branch of the past, present and future in a vignette format that

employed presentations from a variety of guest speakers.

In a similar fashion, the Sergeants indoctrination provided the opportunity for newly promoted, or about to be promoted sergeants to explore Branch history as well as be introduced to information that they required to lead, guide and support their section members as well as the expectations of a senior NCM in the context of their role within the command team. The networking opportunity provided insight on what their peers are doing on airfields, garrisons and bases. It was soon evident that leading a section has the same challenges in Comox, St John and Ottawa no matter whether you are a Reservist, Regular, or Army, Navy, or Air Force.

To culminate the two day experience, both sessions were brought together with the Branch leadership in a Panel discussion. We were certainly fortunate to have no fewer than two Branch Brigadier-Generals, seven Colonels, and seven Chief Warrant Officers in attendance to share their insights and vision with the candidates.



Combined Subbies and Sergeants Indoc sessions including Branch Leadership

41 Signal Regiment: Messengers Of The 110th Anniversary In Alberta

Exercise SWIFT FOX

CAPTAIN BRIAN E. FARKES, CD, ADJUTANT 41 SIGNAL REGIMENT

IN ORDER TO HONOUR THE 110th Anniversary of the founding of Communications and Electronics Branch and its predecessor corps, and to publicize Celebration 2013 regionally, 41 Signal Regiment wanted to create a unique event with a very public profile across as much of the province of Alberta as possible. Therefore, 41 Signal Regiment incorporated a very unique exercise into the 2013 - 2014 training year, called Exercise SWIFT FOX.

The objective of this exercise was four-fold: to celebrate regionally the 110th Anniversary of the founding of Canada's professional military communication branch, to promote physical fitness in the Canadian Armed Forces' own Signal Regiment in Alberta, to promote the 2013 Terry Fox Run, and to increase public knowledge in all visited communities of part-time employment opportunities with 41 Signal Regiment.

Therefore, 41 Signal Regiment conducted Ex SWIFT FOX, on Friday September 15th to Sunday September 17th 2013. Friday evening

and Saturday, two teams of the Regiment's soldiers conducted a relay run, starting simultaneously from Edmonton (home of 1 Squadron) and from Calgary (home of 3 Squadron) along two routes, culminating by meeting and finishing together in Red Deer (home of 2 Squadron) at 1700 hours Saturday afternoon. Each of the two running groups carried a different portion of the Regiment's commemorative message, which were relay-run by the Regiment's soldiers and brought together to form a single message, delivered to the Mayor of City of Red Deer and other dignitaries at Red Deer's Veterans' Park, and read and proclaimed at a culminating ceremony there by the Mayor. In the final phase of Exercise SWIFT FOX, 41 Signal Regiment participated in Red Deer's annual Terry Fox Run on Sunday.

In the days and weeks beforehand, in concert with the Public Affairs Branch at 41 Canadian Brigade Group Headquarters, exercise organizers at each squadron and at Regimental Headquarters implemented

a public affairs plan. They also coordinated with the Red Deer Terry Fox Run organizing committee, and contacted city and town councils, as well as local and regional news media, along both running routes in order to inform them of the event and to arrange commemorative plaque presentations to each of those communities as the runners were going through. Members of 41 Signal Regiment fundraised over \$1,000 for this charity. Although many reservists by doing so, we commemorated the 110th Anniversary very publicly, we thanked the residents of Alberta for their support over the past 110 years (especially since many members of 41 Signal Regiment live and work in many of these smaller regional cities and towns), and demonstrated support for the 2013 Terry Fox Run. We also had mini-recruiting events in key locations, and distributed recruiting information for 41 Signal Regiment and for the Canadian Armed Forces in general. SIGNIFERI EXCELLENTIA.



41 Signal Regiment at the 2013 Red Deer Terry Fox Run



All the runners, having met in Red Deer

3 CDSG Sig Sqn Building Naming Ceremony

—Continued from page 21

Master General, and trailing that was another appointment to G.O.C. Central Command. Achieving the pinnacle position in the CAF in 1958, he was promoted to LGen and served as the Chief of General Staff. Upon stepping down as Chief of General Staff in 1961, the Prime Minister asked LGen Clark to be Chairman of the National Capital Commission, a position he held for several years. 1967 marked the retirement of LGen Clark, resulting in the LGen becoming

the first Colonel Commandant of the C&E Branch, a title he held from 1968–1973. Lastly, LGen Clark had the privilege of being Honorary Lieutenant-Colonel for a number of organizations, including the 744 and 741 Communication Squadrons.

