

TCA

The Canadian Amateur

Canada's Amateur Radio Magazine La Revue des Radioamateurs Canadiens NOVEMBER / DECEMBER 2012 – NOVEMBRE / DÉCEMBRE 2012

Season's Greetings – Joyeuses Fêtes

**Yukon Amateur Radio Association
installs brand new repeater**



**46th Annual Bathtub Race in
Nanaimo, British Columbia**



Wild Alaska: Pleasant Island NA-161



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OUR COVER: "BIG 73" - SEASON'S GREETINGS – JOYEUSES FÊTES



"I took this picture of engine 73, which is owned and operated by the White Pass and Yukon Route. This photo is taken up through the White Pass near Bennett Lake in British Columbia." – see page 5.

"After the race, during the last week of August, YARA rebuilt a repeater about 40 miles south of Haines Junction." – see page 46.

"On Sunday, July 22, as part of the Nanaimo Marine Festival, the Loyal Nanaimo Bathtub Society hosted the 46th annual bathtub race." – see page 48.

"This adventure began in early August with a phone call from Frank, VE7DP. He called to see if I would be interested in going to Pleasant Island in Alaska. He said the island hadn't been activated for at least 10 years..." – see page 18.

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Silent Keys – In Memoriam

With regret, we record the passing of these Amateur Radio operators:

ICA regrette de vous annoncer le décès des radioamateurs dont les noms suivent :

VA3GST – John Snasdell-Taylor, of Kingston, ON, on June 20, 2012.
VA3AJU – Stella Mitchell, of Oshawa, ON, at age 81, on May 26, 2011.
VA3AYG – Arnold St. Amand, of Collingwood, ON, at age 76, on September 1, 2012.
VA3EZE – Elizabeth Nadon, of Stouffville, ON, on January 18, 2011.
VA3JBX – John Bliss, of North York, ON, on June 27, 2012.
VA3SUR – Bernie Surette, of Chalk River, ON, at age 62, on August 16, 2012.
VA7RVW – Reg Wiley, of Trail, BC, at age 94, on July 25, 2012.
VE1APN – Elwood MacKay, of Loch Broom, NS, at age 84, on August 13, 2012.
VE1AXF – Edna Parkin, of Saint John, NB, at age 92, on August 3, 2012.
VE1JGN – John Newcomb, of Pembroke, NS, at age 80, on August 15, 2012.
VE1TWA – Anna Hovey, of Hartland, NB, at age 85, on May 31, 2012.
VE1WK – Joseph Gordon Perry, of Saint John, NB, on July 21, 2012.
VE2ATW – (VA2ATW) Stan Lesser, of Westmount, QC, on August 19, 2012.
VE2AZH – Lionel Martel, of Chicoutimi, QC at age 78, on July 28, 2011.
VE2BEV – Lawrence Earley, of Beloeil, QC at age 89, on July 3, 2012.
VE2ERY – Bob Victor, of Outremont, QC, in August, 2012.
VE2KN – Jim Lyons, of Dollard des Ormeaux, QC, at age 85, on September 3, 2012.
VE3BBY – Jerzy (Gerry) Erland, of Ottawa, ON, at age 92, on July 27, 2012.
VE3BRJ – Jerry Jones, of Lansdowne, ON, at age 82, on July 25, 2012.
VE3BRT – Gordon Hick, of Carleton Place, ON, at age 75, on September 14, 2012.
VE3CUR – Marjorie Robinson, of Kenmore, ON, at age 88, on September 6, 2012.
VE3GBN – Maurice Challenger, of Aurora, ON, at age 87, on August 11, 2012.
VE3WDW – Wm. Dale Westwood, of Brampton, ON, at age 53, on July 10, 2012.
VE3ZDD – Lawrence (Buzz) Roberts, of Newcastle, ON, on September 23, 2011.
VE4ADK – Allan Kirsch, of Winnipeg, MB, at age 71, on February 20, 2010.
VE4IR – John Boswick, of Winnipeg, MB, at age 86, on September 2, 2012.
VE4NZ – Irma Bowles, of Strathclair, MB, at age 77, on June 30, 2012.
VE4WCM – Bill McMenemy, of Winnipeg, MB at age 85, on July 30, 2012.
VE5DE – Don Heppner, of Waldheim, SK, at age 79, on August 19, 2012.
VE5VR Larry Sedgwick, of Lloydminster, SK, at age 64, on July 24, 2012.
VE6FR* – Tony Puhl, of Lethbridge, AB, at age 81, on September 16, 2012.
VE6GUS – Gus Vander Linden ((VE6NL), of Coalhurst, AB, at age 73, on August 5, 2012.
VE6HV – Ken Lintott, of Brooks, AB, at age 96, on August 29, 2012.
VE6NR – Norm Reidford, of Edmonton, AB, at age 93, on August 20, 2012.
VE6SL – Max Farmer, of Calgary, AB, at age 72, on September 5, 2012.
VE6WRC – Albert Enos, of Grand Prairie, AB, at age 85, on June 19, 2012.
VE7BHF – Bob Manning, of North Vancouver, BC, at age 73, on August 23, 2012.
VE7CAY – Dick Cotton, of Calgary, AB, at age 96, on September 3, 2012.
VE7CTP – Jim Coomes, of Qualicum Beach, BC, at age 88, on April 8, 2012.
VE7EAW – Ray Bonnell, of Leduc, AB, at age 70, on July 8, 2012.
VE7EIE – Dunc Church, of Kamloops, BC, at age 80, on September 5, 2010.
VE7MB – Rod McDonell, of Duncan, BC, at age 79, on October 6, 2012.
VE7TP – Al Whorley, of Salt Spring Island, BC, on July 1, 2012.

Corrections to September-October 2012 List:

VA3YRM – Dick (Yoji) Matsumoto (VE3BLU), of Ajax, ON, at age 83, on July 9, 2002.
VE3SXE – Robert Raymond, of Long Sault, ON, at age 68, on September 30, 2011.
VE7BZB – John Beldam, of Abbotsford, BC, at age 91, on July 6, 2012.



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As a general guide TCA accepts material in the following categories: Technical Articles; Technical Notes; Non-Technical articles; News Items; and Letters. Material may be submitted electronically, as a word processing file attachment to an email message, or sent by regular mail.

All submissions to *The Canadian Amateur* – including letters and articles – are eligible to be included in TCA, space permitting, at the discretion of the Editor.

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All material in TCA is subject to editing for length, clarity, style, punctuation, grammar, libel and taste.

All submissions that are approved for publication in TCA will appear in both the print version and electronic (Web) versions of TCA.

We regret that all submissions cannot be acknowledged. Please enclose a self-addressed stamped envelope if you wish pictures or diskettes returned.

For a complete Author's Guide visit <www.rac.ca/tca/authors_guide.htm>.

Please address correspondence to:
The Editor

**720 Belfast Road, Suite 217
Ottawa, ON K1G 0Z5
TCA email address:
<tcamag@yahoo.ca>**

Deadlines for TCA
January-February 2013
November 15
March-April 2013
January 15

"Big 73..."

I took this picture of engine 73 (see the photo on the front cover), which is owned and operated by the White Pass and Yukon Route. This photo is taken up through the White Pass near Bennett Lake in British Columbia.

The steam Engine No. 73 is a 2-8-2 Mikado type Baldwin Locomotive built in 1947.

The steam locomotive was custom built for the White Pass & Yukon Route Railroad.

The WPYR goes back to the days of the Klondike Gold Rush of 1897.

I have permission for TCA to use this photo.

You may come up with a cute tag line such as "Big 73" seen near Skagway, Alaska.

*Ron McFadyen, VY1RM
Whitehorse, Yukon*

How much contesting?

I have to disagree with Stan, VE3ILU, assessment (see "Too Much Contesting" letter on page 9 of the September-October 2012 issue of TCA).

A quick look at the ARRL contest calendar indicates that most contests are on weekends. The ARRL indicated that the number of Amateurs increased by .86%; not a lot but also not a decline.

I have no trouble spinning the dial and hearing long-winded QSOs in progress.

Likewise, the number of nets do not seem to be affected by contest activity in most case because they are scheduled during weekdays when contests are minimal.

One loose cannon does not reflect at all well on the hobby, but it is not a good enough reason to become inactive.

I'm semi-retired at 69 and have the advantage of having a ham station in my home office.

As for asking opinions, five hams will offer eight opinions.

I play a lot with JT65-HF and only see a few Albertans on. I like digital; it is less disruptive in a quiet household.

I have a couple of wires in the trees, no tower and I have fun.

If it no longer is fun I'll be quite happy to put your rig to good use.

*Steve Lenaghan, VE6VS
Red Deer, Alberta*

"The Hobby that Keeps on Giving..."

At the ripe age of 70 it's always good to be reassured that you didn't just imagine some of your hamming activities, so it was with great delight that I read Ed Henderson's reminiscences in the September-October 2012 issue of TCA (see page 14 – "Amateur Radio: The Hobby that Keeps on Giving").

I met Ed when he had his first call VE3DJT and was doing his officer training with the Second Signals Battalion at their Spadina Avenue "upstairs" Armories in Toronto.

I was with a group of army cadet officers doing reserves "signals" training as our Western-Tech and Commerce High School's 1418 cadet Battalion was affiliated with "Second Sigs".

After the customary evening training sessions on a Wireless

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Set #19 MKII, a 21 set, and the base behemoth, who's model number I can't remember, it was fun to enter "the shack" that Ed mentions and get on the air via Amateur Radio.

About five of us were tongue-tied and sputtering inanities for the first time on an Amateur band after Ed made contact with an Amateur in North Bay. I can remember North Bay distinctly but not the call sign.

That left a strong impression on me and I visited Ed at his rooming house QTH, which I recall was about a block away from Riverdale Collegiate. On the desk pictured in his TCA article I remembered that he had used his soldering iron to burn in the letters "VE3DJT".

I finally got off my butt in 1989 to get my licence and first call sign, but as I was scanning the list of available VE7 calls at the DOT's downtown Vancouver office, FJT popped up and that was close enough to DJT – a good omen I thought.

Thanks Ed!

*Andy Neimers, Ex-VE7FJT
now VA1FJT in Digby Neck,
Nova Scotia*

(Note: Andy wrote "The Friendly Jungle Telegraph" column in TCA for many years. We are pleased to include one more edition of the column on page 21. Thanks Andy!)

AROUND THE CORNER...

People, Places, News and Events on the Canadian Amateur Radio Scene

The following news items have been compiled from Industry Canada, RAC bulletins and the RAC website at <www.rac.ca>. To subscribe to RAC bulletins visit <http://rac.eton.ca/racbulletinmail.htm>. Thanks to RAC Bulletin Editor – Vernon Ikeda, VE2MBS/VE2QQ. Traduction par Serge Langlois, VE2AWR.

National Amateur Radio Emergency (NARED) Database

Work has begun on the development of a new database for ARES/EmmCom personnel. Particular attention is being placed on confidentiality, in response to concerns of amateurs across the country.

In order, to ascertain the volume which we will be required to accommodate, we are requesting that Section Managers (SM's) request their Emergency Coordinators (EC's) to provide a list of their ARES members. The only information required is a name and call sign. This information will not be placed on a database. In addition, we would like each group to provide an estimate of the net growth their organization anticipates annually.

I am requesting that responses be sent to <racnared@gmail.com> by November 15, 2012. Any questions can also be forwarded to the same address.

Pat Barrett, VE3RNH
NARED Manager

Base de données NARED, la banque de données nationale pour la radio amateur

Le travail a débuté sur le développement d'une nouvelle base de données pour le personnel du SURA (ARES) et EmmCom. Une attention particulière a été portée à la confidentialité, en réponse à des inquiétudes de radioamateurs à travers le pays.

En vue d'estimer le volume de données que nous aurons à intégrer, nous demandons que les gérants de section (SM's) obtiennent de leurs coordinateurs d'urgence (EC's) une liste de leurs membres du SURA. La seule information requise est le nom et l'indicatif. Cette information ne sera pas mise dans une base de données. En plus, nous aimerions que chaque groupe procure une évaluation de la croissance nette que leur organisation prévoit annuellement.

Je vous demanderais que les réponses soient envoyées à racnared@gmail.com d'ici le 15 novembre 2012.

Toute question peut également être acheminée à la même adresse.

Pat Barrett, VE3RNH
Responsable NARED

(Traduction par Serge Langlois, VE2AWR)

Distracted Driving Bulletin: Ontario Extends Exemption

The Radio Amateurs of Canada are today announcing written confirmation from Minister Bob Chiarelli of the Ontario Provincial Government regarding a five-year extension of exemption to the Ontario distracted driving law. In his letter, Minister Chiarelli explains that the current exemptions for both Amateur Radio and Two-Way Commercial Radios will be extended until January 1st, 2018.

Minister Chiarelli expresses his hope that in that time commercial hands-free alternatives will be found for two-way radios. While RAC finds victory in the five-year extension, a permanent solution is desired and required.

The Radio Amateurs of Canada will continue to pursue a permanent exemption for Amateur Radio operators in Ontario. Similar exemptions already exist in many other provincial jurisdictions in Canada – thanks in part to the efforts of local Amateurs and RAC's national strategy to address distracted driving legislation.

The Radio Amateurs of Canada is Canada's national voice for Amateur Radio. Our efforts not only promote the Amateur Radio Service but protect it from regulatory interference that may lead to less capability to provide emergency communications. Not already a RAC member? Why not join today at <www.rac.ca> and find out about the many benefits our members enjoy across the country and the world beyond.

Bill Gade, VE4WO
Regulatory Affairs

Bulletin sur la conduite inattentive en Ontario: allongement de la durée de l'exemption

Radio Amateurs du Canada nous annonce aujourd'hui, par écrit, que le ministre Bob Chiarelli confirme un allongement de cinq ans de la période d'exemption relative à la loi sur la conduite inattentive en Ontario.

Dans sa lettre, le ministre Chiarelli explique que l'exemption actuelle vaut aussi bien pour les radios d'amateurs que pour les radios de communication commerciales à deux voies et durera jusqu'au 1^{er} janvier 2018.

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Le ministre exprime le souhait que d'ici là une alternative à l'usage des radios commerciaux mains libres sera trouvée pour les radios commerciales à deux voies. RAC affiche sa satisfaction pour l'extension de cinq ans, mais est toujours à la recherche d'une solution permanente qu'il continue de réclamer pour les radioamateurs de l'Ontario.

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Des exemptions semblables existent déjà dans plusieurs juridictions provinciales au Canada – grâce en partie aux efforts des amateurs locaux et à la stratégie de RAC relative à la loi sur la conduite inattentive.

Radio Amateurs du Canada est la voix nationale des radioamateurs du Canada. Nos efforts, non seulement promeuvent le service radioamateur, mais le protègent contre des interférences récurrentes pouvant conduire à réduire l'efficacité des communications d'urgence. Vous n'êtes pas encore membre de RAC? Pourquoi ne pas le devenir aujourd'hui en cliquant sur <www.rac.ca> et découvrir les multiples avantages dont profitent nos membres dans tout le pays et au-delà.

Bill Gade, VE4WO
Affaires réglementaires

(Traduction par Claude Lalande, VE2LCF)

NEW ARTICLES WANTED

We are looking for new articles: both technical and non-technical. Please send your submissions in now to <tcamag@yahoo.ca>.

