



eCommunicator - Fall 2018

Journal of 32 Signal Regiment

# eCommunicator

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# Merry Christmas

Warmest thoughts and Best Wishes  
for a Merry Christmas  
and a Happy New Year



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Front Cover Photos

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32 Signal Regiment — Signals Professional Development Day, Kingston, Ontario, December 2018.

## About the eCommunicator

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# Command Team

## Commanding Officer's Message

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One of the most gratifying experiences as the Commanding Officer is to witness the growth and professional development of our soldiers.

Since the last issue of the eCommunicator, members of our Regiment have undergone their various career and skills training courses. Our coop student-recruits and other new members have since completed their BMQ, BMQ-L and DP 1 training. They have gone through a metamorphosis transforming themselves from a civilian to a soldier, and then from a soldier to a Signaler; all within a matter of months! At the same time during summer, several of our commissioned members have attended the Canadian Forces School of Communications and Electronics (CFSCE), putting themselves through the vigorous physical and intellectual challenges of the BSOC to be qualified as Signals Officers. Their hard work was reflected in the promotions I conducted upon our return to the new training year.

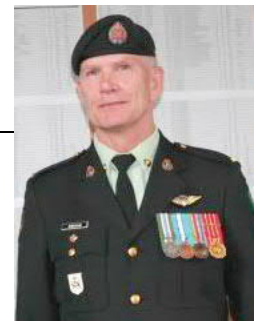
While the majority of our members were on training courses and other Full Time Summer Employment (FTSE) tasks, a few of our members participated in the "Cyber Challenge" organized by CFSCE. They took up five positions out of a total of forty that were offered to the entire CAF and their efforts were reflected in their team scores. Well done!

Since September, three of our captains commenced their staff officer training by attending the Army Operations Course (AOC) at the Army Staff College, at Fort Frontenac in Kingston. This is a one year long commitment. I expect them to bring the latest knowledge back to benefit our Regiment.

My congratulations to all that have applied themselves so well in their pursuit of professional progress and excellence. With a busy training year ahead, no doubt we will see their newly honed skills put to good use in supporting 32 CBG and other upcoming taskings.

## Regimental Sergeant-Major

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It is truly an honour to be selected as the Regimental Sergeant Major of 32 Signal Regiment. Thank you to the past RSMs who provided guidance and mentorship - I have big shoes to fill. I am truly in awe of the accomplishments and professionalism of the soldiers in this Regiment and pledge to continue the outstanding support to the Brigade and the Canadian Armed Forces as we strive to stay ahead of the cusp of a very technology based and fast evolving profession.

During the Brigade Commanders Conference the Regiment had the opportunity to showcase some of the services that we can provide, and it amazed all the COs and RSMs present. Your skills have always been in high demand and now that they know the capabilities that exist within the Regiment, you can expect even more requests for your services.

I have three requests of the Signallers of this Regiment:

Number One, Commitment: Now more than ever we need you here. One night a week and one weekend a month is ok. However, it's the other stuff that really counts - weekend and summer exercises, courses and RST instructor tasks. That is how we earn our keep. What we've done in the past is fantastic and we have to continue to set the pace and perfect our signals role.

Number Two, Professional Development: Education, Training, Employment Experience and Self-Development. These are the four pillars that make up Professional Development during your career. We have all heard knowledge is power. Your knowledge and skills are transferable from your civilian life to the military and vice versa. Strive for excellence in all your endeavours and never stop



learning. We all make mistakes but don't dwell over them. Learn from them and become a better person, soldier and leader for having made them and move on.

Number Three, Physical Fitness and Mental Health: This is an essential and critical component of operational readiness and of military duty. We must be fit to fight both physically and mentally. Have a battle buddy and look after each other. Don't be ashamed to approach your chain of command for help. The CAF Fitness Profile is eventually coming to the PRes. My challenge to you is to shoot for the incentive levels and to push yourself every day to live a healthy and active lifestyle.

With the Christmas holidays just around the corner, please take the time to relax and spend it with family and friends, enjoy your holidays and recharge your batteries for the busy training year ahead. Once again, I am truly honoured and look forward to the best years of my career as RSM of this outstanding regiment.

VVV

## Honorary Colonel Jim Leech, C.M.

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Our new team comprising LCol Alfred Lai, Capt Roger Caron and CWO Steven Graham have now had the full summer and fall training periods in their new command positions — all reports are that the transition has gone smoothly although the pace has not let up for the Regiment. HLCol Ken Lloyd and I enjoy our bi-monthly get together with the CO, DCO and RSM to discuss Regimental affairs.



Given that this is the last letter of the year, I want to reflect on two themes:

### One Hundred Years Ago

This November marks the 100th anniversary of the signing of the armistice agreement that formally ended World War 1. Also known as the Armistice of Compiègne from the place where it was signed, it came into force at 11 a.m. Paris time on 11 November 1918 ("the eleventh hour of the eleventh day of the eleventh month") and marked a victory for the Allies and a complete defeat for Germany, although not formally a surrender.

The modern world had not seen such carnage as was endured during The Great War: the total number of military and civilian casualties was about 40 million (estimates range from 15 to 19 million deaths and about 23 million wounded military personnel), ranking it among the deadliest conflicts in human history. Close to 61,000 Canadians were killed during the war, and another 172,000 were wounded. Many more returned home broken in mind and body. The then colony of Newfoundland, who patriotically was the first to join the war effort, lost an entire generation of its men (1,305 killed and several thousand wounded) in one short battle.

This armistice was supposed to end the "war to end all wars"; but we know that did not work out. In fact, it was only a short 21 years later when the world was plunged into another war on an even greater scale.

With 20/20 hindsight it is easy to be critical of WW1 — after all, the location of the first soldier killed is only a few metres from the location of the last soldier (a Canadian) killed; in summary, four plus years of strife, millions killed, the front moved only a matter of metres and hostilities recommenced two decades later!

But instead of dwelling on the stupidities of war, my mind turns to the gallantry of the brave men and women who answered their country's call to defend freedom and our democratic way of life. They are our country's real heroes and we need to celebrate their lives and sacrifices. That is why I get so upset with some who believe that Remembrance Day and the wearing of poppies just glorifies war.

Not true. I will proudly wear my poppy and even more proudly participate in Remembrance Day ceremonies. It is our duty to honour their sacrifice for Canada.

## Regimental Association

As we have stated in the past, the Regimental Association is extremely important to our soldiers and cadets. Funds raised by the Association make a real difference. In 2018, the Association has disbursed over \$35,000 in support of the Regiment for student bursaries, Regimental/Cadet funds, the Signals band and the Vintage Signals Team.

These funds have made a significantly positive impact on the lives of our soldiers and reinforced the Regimental “esprit de corps” — everyone in the Regiment is most grateful to those who give annually to help out with the unfunded portions of the Regimental expenses. Those “extras” are meaningful.

Over the past few years, we have been fortunate to have a few significant donors who have allowed us to provide this level of support; but if we are to continue to help our soldiers, it is imperative that we broaden our funding base. To that end I ask each person who reads this letter to make a tax-deductible donation of at least \$200 and to help expand our funding base by asking at least two of your friends/family to also support our soldiers.

## Velox Versutus Vigilans

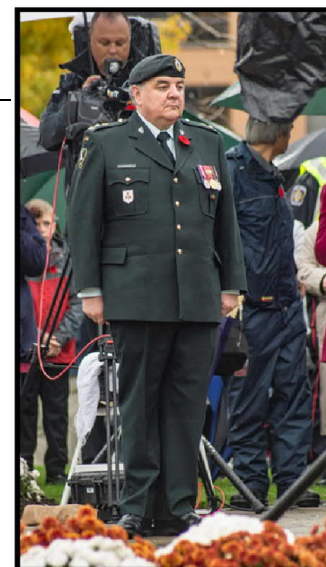
### Honorary Lieutenant Colonel Ken Lloyd, CD, M.A.

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“You are the Signals guys! I saw you in Arras, can you come to Scugog?”

From the Centennial Celebrations in Vimy and Arras to Scugog, Ontario the name of 32 Signals and the Vintage Signals Team knows no boundaries!

A role of the Honouraries is to seek opportunities that may benefit the Regimental family. In achieving this role, the Regimental outreach project continues to grow and expand. For many years our Signals name has been carried into the public domain by our Toronto Signals Band, our Cadet Corps and the Jimmy and Associates. These organisations support themselves and receive funding from the Regimental Advisory Council (RAC). This year the Vintage Signals Team has also received Advisory Council support and carried the Regimental name to conferences in Berlin, Brussels and in 2019 has been invited to the Global Leadership Summit in Davos, Switzerland (more information on these events later).



HLCol Lloyd, 32 Signal Regiment, takes the salute at the Oakville and Bronte Remembrance parades 2018

Part of the outreach includes representing the Regiment and Signals at parades and functions bringing the Signals message to outside units and Civic functions that the CO and his command team cannot attend. A recent ceremony in Oakville was for the appointment of LT(N) Shane Crawford as the CO of RCSCC Oakville. Shane and his wife Lena are retired members of 709 Comm Regt.



Change of Command for Oakville Naval Cadets 178 RCS CC. Mayor of Oakville with Burloak Naval Vets, HLCol 32 Signals and Oakville legion Chair.



Our Regimental outreach continues to put our name into more ethereal mediums with participation in Exercise Noble Skywave, an international High Frequency Radio exercise which included stations from Norway, South America, the United Kingdom as well as our own 32 Sig Ops and our Vintage Signals Team. The Team worked closely with Regimental Ops who facilitated registration and callsigns.

Within in the Communication and Electronics Branch, their new Website includes a page for The Vintage Signals Team and 32 Signals.

<https://cmcen-rcmce.ca/vintage-signals-team/>

The new page features our team at the 100 days event at Old Fort York, the team in Berlin, at the Borden Air show and with 142 Air Cadet Sqn.



Ex Noble Skywave — Rick Little of the Vintage Signals Team on board HMCS HAIDA.



HLCol Stafford and Capt Brian MacLennan with WO Limbert at the Sigs CP.