LGen Clark's contribution and devotion to his country and to Signals will not be forgotten. From this day forward, the home of 3 CDSG Sig Sqn will no longer be that of Bldg 192, but known as Lieutenant General Samuel Findlay Clark CBE, CD Building. ■



Clark Bldg Plaque Reveal



CAPTIAN RACHEL CLOW

Run a high frequency (HF) exercise open to military and CFARS participants during C&E week 2013. With that deceptively simple direction, I was tasked to design and run what eventually became Exercise NOBLE SKYWAVE.

The Canadian military and CFARS have different expectations regarding exercises, organization, and chain of command. During the planning phase, CFARS strongly advocated using a HAM radio competition format, which fundamentally entails trying to make contact with as many other participants as possible on various specified frequencies with points awarded for each contact. In order to combine two very different visions, we had a whiteboard brainstorming session at the end of June with military and CFARS representation. Three distinct aims were developed that were eventually edited to read: 1) generate involvement in the 110th anniversary of military communications in Canada, 2) engage in friendly competition between communications units, bases, wings and ships, and 3) help revitalize HF capabilities including skills related to radios, antennas, and propagation.

The exercise was planned for 24th–25th October 2013 and was to be open to all elements of regular and reserve forces, and CFARS members. We also agreed that an invitation would be sent to military communicators from closely allied countries. Due to the audience, no data or crypto could be used. Essentially, we had a lot of great ideas but no budget, no CCO or Foreman, and not enough time. Through the senior NCO tech net I was introduced to MWO Bourgeois and the DIMTPS HF LCMMs who were a wealth of knowledge, ideas and contacts.

As the summer progressed and news of an exercise began reaching tactical units, exercise names were tested on coworkers and excel spread sheets were developed, populated, changed, added to, and changed again. Because the Branch was inviting participation rather than ordering it, it was unknown who would be participating, where they would be located, or what type of equipment would be used—all the information required to request authorization to use frequencies. Some units were responsive and organized, while working with other units felt like herding cats. For example, one unit called to register after the exercise had started, and from another unit, 11 different people contacted me because “nobody else knew anything about the exercise.”

As registration forms trickled in, MWO Law from the Canadian Forces School of Communications and Electronics (CFSCE) stepped up as the CCO. Three days before the exercise, I arrived in Kingston to finalize all the details. Working with the exercise CCO and

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1 CMBG Edmonton checking on their antenna

Ex NOBLE SKYWAVE — Continued from page 24

CFSCE's resident HF SME, Sgt Travers, we set up the Net Control Station (NCS). CFSCE also sourced the staff and equipment for the NCS that was run from their new, state of the art, HF radio lab with two QRTs and three antennas including a fanlite and a delta.

When Exercise NOBLE SKYWAVE kicked off, there were a total of 94 registrants from the Royal Canadian Air Force, Royal Canadian Navy, Canadian Army, CFARS, US Army, US MARS (Military Auxiliary Radio System—the American equivalent of CFARS), US coast guard, UK Army Reserves, and the UK Defence High Frequency Communication Service (DHFCS). The final format was neither traditionally military nor CFARS; rather it used a competition format with a command structure and command net. Each team was issued a list of all call signs and locations, email addresses, and authorized frequencies for each phase of the exercise.

The 24th of October 2013 was a controlled slow-start to establish the net with all teams using single side band (SSB). All participating units that managed to make contact with the NCS received their first point. If a unit was unable to make contact on one of the four frequencies the NCS was monitoring, teams could request the NCS to temporarily monitor a different frequency. In those first three hours, teams made contact with the NCS from locations including Newfoundland, Falkland Islands, Georgia, and the UK. Very few teams from out west other than Edmonton made contact during those first three hours. Ironically, the after action points from west coast teams informed me that the start time was too early, while UK teams stated that the start time was too late.

The next phase had all teams with automatic link establishment (ALE) capabilities divided into separate nets with specific frequencies designated for each. The ALE nets were designed to include a similar level of difficulty based on distances. ALE capable teams were tasked to make contact with as many other teams from their net as possible. Once they had exhausted their net, they joined the remainder of the SSB only teams. On designated frequencies, SSB only teams attempted to make contact with as many other participants as possible by using their knowledge of locations and call signs, and by manipulating their own antenna. Each contact was worth a point.