The deadline for the January-February 2013 issue of TCA is November 15.



Geoff Bawden, VE4BAW
85 Barrington Avenue
Winnipeg, MB R2M 2A6
Tel. 204-295-0714
Email: ve4baw@rac.ca

In this issue of TCA we are pleased to present the RAC President's Report to the 2012 Annual General Meeting, which was held in Montreal and hosted by the Montreal Amateur Radio Club on September 22:

Good afternoon. It is a pleasure to be here in Montreal. I want to thank the Montreal Amateur Radio Club (MARC) for asking us to come to the beautiful city of Montreal and RAC is pleased to be here. I want to thank Jim Hay, VE2VE, Past President, and Paul Iarrera, VE2OFH, President, for the invitation and I want to compliment and congratulate the MARC on their 80th anniversary.

I plagiarize from Dickens when I say that this is the best of times and the worst of times for Amateur Radio operators around the world and here at home in Canada. When we look around the world we see a growth in the number of Amateur Radio operators. In Canada, as of this June, there were 62,293 Amateur call signs and this number continues to climb. This is despite the existence of technologies which compete for the attention of the public and potential future Amateur Radio operators. The Internet is supplanting short wave and indeed AM radio as a means of broadcast communication. Cellphones have eliminated mobile Amateur Radio's virtual monopoly on civilian mobile communication. Computers have challenged radio as the major electronic plaything and subject of personal experimentation. The public views radio as a quaint technology and Amateur Radio as the province of old codgers. Yet Amateur Radio manages to survive and even grow.

Why? I suggest four factors for Canada (not in any order): camaraderie, access, technological and intellectual challenge, and civic duty. World growth can be attributed to the foregoing and to the growth in prosperity of Third World giants such as China.

Let me briefly expand:

Camaraderie: there is a strong social basis to Amateur Radio;

Access: you can be any age and virtually any physical condition to be an Amateur; also access in another sense in that the practice of Amateur Radio can be from the relatively simple to the incredibly complex;

Intellectual challenge: there are a multitude of technologies that can challenge the ham – from crystal radios to microwave communication, from moonbounce to fox hunting, from CW to digital.

Civic duty: there are many Amateurs who work hard to help their communities during community events and public disasters.

A MESSAGE FROM THE PRESIDENT UN MESSAGE DU PRÉSIDENT

Rapport du Président de RAC présenté à l'Assemblée générale annuelle de RAC qui s'est tenue à Montréal sur invitation du Club Radio Amateur de Montréal (Montreal Amateur Radio Club – MARC), le 22 septembre 2012

Bonne après-midi. C'est un plaisir de venir à Montréal. Je tiens à remercier le Club Radio Amateur de Montréal (MARC) et RAC de nous avoir offert de venir dans la belle ville de Montréal. Je remercie Jim Hay, VE2VE, ancien président et Paul Iarrera, VE2OFH, président, pour l'invitation. Je tiens aussi à présenter mes félicitations au MARC pour son 80e anniversaire.

Je cite Dickens quand je dis qu'aujourd'hui les radioamateurs à travers le monde et au Canada vivent à la fois la meilleure et la pire des époques. Quand nous regardons ce qui se passe dans le monde, nous observons un accroissement du nombre de radioamateurs. Au Canada, au mois de juin, nous comptons 62,293 indicatifs d'appel. Et ce nombre continue de monter en dépit des technologies nouvelles qui retiennent l'attention du public et affectent le potentiel futur du radioamateurisme. L'Internet remplace les radios ondes courtes et AM comme moyen de communication « broadcast ». Le téléphone cellulaire a éliminé à toute fin pratique le monopole des communications civiles chez les radioamateurs mobiles. L'ordinateur défie la radio comme élément majeur électronique de divertissement et d'expérimentation personnelle. Le public voit la radio comme une technologie « étrange » et le radioamateurisme comme l'apanage de « vieux bonhommes ». Malgré tout, le radioamateurisme peut survivre et même croître.

Pourquoi? Je suggère quatre pistes d'action pour le Canada, selon l'ordre suivant : camaraderie, accessibilité, défi technique et intellectuel et responsabilité civile. La croissance mondiale peut être attribuée à l'avancement de la prospérité dans les grands pays en émergence comme la Chine.

Laissez-moi vous expliquer :

Camaraderie : le radioamateurisme en est une base solide;

Accessibilité : peu importe votre âge ou votre condition physique vous pouvez devenir un radioamateur; sous un autre aspect, la pratique radioamateur peut être des plus simples comme des plus complexes;

Défi intellectuel : il y a une multitude de technologies qui peuvent concurrencer le radioamateurisme – du radio cristal aux communications micro-ondes, du rebondissement lunaire à la « chasse aux renards », du morse au numérique...

Responsabilité civile : il y a plusieurs amateurs qui travaillent fort pour aider leur communauté lors d'événements sociaux ou de désastres.

Cette croissance continue du nombre d'amateurs dans le monde (incluant le Canada) et l'accès au spectre existant ne sont pas assurés. Les défis que j'ai cités peuvent entraver la croissance du nombre d'amateurs et contribuer à restreindre l'accès au spectre. Personnellement je pense que notre plus grande menace au Canada est l'indifférence du public. Cette indifférence nous menace de plusieurs façons : le nombre de radioamateurs, l'installation et l'emplacement des antennes, la conduite inattentive et la protection du spectre. Les politiciens de tous les niveaux ne soutiendront les radioamateurs que si leurs commettants respectent les amateurs. Nous n'aurions pas dû subir de législation sur la conduite inattentive, mais l'indifférence du public a causé l'indifférence politique. Le gouvernement fédéral est à entreprendre une révision du spectre affectant le VHF et les hautes fréquences. La classe électorale par excellence – le public – est, au mieux, indifférente au radioamateurisme.

This continued growth in operators around the world (including Canada) and access to the existing Amateur spectrum is not assured and the challenges that I cited can choke the growth of Amateur operators and restrict access to spectrum. I personally believe that our largest threat in Canada is public indifference. This indifference threatens us in areas such as Amateur Radio growth, antenna placement, distracted driving and spectrum protection. Politicians at all levels of government will not support Amateurs if their constituency does not respect Amateurs. We should not have had to deal with distracted driving legislation except for public indifference resulting in political indifference. Federally, the government is undertaking a review of spectrum use in the VHF and higher frequencies. The greater constituency – the public – is indifferent at best to Amateur Radio.

Our continued challenge as Amateur operators is to show the continued relevance of Amateur Radio. All Amateur Radio organizations must take every opportunity to demonstrate to the public the relevancy of ham radio and engage public support.

What has this got to do with RAC?

RAC's raison d'être is to ensure the protection and growth of Amateur Radio in Canada. RAC must identify challenges and work to mitigate them. The principal ogre hiding just over the horizon is the potential for redistribution of spectrum at VHF and above. Broadband mobile operators are on the prowl for more spectrum.

What did RAC accomplish in 2011 and to date in 2012?

- Starting in 2010, RAC determined to act as a corporation. We advocate on behalf of all Amateurs but only provide services to our members. Members should not have to pay for services provided to non-members.
- RAC used the Canadian Amateur Radio Advisory Board (CARAB), which RAC Co-Chairs, to profile issues such as Canadian Amateur's desire to access 60 metres. RAC continues to meet regularly with our federal regulators to discuss issues ranging from spectrum protection, regulatory changes and enforcement.
- The government agreed to consult on whether Amateurs should receive channelized access in the 60 metre band. Industry Canada consultation on six frequencies was done in 2012. RAC's response to the consultation can be found on our website in both official languages. RAC is hopeful that Canadian Amateurs will have access to these frequencies before the end of 2012.
- RAC challenged provincial governments which proposed or passed legislation which restricted the use of Amateur radios while mobile. Provincial governments responded and amended legislation to ensure that Amateurs were exempt from restrictions. Only in New Brunswick did we come up short and we will revisit the issue at the right time. Ontario has consulted on providing a five-year extension on the exemption to the ban on mobile Amateur Radio operation.

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Notre défi perpétuel comme radioamateur est de faire la démonstration de la pertinence du radioamateurisme. Les organisations doivent saisir toutes les occasions d'en faire la démonstration et de s'impliquer dans le soutien public.

Et quel est le rôle de RAC dans tout cela?

La raison d'être de RAC est d'assurer la protection et la croissance du radioamateurisme au Canada. RAC doit identifier les défis et travailler à les relever tout en réduisant les difficultés. Le plus grand défi qui nous apparaît en ce moment – juste au-dessus de l'horizon ! – est celui du danger de la redistribution du spectre VHF et de plus hautes fréquences. Les opérateurs mobiles « broadband » cherchent à élargir leur spectre.

Quelles sont les réalisations de RAC en 2011 et jusqu'à maintenant, en 2012?

- Début 2010, RAC est déterminé à fonctionner comme une corporation. Nous défendons les intérêts de tous les amateurs mais nous fournissons des services à nos membres seulement. Les membres n'ont pas à payer pour des services aux non-membres.
- RAC utilise le "Canadian Amateur Radio Advisory Board" (CARAB), qu'il co-préside, pour satisfaire le désir des amateurs canadiens d'utiliser le 60 mètres. Il rencontre régulièrement des instances fédérales pour discuter des enjeux de la protection du spectre, de changements aux règlements et d'améliorations.
- Le gouvernement accepte de s'informer sur la possibilité de l'accès des amateurs à la bande du 60 mètres. La consultation d'Industrie Canada à propos de six fréquences a eu lieu en 2012. La réponse de RAC à la consultation est accessible sur le site web dans les deux langues. RAC espère que les radioamateurs canadiens auront accès à ces fréquences avant la fin de 2012.
- RAC a contesté la décision des gouvernements provinciaux qui se proposaient de légiférer (ou qui ont l'ont déjà fait) dans le but de restreindre l'usage de radios mobiles amateurs. Les gouvernements provinciaux ont répondu qu'ils amenderaient leurs législations de manière à lever les restrictions. Nous sommes arrivés en retard pour le Nouveau Brunswick, mais nous y reviendrons au moment propice. L'Ontario a consenti à une extension de cinq ans avant de reconsidérer l'usage du radio mobile amateur.
- RAC a reçu un certain nombre de plaintes d'amateurs à propos d'infractions de tiers sur les fréquences amateurs. RAC a pris et continue de prendre très au sérieux ces infractions; il en avise les autorités fédérales.
- Notre représentant à la Conférence mondiale 2012 des radiocommunications (WRC), tenue sous l'égide de l'Union internationale des télécommunications, a travaillé en étroite collaboration avec Industrie Canada en tant que participant de la délégation canadienne à la WRC de manière à ce que les amateurs mondiaux bénéficient d'un accès plus large aux fréquences se situant autour du 600 mètres.

- RAC has received a number of complaints from Amateurs regarding the infringement of third parties on Amateur frequencies. RAC takes this matter very seriously and has and will continue to bring these infringements to the attention of the federal regulatory authority.
- Our RAC representative at the 2012 World Radiocommunication Conference (WRC), held under the aegis of the International Telecommunications Union, worked closely with Industry Canada as part of the Canadian delegation to WRC and Amateurs the world over will be receiving expanded access to frequencies around 600 metres.
- In order to provide better service and better communication to our members in Ontario we determined to restructure to four sections in 2011 and this was undertaken in 2012.
- We have ended our period of insolvency. 2011 was the first year in many years that RAC posted a surplus and by mid-2012 we achieved solvency.
- In 2012, RAC established a new Senior Advisory Committee to the Board on the use of Official Languages. "The Standing Committee on Official Languages" is Chaired by our Quebec Director Sheldon Werner, VA2SH, and with members from both the Board and Executive and members from provinces such as New Brunswick and Manitoba. This standing committee will advise the Board on issues relating to access to RAC services in both of Canada's official languages.
- In 2012, RAC determined to provide: an electronic version of TCA (eTCA) to all members at a discounted membership rate (no hard copy); an eTCA (only) to existing Life Members; a printed copy to Maple Leaf Operators Members (MLOM) at the current MLOM rate; and a printed copy to those members paying a slight premium for hard copy. This will be implemented after a campaign to advise all members of this new approach and (with the exception of Life Members) will be implemented at renewal time. This will be implemented starting the fourth quarter of 2012.
- Every national society, with the exception of the American Radio Relay League (ARRL), has been experiencing membership loss. RAC has started to buck that trend and our membership number slide has come to an end. We have seen a slow growth in membership numbers. We found financial bottom in 2010, membership bottom in 2011 and are anticipating growth for 2012 and beyond.
- It only takes a peek at TCA to note that our Maple Leaf Membership Operators membership has proven popular. This is an area of growth for RAC and we thank our members for their support of Canada's national organization.

It is an exciting time for Amateur Radio and for RAC. We look for a year of membership growth, continued advocacy for the protection of spectrum and continued improvement in the health of RAC and Amateur Radio.

Geoff Bawden, VE4BAW
RAC President and Chair



- Dans le but de donner un meilleur service et d'assurer une meilleure communication avec nos membres en Ontario, nous avons convenu en 2011 de restructurer quatre sections pour 2012.
- Nous avons mis fin à notre période de budgets déficitaires. 2011 a été la première année depuis longtemps où RAC a montré un surplus financier. Au milieu de 2012 notre bilan est devenu positif.
- En 2012, RAC a mis sur pied un nouveau comité consultatif pour conseiller le Conseil d'administration (Board of Directors) sur l'utilisation des deux langues officielles. Le comité sur les langues officielles est présidé par notre directeur au Québec, Sheldon Werner, VA2SH, accompagné de membres venant du Conseil d'administration, de l'Exécutif, du Nouveau Brunswick et du Manitoba. Ce comité a pour mission de conseiller le Conseil d'administration sur les enjeux reliés à l'accès des services de RAC dans les deux langues officielles du Canada.
- En 2012, RAC a décidé d'offrir une version électronique de TCA (eTCA - pas de copie papier) à tous ses membres à un prix préférentiel; un eTCA (seulement) aux membres à vie actuels; une copie imprimée aux Opérateurs Maple Leaf (MLOM) au prix MLOM actuel; et une copie imprimée aux membres qui paieront un léger supplément. Ces dispositions entreront en vigueur après une campagne d'information avisant tous les membres de cette nouvelle approche. Et, à l'exception des membres à vie, l'implantation se fera au moment du renouvellement. Le processus d'implantation débutera au quatrième trimestre de 2012.
- Chaque société nationale, à l'exception de l'American Radio Relay League (ARRL), a subi des pertes de membres. RAC a commencé à contrecarrer cette tendance et le fléchissement de notre membership s'est arrêté. Nous connaissons maintenant une croissance lente du nombre de nos membres. Nous avons atteint notre creux financier en 2010 et celui de nos membres en 2011. Nous anticipons une croissance en 2012 et pour les années à venir.
- Une pointe dans la croissance rapide du tirage de TCA nous a fait prendre conscience de la popularité de Maple Leaf Membership Operators. Voilà un bon vecteur de croissance pour RAC. Nous remercions nos membres du soutien accordé à cette organisation nationale canadienne.

Nous vivons une période excitante pour le radioamateurisme et pour RAC. Nous prévoyons une année de croissance quant au nombre de membres, une défense soutenue de notre spectre et une amélioration continue de la santé de RAC et du radioamateurisme.