Visiting the Regiment in the Field is one of the pleasures of being an honorary. Thanks to Sgt Spessot with the 8 pax I was able to attend Meaford and see members of the Regiment and some of Ex SW18. Our party consisted of HLCol Stafford from the Royals and Maj Saunders from the Staff at Meaford. We were very well looked after and were able to speak to the CO of the Royals and also his RSM and some of the soldiers who had nothing but praise for the Regiment's work.

The occasions for combining the Recruiting efforts of the Regiment are increasing especially with the 100 Days event at Old Fort York. The Vintage Signals Team with Cpl Hamel and his team demonstrated both modern and vintage equipment.



A role of the Honories is to support morale and welfare, the continuing support for our members; our family and our veterans. Maintaining this aim is on going and wherever you see this support is needed, please make sure we know. The Regimental informal network works quite well, but things can be missed. My personal email is [kenlloyd.mediator@gmail.com](mailto:kenlloyd.mediator@gmail.com).



# Honouraries Briefing

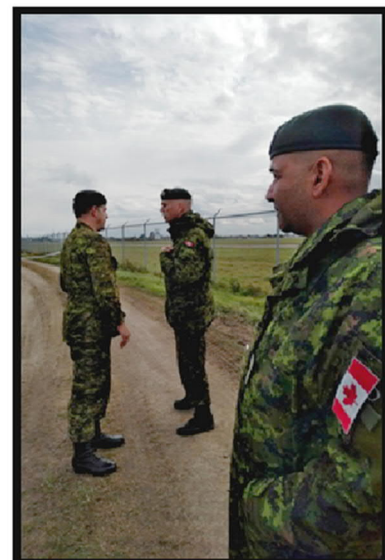
Division Honouraries Orientation Day | Saturday 20-21st October

“Good Sigs, best event of the day. “The Honouraries Orientation day attracted Honourary Colonels from across the Division to receive the latest updates on international and domestic Security, policy framework and the managed readiness plan. The topics and subjects roamed freely across hybrid warfare and the balance of procurement. Into this mix, the conference participants were invited to see the ‘brightest and best in Communications technology’ and we moved



out to the back lot of Downsview where 32 Sigs waited to greet the conference members. 2Lt Rankin rose to the occasion assisted by Sgt Pham. Many of the participants were unfamiliar with the Signals capability and

were impressed with briefings from Sgt Palik and Sgt Spessot. The consensus was that the visit to 32 Signals was both informative and worthwhile. The Divisional Commander built on the Line of Effort briefing by explaining his vision for a career path within the military called “The Journey” and how the gap between the recruitment tempo and junior leaders could be filled. A very worthwhile event.



## From the Regiment Awards and Promotions

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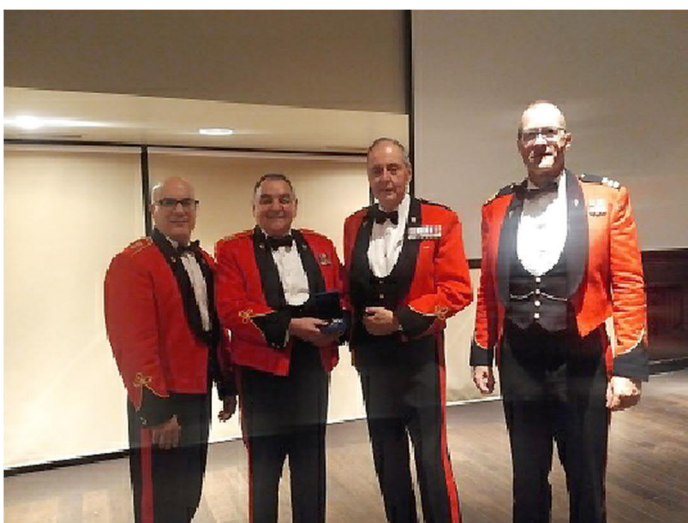


Sovereign Medal for Volunteers

This year the Mixed Signals Dinner was extra special for a couple of reasons.

First, the assembled guests were honoured to receive a visit from Brigadier General William Richard (Ret'd). But another special event took place when former Commanding Officer Kenneth Lloyd, CD was presented with the Sovereign's Medal for Volunteers. Honorary Lieutenant Colonel Lloyd was nominated for this award by members of the Vintage Signals Team.

HLCol Lloyd was nominated because of the work undertaken to tell the unknown stories of Signallers.



HLCol Lloyd looked around when the last World War One veteran passed away. He realized then that something needed to be done to ensure that the stories of the Signallers from World War Two were not lost to the mists of time.

As a result he put together a team of dedicated former Signallers from 31 Signal Regiment as well as 32 Signal Regiment. Through his dedicated work, the Team have shared the Signals story at Vimy Ridge on the centenary of the battle, as well as in Berlin. As well, HLCol Lloyd represented the Team at a language conference in Brussels in September.

As part of his commitment to ensuring that our story is remembered, the medal was well earned.

When he was presented with his award HLCol Lloyd gave a short speech to those assembled. Always a humble man, he said, "I accept this honour not for myself, but on behalf of the Team."



## From the Regiment

### Awards and Promotions

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#### GREG STASYNA PRESENTED PRESTIGIOUS EMERGENCY MANAGEMENT AWARD

Corporate Emergency Management's Greg Stasyna received the inaugural Emergency Management Exemplary Service Award from Public Safety Canada. The Honourable Ralph Goodale, Minister of Public Safety and Emergency Preparedness presented the award to Greg, along with 16 other recipients from across Canada, at the ceremony in Ottawa on May 24.

The award is for individuals or groups that have distinguished themselves through exemplary actions and contributions to advancing emergency management.

Greg was honoured for being instrumental in his efforts in Emergency Management from his work in the City of Toronto, including operations with the Toronto Police, Office of Emergency Management and leading many large-scale municipal exercises at the Regional and local municipal level. His planning led to the Municipal Emergency Control Groups that are better prepared to respond to the needs of our communities in a crisis.



Greg is a key member with the Emergency Management unit, and has worked with York Region for approximately eight years with plans to retire soon. He has more than 37 years of municipal experience and 33 years of experience with the Department of National Defence. Greg is also known as "Lieutenant Colonel Gregory Stasyna", (now retired) having previously served as a Commanding Officer in the Canadian Armed Forces.

Congratulations on your award Greg!



# From the Regiment

## Re-dedication Ceremony of Coronation Park

Toronto | November 10th, 2018

The Lieutenant Governor of Ontario, Honour Elizabeth Dowdeswell, joined Toronto Mayor John Tory, members of the Canadian Armed Forces and the Commonwealth Consular Corps for a special re-dedication ceremony of Coronation Park on November 10, 2018.



The Lieutenant Governor offered remarks at the Re-dedication Ceremony and inspected a 100 person guard made up of soldiers from the Royal Regiment of Canada.

Her Honour also joined Toronto Mayor John Tory in unveiling a new sign.



### About Coronation Park

The park on the waterfront first opened on the day of King George VI's Coronation, May 12, 1937. As a living war memorial, the groves of Coronation Park commemorate the



service and sacrifice of Canada's military forces, principally those from the Great War (also known as the First World War).

144 trees were planted to commemorate Canada's military in honour of the King's coronation. This was the largest tree planting of its kind in Canada at the time. Each tree was ceremonially placed by veterans of the Canadian Expeditionary Force. On August 1, 1938, veterans returned to simultaneously unveil plaques, with one tree to commemorate each unit that fought. During the 1939 royal visit, war veterans and the Men of the Trees and Toronto students planted 123 sugar maples along Remembrance Drive as the royal vehicle passed by.

The park is an important commemorative space and is possibly the largest First World War memorial in Toronto. It is being restored to its original design as a permanent memorial to Canada and Toronto's war effort.





# From the Regiment

## 17th Veterans Luncheon

Oakville | November 5th, 2018

17th Veterans Luncheon by Access Abilities, attended by the Vintage Signals Team with 32 Sigs family.

The Vintage Signals Team enjoyed a wonderful surprise at the annual Access Abilities Veterans Luncheon in Oakville. The Minister for Veterans Affairs had just visited our display and tried a magneto phone with the Oakville MP when our next visitors were our own LCol Jack Lee (Ret'd) and CWO John Spiers (Ret'd).



The Premier of Ontario with 32 Brigade Commander, The Minister for Veterans Affairs and local Members of Federal and Provincial Parliaments with Civil dignitaries attended the 17th Veteran's Luncheon in Oakville.



Within a few moments William Ko and Jim Kelly were seen with the guests making this a 32 Sigs family event.



# From the Regiment

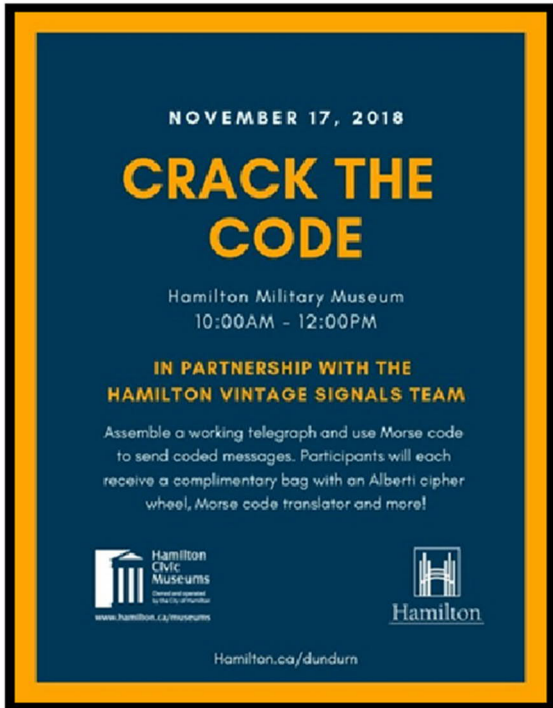
## Cipher Workshop at Dundurn Castle

Dundurn Castle | November 17, 2018

"I want to be a spy" said Callum, who came up from Baltimore with his family for the Cipher Workshop with The Vintage Signals team at the Military Museum in Dundurn Castle on Saturday 17th November 2018.