Earning points on the second day was more difficult and the competition noticeably intensified. All participants were directed to use SSB only and all contacts were prescribed. Initially each team was paired with another from a different geographic area.

Continued on page 28



CFSR, the winning team, with HCol Hart

Ex NOBLE SKYWAVE — Continued from page 25

Paired teams contacted each other via email and used frequency prediction software to determine the best frequency from the list of all authorized frequencies. Once two-way voice contact was established, the NCS was notified, and the participants received their next target. As the day progressed, contacts were made more and more quickly and teams became increasingly proficient—the NCS had trouble keeping up!

At the end of the second day, all stations were directed to tune into the NCS. MGen Neasmith, the Branch Leader, personally announced the top three teams: CFSCE in 3rd place, Valcartier 2R22R in 2nd place, and CFJSR in 1st place. The VCDS, LGen Thibault, then offered his thoughts and sincere congratulations to all stations. It was our honour to have HCol Hart, a WWII veteran who served as a communicator in the Dieppe Raid and is currently the oldest serving Canadian in uniform, deliver the closing comments—his voice was clear and his radio procedure was impeccable.

Exercise NOBLE SKYWAVE successfully engaged local units in signalling activities during C&E week and Celebration 2013. Further, it developed Branch esprit-de-corps and fostered healthy competition. With only a few contacts separating the top teams, there was fierce rivalry which was particularly noticeable between the first and third place teams—both from Kingston. The after action points were overwhelming positive with units wanting to know if Exercise NOBLE SKYWAVE will become an annual event. Participating units informed me that establishing communications internationally boosted confidence at the detachment level and was a great, hands-on learning experience for junior members. Arguably the greatest success of NOBLE SKYWAVE was that it helped revitalize HF skills



41 Signal Regiment, a reserve unit from Calgary, participating in the exercise

in units across Canada. After establishing national and international communications on tactical level communications within a couple hours, 2300 contacts were made in less than 16 hours over two days.

The military communications branch has strong historical ties to HF radio. As communicators, we know HF radio is cost-effective, versatile, functions well in the Arctic, and stands at the very foundation of what we do. This capability is still relevant and should not be lost as we move toward new technology. HF radio should feature more prominently in our future set of capabilities.

*CFARS (Canadian Forces Affiliated Radio System) is a Canadian Forces organization consisting of licensed HAM radio operators, the majority of whom are ex-military. They provide an auxiliary communications capability to augment the Canadian military communications, and assist civilian authorities in times of crisis. For example, CFARS was activated during the recent Calgary floods. In a country as large as Canada, they are an invaluable resource. ■



The NCS det and CFSCE participants

Semaphore to Satellite

BRIGADIER GENERAL (RET'D) GEORGE SIMPSON, CHAIRMAN OF THE EXECUTIVE COMMITTEE OF SEMAPHORE TO SATELLITE

2⁴ OCTOBER 2013 MARKED THE 110th Birthday of our Branch. On that date at the Home Station Officers Mess a remarkable story was launched of the men and women who have contributed to Canada's nation-building at home and overseas as members of the

Communications and Electronics Branch and its founding elements.

Semaphore to Satellite is nearly 600 pages long—and is a captivating story of how the Branch began and evolved for over a century to become a world leader in its discipline. It's a never-ending story;

one that will never be completely told, but we must continuously try to do so and that's my challenge to you—to commit to succeeding the project team that has now disbanded after nearly four years of full-time volunteer work.

I had the honour to chair that committee and participate in the activities that resulted in the introduction of Semaphore to Satellite on 24th Oct in the presence of our Colonel-in-Chief, Her Royal Highness Princess Anne. It was a marvellous affair as Her Royal Highness deservedly recognized the more than two hundred all-ranks and guests who had contributed to the project as researchers, editors, fundraisers and donors and authors.

Thank you for that opportunity to serve our Branch. I had a four-year experience with a most magnificent group of men and women whose dedication and friendship I will never forget. What a great way to finally slip into retirement—with such joyous personal memories of a lifetime of associations and experiences.