Geoff Bawden, VE4BAW
Président-directeur général
Radio Amateurs du Canada



Traduction par Claude Lalande, VE2LCF. Merci Claude!

MINUTES OF THE 22nd ANNUAL MEETING OF THE BOARD OF DIRECTORS OF RADIO AMATEURS OF CANADA



September 13, 2012 – Webinar: 1930hrs (Eastern)

Paul Burggraaf, VO1PRB
Chief Information and Technology Officer

ATTENDANCE:

DIRECTORS:

British Columbia/Yukon: Bill Gipps, VE7ISV
Midwest: Derek Hay, VE4HAY
Ontario North/East: Bill Unger, VE3XT
Ontario South: Jeffrey Stewart, VA3WXM
Quebec: Normand Pitre, VE2NHK
(Deputy Director)
Atlantic Director: Ev Price, VO1DK
Ontario North/East: Glenn MacDonell,
VE3XRA (Deputy Director – late arrival)

EXECUTIVE:

President: Geoff Bawden, VE4BAW
First Vice-President: Ian MacFarquhar, VE9IM
Chief Field Services Officer:
Doug Mercer, VO1DM
Chief Information and Technology Officer:
Paul Burggraaf, VO1PRB
RABC Representative Officer:
Norm Rashleigh, VE3LC
Honourary Legal Counsel:
Marcel Mongeon, VA3DDD
Acting Corporate Secretary:
Linda Friars, VE9GLF
Guest – RAC Blog Editor/RAC E-News:
Vernon Ikeda, VE2MBS

REGRETS:

Director Alberta/NWT/NU:
Mitch Mitchell, VE6OH
Director Quebec: Sheldon Werner, VA2SH
International Affairs Officer:
George Gorsline, VE3YV
Regulatory Affairs Officer:
Bill Gade, VE4WO

1. Call to Order: President Bawden called the meeting to order at 7:30 EDT, declaring those present constituted a quorum.

2. Roll Call: CITO Burggraaf called the roll.

3. Consideration of Agenda:

The agenda was approved as amended by Director Gipps and seconded by Director Hay, noting that RABC Rep Rashleigh would speak to the CARAB item #13 on behalf of RAO Gade.

4. Motion 2012-24: Moved by Director Price, seconded by Deputy Director Pitre, that the Minutes of the July 9, 2011 Annual Meeting of the Board of Directors be approved as presented.

Voting: 6 Ayes. Motion carried unanimously.

5. Motion: 2012-25: Moved by Director Hay and seconded by Director Unger, that the Board of Directors ratify the Board Teleconference Minutes for the period following the 2011 Annual Meeting of Directors to present.

Voting: 6 Ayes. Motion carried unanimously.

Note: in the Minutes "deferred" means that one or more Directors wanted to discuss items cited in the report in greater detail at a future Board meeting.

6. Annual Meeting Reports were circulated to the Directors and Executive prior to the meeting covering the following categories:

Executive Reports:

- (a) President Bawden (using report for Montreal AGM)
- (b) First Vice-President MacFarquhar
- (c) Regulatory Affairs Officer Gade (discussion deferred)
- (d) Chief Field Services Officer Mercer
- (e) International Affairs Officer Gorsline (discussion deferred)
- (f) RABC Representative Officer Rashleigh
- (g) Chief Information and Technology Officer Burggraaf
- (h) Honorary Legal Counsel Mongeon

7. Director Reports

- (a) British Columbia/Yukon – Gipps
- (b) Alberta/NWT/NU – Mitchell (discussion deferred)
- (c) Midwest – Hay
- (d) Ontario North/East – Unger
- (e) Ontario South – Stewart
- (f) Quebec – Werner / Pitre
- (g) Atlantic – Price

8. Standing Committee Reports

- (a) Administration and Finance Committee
- (b) Membership Services Committee (not active)
- (c) Youth Education Committee

9. Advisory Committees Reports:

- (a) VHF / UHF Band Planning Committee (Gabor Horvath) (deferred)
- (b) MF/HF Band Planning Committee (Jim Fisher) (deferred)
- (c) Microwave Band Planning Committee (Steve Kavanagh) (deferred)
- (d) RAC Contests (Sam Ferris/Bart Ritchie)
- (e) Incoming QSL Bureau Report (Len Morgan)
- (f) Outgoing QSL Bureau Report (Nenad Stevanovic) (deferred)
- (g) DARF (deferred)
- (h) RAC Awards Committee Reports (Bill Metcalf) (deferred)
- (i) Antennas Structures Committee (Lloyd Hofmann)
- (j) Canadian Hall of Fame (Ed Frazer)
- (k) RABC Various Committees (Norm Rashleigh)

Comments:

- (k) The Directors requested that a quarterly schedule of RAC's involvement be published in TCA to raise our profile to the membership.

10. Magazine, News Services and lines of Communication

- (a) TCA – Alan Griffin

11. Motion: 2012-26: Standing Annual Reports

"The RAC Board of Directors recommends that the applicable annual reports for 2011-2012 be accepted and approved as presented, pending deferred reports to the next Board meeting"

Moved by: Director Hay

Seconded by: Director Stewart

Vote: 6 Ayes. Motion carried unanimously.

12. Financial Matters:

- (a) Audit Report 2011: The RAC Financial Statements for 2011 were approved at the May 24, 2012 Board meeting.

- (b) **Motion: 2012-27:** The RAC Board of Directors recommends that the audited financial statements for 2011 be presented to the members at the AGM in Montreal, QC on September 22, 2012.

Moved by: Director Stewart

Seconded by: Director Hay

Vote: 6 Ayes. Motion carried unanimously.

- (c) **Motion 2012-28:** The RAC Board of Directors recommends to the members at the AGM in Montreal, that Collins Barrow, LLP be appointed as the RAC auditors for 2012.

Moved by: Director Hay

Seconded by: Director Unger

Vote: 6 Ayes. Motion carried unanimously.

13. CARAB Report:

The June 21, 2012, CARAB meeting had President Bawden, IAO Gorsline, RAO Gade, RABC Rep Rashleigh, CFSO Mercer (telephone), Hon Counsel Mongeon, Director Unger and Bryan Rawlings in attendance. Discussions were conducted on 600 metres, foundation licensing, updating the Industry Canada Amateur Radio Question Bank and updates to RIC-3 and RBR-4. Minutes will be posted to the RAC website in the near future.

14. Director's Motions: Nil

15. RAC AGM: The Annual General Meeting (AGM) will be held in Montreal, Quebec on September 22, 2012 at 4:00 pm and hosted by the Montreal Amateur Radio Club. We plan on holding a Webinar and question period for those that cannot attend.

16. Board Meeting: The next regular Board teleconference will be September 27, 2012.

17. Adjournment: Moved by Director Unger to adjourn the Annual Meeting of the RAC Board of Directors at 2105 hrs EDT.

NEW ELECTRONIC AGE FOR RAC! NEW EXCITING MEMBERSHIP OFFERINGS!

The Radio Amateurs of Canada has been offering eTCA to members since the start of this year. It has been available as an online flipbook and a member downloadable PDF file (suitable for most eReaders!). Many members remarked upon its portability (eReader compatible, downloadable no matter where you happened to be) and the potential for hypertext links to other resources. This offering placed RAC in the 21st Century and was the first electronic offering of a national radio society.

At the 2012 Annual General Meeting, held in Montreal and hosted by the Montreal Amateur Radio Club, RAC was pleased to announce changes to its membership offerings.

- All members will continue to have access to the eTCA available in the Members Only Section of our website.
- The new standard membership will include eTCA but will not include the print version of TCA and the membership will be discounted to \$48 from the current \$52.
- Life Members will have access to eTCA.
- Maple Leaf Operator Members will have access to eTCA and will continue to receive the printed publication.
- Corporate Members will continue to receive the printed publication.
- Members who wish to continue to receive the printed version of TCA as well as the electronic version can do so and the membership rate will be \$56.
- US and International Members will continue as non-voting memberships and will have access to eTCA at the new rate of \$48.

Owing to mailing costs, all mailed (print version) copies of TCA will be to Canadian addresses only. International mailing costs have ranged from \$12 to \$17 per issue.

These changes will occur on January 1, 2013. For renewable memberships the change will occur upon renewals due after January 1.

While this offering takes advantage of our new electronic age and the mobility of many of our members, it will also have the advantage of reducing the need for RAC to look at membership fee increases in the near future.

We are excited about these changes and anticipate that eTCA will grow in capability and capacity. Many members have written to complain that their articles and volunteer activities have not received the exposure that they would like in the print TCA owing to the necessary finite number of pages. With eTCA we will be able to grow access to members, access other media and increase content.

Welcome to the 21st Century!

Geoff Bawden, VE4BAW
President and Chair
Radio Amateurs of Canada



NOUVEL ÂGE ÉLECTRONIQUE POUR RAC! NOUVELLES OFFRES « AGUICHANTES » POUR DEVENIR MEMBRE!

Radio Amateurs du Canada a offert eTCA aux membres dès le début de l'année. Il a été disponible à titre de livre en ligne et téléchargeable par les membres en format PDF (compatible à la plupart des lecteurs électroniques). Plusieurs membres ont formulé des remarques sur l'adaptabilité (eReader compatible et téléchargeable peu importe le lieu) et le potentiel de liens de l'hypertexte à d'autres sources. Cette offre a propulsé RAC dans le 21^e siècle ; c'était la première fois qu'une société radio nationale offrait un tel support électronique.

À l'assemblée générale annuelle de 2012, tenue à Montréal et dont l'hôte fut le Club Radio Amateur de Montréal (MARC), RAC était heureux d'annoncer des changements aux offres faites à ses membres.

- Tous les membres continueront d'avoir accès au eTCA, dans la section des membres du site web.
- Le nouveau membership régulier inclura eTCA mais pas la version papier de TCA. Le prix de la carte de membre sera réduit, passant de 52 \$ actuellement à 48 \$.
- Les membres à vie auront accès à eTCA.
- Les membres de « Maple Leaf Operator » auront accès à eTCA et continueront de recevoir la version papier.
- Les membres corporatifs continueront de recevoir la version imprimée.
- Les membres réguliers qui désirent continuer de recevoir les deux versions, imprimée et électronique, le pourront mais le coût de la carte de membre sera de 56 \$.
- Les membres états-uniens et internationaux continueront d'avoir accès à eTCA, mais sans droit de vote et au nouveau prix de 48 \$.

Les frais de poste pour la version imprimée de TCA entre autres, ne seront payés que pour les destinations au Canada. Les frais de poste internationaux varieront entre 12\$ et 17\$ par copie.

Ces changements entreront en vigueur le 1^{er} janvier 2013. Pour le renouvellement des cartes de membre, les changements s'appliqueront au moment du renouvellement, après le 1^{er} janvier.

Si nous profitons de notre nouvel « âge électronique » et de la mobilité de plusieurs de nos membres pour introduire nos offres, il y a aussi l'avantage de réduire la gestion de RAC relative à l'augmentation du membership pendant un certain temps.

Nous sommes enthousiastes face à ces changements et nous anticipons une croissance de eTCA tant sur le plan du nombre et de la forme que sur celui du contenu. Plusieurs membres nous ont écrit pour se plaindre du manque de visibilité de leurs articles et activités de bénévolat. Ils n'auraient pas reçu toute l'attention souhaitée dans la version papier de TCA, en raison du nombre limité de pages. Avec eTCA nous pourrions améliorer notre accès aux membres, disposer d'un autre média et avoir un meilleur contenu.

Bienvenue dans le 21^e siècle!

Geoff Bawden, VE4BAW
Président-directeur général – Radio Amateurs du Canada

Traduction par Claude Lalande, VE2LCF. Merci Claude!

GETTING STARTED ON THE AMATEUR RADIO SATELLITES

The bulk of this article was previously published as "Working Your First Amateur Radio Satellite (Part III)" in the May 2010 issue of Monitoring Times, Brasstown, NC 28902. Thank you MT!

In our last installment, I discussed a few more "tricks of the trade" related to satellite work along with some ideas on how to begin construction of a more permanent antenna array for your satellite base station.

For beginners on a budget, I also suggested you consider some form of omni-directional antenna (such as the proverbial "egg beater" design) because their use tremendously simplifies building your satellite station... and tracking the birds.

In this edition of the satellite beginner's column, I'll again offer some tips to help you optimize your base station antennas for the satellites including some ideas about the most practical feedlines to use for satellite work.

A QUADRIFILAR WHAT?

One other omni-directional antenna design that is quite suitable for satellite work is a "Quadrifilar Helix" (or "Quadrifilar Helicoidal") antenna. A Quadrifilar Helix antenna consists of four quarter-wavelength or half-wavelength elements fed with a 90-degree phase difference. The polarization is circular and the beam widths are often greater than 90 degrees, which means this antenna will cover a HUGE chunk of the sky.

These antennas are also relatively small and fairly easy to build out of common materials such as copper tubing and PVC pipe. However, element lengths and spacing have to be very precise in order to achieve a truly circularly polarized pattern.

A number of Amateur operators (and others who are also interested in weather satellite reception) offer design tips and construction details for these antennas via various websites including <www.n8imo.com/qha_4.html> and <http://perso.wanadoo.es/dimoni/ant_qha.htm>. Yet another website on the subject – <www.jcoppens.com/ant/qfh/calc.en.php> – sports a helpful online calculator where element lengths and spacing for these antennas can be calculated simply by entering the desired resonant frequency.

THE LINDENBLAD

Yet another omni-directional antenna design that can be useful for satellite work is the Lindenblad. The antenna is named for Nils Lindenblad of the Radio Corporation of America (RCA) who, back in the early 1940s, began experimenting with antenna designs that might be useful for the (then emerging) television broadcast industry. The antenna uses four dipoles spaced equally around a 1/3-wavelength circle with each element canted at a 30-degree angle from horizontal.

Like the Quadrifilar Helix, construction articles on how to "roll your own" Lindenblad abound on the Internet. Howard Sodja, W6SHP, optimized the Lindenblad design for satellite work in a series of articles for *The AMSAT Journal* in the early 1990s. The articles can still be found in the AMSAT Web archives at <www.amsat.org/amsat/articles/w6shp/lindy.html>. In addition, AMSAT's current Vice-President of Engineering and BOD Member, Tony Monteiro, AA2TX, has written extensively on the Lindenblad design. Construction details of his 70cm version of the Lindenblad appeared in the "Proceedings for the 2006 AMSAT Annual Meeting and Space Symposium" at <www.qsl.net/nwlnrn/sat/70ParaLindy.pdf>.

DIRECTIONAL ANTENNAS

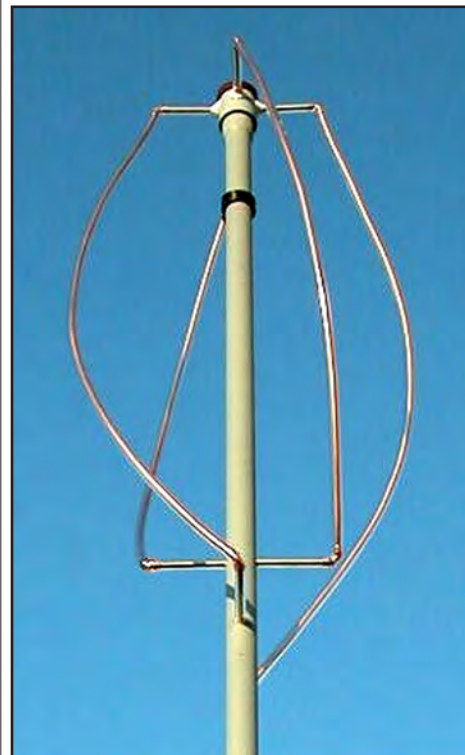
As the name implies, directional antennas focus RF energy in one direction. Not only do these antennas allow you to transmit your signal to satellites that are farther away from you, they also help your ground station pick up weaker signals, provided that the antennas are pointed in the right direction. As all satellite work is weak signal work, *anything* that boosts an already weak satellite downlink signal is a good thing.