In partnership with the Hamilton Museum staff and the Cadets from 1626 (Signals) ACC, the Vintage Signals Team presented a workshop for visitors on the secret war of code breaking.

The Team gave an introduction to early code breaking and then guided visitors to use Morse keys and code wheels to send messages in cipher.



The Cadets of 1626 Army Cadet Corps, led by Capt Cel Petrini and Warrant DeJong assisted visitors at the event and demonstrated equipment. Museum staff lead by Luke DuCharme prepared the publicity material and enthusiastically took part in guiding the visitors in constructing the keys.

The presentation team of Terri McGillvray, Kirk Campbell, Rick Little, George Stal and Mike Leatham provided personalized coaching for the Alberti wheels.



This was the first joint venture with the Hamilton Museum and with the visitors' enthusiasm for further workshops, further events in the "Crack the Code" series will follow.



# From the Regiment

## Signals Birthday

CFB Borden | WOs' & Sgts' Mess | October 24, 2018

24th October 2018, a cake was cut, beverages were drunk and "Jimmy" was loyally toasted at CFB Borden Warrants and Sergeants Mess.

WO Whelan organized another Birthday bash for the Signallers of 1 Sqn and the Base 'Jimmies' to celebrate being a 'Siggie'.

HLCol Lloyd put up a replica of the first Signals flag flown in Borden and gave a quick overview of part of the Signals story. The questions from fellow Signallers are always an opportunity for learning and the Tech members in the group quickly got the Morse Code keys working and the faint clicking of keys added happily to the conversations. After the presentation there was an opportunity for members to explore and rediscover some of the vintage Signals equipment and share stories of the last time they had used such kit.

The presentation focused on the secret signals war and some of the techniques from the First and Second World Wars for dominating the ether and disadvantaging the enemy.

Topics that attracted interest after the presentation included the role of the German Moritz equipment and whether it was deployed in 1916 at Beaumont Hamel. If anyone has information regarding these, members would really like to know.

A super initiative, well done well done 1 Sqn Capt Caron and WO Whelan.



Photo: HLCol Lloyd with WO Whelan presenting during the Signals Birthday at CFB Borden WOs' & Sgts' Mess



Photo: First slide of the Vintage Signals Presentation

# Op LENTUS: Exploring Domestic Disaster Response as an Exercise of Defence Policy within a JIMP framework

by Sgt Sevan Mardirossian

We live in an age where fears about climate change, natural resource exploitation and global terrorism abound, as well as international and transcontinental migration due to war, poverty and political persecution. It is therefore not surprising that Canada has become a refuge and a mecca for people seeking a better and more peaceful way of life. However, Canada's varied and expansive geography, coupled with its relatively small population and diverse demographics require a unique mixture of national identity and national pride. In order to manifest a sense of unity of purpose in maintaining a certain quality of life for ourselves and future generations, we must learn to become better stewards of the resources and the riches we have; be they cultural, economic, intellectual or natural. All of these elements are linked to Canada's security and its ability to defend itself against foreign or domestic threats to our collective values and way of life.

OPERATION LENTUS (Op LENTUS) is the Canadian Armed Forces (CAF) response to threats posed by natural disasters in Canada and it follows an established plan of action to support communities in crisis; whether caused by floods, forest fires, ice storms, or hurricanes. This essay discusses how these operations support Canada's Defence Policy and how they are in line with CAF goals and objectives. Finally, it examines the potential that exists for the application of the Joint Interagency Multinational and Public (JIMP) construct, and explores how and when these have been employed.

As Canada's Defence Policy states, the CAF must always be ready to fulfill a wide variety of potentially concurrent missions and operations to support the objectives of "STRONG at home, SECURE in North America and ENGAGED in the world". The first of these mandates; and arguably chief among them; is



"STRONG at home". This includes the promise that Regular and Reserve "Forces are ready and able to assist Canadians in times of natural disaster and other emergencies, and search and rescue". (National Defence, A new defence policy for Canada, 2018)

Floods, forest fires and hurricanes are common to certain regions and seasons in Canada. The objectives of Op LENTUS are three-fold: to help provincial and territorial authorities when asked to respond quickly and effectively to severe crises that can occur without warning and to stabilize their effects thus helping Canadians resume their normal day-to-day lives as soon as possible following a large-scale Natural Disaster. While

these activities have taken place under different names in the past, Op LENTUS has become the name given to domestic disaster relief operations occurring each year beginning in 2013. (National Defence, Operations: Op LENTUS, 2018)

These have included:

- 2013 Southern Alberta floods;
- 2014 Manitoba and Northern Ontario flood relief and air evacuation;
- 2015 Kashechewan, Ontario air evacuation due to flooding and Northern Saskatchewan wildfires;
- 2016 Fort McMurray, Alberta wildfires;
- 2017 - 17-01: New Brunswick ice storm; 17-02: Kashechewan, Ontario flooding; 17-03: Quebec and Newfoundland flooding; Western Canada: British Columbia and Manitoba wildfires and air evacuations; and
- 2018 Manitoba and British Columbia forest fire, & British Columbia, New Brunswick and Kashechewan, Ontario floods. (National Defence, Operations: Op LENTUS, 2018)



In order to understand how Op LENTUS is linked to Canada's security and why it is significant, we must examine the CAF mandate to support these operations. As indicated above, Canada's Defence Policy clearly states the CAF responsibility to be responsive to the needs of Canadians within Canada during times of crisis.

Canada borders on three oceans, stretches across six time zones, and encompasses mountains, plains, forests and tundra. It hosts weather patterns that range from Arctic to moderate, from seemingly endless rains to drought, from numbing cold to heat waves. With all those landforms and weather types, the possibilities of severe weather and geological events are a constant reality. <https://www.publicsafety.gc.ca/cnt/rsrcs/pblctns/mrgnc-mngmnt-frmwrk/index-eng.aspx> (GoC, Natural Hazards of Canada, 2015)

According to the Government Security Policy, "the Government of Canada depends on its personnel and assets to deliver services that ensure the health, safety, security and economic well-being of Canadians and the effective functioning of government." (GoC, Government Security Policy, 2002)

Public Safety Canada is a government department whose "mandate it is to use various initiatives to identify risks, establish protocols and practices and create forums for interagency and intergovernmental dialogue and cooperation, necessary for the successful execution of disaster relief missions." Therefore, Canada's economic stability and national security depend on resilient critical infrastructure, which can easily be compromised by natural disasters. For this reason, Federal, Provincial and Territorial Ministers responsible for Emergency Management approved the National Strategy for Critical Infrastructure in 2010. This plan gives utmost importance to factors that could affect our food supply, electricity grids, transportation, communications and public safety systems. (GoC, Action Plan for Critical Infrastructure, 2018)

These well-established protocols demonstrate a robust government strategy to effectively deal with large-scale domestic crises. So how does Op LENTUS "plug-in" to this intricate system and where do CAF goals and objectives fit into this larger framework of government departments? In recent years, this question has been addressed by "Canadian Forces' adoption of a more coordinated, whole-of-government, comprehensive approach to operations, which incorporates JIMP aspects." (Brown & Adams, Exploring the JIMP Concept, 2010). In terms of the JIMP framework, it is important to note that critical infrastructure can be interconnected and interdependent or separate and independent within and across provincial, territorial and national borders. Interruptions of these services could result in "catastrophic loss of life, adverse economic effects and significant harm to public confidence". It is therefore gravely important that when the CAF is called upon to assist in disaster relief missions within national borders, that we are ready and capable of effectively executing that aid with urgency and in a manner that results in minimal disruption and destruction to private property or public infrastructure and assets. It is also interesting to note the Defence Policy directive to Anticipate, Adapt and Act; and how it is entirely applicable to the realm belonging to Op LENTUS.



The Joint aspect of JIMP was demonstrated most recently this Summer. From August 13, when the Government of Canada accepted BC's request for assistance with wildfires; until September 13, when it announced it no longer required CAF assistance; joint Army and Air Force equipment and personnel were deployed to fight fires in parts of BC.

This level of planning and coordinated action required an "Army Task Force [consisting] of 220 regular and reserve soldiers who participated in mop-up operations in [five towns]; and an Air Task Force [comprised] of a CC-130 Hercules aircraft, a CH-124 Sea King and a CH-146 Griffon

helicopter that were available to transport personnel and equipment, as well as to provide troops to help in mop-up operations to contain the fire's spread. The Air Task Force conducted 49 sorties which included reconnaissance flights over fire-affected areas and movement of personnel and equipment. The Canadian Armed Forces shipped 105,500 lbs of freight, transported a total of 115 passengers, for a total of 202.2 flying hours." (National Defence, Operations: Op LENTUS, 2018)

Next, we will examine the elements that satisfy the Interagency, Multinational and Public aspects of JIMP. Since 2011, Public Safety Canada, through the Minister of Public Safety and Emergency Preparedness, has two mechanisms that allow for seamless integration of various government departments and assist in coordinating efforts in response to emergencies: the National Emergency Response System (NERS) and the Government Operations Centre (GOC). "The GOC operates 24/7 to provide watch, warning, analysis, planning, logistics support and coordination across the federal government and with its partners, including provincial and territorial governments, non-governmental organizations, the private sector and international partners." (GoC, Emergency Management, 2018) From the military perspective, the Canadian Joint Operations Command (CJOC), coordinates the response with the respective regional joint task force throughout the operation.

With respect to the Multinational aspect of JIMP, while Canada and its Navy have been called upon to assist with hurricane relief within the US, it is also true that in the case of Op LENTUS specifically, this aspect of JIMP has not been satisfied to date. However, it is undeniable that the framework and context exists to allow that to happen naturally, if the circumstances were to require it. In other words, in the event of a Natural Disaster that Canada was unable to respond to adequately, or if critical infrastructure across National borders were to be impacted, "building on a longstanding tradition of emergency management and national security cooperation, Canada and the United States have undertaken initiatives to promote a more integrated approach to critical infrastructure resilience, including the movement of people and goods across the border during and following an emergency." (GoC, Can-US Cooperation on Critical Infrastructure, 2016).