Her Royal Highness is signing copy number 2 of the Branch History Book that will be kept in the Communications & Electronics Museum with the President of the Mess Committee of the Vimy Officers' Mess, LCol Mark Parsons and the C&E Branch Colonel-Commandant Michel Charron witnessing the occasion



Her Royal Highness is congratulating BGen George Simpson (retired) after awarding him on behalf of the Executive Committee of the Board of Governors for the Branch History Project, with the first Colonel-in-Chief Commendation ever presented



Her Royal Highness is presenting copy number 2 of the Branch History book to Maj Mike DeNoble (retired), Director of the C&E Museum



The author of Semaphore-to-Satellite BGen Bill Patterson (retired) is presenting copy number 1 of the Branch History Book to Her Royal Highness, with the Colonel-Commandant in the background

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THALES



BGen Kevin O'Keefe (Ret'd)



110TH ANNIVERSARY MEMORIES



110^E ANNIVERSAIRE MEMOIRES

Home Station Kingston • Foyer Officiel de Kingston

100 person Guard of Honour at Battery Park
La garde d'honneur de 100 personnes à Battery Park



Royal Salute given to HRH
Le salut royal donné à SAR



HRH meets former MP Kingston & Islands, Peter Milliken and current MP, the Honourable Ted Hsu
SAR rencontre l'ancien Membre du parlement de Kingston & Islands' Peter Milliken et le Membre actuel du parlement l'honorable Ted Hsu



HRH meets Kingston Mayor Mark Gerretsen at the Opening Reception
SAR rencontre le maire de Kingston, Mark Gerretsen



HRH greeted by Colonel-Commandant Charron at the Kingston Airport
Le Colonel-Commandant Charron rencontre SAR à l'aéroport de Kingston



General Salute given to the VCDS, LGen G.R. Thibault
Le salut général donné au VCMD, le Lgén G.R. Thibault



Saluting during the playing of the Last Post and Reveillé at the C&E Branch Memorial Ceremony. Recent Afghanistan veteran, Cpl Gunter G.R. from CFJSR, escorts HRH for the laying of a wreath
Le salut pour la dernière sonnerie et le reveillé durant la cérémonie commémoratif de la Branche des C&E. SAR est accompagnée par le Cpl Gunter G.R. du RTIFC



Dr. David Pattenden of the Henderson Foundation reads the commemorative dedication to HRH
Le Dr David Pattenden de la Fondation Henderson lit le dévouement commémoratif à SAR



HRH presides over the Launch of Semaphore-to-Satellite ceremony
SAR preside sur la cérémonie du lancement de Semaphore-to-Satellite



HRH, Mrs Anne Henderson and members of the Henderson Foundation unveil the statue of Mercury donated by the Henderson Foundation in memory of the late Honourary Colonel Justice William Henderson, OBE. Former Colonel-Commandant, BGen Don Banks (retired) accompanies
SAR, Mme. Anne Henderson et les membres de la Fondation Henderson dévoile la statue de Mercure offert par la Fondation Henderson à la mémoire du regretté le Colonel honoraire et juge Henderson



HRH meeting the members of Ex MERCURY TREK II
SAR rencontre les membres de l'exercice MERCURY TREK II

HRH presents the Colonel-in-Chief Commendations to the members of the Executive Committee of the Branch History Project
 SAR présente la Mention éligieuse du Colonel-en-Chef aux membres du Comité exécutive du Projet de l'histoire de la Branche



BGen G.D. Simpson (ret)



BGen D. Banks (ret)



Col P.H. Sutton (ret)



Col J.A.P. Thomson (ret)



BGen R.P. Fraser (ret)



Col P.A. Tappin (ret)



Maj C.B. Bostwick (ret)



Maj S.E. Lipin (ret)



WO/Adj L. DeNoble (ret)



MWO/Adj T.R. Murphy (ret)

HRH presents the Colonel-in-Chief Commendations to the members of the Editorial Board of the Branch History Project
SAR présente la Mention éligieuse du Colonel-en-Chef aux membres du Comité éditorial du Projet de l'histoire de la Branche



Gen R.M. Withers (ret)



Maj W.J. Magilton (ret)



Col-Cmdt J.J.M. Charron



BGen D.P. Harrison (ret)



Maj D.G. Lawrence (ret)



Capt (N)/Capv J.E. Croft (ret)



Col C.E. Allan (ret)



LCol B.P. McDonnell (ret)



Maj W.W. Dyke (ret)