Many satellite operators use some form of Yagi antenna in their Earth stations. The design is named for its Japanese inventor, Yagi-Uda, and consists of one or more dipoles that are fed with RF and act as "driven elements". Parasitic (that is, non-fed) elements (called "reflectors") are then mounted in back of the driven element and one or more parasitic elements (called "directors") are mounted in front. The whole array is then mounted on a cross boom of some sort.



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Keith Baker, VA3KSF/KB1SF



The Quadrifilar Helix antenna is a relatively easy to build, omnidirectional antenna that can be optimized for both Amateur Radio and weather satellite work. (Photo courtesy of Bob Cash, N8IMO)



The Lindenblad antenna is yet another, relatively easy to build omnidirectional antenna suitable for satellite work. (Courtesy: AMSAT)

Yagi antennas can be either linear or circularly polarized. Yagis with only one row of elements are linearly polarized (either horizontal or vertical depending on which way you mount them). However, Yagis with two rows offset by a 90-degree phase difference are circularly polarized (either right-hand or left-hand, looking down the antenna from the rear).

As I've discussed, for satellite communication, circular polarization is desirable because the difference in loss between right-hand (RHCP) and left-hand (LHCP) circular polarization is only about 3 dB. And while this loss represents about half of your uplink or downlink signal, remember that the difference between horizontal and vertical polarization is theoretically infinite. In the real world, however, the difference between horizontal and vertical polarization is around 30 to 40 dB. But that's *still* over a thousand times *more* loss than the difference between RHCP and LHCP!

In addition, the number of elements on a Yagi is directly proportional to its gain. More elements means more gain. However, as with most other things in life, there's a tradeoff between gain and beam width. That is, the higher the gain, the narrower the beam width. So while a 40-element Yagi may provide excellent gain, it becomes quite another matter to keep it continually pointed directly at a satellite that's rapidly moving across the sky.

The bottom line here is that, while circularly polarized Yagi beam antennas are absolutely wonderful for "full coverage" satellite work (and I've used my share of them over the years), they are absolutely *not* essential for you to work the birds successfully. I've still achieved consistently good results – particularly on the LEO satellites – using any number of simple, linearly polarized (handheld or mounted) Yagi beams and/or eggbeater designs.

My success with linear polarized Yagi antennas is probably because most of our satellites use circularly polarized antennas for their downlinks and they also rotate and tumble through space. So the practical effects of cross polarization are at least partially minimized by these two factors. This also means that the amount of time when your and the satellite's antennas will be *truly* cross polarized will usually be so brief that the momentary drop in signal strength will most often be imperceptible to your ear.

You can find any number of "cheap and easy" Yagi antenna designs and construction details on the Internet. A collection of three such articles by Richard Crow, N2SPI, ran in *The AMSAT Journal* in 2006 and have since been re-published on the AMSAT website at www.amsat.org/amsat-new/information/faqs/crow/index.php.

DISH ANTENNAS

Dish antennas are the next step up from Yagi antennas. However, the benefits of a dish are often not worth the cost at the VHF and UHF frequencies used by our current Amateur satellite fleet. A dish starts to become feasible in the 1.2 GHz frequency range. However, here again, the high gains achieved by a dish antenna are usually offset by the fact that the satellite is rapidly moving across the sky. What's more, complexity (and costs!) increase dramatically when using dishes because there are not that many Amateur Radio dish suppliers around. Usually, you'll have to adapt dish feeds and reflectors manufactured for other purposes.

FEEDLINES FOR SATELLITE WORK

Most veteran satellite operators know that otherwise excellent antennas can be rendered quite useless if they are linked to your station equipment with poor quality feedline. The feedline is what connects your antenna to your radio. While the proverbial "wet noodle" feedline might work well for local VHF/UHF repeater or scanner activity, once again, because satellite work is weak signal work, many types of feedlines used in the former activity are *not at all* suited for the latter.

The principal concern with feedlines is *loss* and every feedline has it to some degree. That is, if you insert 50 Watts into a feedline at your station, you'll have *less* than 50 Watts once your signal gets to your antenna. The rest of the power is lost somewhere in the feedline, usually in the form of heat. Unfortunately, these characteristics are also at work when you receive signals as well. And because the signal from one of our satellites is *already* weak when it strikes your antenna, it follows that you can ill afford to waste *any* of that RF heating up your feedline! What's more, those losses usually increase as the line length and operating frequencies being transmitted or received increase.

Most of us working the birds these days use some form of coaxial cable (or simply "coax") for feedline. There are about as many varieties of coax as there are companies manufacturing them. However,

most of us use some form of "low loss" coaxial cable such as Belden 9913 or Times LMR 400 as opposed to lengths of RG-58, RG-8X, RG-213 or RG-8 used in most other Amateur Radio work.

Veteran satellite operators use low loss coax cable in their Earth stations because, as the name implies, this coax exhibits much lower losses (particularly at VHF and UHF frequencies) than those used for other (primarily HF) Amateur activities. For many years, I've used a variety of Belden 9913 coax for my various satellite stations. It exhibits a relatively low loss (on the order of about 2.6 dB per 100 feet at 400 MHz) which is roughly half that of a similar length of RG-8 coax (about 4.1 dB per 100 feet) at the same frequency.

The magic number to always keep in mind when comparing feedlines is 3 dB. That's because, for every 3 dB of loss, roughly *half* of your signal is being wasted in the feedline. In the example above, at frequencies close to our uplink and downlink frequencies (400 MHz), using a 100-foot length of RG-8 means that *well* more than half of your uplink power (or downlink signal) will be lost in the coax.

Unfortunately, for all of its low loss attributes, Belden 9913 also has a dark side. Because the dielectric in this coax is largely made up of air, it tends to attract moisture. And even though you can try your best to completely seal connection points from the elements, over time the normal heating and cooling of the atmosphere *will* result in moisture getting into the cable. For this reason, veteran satellite operators sometimes (derisively) refer to 9913 and its variants as "garden hose".

Fortunately, a newer brand of cable on the Amateur Radio market (called LMR-400) offers about the same loss characteristics as Belden 9913 at about the same price, but without the "garden hose" issue. An excellent discussion on various types of transmission lines (including their loss characteristics) can be found at www.hamuniverse.com/coaxdata.html.

LOOKING AHEAD

In future columns I'll continue our discussion of helpful ways to optimize your satellite base station including how to select the proper connectors for your antenna feedlines and things to look for when selecting your very first base station radio. I'll also pass along some more tips on how to find and track our Amateur Radio satellites. See you then!



THE JACK RAVENSCROFT CASE: FINAL CLOSURE OR IS IT?

Ralph Cameron, VE3BBM

JACK'S XYL – SK

Those Amateurs who were active during the period from 1983 to 1988 may remember the *Houghtby v. Ravenscroft* legal case which emerged as a result of a neighbour's complaints to Jack's 20 metre transmissions. With the passing of Jack's wife Helen, on August 25, 2012 at the age of 95, one may assume this case is closed.

BACKGROUND

Here is a short summary to this case, which made legal history.

Jack Ravenscroft was a mature operator and a stalwart DX hunter, having been at the top of the Canadian DX Honour Roll for several years. He was also Canada's ARRL QSL manager for 10 years and had won many prestigious DX awards.

His problems started when he moved to Glencairn, Ontario near Ottawa. His past work had been with RCA Victor in Montreal where he worked on planning and field installation of broadcast transmitters. He was technically competent in the field of design and operation of the things Amateur use such as transmitters, receivers and antennas. While he favoured a homemade amplifier, he was a Collins devotee for the balance of his station.

Largely due to the proximity of Jack's home relative to his neighbour's and the direction of his beam for most skeds (with the Carribean), Jack's neighbour experienced the common effect on radio sensitive equipment – some form of impairment and most noticeably, the operation of the neighbour's electric furnace which correlated with Jack being on the air.

That was the start of things to come.

As the weeks went on, impaired operation occurred with a microwave oven, bedroom TV, stereo Hi-Fi, electronic organ, living room TV, VCR and telephone. Suppression of the electric furnace was accomplished by the simple application of a toroidal common mode choke. Obviously, enough RF was being picked up on house wiring to cause all these effects and it was somewhat of an anomaly because only one other neighbor experienced a single appliance that was affected.

Social relations deteriorated very quickly without full cooperation of both parties, which is always essential in this type of complaint. Jack and his wife Helen suddenly found themselves faced with the legal charge of causing a Nuisance. While some permission had been given to suppress the affected appliances, this was discontinued with the inevitable result that Jack had a permanent injunction placed against his transmitter operation.

Nuisance Law, being common law, took precedence over the *Radio Act*, which was in force at the time. It was quite a dilemma as there would be obvious legal costs to defend against such a charge and to permit removal of the injunction.

The trial in Civil Court in Ottawa required three days of testimony and fellow Amateur Ray Perrin, VE3FN and I were called to the stand as witnesses. The outcome begged an appeal which was accepted.

COURT FOUND FAULT

There are many details omitted in the progress of the case through the Courts which took five years and ended up in the Supreme Court of Ontario in 1988. Under the leadership of Chief Justice Horace Krever (of the Royal Commission of Inquiry on the Blood System in Canada) and two other judges, Jack was fined \$7,000 and was obliged to stay with the injunction unless the appliances could be suppressed and Jack's neighbour was obligated to have this suppression undertaken.

LEGAL COSTS

Over the five-year period during the course of the proceedings, the Jack Ravenscroft Susceptibility Defense Fund (JRSD) was set up to defray Jack's legal expenses. Approximately 1,800 donations from across North America and around the world were received and the JRSD Fund managed to raise \$80,000.

Dr. Bruce Lauer, VE3QX, Rick van Gastel, VE3HVA and I legally established this fund as an *in vivo* trust with the able assistance of fellow Amateur and lawyer Timothy D. Ray, VE3XV, who is now a Justice of the Superior Court of Ontario, Eastern Region.

In order to suppress the appliances, John Simpson, VE3NJU – who was a specialist in the suppression of radio sensitive equipment – and I undertook this work. While some rear shielding of the electronic organ was made (from aluminum backed insulation) and a commercial line filter was

installed, only common mode chokes were used to clear up the remainder.

SUPPRESSION

I can say from personal experience that I wish the judge had been with us in the home when this suppression was undertaken. He (they) may have had a greater appreciation of the technical aspects of consumer equipment lacking poor immunity to radio frequency (RF). To make my case, all the appliances were successfully suppressed. Perhaps the biggest challenge was a plastic boom box which had been a recent Christmas present. It responded to the 7th harmonic of 20 metres which landed in the FM band. Have you ever tried to obtain a schematic of such a device from a distributor for a product made in China? Or even open it without breaking it? It truthfully took 125 phone calls from Ottawa to the distributor in Toronto – and it was only after a verbal threat of legal implications was made that the schematic was received. A 50 cent capacitor across the mixer IC cured this problem and with no degradation in performance.

For those familiar with EMCAB-2, the measured radiated field strength in the living room of the neighbour's home was 0.7V/m, well within limits – besides EMCAB-2 doesn't specify conducted levels which are and were 99% the cause of the effects.

The suppression fulfilled the Court's judgment and Jack's injunction was lifted, just before the Thanksgiving long weekend in 1988. When he attended Thanksgiving dinner with his family Jack had become aware, two days earlier, that he had an inoperable brain tumour and unfortunately became a Silent Key just 10 days later.

OPERATING WITHIN TERMS AND CONDITIONS OF LICENCE

Having worked intimately with Jack and his neighbour in resolving the lack of immunity in his neighbour's appliances, I can say that nothing was done to Jack's equipment except to add some small external shielding to the rear of the Collins transmitter. Does that send any kind of message to those who regulate and judge such cases?

There was also the issue of the 25 early morning phone calls to Jack's house that, when answered, did not have anyone at the other end. Subsequently, a recording device placed on Jack's phone line by the Ontario Provincial Police (OPP), indicated

the calls originated from his neighbour. This issue was never addressed because it had occurred after the trial evidence had been submitted. The originator of the calls did admit to the OPP that he had made the calls and his wife said, "They won't happen again".

If you should get into such a mess in the course of your Amateur Radio operation, ask yourself: is it worth *not* operating or is there room for the technical argument that appliances, which are not designed to operate as radio receivers or which will malfunction due to the presence of a local transmitter, should not be in place? And in particular, conducted "interference" where such appliances are most susceptible and where experience has shown that typical HF operation results in conducted signals that most consumer appliances can't handle because in North America there is no such technical requirement. (The irony of this is that over 95% of such effects at HF are eliminated by removing the common mode conducted currents).

The other remaining questions raised by this case are: which came first, the Laws of Physics – including the field coupling which directly contributed to the effects – or Linden's Canadian tort law of which nuisance is a part? In addition, the judges alluded to the argument of statutory authority which had not been presented at trial and was, therefore, excluded from the Appeal. This latter argument begs definition because it is this very statutory authority that gives US Amateurs the exemption they enjoy for antenna siting, under PRB-1.

PS – The microwave oven at the plaintiff's residence reacted to Jack's signal because of a defective component in this model (subject to dealer recall). When this component was replaced, Jack's signal had no effect on its sporadic operation.

PPS – This raises the issue as to whether narrow or broadband noise generated by consumer electronics constitutes nuisance when the effect is harmful to communications or simple listening?

ABOUT THE AUTHOR

Ralph Cameron, VE3BBM, has had an interest in suppressing radio sensitive consumer equipment for over 35 years and served as RAC's sponsored representative on the Radio Advisory Board of Canada for 12 years, during which he chaired the EMC Committee. He promotes responsible spectrum sharing at every opportunity and even comes out of retirement to do so. He is also the former "Crosswaves" columnist in TCA.



RADIO TALK 2012

Morrie Portnoff, VE2BWS

What do you get when you start off with four enthusiastic Amateur Radio operators, add six innovative Amateurs doing presentations, spice it up with a group of displays and a whole dollop of volunteers? The answer is an innovative radio event called Radio Talk 2012.

Let's go back two years in time. The West Island Radio Club (WIARC) for the longest time ran a conventional hamfest with an auction. Over the years, the financial benefit of the event came into question. After all this was one of many hamfests in the Montreal area including Laval and the South Shore of Longueuil. WIARC's hamfest was one of the smallest events and this started to reflect in the attendance. With nothing special to offer, there was a need to think outside the box. Along came one of WIARC's members who suggested we examine the future of the WIARC Hamfest/Auction. A member survey was conducted and this resulted in the first Radio Talk event in 2011.



It was decided to create an event which "is not a hamfest". Radio Talk is an event based on the sharing of ideas. An informal conference in a way. In its first year, the Radio Talk 2011 organizing team was composed of Terry Ladd, VE2WTQ, Malcolm Harper, VE2DDZ and I (VE2BWS).