This essay demonstrated the ways in which Op LENTUS supports Canada's Defence Policy of "STRONG at Home" by responding to crises caused by Natural Disasters in Canada. It is clear that protecting public health and safety, economic security and national security is consistent with CAF goals and objectives. Experience has proven that mission success requires the CAF to work collaboratively with key stakeholders, domestically and internationally, to work towards a common goal of protecting critical infrastructure, which if compromised, could be devastating to the well-being of Canadians and all others. By anticipating crises, responding effectively and taking measures to prevent them, we thereby Anticipate, Adapt and Act. Finally, this essay outlined the ways in which the JIMP construct has been utilized within Op LENTUS, and discussed how and when each element has, or has not, been employed. While it is true that much progress has been made in the area of Joint Interagency Multinational and Public collaboration in operations, to ensure long-term success, we must further develop and ratify existing agreements between Canada and the US, "work[ing] diligently and proactively on initiatives to enhance emergency preparedness, obtain predictive information and address complex and continually evolving threats." (GoC, National Electric Grid Security and Resilience Action Plan, 2016)

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# Technology Topics

## Software-Defined Radio (SDR)

by WO Richard Lacroix, CD



For several years now, I have been wanting to experiment with [Software-Defined Radio \(SDR\)](#). In layman's term, an SDR is a radio system where the traditional hardware components such as demodulators, mixers, filters and amplifiers, just to name a few, are instead implemented by software on a personal computer. The software is then interfaced with an external "RF front-end" which contains the antenna connection, band-pass filters and an analog-to-digital converter.

The concept of a "digital receiver" was first introduced by researchers at TRW's California laboratory, named Gold Room, in 1970. SDRs have been in development and in service in military communication applications since the 1980s. In 1984, E-Systems Inc. published reference to a digital baseband receiver "software radio" in their E-Team company newsletter. One could almost go as far as to argue that the Rockwell Collins HF-2050 receiver, produced for the Canadian Military (1984-1991), was one of the first early entry, hybrid receivers in this category as it was one of the first receiver to employ digital signal processing (DSP). In the early 1990s I had the opportunity to work with a Watkins-Johnson HF-1000 receiver. The receiver was somewhat of a disappointment. Don't get me wrong, the HF-1000's performance and features were good but less than a few months into service the owner found himself having to bring it to me so that I can put the unit on the bench and realign the internal frequency standard (TCXO). Once I had the TCXO realigned the receiver was back on frequency and back in service with its proud owner.

### SDRplay

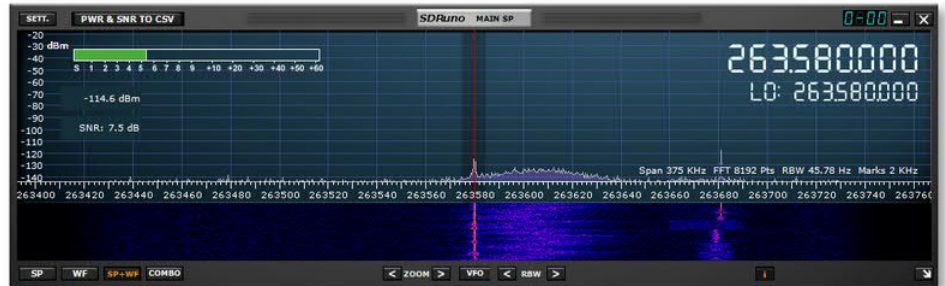
Until recently, most commercial and hobby SDRs worthy of providing solid performance coupled with flexibility have been reasonably expensive. A little over a year ago, a long time friend of mine told me that he had purchased an SDRplay RSP2 as a travel companion receiver. After much procrastination, I decided that it was finally time to jump in and experiment with this new technology. I was sceptical at first of the performance an SDR would deliver. I live less than 10 km from a major downtown metropolitan area. Historically, any general/average quality broadband receiver that I have owned have all suffered from intermod and IF front-end overload. In August of 2018 I visited my local Amateur Radio shop and decided to invest in my first SDR — an SDRplay RSPduo.

Having served alongside high-end commercial and military grade radios for over 30 years, thus far, the only word that expresses my satisfaction with the SDRplay SDR is WOW! This "little black box" is amazing. For people who know me well, at one time, I used to maintain a fairly impressive collection of high-end commercial and military grade receivers and transceiver. My collection used to span a wide range — Eddystone, Harris, Icom, Racal, Rockwell Collins, Rohde & Schwarz and Watkins-Johnson just to name a few. Over the past few years I have been pruning my collection down to something of a more reasonable scale, or should I say manageable, — from several racks of equipment down to a little over 2 racks and a few shelves — keeping only prize units in active service. Well, OK, define "prize units". At last count I still had over 60 different receivers/transceiver in my collection.



Let the games begin. I am primarily a VLF/LF/HF band user — 10 kHz ~ 30 MHz. For my first SDR test, I put my new RSPduo head-to-head with my Harris RF-590 and Rockwell Collins HF-2050. I have to say, the RSPduo is a pretty good contender against these \$15,000.00+ military receivers. So far, I am impressed.

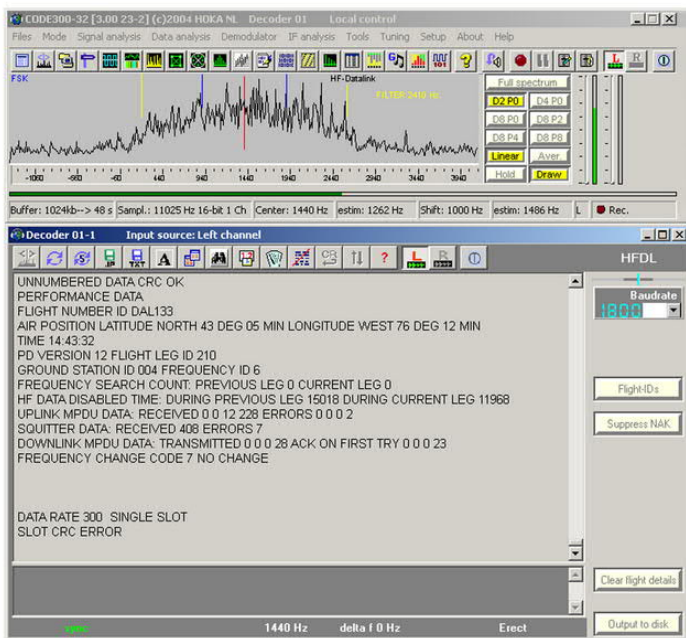
For my second test, I decided to put the RSPduo up against my ICOM IC-R8500 in the UHF/LOS SATCOM band (225 ~ 400 MHz). Thus far, other than my LST-5 and AN/URC-111, the only other receiver in my collection which has been able to intercept the Brazilian pirate radio operators on UHF SATCOM has been the ICOM. Now I am really impressed. The RSPduo is intercepting UHF SATCOM.



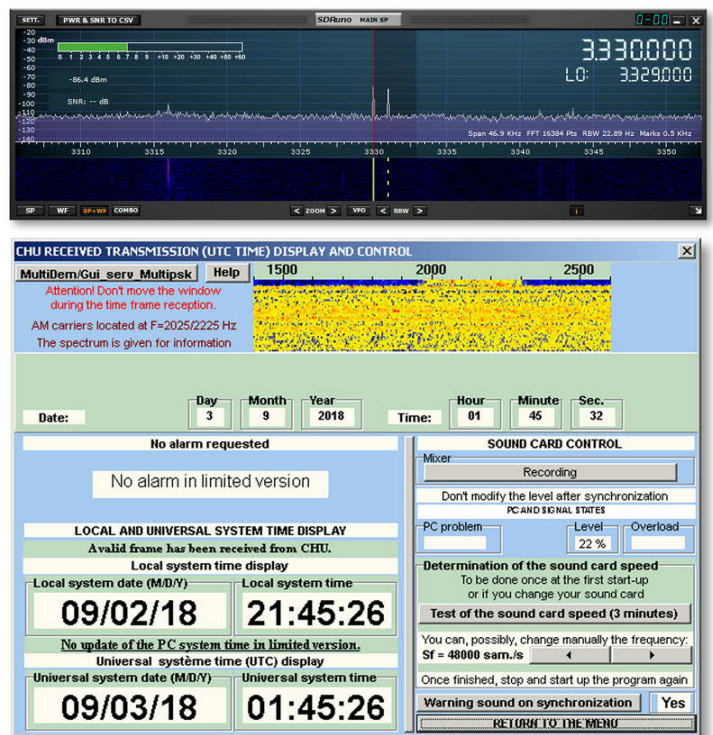
UHF SATCOM "Brazilian radio pirates" at 263.580 and 263.680 MHz

Hummm, so, what about data you say? With the help of [VB-Audio's VB-Cable](#), routing the audio from the SDR# application to a software decoder was a breeze. Test number 3 — I tuned the RSPduo over to an [HFDL](#) frequency and within seconds I was decoding aircraft and ground data transmissions.

Let's find something a little more challenging. I tuned over to time and frequency station CHU and after a little over 60 seconds I was decoding valid time code. This all software configuration, SDR plus software decoders, operated from a single desktop, is far more convenient than the traditional spaghetti of analog cables from receiver balanced audio outputs to external modems, demodulators or computer sound card. Another win-win for the SDR.



Above: HFDL data decoding  
 Top right: Time and frequency station CHU at 3330 kHz  
 Bellow right: CHU time code decoding



Last week, my old time friend and I were having dinner along with our traditional radio geek talk. The topic of [ADS-B](#) (1090) came up in the conversation. 1090 I say? What is that? I am not familiar with this. Being a basement band dweller, other than for the VHF/UHF aircraft bands and UHF/LOS SATCOM, I do not venture much above 30 MHz.