HRH in a VTC with serving Branch Members in Afghanistan
SAR en vidéoconférence avec des membres de la Branche en Afghanistan



HRH during the ceremonial turning of the SOD for the new extension to be constructed in 2014
SAR creuse la première pelleté cérémonial pour la nouvelle extension du Musée

Private tour of the Museum conducted by Museum Director, Major M. DeNoble (retired)
Tour privé du Musée dirigé par le Directeur du Musée, le Major M. DeNoble (ret)



HRH being escorted to displays of equipment from various units of the C&E Branch during the Open House
SAR est escorté aux divers présentations d'équipement des unités de la Branche des C&E durant la journée portes ouvertes



HRH unveiling the statue of the Poppy Project, an initiative from 21 EW Regiment that honours members of the Canadian Armed Forces who have paid the ultimate price while serving in Afghanistan.
SAR durant le dévoilement de la statue du projet des Cocquelicots, une initiative du 21^e Régiment de GE qui honore les membres des Forces armées canadiennes qui ont payé le prix ultime en servant en Afghanistan.





HRH presenting the scroll to Director RCCS, Col S.W. Hall, in recognition of the restoration of the RCCS insignia to members of the RCCS
SAR présente le certificat au directeur du CTCR, le Col S.W. Hall, en reconnaissance de la restauration de l'insigne du CTCR aux membres

HRH presenting the RCCS insignia to five selected members
SAR présente les insignes du CTCR à cinq membres sélectionné



The C&E Branch Leader, MGen D.G. Neasmith, presents HRH with the Colonel-in-Chief Medallion serial 99 designating the Commander's radio call sign 'Niner-Niner'
Le Chef de la Branche, le Mgén D.G. Neasmith, présente SAR avec le Médallion de serie 99 représentant l'indicatif d'appelle radio du commandant 'Neuf-Neuf'

HRH presenting the Colonel-in-Chief Commendation serial number 3 to HCol D. Hart, HCol 34 Signal Regiment
SAR présente la Mention élogieuse de Colonel-en-Chef au Col honoraire D. Hart, du 34e Régiment des Transmissions



*HRH presenting the Colonel-in-Chief Commendation to the C&E Branch Adjutant, Maj D.J.W. Bergeron
SAR présente la Mention élogieuse au Maj D.J.W. Bergeron, du Secrétariat de la Branche*



*The C&E Branch CWO, CWO M.M. Dinelle preparing the Royal Banner for presentation, assisted by the C&E Branch Member of the Year, MCpl M.J.C. Mailloux
L'adjuc de la Branche, Adjuc M.M. Dinelle prépare la Bannière royale pour la présentation assisté par le Membre de la Branche des C&E de l'année, le CplC M.J.C. Mailloux*



*HRH presenting the Royal Banner to the C&E Branch Subaltern of the Year, Lt J. Kauenhofen who received this honour on behalf of the C&E Branch
SAR présente la Bannière royale au l'officer subalterne de la Branche des C&E de l'année, le Lt J. Kauenhofen, qui reçoit cette honneur au nom de la Branche des C&E*







C&E Branch Awards Presented at the CFB Kingston • WO & Sgts Mess Les Prix de la Branche des C&E à la BFC Kingston • Mess des Adjuc et des Sgt



*MGen Neasmith and Col-Cmdt Charron presenting the Commissioned painting of the Royal Banner painted by Cpl Chris Gaudette to LCol Lambert and CWO Guenette
Mgén Neasmith et le Col-Cmdt Charron présentent la peinture officielle de la Bannière Royale, peinte par le Cpl Chris Gaudette au Lcol Lambert et l'Adjuc Guénette*

*MGen Neasmith, Col-Cmdt Charron, and CWO Dinelle presenting the C&E Branch Member of the Year Award to MCpl Martin Mailloux, ATIS Tech based out of the Canadian Det Tyndall, FLA.
Mgén Neasmith et le Col-Cmdt Charron et l'Adjuc Dinelle présentent le titre de Membre de l'année de la Branche des C&E au Cplc Martin Mailloux, Technicien SITA qui opère du Det. Tyndall en Floride*



*MGen Neasmith and Col-Cmdt Charron presenting a Branch Commendation for CFSC's Pub Dev Section, to LCol Lambert and CWO Guenette
Mgén Neasmith et le Col-Cmdt Charron présentent la mention élogieuse de la Branche à la section de Publication et Développement de l'ÉCFC au Lcol Lambert et l'Adjuc Guénette*