An event like this does not happen over night. Approximately six months of planning is required.

It should be mentioned that the success of Radio Talk 2011 was not only due to the key organizers, but more so because of the WIARC members who volunteered to help and also the group of Amateurs who took the time to prepare interesting presentations and displays.

The success of the first year lead to Radio Talk 2012. This year, our sister club, the Montreal Amateur Radio Club (MARC), came on board adding Paul Iarrera, VE2OFH, to the team. Radio Talk 2012 was held on September 22 at the Loyola Campus of Concordia University just prior to the RAC Annual General Meeting.

This year we had six dynamic presentations. The groups who put on displays included Radio HF, Montreal Solder Spots, ARES, MARC and the CanWarn (CANadian Weather Amateur Network). With almost 70 Amateurs in attendance the presentation and display rooms were a buzz with excitement. In fact when Jimmy Howard finished his presentation on the use of laser beams he was inundated by people (fans) wanting to continue asking questions and taking a closer look at his homebrew equipment. Finally we had to announce that "Jimmy had left the building".

Finally, I must thank all of the organizing team and numerous volunteers including Dan Montpetit, VA2KEY (handling the audio), Charles Robitaille, VE2RFI (head chef of the kitchen), François Daigneault, VE2AAY (speaker logistics and timing), George Hedrei, VE2NGH (our video expert) plus many others who helped with setting up the venue and manning the various tables. Thank you... Thank you!

Finally, we must thank Ken Fraser, VE2KLF, the President of WIARC and his Executive body for supporting this initiative of the last two years as well as Vernon Ikeda, VE2MBS and Jim Hay, VE2VE, of the MARC Executive for their support.

Radio Talk 2013 promises to be even bigger and better. Please stay tuned for future announcements.

Full details of the presentations as well as pdf transcripts, photos and videos will be posted on the Radio Talk website at <www.radiotalk.ca> as they become available.

SECOND NOTICE TO RAC MEMBERS RESIDING IN ATLANTIC, MIDWEST AND BRITISH COLUMBIA/YUKON REGIONS

Call for Nominations of Candidates for Regional Director to serve on the Board of Directors of Radio Amateurs of Canada Inc.

The Secretary of Radio Amateurs of Canada Inc. hereby solicits nominations for the positions of Director for the Regions of Atlantic, British Columbia/Yukon and Midwest. Elections for these positions will be held in January 2013 to take office immediately to complete the two-year term to December 31, 2014.

Incumbents:

Atlantic: Everett Price, VO1DK

British Columbia/Yukon: William (Bill) Gipps, VE7ISV/VE7XS

Midwest: Derek Hay, VE4HAY (Not seeking reelection)

1. The Candidate:

- ✓ must be a Full Voting Member of RAC
- ✓ must have reached the legal age of majority
- ✓ must reside in the Region for which he or she is nominated

2. A candidate may not nominate himself/herself.

3. The nomination form will:

- ✓ be printed or typed
- ✓ clearly indicate the candidate's name, call sign and RAC membership number
- ✓ clearly indicate the names, call signs, RAC membership numbers and original signatures of ten (10) or more full voting members of RAC

4. The nominators must have reached the legal age of majority and must reside in the same Region as the candidate whom they are nominating.

5. Each candidate must:

- ✓ sign the nomination form, indicating a willingness to be nominated
- ✓ include with the nomination a brief biographical sketch/CV limited to 500 words succinctly setting out his/her background and qualifications. A candidate choosing to submit a biographical sketch in both English and French languages will be allowed 500 words in each language. The biographical sketch will not include any campaign platform material.

6. All original nominations and supporting documentation, including the biographical sketch, must be received by the Secretary of RAC at the address indicated on page 17 by 3 pm on January 11, 2013.

It is suggested (but not required) that the nomination forms be sent by registered mail.

Faxed or emailed documents will not be accepted.

- ✓ Clearly indicate on the mailing envelope that Nomination Documents are enclosed.

DEUXIÈME AVIS AUX MEMBRES DE RAC RÉSIDENTS DANS LES RÉGIONS DE : ATLANTIQUE, MID-OUEST ET COLOMBIE-BRITANNIQUE/YUKON

Appel de mises en candidatures pour le poste de directeur de région siégeant au conseil de direction de Radio Amateurs du Canada Inc.

Le Secrétaire de Radio Amateurs du Canada Inc. sollicite des candidatures pour le poste de Directeur pour les Régions de l'Atlantique et la Colombie-Britannique/Yukon. Les élections pour ces postes se tiendra en janvier 2013 pour occuper le poste immédiatement pour terminer le mandat de deux ans au 31 décembre 2014.

Candidats sortants :

Atlantique : Everett Price, VO1DK

Colombie-Britannique et Yukon : William (Bill) Gipps, VE7ISV/VE7XS

Mid-Ouest : Derek Hay, VE4HAY (Ne cherche pas à se faire réélire)

1. Le candidat :

- ✓ doit être membre en règle de RAC
- ✓ doit avoir atteint l'âge légal de la majorité
- ✓ doit résider dans la région pour laquelle il est mis en nomination

2. Un candidat ne peut se nommer lui-même.

3. La formule de mise en nomination devra :

- ✓ être dactylographiée ou imprimée
- ✓ montrer clairement le nom du candidat, son indicatif d'appel et son numéro de membre chez RAC
- ✓ montrer clairement le nom, l'indicatif d'appel, le numéro de membre RAC et les signatures originales d'au moins dix (10) membres en règle de RAC

4. Les nominateurs doivent avoir atteint l'âge légal de la majorité et demeurer dans la région du nommé.

5. Chaque candidat doit :

- ✓ signer la formule de mise en nomination, indiquant son accord d'être mis en nomination
- ✓ inclure avec la nomination une courte note biographique/CV, limitée à 500 mots, décrivant succinctement ses antécédents et ses qualifications. Un candidat qui désire soumettre sa biographie en anglais et en français se verra alloué 500 mots dans chacune de ces langues. Les notes biographiques ne devront inclure aucun élément de la plate-forme électorale.

6. Tous les documents originaux de mise en candidature et les documents reliés, incluant la note biographique, devront être reçus par le Secrétaire de RAC à l'adresse indiquée sur la page 17 d'ici par 15h00 le 11 janvier 2013.

Il est suggéré (mais pas obligatoire) que les documents de mise en candidature soient expédiés par courrier recommandé.

Les documents expédiés par courriel ou par télécopieur ne seront pas acceptés.

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- ✓ Your national voice, representing our interests at Industry Canada and throughout the world.
- ✓ *The Canadian Amateur* magazine, filled with news, regulatory information and articles of current interest. TCA covers topics of interest to all radio amateurs, both newcomers and old-timers alike.
- ✓ The *National outgoing QSL bureau*, for members only!
- ✓ And much, much more!

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- ✓ *The Canadian Amateur*, rempli d'actualités, les informations sur la réglementation et des articles d'actualité. TCA couvre des sujets d'intérêt pour tous les radio amateurs, les nouveaux amateurs et grands-grands.
- ✓ Le *bureau national sortant QSL*, pour les membres seulement!
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Membership Type: Full Member

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- Full – Family \$25
- Full – Blind \$25
- Full – Maple Leaf Operator \$100

Please note: Membership Dues are subject to GST and/or HST from your province of residence.

Membership Type: Associate Member

- Associate – Regular \$52
- Associate – Family \$25
- Associate – Blind \$25
- Associate – US \$90
- Associate International – \$130
- Associate – Corporate \$150
- Associate – Corporate International \$350



- ✓ The envelope will be held unopened until after the closing deadline of January 11, 2013. After this date, the Election Committee, under the supervision of the RAC Secretary, will open all submissions, review the documentation for accuracy, completeness and validity, and then announce the results of the Call for Nominations. The decision of the Election Committee is final.

- ✓ Should a balloted election be required in any of the regions, ballots will be mailed from RAC Headquarters on or before February 1, 2013.

Nominations must be sent to the following address:

Secretary, Radio Amateurs of Canada
 720 Belfast Road, Suite 217
 Ottawa, ON K1G 0Z5

Clearly indicate on the envelope "Nomination Documents".

- ✓ Indiquez clairement sur l'enveloppe qu'elle contient des formules de mise en candidature.

- ✓ L'enveloppe restera scellée, jusqu'après la fermeture des mises en candidatures du 11 janvier 2013. Après cette date, le comité électoral, sous la gouverne du secrétaire, ouvrira toutes les candidatures soumises, et vérifiera la documentation quand à sa validité, son exactitude et sa complétude, et annoncera ensuite le résultat de cet appel de mises en candidatures. La décision du comité électoral sera finale.

- ✓ Si une élection était requise dans l'une des régions, les bulletins de vote seraient postés du quartier général de RAC le premier février 2013 ou avant.

Les mises en candidatures doivent être envoyées à l'adresse suivante :

Le secrétaire, Radio Amateurs du Canada
 720 Chemin Belfast, Suite 217
 Ottawa, ON, K1G 0Z5

Indiquer clairement sur l'enveloppe « Documents de mise en candidature ».

WILD ALASKA: NA-161 – PLEASANT ISLAND

Heinz Buhrig, VA7AQ

This adventure began in early August with a phone call from Frank, VE7DP. He called to see if I would be interested in going to Pleasant Island in Alaska. He said the island hadn't been activated for at least 10 years and asked if I would like to participate. Needless to say it didn't take me long to say yes.

Our journey started on August 16, 2012 with a plane ride from Seattle to the small town of Gustavus, Alaska which is located about 100 kilometres west of Juneau. There we teamed up with Doc, KL7XK, a local resident and fellow Amateur Radio operator. He made extensive arrangements for us to get to Pleasant Island.

We reached our destination in the early afternoon of Friday, August 17 and it took two trips to get all our gear on the island. I stayed behind with the first load while Frank and Doc went back to bring the remaining supplies.

Doc was good enough to leave me a shotgun – just in case a bear happened to wander by while they were gone. Was I scared? Noooooo... well, maybe a little.

When Frank and Doug arrived with the second load, we began to set up our camp and antennas. It took us

less than two hours to erect an improvised shelter and a 15 to 20 metre vertical with elevated radials and we were ready to start. 14 MHz was open to the USA and Europe and we took turns operating. One person was attending to the pileups while the other two finished installing the Spider beam, 30m vertical, sleeping tents etc.

The bands faded out at sunset but by then we had about 500 QSOs in the log; a good start to the eagerly awaited reactivation of IOTA NA-161!

Just as the last rays of the setting sun illuminated the majestic peaks of the Fairweather Mountains (4600 metres above sea level) on the distant westerly horizon, dark clouds started to roll in. We spent a sleepless night inside our tents listening to gusting winds and rain – all in a futile attempt to stay dry.

From left: Heinz, VA7AQ, Doug, KL7XK and Frank, VE7DP, at Alaska Airlines in the town of Gustavus, Alaska.



An aerial photo of NA-161 – Pleasant Island in Alaska.



The storm had dissipated during the early hours of the dawn and the bright sunrise and blue skies revived our damp bodies and somewhat dampened spirits. While waiting for the bands to open, we spread out our wet clothing and sleeping bags on the driftwood and exposed rocks to dry and settled down to a leisurely breakfast.

By late morning, 20 and 17 metres slowly came alive, starting with signals mostly from North America and then around 19 UTC also from Europe. To our surprise we were able to operate on two bands simultaneously without crossband interference, using a band-pass filter and powering the second rig with 12-volt batteries. This really helped us to give full attention to the short and challenging openings into Europe and also increased the QSO rate by dividing the frantic pileups. After 22 UTC propagation shifted west/northwest to a steady stream of signals from Asia, 17m went quiet but 30 and 20 metres kept us busy into the evening hours.

We followed the same routine during the third day of the operation. Aside from that storm during the first night, the weather remained mostly sunny with temperatures

between 16 and 22 Celsius; altogether very "Pleasant".

We started breaking camp on Sunday at noon in order to time our departure during high tide. The Spider beam and one tent were left to be dismantled last, but the verticals and other supplies were packed up and loaded into the 16-foot skiff.



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Thirty minutes later I was back on mainland Alaska and, after three days without running water, looking forward to a shave and hot shower.

Frank, VE7DP, volunteered to stay behind and he worked the pileups until the last signal faded out and the bands went completely dead. By the time Doc returned to retrieve the last load, the only evidence of our stay on the island visible from the distance was the extension ladder supporting the spider beam.

The final result: almost 2,000 QSOs in the log; about half with European stations and a new one to many island chasers! Considering that propagation was poor during the entire activation, working in excess of 50 countries on five continents was a worthwhile effort and we were happy with the outcome.

My thanks and appreciation to Frank for suggesting this trip and to Doc, KL7XK, for providing the transportation and other essential supplies.



Photos of our camp on Pleasant Island.



CHECK YOUR BIRTH CERTIFICATE. WHEN DOES IT EXPIRE?

I don't know either. Nobody does but you know it will.

As Hank Snow said, "I'll never get out of this world alive." Neither will you.

So given that, what do you do about all that stuff you have accumulated over the years?

There have been lots of articles written about how to deal with it all. There are lots of reminders out there to get a professionally written will and to give away the toys you can bear to part with while you can still enjoy watching someone else use them. And of course leave money in your will to RAC, the RAC Foundation (two different entities, by the way), your local club, your favourite charities, and on and on. This note isn't about that. It's mostly about all the stuff.

Remember, the default – if you don't do anything with it – is the dumpster. Good, bad, ugly or brand new in the box, it all gets crushed if you don't deal with it. If you're OK with that, fine. If not, at least tag it. I suggest little coloured sticky dots, available at a dollar store, or at office supply stores, if you want to pay extra for glue that will actually stick until it's time for somebody to look at them. You can put them on things without telling everyone what they are for, without getting the family worried that you are on the way out. Set up a scheme like perhaps green for sell or give away to a friend, yellow for try to sell via a swap shop, club, hamfest or online. Of course you can do a better job of that than those who have to deal with it after you are gone.

Use red for no monetary value, give away or junk. Reserve white for "I don't know / can't make a decision about this". Just make sure you are stingy with the white dots and generous with the red ones. Of course, while doing all of this dotting, you can also dispose of items while you are on this side of the grass. At the same time, you can add black dots to those things that "just need a little work to get them back on the air". Deep down you know you are never going to get around to giving these items the TLC they need so give 'em a red and black dot. I know it's comforting to keep the IC22 around, since it works perfectly (almost perfectly) even if it doesn't have the tones needed to access the local repeaters these days. It is OK to keep some of that sort of thing around, but keep the volume of these items down to a manageable quantity – not the whole room.

This leaves the parts, materials, tools and those mysterious jars, tubes and cans of gunk.

By the time you are ready to part with them, those paints and chemicals might as well get the red dot treatment. Parts and hardware *may* be of use to someone, especially if they are well sorted and/or documented. So *sort* and catalogue them. Then give them a yellow dot.

Feel free to come up with your own system. There are lots of colours available, and a highlighter will let you generate even more colours. Just be sure to keep a note with your other papers explaining the whole scheme.