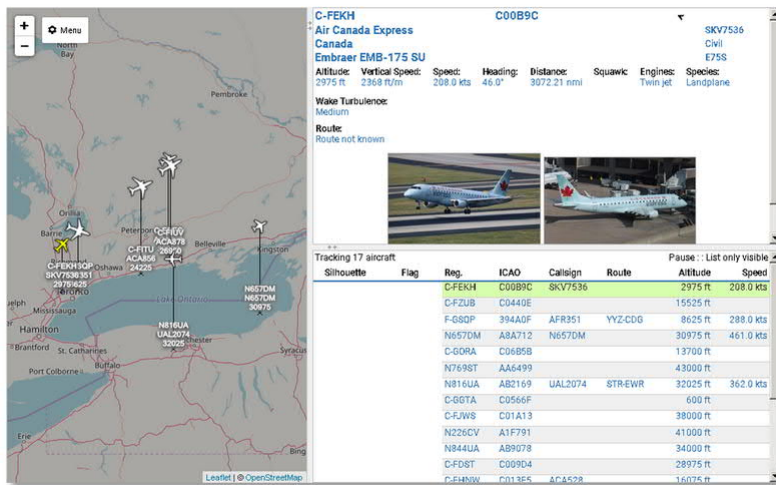


ADS-B vertical dipole

Taking the leap over 1 GHz. After a few hours of educating myself on the ADS-B topic I built an improvised 1090 MHz vertical dipole antenna. Test number 4 — ADS-B. Once again, the RSPduo was no disappointment. No dongles, amplifiers or special filters were used and within minutes I was decoding extended squitter data from aircrafts.

Reading some of the various RSP series of receivers on-line

Hex	Mode	Squk	Flight	Alt	Spd	Hdg	Lat	Long	Rssi	Mags	Tr
C8252D	S	6330	ACA462	4750	245	072	43.710	-79.532	-33.7	288	0
C809EA	S	5522	CFDTP	gnd	0	191			-34.1	19	3
A62E03	S			28000					-34.4	30	2
C822CA	S			6600					-33.6	457	1
A9784D	S	1734	DAL2610	39000	231	037	43.880	-79.523	-33.2	284	3
C813EA	S	6313	ACA547	7475					-32.7	412	2
C85F83	S	2206	GN7341	8625	293	220	43.602	-79.514	-32.2	1438	0
C8707B	S	2664	TSC966	7575	247	226	43.661	-79.850	-33.4	154	12
A9238A	S	7351	UAL683	32000	394	270	43.110	-77.924	-32.9	527	0
A95C84	S			41000					-32.8	19	0
C85342	S			4700					-33.4	648	45
C82F8B	S			4700					-32.8	845	15
4406DE	S	6205	AU066	37000	575	070	43.515	-79.409	-33.3	808	0
A00281	S	3510	AA11260	32000	394	270	43.892	-78.217	-33.4	519	7
484368	S	2522	NLM255	36000	421	208	43.613	-78.473	-33.1	921	0
C81795	S	7610	ROU1856	39000	569	072	44.023	-79.365	-33.4	615	1
C822CA	S	8515	UA022	15150	352	075	43.880	-78.871	-33.3	1053	2
A02736	S	3033	UAL2522	32000	382	300	43.990	-76.887	-33.4	1055	0
C85681	S	6342	TSC411	28775	433	074	43.882	-78.467	-32.5	2481	0
C8088B	S	2021		18400					-32.3	227	0
A97047	S	3351	JBU359	32000	393	275	42.992	-79.488	-33.8	1181	1
A0426P	S	3575	EDU3379	28000	391	251	43.093	-78.019	-33.9	388	13
C8080D	S	1350		13125	331	264			-33.7	847	1
440209	S	0550	BEL55J	22500	445	088	43.713	-77.851	-33.2	5024	0
A8AC35	S	7412	UAL102	35000	531	065	43.753	-76.468	-33.9	1458	2

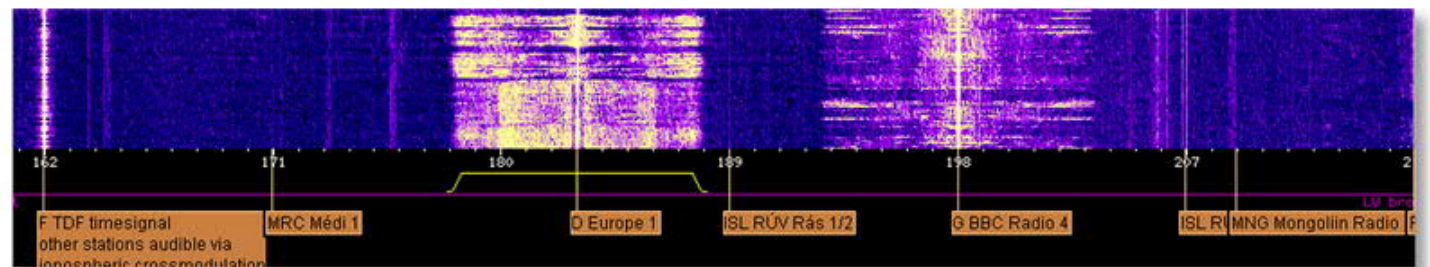


Virtual Radar processing ADS-B squitter data from dump1090

presentations, it appears that there are many more hours of enjoyment in store for me as I start to explore new capabilities such as NOAA weather satellite data just to name one of the many options. I have a feeling that my RSPduo might even replace my [Mason A-3B TSCM receiver](#). It is more than capable of the task at hand and a whole lot lighter to carry around.

For those who are not certain if and SDR is in the horizon for them or maybe would like to experiment with one first from the comfort of their own home, I highly encourage you to

try one of the many public access [WebSDRs](#) which are available on-line. One of my favourites is the one located at the University of Twente, Enschede, NL as it allows me to access VLF, LF and SWL content not available in North America. Hello BBC at 198 kHz, D Europe at 183 kHz or [Radio Mi Amigo International](#) at 6085 kHz. Yes, you read that correctly, the LF AM longwave broadcasting band (148.5 kHz ~ 283.5 kHz) is still very much active in Europe.



In my opinion, for the price vs. value, an [SDRplay](#) RSP receiver is a great investment. Sensitivity is very good and the receiver's front-end is holding up remarkably well to overload and intermod. Because of my geographical location I do suffer somewhat from overload originating from the AM broadcast band and this is predominantly noticeable in the SDR's VLF, LF and VHF low band regions. Adjusting the receiver's selectable built-in band-pass filters and RF attenuator easily compensates for the issue.

For now my RSPduo is in service and comfortably tucked away in my communication rack and will be accompanying me on future road trips. Perhaps some day I will have the opportunity to review an [RFSpace NetSDR](#) or a [PERSEUS](#) receiver. I find the NetSDR very appealing to my radio monitoring envy.

In the next issue, I will discuss the results of my ADS-B experiments and a co-linear coaxial antenna which I built in order to allow for long range reception of aircraft data.



### Testing Environment:

Receiver: SDRplay model RSPduo

HF antenna: Barker & Williamson model BWD-90

UHF/LOS SATCOM antenna: Dorne & Margolin model DMC-120

ADS-B antenna: home built, 136 mm vertical dipole (RG-58 coax)

About the author. Richard Lacroix has been a radio hobbyist since the mid 1970s and has been professionally active in both the commercial and military communication field since the mid 1980s. Richard has acquired over 30 years of experience in the radio and television broadcast and engineering field and today continues to enjoy applying his discipline in communication technology.

## Welcome Back

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We are happy to welcome back Sgt Leandro Mawbey-Puglia from his last tour on Operation Inherent Resolve, Iraq.

## Letters to the Editor

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I looked through the magazine. I think it looks great. The one thing I noticed with this type of service magazine is too much writing and not enough pictures. The magazine has lots of pictures which really tells the story of the 32 Signal Regiment. Congratulations. Will place their web site in my "Favorites".

Dallas

Hi Jack. Good meeting you too.

WOW that's a lot of newsletter. A lot of information, good for you.

You are to be commended.

I'm sure everyone appreciates your efforts.

Best regards, David Johns

Dear Jack,

Great issue! Enjoyed reading it!

Can't believe Marcel Mallia is retiring as RSM (I still have photos of him and me as cadets!) and that Ed Lukosius is gone.

Merry Christmas and best wishes for 2018!

Daniel

Thanks Jack. Got pdf copy OK.

What an excellent publication. Lots of Interesting info etc. and news about old friends & acquaintances.

My congratulations to all concerned. Merry Xmas to you, Tina & your boys.

Paul & Brenda Cowley

## Logistics Branch

The Canadian Forces Logistics Branch is now the Royal Canadian Logistics Service



It's official! The Canadian Forces Logistics Branch is now the Royal Canadian Logistics Service (RCLS). Governor General and Commander-in-Chief of Canada Julie Payette recognized the Royal designation on October 16, 2018, during the RCLS's 50th anniversary parade on Parliament Hill in Ottawa, Ontario.



Governor General and Commander-in-Chief of Canada Julie Payette inspects the Guard of Honour during the Logistic Branch 50th Anniversary Royal Designation Parade, held on Parliament Hill in Ottawa, Ontario, on October 16, 2018.  
Photo: Able Seaman Anne-Marie Brisson, SU07-2018-1249-021 (The Maple Leaf)

Read more at: <https://ml-fd.caf-fac.ca/en/2018/11/21551>

The complete Logistics Branch Newsletter is available online.  
<http://www.forces.gc.ca/en/caf-community-branches-logistics/newsletter.page>

Logistics Branch Kit Shop  
<http://www.canex.ca/military/military-kit-shops/logistics-branch.html>

"SERVITIUM NULLI SECUNDUS"

## The Corps of Royal Canadian Electrical and Mechanical Engineers

### RCEME Corps 75th Anniversary

In 2019, the Corps of RCEME will be celebrating its 75th Anniversary! In celebrating this historic occasion, the Corps is conducting a number of projects and activities that will be taking place in RCEME establishments across Canada and around the world.

RCEME members and friends can stay informed on how the Corps is moving forward and are invited to become involved in the 75th Anniversary Celebrations and render homage to 75 glorious years of existence!