*LCol De Roij, CO 41 Sig Regt, presenting a framed collage celebrating 110 years of military communications in Alberta, to MGen Neasmith for the C&E Branch
Lcol De Roij, Commandant du 41e Regt Trans, qui présente un collage encadré célébrant les 110 ans de communications militaires en Alberta au Mgén Neasmith, de la part de la Branche des C&E*



*MGen Neasmith, Col-Cmdt Charron and CWO Dinelle presenting The C&E Branch Subaltern of the Year Award to Lt Jason Kauenhofen of CFJSR
Mgén Neasmith et le Col-Cmdt Charron et l'Adjuc Dinelle présentent le titre de Subalterne de l'année de la Branche des C&E au Lt Jason Kauenhofen du RTIFC*

*MGen Neasmith thanking Maj Ken Lloyd (retired), President of the Hamilton Signals Association for their fantastic support of Celebration 2013 and the display at the WO & Sgts Mess on this day
Le Mgén Neasmith remercie le Maj Ken Lloyd (retraité), Président de l'Association des signaleurs de Hamilton, pour leur support exceptionnel envers l'organisation de Célébration 2013 et leur exposition au mess des Adj et Sgt*





Joint Task Force North (JTFN) - Yellowknife
Force opérationnelle interarmées (FOIN) - Yellowknife



34 Signal Regiment, Montréal
34e Régiment des transmissions, Montréal



5th Canadian Division HQ J6 (Halifax)
QG de la 5e Division Canadienne J6 (Halifax)



Director Aerospace Equipment Program Management (DAEPM) - Ottawa
Directeur de la Gestion du programme d'équipement aérospatial (DPEAG) - Ottawa





Camp Eggers/ISAF HQ Signal Team

**Guest of Honour: Major-General D.J. Milner,
OMM, MSC, CD,
Commander CCTM-A**

LCol Pierre C. St-Laurent, MMM, CD – 2 Division HQ, Montreal
LCol Brian Maranta, CD - CJOC HQ, Ottawa
Maj Christian René, CD - NDHQ ADM (Mat) DAEPM R&CS, Ottawa
Maj Brian Taylor, CD - LFDTS HQ, Kingston
Capt Cyrille Chenevert, CD - CFJSR, Kingston
Capt Gordon Hodson – CD – 39 Sig Regt Det, Victoria
Capt Wendy Osmond – 8 WTISS, Trenton
Capt Eleftherios Vailas, CD – 1 CMBG HQ & Sig Sqn, Edmonton
MWO Lorraine Pilon, CD (ISAF HQ) – ACO Org (S), Naples
WO James Way – 41 Sig Regt, Calgary
WO Christopher Marsden, CD – 1 CMBG HQs & Sig Sqn, Edmonton
MCpl Christopher Lenihan, CD – 39 Sig Regt Det, Victoria
MCpl Reaghan Sunstrum - 41 Sig Regt Det, Calgary

Media

Capt Alexandre Cadieux, CD – NDHQ Adm PA, Ottawa

Music

« Heart of Oak » Royal Canadian Navy
« The Great Little Army » Canadian Army
« RCAF March Past » Royal Canadian Air Force
« The Mercury March » C&E Branch/RCCS
« Begone Dull Care » Royal Signals/CFJSR
« Il Silencio »



Program

24 October 2013 – Camp Eggers Gonzales Square

0650 hrs	Signal Team in Place (Private Ceremony)
0655 hrs	Guest of Honour Arrival
0700 hrs	Raising of the C&E Flag
1400 hrs	Coalition Force Signal Volley Ball Game (Harrison Square)
1850 hrs	Guests in place
1855 hrs	Guest of Honour Arrival (CCTM-A Commander, MGen D.J. Milner)
1900 hrs	Flags Half-Mast
1904 hrs	(One minute of silence for the three members who lost their lives in Afghanistan – MCpl Anthony Klumpenhower, MCpl Matthew McCully, Cpl Kenneth Chad O'Quinn) –
1905 hrs	Lowering of the C&E Flag
1906 hrs	Folding of the C&E Flag and presentation of the
Shadow	Box to MGen D.J. Milner
1910 hrs	Speech - MGen D.J. Milner
1915 hrs	Anniversary Cake Cutting/Meet and Greet