Speaking of notes, for the past several years (decades for you early adopters), you have been building up an online presence, with accounts on everything from eBay to Logbook of the World. They all have account names and passwords. Grab a piece of paper and start writing them all down. Make sure one and L, zero and oh can be distinguished. Then seal that paper in an envelope and put it with your other valuable papers. A safety deposit box, if you have one, is a good place for this document. It doesn't have to be accessed immediately, but it does need to be kept secure, for obvious reasons. If you are doing things right, it will need to be updated frequently – as you add accounts and change passwords – so put dates on the updates and add them to the box. If you are going to the bank anyway, you might as well put in the monthly backup disk from your computer. If you don't have one, I'm not going to nag, but...

Finally, put together your obituary so the things you think are important get in there. Include your date of birth, your call sign and your achievements along with that genealogical stuff about spouse, siblings, kids and parents. Your next of kin will probably want to add, delete and change it since they see you differently than you see yourself, but it is at least a starting point.

On that cheery point, remember that if you can do all these things, you are still having a good day.

73, Mike Kelly, VE3FFK – RAC HQ volunteer and keeper of Silent Keys for TCA

THE FRIENDLY JUNGLE TELEGRAPH AGAIN, EH....

Andy Neimers, VA1FJT and still the Friendly Jungle Telegraph

I had a "senior's moment" the other evening and I'm glad I did... Not the typical "what was the point I was about to make?" moment, but a useful one when the old brain cells yelled "why the heck don't you?!?", and so I did.

Let me explain...

In 2007 I bought a new Yaesu FT-1802 mobile 2m rig for one of our cars. The car was a 4WD compact and the only good mounting point required a rig with a big, bright digital readout to be functional. I already had a venerable Yaesu FT-212 2m bought back in 1990 to grace my then new truck. (It mounted nicely in front of the centre console.) The older rig was great but it's dimmer and much smaller display panel would have made it frustrating, if not dangerous to use, in the compact. So the FT-212 was retired for 2m base operating out of my shack.

But ever since acquiring the newer and "more clever" 1802 rig, I have had mini battles trying to program it to do a number of things. And I mean basic things, let alone the mysterious "ARTS polling time option" or the mystical "DCS code inversion". The fundamental problem was that, with only four programming buttons, I was pushed into playing the "menu" and "sub-menu" game whether I wanted to or not. Many of you will sense where I'm heading with this little rant...

They say the Devil is in the details and so he was. The clue that I was in for yet more frustration and gnashing of teeth was when to set a simple parameter, I had to cleverly distinguish between a "momentary" stab at said button; a "one second" stab on same; and/or horror of horrors – "within five seconds".

Now I'm willing to concede that my timing is not great, that's why I never became a piano virtuoso. But with the 1802 I was driven to suspect that this all too clever cast frame, bulletproof, little box had a mind of it's own, and on any given day had a clown's interpretation of what was a "dab"; a "one second dab" or the dreaded "five seconds"!

Fighting with the Devil, again, that night I had just about given up when the old grey cells lit up: "Hey, why not dig out the old 212 and do a comparison to see which is the better rig?"... So I did.

The next few days of A/B comparisons were illuminating. Both had about the same total Xmit power, but the 212 was a breeze to program and happily beeped as it scanned from one end of the 2m spectrum to the other. The difference came when both were asked to do some specific tasks. The older rig had nine buttons sticking up front as aside the four on the 1802. But then the 1802 had it's big mike with some buttons on it.

What I really liked about the older 212 was the prominent "Call" button up front which called up 146.520 and then jumped back to the scan mode when pressed again. For some strange reason the 1802 required me to revert to the VFO mode before resuming scanning.

But the 1802 had advantages like four transmit power levels to choose from, the ability to hold a channel for up to 10 seconds before resuming scanning (the 212 was five seconds), and, and, and the ability to control the brightness of its amber screen. Nice things for geezers like me to have...

To be fair, I have been averse to menu and sub-menu programming logic to anything I touch for many years. My first dance with the Devil was many years ago was the first cheap mini digital clock that I bought, which had all of two buttons to program 12/24 hour, hour, minute, second, alarm and date settings. I spent many "happy" hours playing with that cute little Devil's spawn until I realized that the

fractured English instructions were not at fault, but that the manufacturer had reversed the "mode" and "set" buttons! The air turned slightly blue with my incantations after that revelation...

All these may be signs of vintage years when one just grows tired of too many "little" buttons for my fat fingers and too many "clever" features in anything from cellphones to nightlight timers to digital cameras or the ubiquitous microwaves in everybody's kitchen. For instance, I know there is a "program" I can choose on my digital camera to enhance the taking of pictures by moonlight. But if you think I can remember how to "engage" this tool when the big harvest moon first looms over the horizon, you may as well bet on the Maple Leafs winning the Stanley Cup!

And I don't think I am the only one who finds "buried menu options" a pain. Otherwise why do those high-end HF rigs still boast all the army of buttons and dials up front where they can be tweaked in an instant?

So it's a tradeoff. In Amateur gear the penalty you pay for having a big readout screen on a compact "box" is less buttons standing proud and more menus and sub-menus hiding beneath the surface and just waiting for you to try to find them and program them.

The end result?

The end result of all this trial and tribulation is that the newer FT-1802M sits glowing bright amber, eager to scan and pounce on any signal, like my Cairn terriers Bertie and Nessie on a mouse. But to show its displeasure with my senior finger proddings, it now displays a mysterious "PO" code in the lower right-hand corner... And I can't find a "PO" code reference anywhere in that maze of an owner's manual! What then!? Is it just it's devilish way of saying it's "P.Oed" with this old ham??? By now I'm paranoid enough to think that is just so! Scary, I tell you downright scary....

ABOUT THE AUTHOR

Andy Neimers was licensed in 1989 and picked the call VE7FJT. The FJT turned into the "Friendly Jungle Telegraph" when he started writing his regular column on "the Amateur and the Internet" for The Canadian Amateur. That ran for five years and some 50 columns. He now operates as VA1FJT from Digby Neck, Nova Scotia and gets inspired to share his brand of "humour" now and then.

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QUA — A TOPICAL DIGEST

HAMUNIVERSE.COM

This website (www.hamuniverse.com) has a very comprehensive collection of links. Don't be put off by the rather outdated banner; the page has been brought up to date in 2012 and so have most of the URLs linked.

Topics of interest include HF, VHF and UHF antenna projects, code practice, digital, ATV, short wave listening, electronics, education, ham radio books, Elmer, HF groups, humor, ham radio licence study, ham radio magazines, software, technical topics, shortwave listening, Amateur Radio in space and much more.

PROPAGATION: THE FREE DICTIONARY

This may seem a strange place to go for a detailed tutorial on radio wave propagation, but the coverage here is very complete and well written. The Russian one comes from the Great Soviet Encyclopedia (1979) and is impeccably translated. I have an idea that not much on this topic has been discovered or negated since that date.

American

<http://encyclopedia.thefreedictionary.com/Radio-Wave+Propagation>

1979 Russian/Soviet

<http://encyclopedia2.thefreedictionary.com/Radio-Wave+Propagation>

GROUNDING AT THE RIG

Here is an interesting comment from W8JI on the Topband Reflector:

"Grounding of equipment on the desk has nothing to do with TVI or RFI, unless you have terrible antenna common mode or other cable issues bringing RF into the shack, or cable or connector issues in the shack. If earth was important, satellites and airplanes would have huge radio problems.

I think the myth that filters and equipment needs to be earthed comes from the false idea that filters divert unwanted signals to earth. Earthing is for low frequency and AC safety, unless you run a longwire from the desk tuner."

Someone had commented that with phono connectors, he squeezes the shell of the plug so that it will fit tightly on the female receptacle and covers the shell with heat shrinkable tubing so that the pressure is always applied to the connection.

W8JI responded:

"That's exactly what I do periodically when the connectors lose tension. I also use CM chokes (beads) near connectors in case they develop a little bit of resistance. If you want a very reliable connector style for receiving, use a type-F connector. Stay away from BNC's and other spring pressure connectors. Not only is cable prep fast, and cable readily available, everything is dumbed down to suit Larry-the-cable-guy."

LIGHTNING PROTECTION

VK3ZL uses two trailer towing balls set up for a spark gap on a 90-foot insulated mast in a very lightning prone environment. To date, after 25 years, with many direct hits, he has sustained no damage. The mast is located 20 feet from his lounge room.

SOLDERING OUTSIDE

It seems a no-brainer, but when soldering outside the shack, remember that if you have a conventional soldering iron (preferably a big one, lots of thermal mass), it is very easy to carry it and a propane torch to the site. Just heat the tip with the torch and solder away. Heat will be retained by the tip long enough to get the job done. It is safer than heating the work with the flame of the torch.

ACCOMMODATING POWER WARTS

If you buy a power strip, choose it carefully. Usually on a power strip the receptacle positions are too closely together to take warts on adjacent positions. Of course you can use an extension cord for each one (or pair).

If you are fussy, shorten the cords.

If you have a few of those power cords that have a special 3-pin connector that plugs into a computer, you can cut off the connector and replace it with one compatible with the warts, shortening the cable in the process. Don't be concerned about the way it looks — octopus arrangements are a tradition in Amateur Radio.



Bob Eldridge, VE7BS
920 Erickson Road
RR2 Pemberton, BC
V0N 2L2
E: ve7bs@rac.ca

If you *are* concerned, remember when buying a power strip to look for one that is wart-friendly in the arrangement of receptacle positions.

But even the slim 6-in-line power strip can be made compatible if you use some of those 1-to-3 plug-in adaptors like the one shown in the illustration below which has one adaptor and one extension; four warts are accommodated on the end two positions, leaving four positions for "normal" use — or for more adaptors! After all, the warts are for relatively low power devices and are not likely to be in use all at the same time.

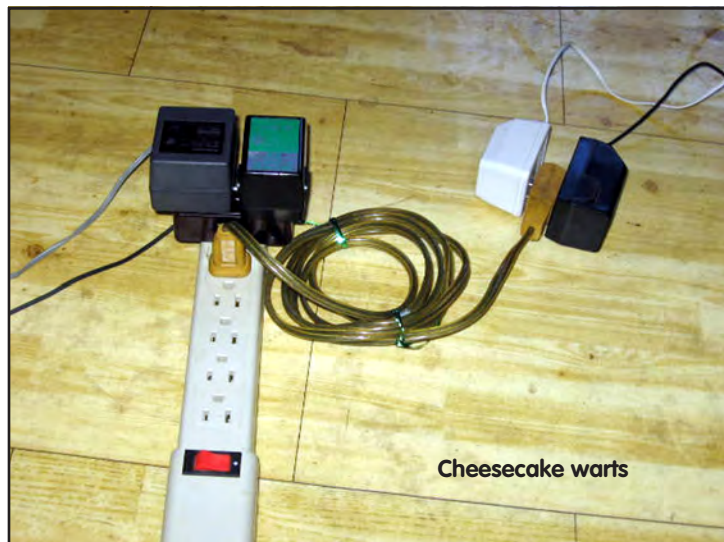
Unlimited possibilities, and there is probably a Guinness Book of Records entry for such things.

PROTECTING CONNECTORS / CONNECTIONS

KV4FZ says:

"Putting a small layer of tape on a connection first, then the Butyl, and then a more substantial layer of tape, it is much easier to inspect the connection should this be required later down the road.

Butyl on coax or wire connections is a real bear to remove because it sticks to everything and adheres to everything as it is supposed to."



Cheesecake warts

TS-940 BATTERY REPLACEMENT

The timer and memory batteries in the TS-940 and similar radios are lithium "coin" type batteries CR2032 and CR2450 that have solder lugs attached.

If you replace them with standard batteries you will find that the metal case will not take solder.

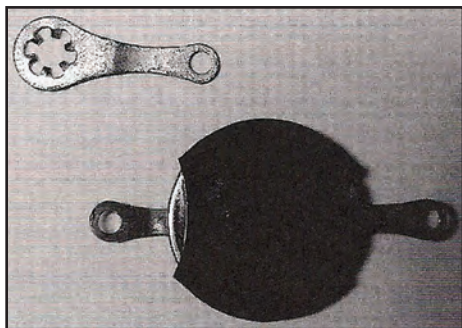
Slide each battery into a piece of half-inch diameter heat shrink tubing for the memory, a bit larger for the timer, and tuck ground lugs – preferably the type with serrated teeth – into the top and bottom.

Then heat the tubing; be careful to not overheat the battery.

The memory battery is on Unit A and you have to remove the speaker bracket and the top shield under it to gain access.

The timer battery is behind the LCD. When soldered into place, it is best to use some double-stick foam tape under each battery if the radio is to be moved around a lot.

After replacement, reboot the memory by holding the A-B button while switching on. The timer is good for about three years and the memory for about 5.



A pair of toothed-washer solder lugs are held tightly in place against a button-cell battery to make a replacement battery for the Kenwood TS-940 (and probably many other radios). (From W8JV in QST Hints and Kinks)

In a subsequent "Hints & Kinks", there were some follow-ups to this item. NR8U described how, when replacing the memory battery of a laptop computer, he was able to pry up and cut off enough of the soldered-on tabs to use them instead of new ground lugs, thus eliminating the need for soldering. K8MP found that when he bought a replacement lithium battery, the (battery specialty) store offered to tack leads on for him, using a small arc-welding setup.

That's customer service!

HOW TO RESET YOUR RAC PASSWORD

If you have forgotten your RAC password you can reset it by clicking on the link to the right of the grey login box, "forgot password" as shown below:

A screenshot of the RAC website's login page. At the top, there are navigation links: Home, Site Map, Contact RAC, Join RAC, Search, and Français. Below these, there is a section for logging in. It includes a 'Register' link, a field for 'Mbr. No.:', a field for 'Password:', a 'Member Login' button, and a 'Forgot your password?' link.

This will bring up a new screen as shown below (the bottom section is highlighted):

You can now enter your username (this is your RAC membership number) in the "Username" text input box and then click on the "Continue" button.

You will then receive an email (it will be sent to the email address that you have listed with RAC), which will have a 10-digit character password.

Please be sure to use this new password since resetting the password overwrites any previous password. When you log in please be sure to use the complete 10-character password (1234567890) that you have been given.

Once you have logged in you will see a new page which will allow you to choose a new password which you can remember.

A screenshot of the RAC password reset process. It shows two steps. The first step is a form with a label 'Please enter your callsign to have your username sent to the e-mail address in your profile.' and a text input field for 'Callsign'. Below the field is a 'Continue' button. The second step is a form with a label 'Please enter your username to have your password reset.' and a text input field for 'Username'. Below the field is another 'Continue' button.

Anyone out there in the readership of QUA that knows anything about small scale arc welding?

I have a problem jury-rigging three AA cells to replace the battery in a portable telephone (two replacement batteries in succession have failed in one cell of each three), and with the connection being on the end of each cell it just doesn't lend itself to the shrink wrap solution.

A long time ago in this column I mentioned my German "assistant" at D2GQ who showed me how to do a sort of solder/brazing/welding job using a high current / low voltage transformer and the carbon rod from a primary cell. But that was for joining two pieces of copper wire, amenable to normal soldering.

Hey! It has just occurred to me that maybe I could just cut connecting tabs of the usable cells, leaving them tacked on, and join the solderable tabs.

Now to find the unserviceable batteries, if I still have them. I remind you that I am old, still living in the days of building our rigs and make-do-and-mend.

REDUCING FAN NOISE

When using an attached muffin fan for cooling a heat sink, advisable when using a power supply or rig on a mode that involves a high duty cycle, the noise can be disturbing.