<http://rcemecorpsgemrc.ca/events/75th-anniversary/>

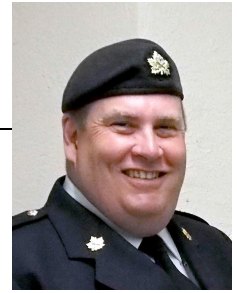




# Cadets

## 709 Signals Army Cadet Corps

### Commanding Officer's Summary by Major Steven Morgan, CD



September 5th marked the beginning of the 2018/2019 training year for 709 Toronto Signals Army Cadet Corps. We continue to train at St. Thomas Aquinas school on Wednesday evenings from 1830 to 2130, with some training activities also held at Fort York Armoury.

On Monday, June 4th, the Corps held its Annual Cadet Review (ACR) at Fort York Armoury. The cadets demonstrated their drill on the parade square, and awards were presented to recognize top performance of cadets throughout the 2017/2018 training year. The Reviewing Officer for the 2018 ACR was Captain Robert Carter CD of 32 Signal Regiment. The Toronto Signals Band once again provided musical accompaniment, and as always did a wonderful job. I am pleased to say I received many compliments on their behalf. We are very thankful for the support shown to us by all members of the Regimental family who attended. This date of next year's Annual Review is yet to be finalized but will be held either on the 4th or 10th of June, 2019 at Fort York Armoury.



During the 2018 summer break, many of our cadets spent between two and six weeks attending courses at Cadet Summer Training Centers in Blackdown and Connaught. Cadets completed courses in Drill and Ceremonial, Expedition, Marksmanship, Sports and Fitness, and General Training. The cadets returned home eager to share their newfound expertise with others. One of our Senior Cadets was selected to staff the 6-week Leadership and Challenge course at the Rockies Training Centre in Alberta and then returned to Alberta to participate in a National Expedition.

Our annual BIV exercise was held on the weekend of September 28-30th at Tiffin Conservation Area located between Barrie and CFB Borden. The Gold and Silver Stars, who are the senior cadets, focused on building improvised shelters, while the Green and Red Stars erected three-man tents and two-man hooches using shelter halves which they slept in Saturday night. The weather was cooperative, allowing the cadets to enjoy a great weekend of training.

One of the training requirements of the Army Cadet program is the completion of two expedition weekends. On October 28th-29th, for the first time both our Silver (3rd year) and Gold Star (4th year) cadets travelled to Kelso Conservation Area in Milton to practice their expedition skills. Cadets were split into small teams within their star levels with cadets from other corps. The Silver Stars spent the weekend hiking, biking and canoeing while the Gold Stars hiked and biked along the Niagara Escarpment. Each star level practised working together to pack and carry kit, prepare meals, set up and tear down BIV sites, and navigate from point to point along the route.



On Monday evenings, we conduct Marksmanship training at FYA, and we presently have a number of cadets competing to be selected for the two teams (five members per team) we will be entering into the Tartan Shoot to be held at Moss Park Armoury in January, as well as the regionally directed Zone Shoot, which will occur in February. The cadets taking part range in age from 12 to 18 and are distributed among five training levels. This year we have a large number of very promising shooters!

The corps marked Remembrance Day with several events this year. Cadets assisted Royal Canadian Legion Fairbank Branch 75 with their Poppy Campaign on Saturday, November 3rd. On November 10th, six Cadets assisted the Vintage Signals Team with their display at Casa Loma in support of the QOR Family day. The corps proudly participated in the 91st Sunrise Remembrance Day Ceremony at Prospect Cemetery on November 11th. The service started at 0745 at which time the officers and cadets marched in the parade to the Cenotaph, and select cadets assisted dignitaries with the laying of wreaths, as well as laying one on behalf of the cadet corps.

Once again, the Royal Canadian Military Institute has asked the corps for our support at their annual Family Day on November 18th. Select cadets will be tasked with supervising members' children while they watch the Santa Claus Parade from the balconies. This is always a special treat for those selected as they also enjoy a great vantage point to watch the parade and get to sample the great food RCMI always prepares for the members!

709 Toronto Signals and 700 David Hornell VC Squadron are currently in the planning stages of a March Break trip to Fort Drum, home of the 10th Mountain Division, and between the two corps the plan is to take 100 Cadets for seven days!

We have been fortunate this year to increase our officer staff. We promoted OCdt Adriana Monteleone to 2Lt and CV Jamel Magtira to the rank of OCdt. I have also had the pleasure of seeing a number of Signals Cadets join the reserve, most recently CV Kurt Rayala became Private Rayala with 32 Signals Regiment and his twin brother Kyle is just waiting for his final enrolment papers before he joins the ranks of the Regiment.

As a last note, I have been granted a one-year extension and will remain Commanding Officer of 709 Toronto Signals RCACC until June 2019.

For more information on our corps and to read about upcoming events, please visit our new website: <http://www.709cadets.ca/>

and Facebook page: <https://www.facebook.com/709army>

On behalf of the Officers and Cadets of 709 Toronto Signals Cadet Corps, I would like to thank 32 Signal Regiment and the Regimental Family for their ongoing support.

Wishing you and your families a safe and happy holiday season.





# Cadets

## 2250 The Muskoka Pioneers RCACC

by Capt Laura Pepper, Commanding Officer, 2250 The Muskoka Pioneers RCACC



Photo: courtesy of 2250 The Muskoka Pioneers RCACC

2250 The Muskoka Pioneers Royal Canadian Army Cadets didn't let an early November snowstorm stop them from holding their annual overnight Vigil at the Bracebridge Cenotaph 10-11 Nov 18. Cadets from 2250 braved the cold winter conditions and rotated their posts throughout the night to silently reflect and honour our past and present military members for their service. Cadet Sgt Ethan Black from 2250 was chosen to accompany members of 32 Signals Regiment who maintained the honour guard at the Cenotaph during the Remembrance Day Parade & Service.

# Cadets

## 142 Mimico Determination Squadron

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by Major Ric Rangel-Bron, CD

75 Years and counting!

142 Mimico 'Determination' Squadron has just embarked on our 76th year of training young women and men to become outstanding Canadian citizens! We look forward to what the next 75 years will bring our youth.



This last year has been very interesting for all members, from our two FTX's — Ex Extant and Ex Pertinacity — the Christmas and Awards Mess Dinners, to our March Break Trip — Exercise Canadian Invasion 2018 Old Blighty to the United Kingdom — we have been quite busy!

In addition to our regular training activities, we have also been busy with the Regt participating in the Remembrance Day Parade, Change of Command Parade and the Regiment's Freedom Of The City Parade, to name a few. We are proud to be affiliated with 32 Signal Regiment and look forward to the day when NDHQ grants our request for the Cadets to wear the Signals Cap Badge.

For the Cadets the training never ends, or so they feel! That said, we try to make it as enjoyable as possible, mixing in a variety of training techniques, opportunities for them to take the lead, and, of course, some "training" that is simply fun!

This year we have seen dozens of our Cadets successfully complete Cadet Summer Training Camps located across the country. We have four new pilots in the Squadron, two of whom are Power graduates and two who are Glider graduates. We have a graduate from the Advanced Aviation programme, graduates from Drill & Ceremonial, Sports & Fitness Instructors, and a number of junior Cadets who have successfully challenged and graduated from the General Training programme. Congratulations to all of our Cadet graduates!

The 2018 – 19 training year is equally packed with opportunities, exciting challenges, hard work and we hope lots of enjoyment for all.

So far this year we have had a gliding weekend at CFB Borden, where Cadets have the opportunity to be taken up for flights. The Cadets spent the weekend in the field on a survival exercise in the woods a couple hours north of Borden. This weekend of field work allowed Cadets to learn a variety of skills, from starting fires using twigs, building a 'hooch', trapping, skinning and cooking small animals, and a number of other survival skills that are required in the RCAF "downed Airman" training. In addition to the survival skills, Cadets enjoyed fine dining on rations, including all of the joys of preparing their rations. Of course, small taskings to develop and fine tune leadership skills are embedded throughout the training, so everyone from Leading Air Cadet (Private) to Chief had opportunities to either learn new skills or hone those they already possess.

Community service is another cornerstone of the programme, and our Cadets have more than stepped up to the plate to serve others, and this will continue throughout the training year. From assisting our local Royal Canadian Legion Branch 643 in Poppy distribution, food bank collection, to most recently joining Op Raise A Flag at Sunnybrook Hospital on November 10th, planting over 3,000 Canadian flags on the grounds surrounding the Veterans Wing, joining others in ensuring that our Veterans woke up to a sea of 47,000 Canadian flags!

Remembrance Day is also very important to our Cadets, so important that we attend three Remembrance Day Ceremonies in our community. 142 SQN is honoured to join the Veterans of RCL Branch 643 at their Remembrance Day Ceremony on the morning of the 11th. Following that ceremony, the Cadets march to the Vimy Memorial Parkette on Lakeshore Blvd W for an afternoon ceremony. Additionally, 142 SQN is the senior Cadet Unit to participate in the annual Ceremony of Remembrance at the Veterans Memorial at Queen's Park. For the last five years, select Cadets have been invited to



participate at Queen's Park, joining other select Cadets from two Units, performing a variety of roles — from 'ambassadors' and 'greeters' for the Veterans and citizens who attend, to 'wreath escorts' and youth representatives reciting In Flanders Field and Canada's Youth Pledge in both French and English. The 142 Cadets continue to make us proud!

Of course, everywhere we go we brag about our affiliation with 32 Signal Regiment, RCCS, and are, we dare say, the envy of many of our fellow Cadet Squadrons and Corps. The reputation of the Regt is held in high regard in the Cadet movement, a reputation that has been enhanced by the good works of LCol Lloyd and his Vintage Signals Team who have toured and engaged thousands of Cadets and Officers at the Blackdown Cadet Camp, CFB Borden, during summer training.

It is hard to believe that we are preparing for Christmas stand down, but it will be a welcome break for many as they celebrate Christmas and the fellowship and warmth of family and friends. That said, we have lots to do still. Our Flying Scholarship candidates are attending 4.5 hours of weekly lessons, writing exams and preparing for the upcoming Transport Canada examination to earn the opportunity to become one of the "chosen pilot candidates" selected for the coveted seven week Power and Glider Pilot programmes.