If you use two fans, wired in series, the noise is vastly reduced and the cooling often quite adequate. The fans must be similar in power requirement, preferably identical, to be sure they will run at the same speed.



DO YOU HAVE QUESTIONS ABOUT EXAMINATIONS, CALL SIGNS?

**Industry Canada
Amateur Radio Service Centre
PO Box 9654,
Postal Station "T",
Ottawa, ON, K1G 6K9
<spectrum.amateur@ic.gc.ca>
1-888-780-3333 (Toll free)
Fax: 1-613-991-5575**

FRESH ON THE AIR

— ADVENTURES FOR THE NEW AND BEGINNING HAM

GOOD OPERATING SKILLS ARE JUST AS IMPORTANT AS TECHNICAL KNOWLEDGE

As a new Amateur Radio operator, you are expected to know quite a bit about electronics, radio wave propagation, and antenna theory. What you should also know is how to conduct yourself properly and professionally on the air.

Over the last few months I've listened to several conversations and many Amateurs on both simplex and repeater frequencies. I must say that some of the things I've heard were appalling and reminded me of the typical CB operator that Amateurs still complain about (not to knock CB or CB operators but the fringe users of CB are the ones who've given that hobby a bad name in our hobby).

Rudeness, lack of respect for rules – such as the lack of, or ignorance of, identification, and using short forms of call signs – swearing, and other shocking behaviour, left me a tad ruffled to say the least, especially as this behaviour was done by what my impression would be, experienced Amateurs. As such, I thought it might be a good time to once again touch on the on-air behaviour that new Amateurs should practise and endorse.

As a newcomer to the hobby, you are the fresh blood that is injected into an old and established community. You are the ones who will take over the hobby as the old guard descends into Silent Key operations. How you regard (and act in) the hobby will dictate how the hobby will progress over the next few decades (barring December 21 of course). So listen up, Newbie's. We are going to learn good behaviour and excellent operating skills right now.

Joining a QSO: We are a community of many and everyone is welcome to use each and every frequency assigned for Amateur Radio. Nobody owns any frequency and no one is more important than anyone else. If you are in a conversation with someone and another Amateur wishes to join in, it is respectful and expected that you will acknowledge the joinee and invite them in with courtesy and sincerity. Maintain a silent period between transmissions to allow another

user to request to join. On the other hand, if you wish to join a conversation, you cannot simply throw yourself into it. Have manners and wait until there is a space between transmissions, then state your call sign. The parties already in the QSO should acknowledge you and invite you to join during the next break. Do not be aggressive in requesting to join the conversation. Be polite when joining in, and be polite when someone requests to join in.

Identification: By regulation, you must identify your station at the beginning and end of each QSO and at least every 30 minutes in between. You can identify every two minutes if you want, but you must identify your station as above at a minimum. And that means your whole call sign. The whole thing, such as "VE3BOC". Not "BOC"; not "Bravo Oscar Charlie"; not "Being Overly Cautious", "Bring Over Coffee", or "Billy Owes Cash". Either "VE3BOC", "VE3 Bravo Oscar Charlie" or "Victor Echo Three Bravo Oscar Charlie". No shortening your call, no funny wording. The full call and proper phonetic wording if using it, please. Anything else puts you in violation of the regulations and is very unprofessional for the hobby.

Don't Hog the Frequency: Nobody wants to hear a three-minute soliloquy over the air, even if it is Amateur Radio related. Remember that there are other users on the frequency as well, possibly some with emergency communications. Keep all transmission to a maximum of 30 seconds. If your radio has a time-out timer function, please set it so it cuts you off if you have a bout of verbal diarrhea.

Suitable Topics: Do *not* include graphic descriptions of medical conditions or procedures, gossip about other people, negative comments about other people or Amateurs, topics and talk that others may find offensive (religion, racism, sexism, etc), and other such nasty things. Keep QSOs away from these areas entirely. This is for private talk only. Use the phone or email instead.



Phillip Boucher, VE3BOC
E: phillipboucher@gmail.com
www.phillipboucher.com

Suitable Language: Ok for #*&% sake keep the @\$%\$^&!* conversation away from *\$^ language and \$\$^&*^ swear words for %\$^&% sake! \$\$\$ of a &%###\$. In other words, don't swear over the air. It is extremely unprofessional, illegal, and makes you look like a &\$\$##^& twit for sure.

Calling Frequencies are not Operating Frequencies: Standard calling frequencies such as 146.520 and 446.000 MHz are just that: calling frequencies only. They are used to initiate or establish communications with another operator. Once that is done, you must move your QSO to another simplex frequency or repeater frequency. Keep the calling frequencies free from QSO so everyone can use them as intended.

Remember that we are not the only one's listening to Amateur Radio frequencies. There are many people with scanners who are listening to our communications, either as a hobby unto itself, or in preparation of becoming an Amateur.

It is important that we conduct ourselves properly and professionally on the air so that anyone, other Amateurs or non-Amateur listeners, will be impressed with our hobby and with us. Please ensure that your operating habits today are the same ones you have tomorrow and in the future.

Transmission Tidbit: Confusion says: "Ham who touch antenna while transmitting turn into Ham burger."

Comments, questions, kudos, and complaints (if you must) are all welcome. Also, if you've sent me a message previously and have not received a reply, please try me again. Emails and such can be buried under a hectic day's activities. Write me via the magazine; email me at <phillipboucher@gmail.com>, or via my website at <www.phillipboucher.com>. New E-book to be available end of 2012, "The Complete Guide to Yaesu's VX-6R".



THE ILLW: A FUN WEEKEND OF ANTIQUES AND CLASSICS

Maurice-André Vigneault, VE3VIG

What is the difference between an antique and a classic? Some antiques can be classics by their uniqueness, but, by far, not all of them are. Also, some classics can be ancient but not necessarily; like a more recent unique unit. What I am talking about are radios.

During the annual special event weekend for International Lighthouses and Lightships (ILLW), which took place on August 18 and 19, Paul, VE3NJS, brought in his Yaesu FT-767 and a 160m dipole antenna for evaluation.



Now, this Yaesu would not be considered a classic as it is a run-of-the-mill, good old HF transceiver. And it's almost an antique. It is difficult to classify as it is somewhere in between a boat anchor with integrated power supply and a more modern semi-conductor unit.

Nevertheless, Paul rigged up his dipole in adjacent trees and his radio in the Ottawa Valley Mobile Radio Club (OVMRC) trailer, intending to spend the night to prove it out.

The Canada Science and Technology Museum in Ottawa once again gave us permission to set up on their grounds where their antique lighthouse is located.

Each year, we activate the old Cape North Lighthouse at the museum. Paul, VE3NJS, Michel, VE3EMB and Robert, VE2AGE, got busy around 10 am on Saturday installing the OVMRC club trailer, antennas and generator on the site.

We used the club's Kenwood TS-850 Sat to feed the Cushcraft R7 antenna mounted on the trailer.

We were "open to the public" and also had some Amateur visitors among which were Ken, VE3SRS, Bob, VA3QV and James, VE3MYZ, who contributed by filling the log with contacts.

Paul and Robert setting up the OVMRC trailer.

The 20m band came alive after 3 pm and I had the pleasure of a couple of small pileups. We operated Voice and CW on the five classic bands.

This is not a contest and we enjoyed the leisurely pace of operation. We were able to log some lighthouses and some special event stations and the total count is not as important as the participation.

You can consult the "Entrants List" at <www.illw.net> to see if the lighthouse near you was activated. The main purpose of the ILLW is to develop an awareness for the preservation of lighthouses around the world.

This year, there were 473 lighthouses and lightships activated in 47 countries. We have been participating in the ILLW since its inception in 1998. You can browse the archives of *The Rambler* newsletter on the Club's website to read about our continuous participation. Just visit <www.ovmrc.on.ca> and click on "Newsletter".

It was a very enjoyable Field Day type of event where newcomers can try their hand on the HF bands. By the way, we made 108 contacts among which 11 were Lighthouses.

Paul spent the night scanning the 160m band and hearing some stations, but he was unable to reach them due to a combination of radio set up problems and a doubtful balun unit on the dipole.

A great big thanks go to Paul for towing the trailer in and out, installing it and operating the bands, and then folding up the site.



The old Cape North Lighthouse.

Thank you also to the museum once again and to all who participated in this fun event.

By the way, to return to my introduction, there is a recent radio that will soon be recognized as a classic as many aficionados are adding it to their collection of classics. What makes it a classic is its uniqueness. The Elecraft KX3 is a marvel!. Thanks Michel for letting me trying it out.



Indeed, Michel set up his KX3 on a picnic table at around 8 pm on Saturday and plunked a magmount, multiband Opec 400 vertical antenna on the roof of his SUV. At my first try, on CW, I raised station WB8APR in Michigan and got a 599 report on my 10 watt signal.

I then tried Voice and immediately raised another station, NA4K in Tennessee with an equal report. Absolutely amazing quality!

TCA



**ST. IGNATIUS OF LOYOLA PARISH CHURCH,
MONTREAL, QUEBEC – SEPTEMBER 22, 2012**

**ÉGLISE DE LA PAROISSE ST-IGNACE DE LOYOLA,
MONTRÉAL, QUÉBEC – 22 SEPTEMBRE 2012**

1) President's Welcome

President Geoff Bawden, VE4BAW, called the 19th Annual General Meeting of the members of Radio Amateurs of Canada to order at 4:20 pm, EDT. There were 60 members present and 21 members attending via the webinar. An extended welcome was given to the Montreal Amateur Radio Club on their 80th anniversary and to President Paul Iarrera, VE2OFH and Past President James Hay, VE2VE, and guests: WRC Representative Bryan Rawlings, VE3QN; IARU Region 2 Director Daniel Lamoureux, VE2KA; RAQI President Guy Lamoureux, VE2LGL; ARES EC Pat Barrett, VE3RNH and RAC HQ volunteer Neil Herber, VE3PUE.

2) Introduction

President Bawden introduced members of the 2012 Executive and Board of Directors that were attending. It was noted for the second time the AGM was being offered as a webinar to RAC members.

- First Vice-President, Ian Mac Farquhar, VE9IM
- Chief Field Services Officer, Doug Mercer, VO1DM
- International Affairs Officer, George Gorsline, VE3YV
- Chief Information and Technology Officer, Paul Burggraaf, VO1PRB (via webinar)
- Honourary Counsel, Marcel Mongeon, VA3DDD
- Quebec Director, Sheldon Werner, VA2SH
- Deputy Director Quebec, Normand Pitre, VE2NHH
- Deputy Director North/East, Glenn MacDonell, VE3XRA
- Midwest Director, Derek Hay, VE4HAY (via webinar)

3) Moment of Silence

A minute of silence was observed in memory of Silent Keys. Special remembrance for Vernon Erle Ikeda's Father who passed away recently.

4) Approval of 2011 AGM Minutes

Motion # 2012-29: Moved by Roderick Bolton, VA3RRZ and seconded by Barclay Nutter, VE3HAH, to approve the minutes from the 2011 RAC Annual General meeting held at the Battery Hotel and Conference Center, St. John's, NL on July 30, 2011 as written. All in favour; motion carried.

5) President's Report

A hearty congratulations was extended to the Montreal Amateur Radio Club on their 80th anniversary. President Bawden opened his report by expressing that Amateur Radio is thriving largely based on four elements: camaraderie; access (open to all ages and abilities); intellectual challenge; and civil duty. Amateurs are facing threats through public indifference, technological and communications advancements, distracted driving and encroachments on Amateur spectrum.

RAC believes that we advocate on behalf of all Amateurs but provide services to our members. This is evidenced in the growing support from committed Amateurs joining our prestigious Maple Leaf Operators group.

1) Le président souhaite la bienvenue

Le président Geoff Bawden, VE4BAW, déclare ouverte la 19^{ième} assemblée générale des membres de Radio Amateurs du Canada à 16h20 HAE. On a dénombré 60 membres présents et 21 participants via webinar. En raison de 80^{ième} anniversaire du Club Radio Amateur de Montréal, une bienvenue spéciale fut adressée à son président Paul Iarrera, VE2OFH, à l'ancien président James Hay, VE2VE et à d'autres invités : le représentant de WRC Bryan Rawlings, VE3QN; le directeur de la région 2 de l'UIRA Daniel Lamoureux, VE2KA; le président de RAQI Guy Lamoureux, VE2LGL; Pat Barrett, VE3RNH, coordinateur urgence (EC) de ARES et Neil Herber, VE3PUE, bénévole au siège social de RAC.

2) Introduction

Le président Bawden a présenté les membres du Conseil exécutif 2012 et du Conseil d'administration (Board of Directors) qui participaient à l'assemblée. On a rappelé que la participation à l'AGM via webinar était possible pour les membres de RAC.

- Premier vice-président, Ian Mac Farquhar, VE9IM
- Chef des services sur le terrain (Field Services), Doug Mercer, VO1DM
- Responsable des affaires internationales, George Gorsline, VE3YV
- Responsable en chef de l'information et de la technologie, Paul Burggraaf, VO1PRB (via webinar)
- Conseiller juridique, Marcel Mongeon, VA3DDD
- Directeur du Québec, Sheldon Werner, VA2SH
- Assistant directeur du Québec, Normand Pitre, VE2NHH
- Assistant directeur du nord-est, Glenn MacDonell, VE3XRA
- Directeur de l'ouest central (prairies), Derek Hay, VE4HAY (via webinar)

3) Minute de silence

Une minute de silence a été observée en mémoire des « clés silencieuses ». Souvenir spécial en l'honneur du père de Vernon Erle Ikeda qui nous a quitté récemment.

4) Approbation du procès verbal de l'AGM de 2011

Motion no. 2012-29: Il a été proposé par Roderick Bolton, VA3RRZ et appuyé par Barclay Nutter, VE3HAH, d'approuver le procès verbal de l'AGM 2011 de RAC tenue au Battery Hotel et au Centre de conférence de St. John's, N-E, le 30 juillet 2011 tel quel. Adopté à l'unanimité.

5) Rapport du président

Des félicitations cordiales ont été adressées au Club Radio Amateur de Montréal à l'occasion de son 80^{ième} anniversaire. Le président Bawden a débuté son rapport en soulignant les quatre éléments de base du radioamateurisme: camaraderie; accessibilité (tous âges et compétences); défi intellectuel et responsabilité civile. Les amateurs font face aux menaces que représentent l'indifférence du public, le développement des technologies et des communications, la conduite inattentive et les empiètements sur le spectre amateur.

RAC estime que nous devons représenter tous les amateurs et accorder des services à nos membres. La croissance du soutien des amateurs au groupe de prestige "Maple Leaf Operators" en est une évidence.

What has RAC done in 2011-12?: RAC has practised fiscal prudence and will achieve solvency in 2012, as evidenced in the 2011 Financial Statements posting an operating surplus of \$31,247 versus a deficit of \$9,141 in 2010. A positive trend considering the much larger deficits reported in the previous several years. We found fiscal bottom in 2010 and membership bottom in 2011 and are trending upwards. We have established a "Standing Committee on Official Languages" chaired by Quebec Director Sheldon Werner, VA2SH. In the fourth quarter of 2012 we will provide a discounted membership with an electronic version of TCA (eTCA); a hard copy will be made available to members at a slight premium.