We are also busy on the parade square with our Drill Team and Flag Party members practicing drill movements and routines over and over to ensure that they can put on a grand display during the Annual Ceremonial Review at the end of the training year. But, it is not all work as we look forward to our Christmas Mess Dinner filled with all of the traditions of the RCAF ... not to mention an amazing turkey dinner with all of the trimmings! YUM!!

The reality is that we have just started. The past 75 years has seen many changes to our world, our society and our own community. The one thing that has been consistent for 75 years is the outstanding work of the Officer and civilian staff cadre of 142 Mimico 'Determination' Squadron in mentoring and developing Canadian youth of the Mimico community, and the exceptional young women and men who have graduated from the programme offered at 142.

We look forward to the next 75 years, having strength in our experience and history, enriched by our affiliation and support of 32 Signal Regiment, RCCS.

Here's wishing the 142 SQN Family and the Regimental Family a very merry and wonderful Christmas season.

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## Regimental History in Preparation

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The Regiment will celebrate its 110th Anniversary in the Fall of 2017. This celebration coincides with the 110th Anniversary of the founding of the Royal Canadian Corps of Signals as well as the 150th Anniversary of the Confederation of Canada. To commemorate this auspicious occasion, the Commanding Officer has commissioned a Regimental History book to record the stories of our people and the history of the lineage of the Regiment from our predecessor Units. This book will include stories of our exploits at war, keeping the peace and serving Canadians at home. This is time to tell our stories and preserve them for future generations.

We are looking for contributors and volunteers to help in information collection, with research or simply by telling your stories. Please contact LCol Jack Lee, CD (Ret'd) for offering your support or requesting more information about the project.

All submissions can be sent to this repository email address:

[32sigregthistory@gmail.com](mailto:32sigregthistory@gmail.com)

# Associations

## Regimental Advisory Council

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Honorary Colonel Jim Leech, CM

Honorary Lieutenant Colonel Kenneth Lloyd, CD. MA



### Velox, Versutus, Vigilans

Every day when I see the chaos around the world, I am thankful for the stability of Canada, the professionalism of our Regiment and the friendship of our Signals family.

The year 2018 saw a new command team at 32 Sigs, LCol Alfred Lai, Capt Roger Caron and CWO Steven Graham, and all reports are that the transition has gone smoothly although the pace has not let up for the Regiment. As Honoraries, we enjoy our bi-monthly get-togethers with the CO, DCO and RSM to discuss Regimental affairs.



This November marked the 100th anniversary of the signing of the armistice agreement that formally ended World War 1. Also known as the Armistice of Compiègne from the place where it was signed, it came into force at 11 a.m. Paris time on 11 November 1918 ("the eleventh hour of the eleventh day of the eleventh month") and marked a victory for the Allies. We hope that all of Canada will proudly wear their poppies and even more proudly participate in Remembrance Day ceremonies (the Regiment will be parading in both Bracebridge and Toronto). It is our duty to honour the sacrifice of those who came before us to make this great country.

As we have stated in the past, the Regimental Association is extremely important to our soldiers and cadets. Funds raised by the Association make a real difference. In 2018, the Association disbursed over \$35,000 in support of the Regiment:

SHE Scholarships – University/College scholarships for our most deserving young soldiers	\$10,000
Contribution to the Regimental Fund – a contribution to support Regimental activities that are not eligible for DND funding e.g. social events	\$8,000
Vintage Signals Team - this group of dedicated "vintage signalers" is taking the signals' story to the public and assisting the Regiment in recruiting	\$7,500
Affiliated Cadet Corps – 709, 142 and Muskoka Squadrons	\$6,000
Toronto Signals Band – our band has provided community outreach for over 90 years	\$3,000

These funds have made a significantly positive impact on the lives of our soldiers and reinforced the Regimental "esprit de corps" – everyone in the Regiment is most grateful to those who give annually to help out with the unfunded portions of the Regimental expenses. Those "extras" are meaningful.

Over the past few years, we have been fortunate to have a few significant donors who have allowed us to provide this level of support; but if we are to continue to help our soldiers, it is imperative that we broaden our funding base. To that end we ask each person who receives this letter to make a tax-deductible donation of at least \$200 and to help expand our funding base by asking at least two of your friends/family to also support our soldiers.



Other Regimental news: We are still progressing with our Regimental book, chronicling our 110 years. Capturing the history and sorting through stacks of photos is a mammoth undertaking – thank you Greg Stasyna. There is a big push to get this wrapped up in 2019.

In closing, please don't be a stranger to the Regiment. Check out our website to see what we are up to and to learn of events to which you are most welcome. Next on the list is the annual Regimental Associates Christmas dinner on December 15, 2018 at Fort York Armoury. We hope to see you there.

Have a wonderful Holiday Season.



Jim Leech  
Honorary Colonel  
Chair, Regimental Advisory Council



Ken Lloyd  
Honorary Lieutenant Colonel  
Vice Chair, Regimental Advisory Council

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## Annual Funding Drive

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As a Registered Charity (yes, you will get a receipt for your income tax!), the purpose of the Regimental Advisory Council, 32 Signal Regiment is to provide advice and support to the Commanding Officer in regard to assistance for training, recruiting and maintenance of morale. Specifically, the RAC provides funding towards activities that fall within the stated scope but are not funded by public funds. This includes support to the Band, the Cadet Corps, the Vintage Signals Team and the Regiment. In addition, within the RAC domain is the Sally Horsfall Eaton (aka SHE) Fund which provides bursaries for eligible candidates. Each year half a dozen or more bursaries are awarded.

Your donation will help to keep the Regimental family robust and active. By specifying this Registered Charity as the chosen destination, you can donate through your workplace, Canada Helps, United Way or simply by mailing a cheque to:

RAC, 32 Signal Regiment  
c/o WO Renny MacKinnon (Ret'd)  
7509 Cavan Rd  
Bewdley, ON  
KOL 1E0

# Associations

## Jimmy and Associates

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by Major Hal Buller, CD (Ret'd)

I don't know what to say. I don't have much to report on this article. How about I showcase some of the things that happen in C4I communication outside of the military?

The CNE opening weekend has been highlighted with the Warrior's Day parade for 97 years. The organizing and running of this event is done by a council consisting of many retired members of the Canadian Armed Forces who reside in the GTA. For many years, the communication component of running the parade was done by the Toronto Signal Regiment. Since the demands of summer training have made Signalers unavailable, the duty has fallen to retired unit members who call upon the amateur radio community to provide the needed manpower and technology resources.

Twice a year, the amateur radio community, through their organized Amateur Radio Emergency Services (ARES), conducts a Simulated Emergency Test. This test has local Emergency Coordinators activate their local fellow hams to set up an Incident Management System (IMS) command post. Radio checks are done within the affected community, and to the PEOC. The current PEOC ARES coordinator is a retired Signals Officer.

The Canadian Armed Forces J6 has a lot of resources at his disposal. One of those is the Canadian Forces Affiliate Radio System (CFARS). This group is made up of CAF stations, units, and retired member's individual stations. All communications systems owned by the CAF are automatically members of this net. An individual who is a licensed Amateur radio operator, and who is familiar with ACP125, can apply to become an outstation on this net. There are currently 130 such members. Each year in conjunction with C&E week, 1 CFJSR hosts and runs a five eyes worldwide HF exercise called Noble Skywave. It runs for 48 hours, and allows designated stations to conduct HF training and validation exercises. There are several stations in the GTA who participate.

### Useful Links:

Warriors' Day Parade: [http://www.thewarriorsdayparade.ca/Parade\\_Info.htm](http://www.thewarriorsdayparade.ca/Parade_Info.htm)

ARRL: <http://www.arrl.org/news/emergency-preparedness-takes-center-stage-for-2018-simulated-emergency-test>

Radio Amateurs of Canada: <https://wp.rac.ca/simulated-emergency-test/>

Noble Skywave: <https://cmcen-rcmce.ca/exercise-noble-skywave/>

<https://nobleskywave.ca/>

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## Jimmy and Associates BBQ

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by Rose Kelly | July 22, 2018

The 2018 Jimmy & Associates BBQ was held on Sun, 22 Jul 2018. Even though it rained, we still had a good turnout and a wonderful time was had by all. Thank you to everyone who attended.











# Toronto Signals Band

## 2018 Warrior's Day Parade Champions

WOW - first place for the Band, Overall Parade Champions and first place for the Colour Guard.

3 Trophies - Outstanding!

### CONGRATULATIONS

#### The Elwood Hughes Trophy (Brass, Trumpet or Bugle Band):

- 1st - TORONTO SIGNALS, BAND (John O'Leary recipient)
- 2nd - GOVERNOR GENERAL'S HORSE GUARDS BAND
- 3rd - LINCOLN & WELLAND REGIMENT ASSOCIATION BAND

#### The John Labatt Trophy (Colour Guard/Colour Party Competition, 3 or more):

- 1st - TORONTO SIGNALS, COLOUR GUARD (Maureen Crawford recipient)
- 2nd - 48TH HIGHLANDERS COLOUR PARTY
- 3rd - TORONTO PARAMEDIC SERVICES CEREMONIAL GUARD

#### The Frank Jamieson Memorial Trophy (Unit obtaining the highest score):

Parade Champions, winners TORONTO SIGNALS, COLOUR GUARD and R.C.L., LADIES DRILL TEAM



## Bandsman Gordon Irvine

The attached picture is of me and my 15 year old grandson Ben Majerly taken at a parade in Stoney Creek where both bands were marching. He is a member of the Burlington Teen Tour Band. He was very fortunate to be able to go with the band to the Tournament of Roses parade in California back in January with 200 members representing Burlington. In June 2019 they are going to England and France as part of the D-Day ceremonies. They will see Caen, Juno Beach, Vimy, Dieppe and Paris.

Ben is 15, lives in Burlington and attends Dr. Frank Hayden high school. He is also involved in the school music program with the Concert Band as well as the Wind Ensemble.

I was a member of the Signals Band in the early 60's and rejoined in 2005 playing bass drum, hoping to play for a while longer.

Gord Irvine

## Vintage Signals Team

### Annual ARRL/RAC Field Day

by Capt Rick Little, CD (Ret'd), VA3RKL, HSA Vintage Signals Team

The Radio Section of the HSA Vintage Signals Team participated in the Annual ARRL/RAC Field Day on Saturday June 23rd.

We set up our "offsite field location" in Radio Room One aboard the HMCS HAIDA, 658 Catharine St. N, Hamilton.

VST Radio Section Members David Hayward VA3HWD, Mike Leatham VA3CFE and Rick Little VA3RKL worked the Field Day activities and contacts. David supplied the HF Radios and we made contacts with stations in the Hamilton/Niagara Peninsula through the Greater Toronto Area throughout the afternoon.

We also worked with the HMCS HAIDA and Parks Canada Staff and had a great opportunity to meet with many visitors to the HMCS HAIDA to talk about and demonstrate radio/wireless communications, Morse code, Morse keys, wireless operator skills, encryption and other subjects from WW1 to the Cold War.

Thanks to Andy Barber and Mike Triska of Friends of HAIDA for their assistance getting us onto the Ship and providing information about the equipment in the Radio Room.

Thanks also to Sarah Simpson of Parks Canada for arranging access for us to the HMCS HAIDA and the Parks Canada Staff who were so friendly and helpful while we were on the Ship.



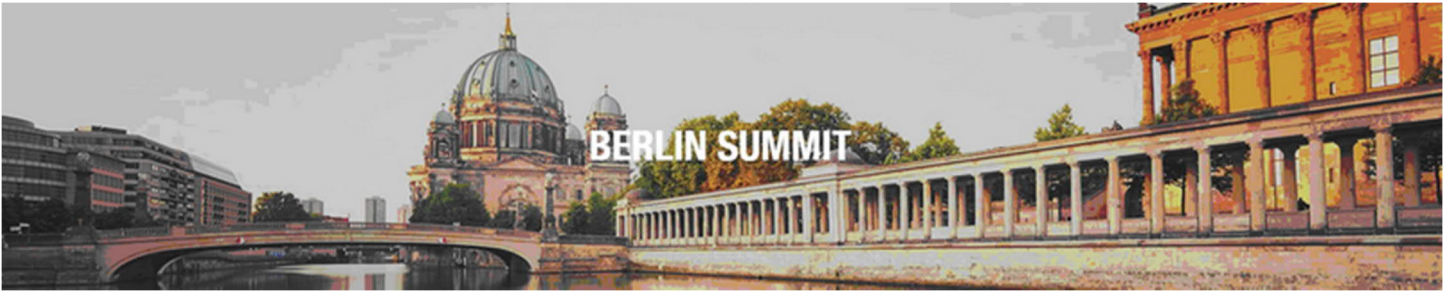
Photo: Dave, Mike and Rick working the HF radios and talking to visitors about Radio/Wireless communications systems on the HMCS HAIDA.



## Vintage Signals Team

### Vintage Signals Team In Berlin 2018

by HCol Ken Lloyd, CD, M.A. | Berlin Germany | July 2018



"This is awesome!" said an EF student.

"They are so engaged!" observed an EF leader.

"How many ways can you send Morse code?" asked a student before being deluged in advice from her table.

"You altered the tension on the elastic band - it's a fulcrum!" "The key wasn't working - why?"

The 73 students in the workshop discovered Morse keys, so simple they could be made at home and cipher keys developed in the time of Julius Caesar.



The Vintage Signals team was invited to tell the story of Canadian Military signals at the EF Education Global Leadership Summit in Berlin, Germany. The theme was "The Influence of Technology in Society". 1,500 High School students aged 15-19 years of age from Europe and America came together for an intense, interactive leadership conference during 14-15 July 2018.

The Speakers at the conference were picked because they had "chosen to harness the power and potential of technology to improve society." Jason Latimer galvanized the conference hall using technology to create magic that made the impossible, possible. Glen Keane, a Disney and CG animator, brought the room to its feet with his journey from animation pencil drawings that brought to life, The Beast from Disney's 'Beauty and the Beast' and poignantly engaged the room with

Ariel's struggle from 'The Little Mermaid' to believe in the impossible. Glen ended with a real-time display of 3D drawing that had depth and space in a virtual reality. Andini Makosinski and Randi Zuckerberg gave real life examples of how technology and a determination to follow a dream can work for everyone.

The message to the students as they delved into their workshops was "Find the right question and change the world."

The Vintage Signals Team workshop message was "How to build a Morse code key, send encrypted messages and become a codebreaker." It used the Hasso-Plattner model for a solution-based approach to the design thinking process. Our workshop asked "Could you send a coded message? How did codes save lives during WW 1? What did it mean to be a codebreaker over a century ago? How is Morse code still being used in cryptography today?"



## Vintage Signals Team

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The students quickly began sharing the keys and testing how they operated. Our 'problems' built into the process were soon discovered as the room filled with the clicking of keys as messages began to be passed between groups. With Morse code comprehended, the Alberti cipher wheel had the students send their first cipher letters. The excitement and enthusiasm increased as short 4-word cipher messages were being decoded within 23 seconds by some of the teams. The cohesion among the teams was so refined that members were decoding even as the message was still being read out. The students were an extraordinary group of young people, who stood up and applauded at the end of the workshop. Such words as "spectacular", "love it", "very interesting", "had a lot of fun" and "can we keep the code wheels?" were shared as they departed.



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## Memorial Line Truck Is Getting Ready for Borden, 11th August 2018

by HCol Ken Lloyd, CD, M.A.



On a quiet back road between Borden and Georgina, Ontario, our Memorial Line Truck came to life as a real line truck for the first time since its rebuild.

The Vintage Signals Team-Cold War Section lead by Frank vonRosenstiel has been rebuilding our 1987 Line Truck as a memorial for line crew and named Signalers since 2016. A total rebuild is a slow process dependent on finding the right parts at the right time in the rebuild. On 31st July Frank had the truck out on a quiet back road preparing to try the line reel and met



## Vintage Signals Team

up with Cpl Grant Longaphie coming off duty from Base Borden. Grant is line qualified and from 32 Signal Regiment.

Very quickly Cpl Longaphie took over the line experiment and for the first time, our Memorial Line Truck successfully laid and recovered line. This event is exciting and memorable for all our Team who spent so many hours building a fitting living Memorial to line crews. We know this is not finished, but the truck has shown it has not forgotten how to do its job.

On 11th August 2018, the Vintage Signals Team display and the Memorial Line Truck will support 32 Signal Regiment at Borden CTC. Capt Caron from 32 Sigs and LCmdr Dermott from CTC have arranged a Signals experience for 900 Cadets. The Vintage Signals Team looks forward to being part of this fresh initiative.



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## 709 (Signals) Toronto Army Cadet Corps with the Vintage Signals Team Casa Loma | The Queens Own Rifles Day | November 10, 2018

"I want to come back next year!" said one of the five Cadets were needed to help with the amazing number of visitors to the Signals display at Casa Loma with the Queens Own Rifles.



The visitors, who came from as far afield as Taiwan, Korea and the Baltic States, were amazed at the knowledge of the equipment that the Cadets exhibited. Whether it was a switchboard and magneto phones or a Duplex Heliograph, the Cadets were up to the task.

It was an energetic and satisfying display with many questions from our visitors on code breaking and the authenticity of the film "The Imitation Game."



### Wilfred Edwin Roblin



Roblin, Wilfred Edwin  
(Master Mason, Malone  
Lodge No. 512 GRC A.F.  
& A.M., Retired 24 year  
employee of Go Transit)

Suddenly and peacefully  
with his family by his  
side on Wednesday,  
June 13, 2018 at the  
age of 66 years, while  
travelling on their  
dream retirement  
vacation to Alaska. Wilf  
Roblin of Sutton,  
beloved husband of Gail  
(nee Donovan). Fondly  
remembered by his  
brothers and sisters,  
their families and his  
many friends.

Drum Major Wilf Roblin,  
friend and alumni  
member of the Toronto  
Signals Band for many

### Ronald Arthur Chong



Ronald Arthur Chong –  
October 28, 2018

Ron played with both Sigs  
and the Optimists Alumni  
from about 2002 until  
around 2006 when he left  
Sigs.

He will march on forever in  
our hearts.

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### Kathleen Cozens



Kathleen Cozens (nee  
Healy) September 2018.

Kathy was the wife of  
predeceased WO1 Eric  
Cozens both of whom were  
outstanding members of  
Jimmy & Associates.

Kathy was a nurse with  
Queen Alexandra's Royal  
Army Nursing Corps in  
1953. Kathy resigned from  
QARNC so as to accompany

Eric on future postings where those facilities  
existed. She was very supportive of all Eric's  
career moves and she also pursued a successful  
career in retail management. Both Eric and Kathy  
were very active in Regiment affairs.

Kathleen and Eric have two children (Grant and  
Clive) and four granddaughters.



We will remember them.





DONATION FORM  
 THE REGIMENTAL ADVISORY COUNCIL  
 32 SIGNAL REGIMENT  
 Charity Registration # 119113686RR0001



WO Renny MacKinnon (Ret'd)  
 7509 Cavan Rd  
 Bewdley, ON  
 K0L 1E0

Dear Renny:

I would like my donation directed to:

- The Regimental Advisory Council - 32 Signal Regiment: \$ \_\_\_\_\_  
 (for Regimental activities including 32 Signal Regiment & their Cadets)
- The SHE Fund: (i.e. Bursaries for our Soldiers) \$ \_\_\_\_\_
- The Toronto Signals Band: \$ \_\_\_\_\_

My total gift equals: \$ \_\_\_\_\_  
my gift

PLEASE MAKE CHEQUES payable to: The Regimental Advisory Council – 32 Signal Regiment  
 and mail to our Treasurer, WO Renny MacKinnon (Ret'd), 7509 Cavan Rd, Bewdley ON, K0L 1E0

Please send my receipt for income tax purposes to:

Name: \_\_\_\_\_ Telephone: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ Postal Code: \_\_\_\_\_  
 email: \_\_\_\_\_