RAC co-chairs with Industry Canada the Canadian Amateur Radio Advisory Board (CARAB); this was the main vehicle to communicating RAC's position regarding 60 metres and other regulatory changes. RAC anticipates that Amateurs will have access to channels in the 60m band by year's end. RAC has also played a key role in ensuring exemptions under various provincial distracted driving legislations. Ontario has consulted on a five-year extension to the Amateur Radio exemption and we plan to revisit the New Brunswick ban on mobile Amateur Radio use at the appropriate time. We have addressed infringements by third parties on Amateur frequencies with Industry Canada. We have also restructured the Field Services in Ontario to four sections, each with its own Section Manager. Bryan Rawlings, VE3QN, attended the 2012 World Radiocommunication Conference (WRC) as a member of the Canadian delegation and was instrumental in reaching international agreement on expanding Amateur access to frequencies around 600 metres. RAC will work with Industry Canada to ensure that Canadian Amateurs have access.

We look for a year of membership growth, continued advocacy for the protection of spectrum and continued improvement in the health of RAC and Amateur Radio.

Motion # 2012-30: Moved by Bryan Rawlings, VE3QN and seconded by Anne Nutter, VE2KLF, to approve the President's Report as presented. All in favour; motion carried.

6) Acceptance of 2011 Audited Financial Statements

Motion # 2012-27 ¹: Moved by Doug Leach, VE3XK and seconded by Kenneth Fraser, VE2KLF, to accept the 2011 Audited Financial Statements as presented. All in favour; motion carried.

7) Appointment of Auditors

Motion #2012-28 ²: Moved by Paul Iarrera, VE2OFH and seconded by Sheldon Werner, VA2SH, that Collins Barrow Ottawa LLP, be appointed as the RAC auditors for 2012. All in favour; motion carried.

8) Adjournment

Moved by Daniel Lamoureux, VE2KA and seconded by Guy Lamoureux, VE2LGL, to adjourn the meeting at 5:15 pm EDT.

¹ **Motion: #2012-27** wording from recommendation to the membership from Annual Board of Directors Meeting, September 13, 2012

² **Motion: #2012-28** wording from recommendation to the membership from Annual Board of Directors Meeting, September 13, 2012

*Recorded by Paul Burggraaf, VO1PRB
Chief Information and Technology Officer
September 22, 2012*

Quelles sont les réalisations de RAC en 2011-12? RAC a été rigoureux sur le plan de sa gestion financière et parviendra à un bilan positif en 2012, tel que tend à le démontrer son surplus financier opérationnel de 31,247 \$ en 2011. 2010 affichait un déficit financier de 9,141 \$. C'est donc une tendance positive par rapport aux importants déficits de plusieurs années précédentes. Nous avons atteint le déficit maximal des états financiers en 2010 et celui du nombre de membres en 2011. Les deux sont maintenant en redressement. Nous avons mis sur pied un comité permanent des langues officielles présidé par le directeur du Québec, Sheldon Werner, VA2SH. Dans le quatrième trimestre de l'année de 2012, nous offrirons des cartes de membres à prix réduit avec une version électronique de TCA (eTCA). Une copie papier sera disponible pour les membres moyennant un léger supplément.

RAC partage la présidence de "Canadian Amateur Radio Advisory Board (CARAB)" avec Industrie Canada. CARAB est l'interlocuteur par excellence pour faire connaître la position de RAC à propos du 60 mètres et autres changements aux règlements. RAC prévoit que les amateurs auront accès aux canaux de la bande du 60 mètres pour la fin de l'année. RAC a aussi joué un rôle central dans les démarches d'exemption relatives à la loi sur la conduite inattentive des différentes administrations provinciales. L'Ontario a défendu ses intérêts quant à un allongement de cinq ans relatif à l'exemption radioamateur. Pour le Nouveau-Brunswick nous prévoyons revenir à la charge auprès du gouvernement pour contrer le bannissement des radios mobiles, mais à un moment plus propice. Nous avons averti Industrie Canada d'infractions venant de tierces parties à propos de l'usage de fréquences amateurs. Nous avons aussi restructuré en quatre sections les Services sur le terrain (Field Services) en Ontario de manière à ce que chaque section ait son propre gérant. Bryan Rawlings, VE3QN, a participé à la Conférence mondiale des radiocommunications (WRC) de 2012 comme membre de la délégation canadienne ; il a participé activement à la présentation d'une résolution internationale sur l'accès des amateurs aux fréquences près du 600 mètres. RAC travaillera de concert avec Industrie Canada pour assurer l'accès du 600 mètres aux amateurs canadiens.

Nous prévoyons accroître le nombre de nos membres cette année, continuer de défendre le spectre et poursuivre l'amélioration de la santé de RAC et du radioamateurisme.

Motion no. 2012-30: Il est proposé par Bryan Rawlings, VE3QN et secondé par Anne Nutter, VE2KLF, d'approuver le rapport du président tel que présenté. Adopté à l'unanimité.

6) Adoption des états financiers vérifiés de 2011

Motion no. 2012-27 ¹: Il est proposé par Doug Leach, VE3XK et appuyé par Kenneth Fraser, VE2KLF, d'accepter le rapport financier vérifié pour 2011 tel que présenté. Adopté à l'unanimité.

7) Nomination des vérificateurs

Motion no. 2012-28 ²: Il est proposé par Paul Iarrera, VE2OFH et appuyé par Sheldon Werner, VA2SH, que Collins Barrow LLP d'Ottawa soit nommé vérificateur financier de RAC pour 2012. Motion adoptée à l'unanimité.

8) Ajournement

La levée de l'assemblée est proposée par Daniel Lamoureux, VE2KA et appuyée par Guy Lamoureux, VE2LGL. Il est 17h15 HAE.

¹ **Motion: 2012-27** : tiré de la recommandation faite aux membres lors de la réunion annuelle du Conseil d'administration du 13 septembre 2012

² **Motion: 2012-27** : tiré de la recommandation faite aux membres lors de la réunion annuelle du Conseil d'administration du 13 septembre 2012

*Compte rendu par Paul Burggraaf, VO1PRB
Responsable en chef de l'information et de la technologie
22 septembre 2012*

Traduction par Claude Lalande, VE2LCF. Merci Claude!



RADIO AMATEURS OF CANADA INC./RADIO AMATEURS DU CANADA INC.

Condensed Financial Statements for the year ended December 31, 2011

Balance Sheet

December 31	2011	2010
Assets		
Current		
Cash and short term investments (Note 1)	141,007	88,825
Accounts receivable	11,213	8,114
Inventory	8,243	16,140
Prepaid expenses	5,337	1,412
	165,800	114,491
Capital assets (Note 2)	1,577	1,355
	167,377	115,846
Liabilities and Net Assets Deficiency		
Current		
Accounts payable and accrued liabilities	40,514	33,986
Current portion of deferred membership revenue	111,761	81,422
Current portion of deferred lease inducement	847	1,842
	153,122	117,250
Deferred membership revenue (Note 3)	11,205	26,514
Deferred program revenue (Note 4)	15,744	14,985
Deferred lease inducement	—	1,038
	180,071	159,787
Net assets deficiency		
Internally restricted for investment in capital assets	1,577	1,355
Unrestricted	(14,271)	(45,296)
	(12,694)	(43,941)
	167,377	115,846

Statement of Changes in Net Assets Deficiency

For the year ended December 31	2011	2010
	Net Assets	Net Assets
Balance, beginning of year	(43,941)	(34,800)
Excess (deficiency) of revenue over expenses for the year	31,247	(9,141)
Balance, end of year	(12,694)	(43,941)

Statement of Operations

For the year ended December 31	2011	2010
Revenue		
Sales	12,512	21,512
Investment income	1,067	982
Membership	198,123	198,517
Magazine advertising	23,666	34,117
Other income	36,568	16,546
	271,936	271,674
Expenses		
Amortization of capital assets	1,028	682
Annual meeting	—	7,394
Bad debts	853	4,397
Bank charges, merchant fees and interest	6,978	8,182
Cost of sales and royalties	11,472	15,763
Dues and memberships	4,091	7,488
Equipment leases and charges	5,260	6,913
Executive and directors	—	990
Insurance	31,052	18,352
Magazine production	83,283	103,272
Office	14,439	10,796
Professional fees	9,625	15,671
QSL bureaus	7,695	7,962
Rent	18,020	18,020
Telephone	1,570	5,540
Wages and benefits	45,323	49,393
	240,689	280,815
Excess (deficiency) of revenue over expenses for the year	31,247	(9,141)

Statement of Cash Flows

For the year ended December 31	2011	2010
Cash flows from operating activities		
Excess (deficiency) of revenue over expenses for the year	31,247	(9,141)
Adjustments for		
Amortization of capital assets	1,028	682
Amortization of deferred lease inducement	(2,033)	(2,032)
	30,242	(10,491)
Changes in non-cash working capital items		
Accounts receivable	(3,099)	6,861
Inventory	7,897	744
Prepaid expenses	(3,925)	4,959
Accounts payable and accrued liabilities	6,528	7,268
	37,643	9,341
Cash flows from investing activities		
Capital asset additions	(1,250)	—
Cash flows from financing activities		
Net increase in deferred membership revenue	15,030	4,262
Net increase in deferred program revenue	759	760
	15,789	5,022
Increase in cash during the year	52,182	14,363
Cash and short-term investments, beginning of year	88,825	74,462
Cash and short-term investments, end of year	141,007	88,825

1. Cash and Short-Term Investments

The association's bank accounts are held at one chartered bank and earn nominal interest. The GIC investment is held at one chartered bank and is recorded at fair value, which is equivalent to cost plus accrued interest, earns interest at 2.1% per annum, is non redeemable and will mature in July 21, 2012. The association has a maximum credit facility of \$15,000 which was unused at year end.

2. Capital Assets

	2011			2010		
	Cost	Accumulated Amortization	Net Book Value	Cost	Accumulated Amortization	Net Book Value
Office furniture	3,206	2,082	1,124	1,957	1,957	—
Office machines	8,244	8,009	235	8,244	7,541	703
Computer equipment	1,303	1,085	218	1,303	651	652
	12,753	11,176	1,577	11,504	10,149	1,355

3. Deferred Membership Revenue

Deferred membership revenue represents memberships received during the current year or in prior years that relate to future years. Changes in deferred membership revenue are as follows:

	2011	2010
Balance, beginning of year	107,936	103,674
Amounts received during the year	213,153	202,779
Recognized as membership revenue during the year	(198,123)	(198,517)
Balance, end of year	122,966	107,936
Less current portion	111,761	81,422
Long-term portion	11,205	26,514

4. Deferred Program Revenue

Deferred program revenue represents donations received to be used exclusively for the ARES Program and Youth Education Program. Revenue is to be recognized in the year that related expenses are incurred. Changes in deferred program revenue are as follows:

	ARES Program	Youth Education Program	2010 Total	2009 Total
Balance, beginning of year	7,459	7,526	14,985	14,225
Amounts received during the year	371	863	1,234	1,925
Amounts recognized as revenue during the year	(143)	(332)	(475)	(1,165)
Balance, end of year	7,687	8,057	15,744	14,985

RAC YOUTH EDUCATION PROGRAM UPDATE

Brian Jackson, VE6JB
RAC Youth Education Program Coordinator

WELCOME TO SHAFTESBURY!

Welcome to Shaftesbury High School in Winnipeg, Manitoba as the newest member of the RAC Youth Education Program. Teacher Rob Streimer, VE4SHS, is no stranger to TCA readers for his work with the SHARP high altitude balloon work. In conjunction with the Winnipeg Amateur Radio Club, their hope is to build student knowledge and technical skills in order to solve challenging problems. Along with continuing their work with SHARP, the Shaftesbury High School program looks to make an Amateur Radio on the International Space Station (ARISS) contact in the near future.

We are looking for specific skills and equipment to make Shaftesbury's ARISS hopes a reality. To the Amateurs in the Winnipeg area, is there anyone who has these skills or the satellite equipment needed for this contact? If so, please contact me at <VE6JB@rac.ca>. We could sure use your help!

THANK YOU TO OTTAWA

A special thanks to the Ottawa Amateur Radio Club for their donation to the YEP. This money will go far to get equipment into classrooms across the country. We appreciate the generosity of this club. If you or your local club would like to make a similar donation, please take a look at the YEP pages on the RAC website for more information:

- www.rac.ca/en/rac/programmes/youth-education/help/

IDEAS FOR CLUBS

Does your club have a school nearby? Is there any opportunity for you to spend time with students in hopes that they catch the "Amateur Radio bug" like we have?

There are many ideas for introducing Amateur Radio to students:

- Just set up a demo station at lunch hour in a place where students can come by and hear any contacts on a variety of bands. Allow them to take the mic and chat with the other end of your contact.
- Work with a group of students using CW. Set up a key without the radio and have students practise their sending skills.
- Give a demonstration to a high school physics class on the nature of radio waves in the electromagnetic spectrum.

Talk to the school administration and offer your services and expertise. Ask to speak to the science teachers to make a connection with them and find out where your skills and knowledge can fit into their curriculum. Whatever you do, please take the chance to find a way to show off our awesome hobby to the youth in your area.

CALL FOR RESOURCES

Are there lesson plans that you have used or seen in use that have worked well with youth? Have there been activities that you or others have used that you are able to share with other Amateurs around the country? Have you attended a conference or convention and found an idea that could be used to inspire our youth to pick up the mic for the first time?

The YEP is looking for ideas like these that we can share with clubs and individuals. Please send these along to me at <VE6JB@rac.ca>. I will be sure to give you credit for the resources that you share.



5. Capital Disclosures

The association defines capital as its net assets and the association's objectives when managing capital are to maintain flexibility between:

- enabling it to operate effectively;
- providing liquidity and access to net assets for growth opportunities; and
- generating predictable cash flows for the continuing operations of the association.

The association manages the capital structure and makes adjustments to it in light of changes in the economic conditions and the risk characteristics of the underlying assets. The Board of Directors does not establish quantitative return on capital criteria; but rather promotes year over year sustainable surpluses in order to maintain operations.

6. Commitments

Leases

The association has a lease for its office premises for \$18,020 per year plus taxes until expiry on May 31, 2015, inclusive of common costs and utilities.

The association leases office equipment under an operating lease with annual payments of \$5,187 plus taxes expiring in August 2012 and \$1,149 expiring November 2012.

The aggregate lease payments for the unexpired term of the leases are as follows:

2012	22,004
2013	18,020
2014	18,020
2015	7,508

Life Memberships

Radio Amateurs of Canada Inc. is the product of the dissolution of two not for profit corporations, Canadian Amateur Radio Federation Inc., and Canadian Radio Relay League Inc. The association recognizes an ongoing commitment to provide membership services (full voting or associate) to persons who held "life status in the association" of the dissolved corporations. This life member liability does not appear as a dollar value on the financial statements, as per the policy decision adopted by the Board of Directors in September 1993.

7. Comparative Information

The comparative amounts presented in the financial statements have been restated to conform to the current year's presentation.



The condensed financial statements and notes have been extracted from the Audited Financial Statements. Copies of the 2011 report of the Auditors, Collins Barrow Ottawa LLP and complete audited financial statements are available from RAC Headquarters. Please send 9x12 SASE to: Radio Amateurs of Canada, 720 Belfast Road, Suite 217, Ottawa, ON K1G 0Z5

YL NEWS AND VIEWS

OUR YL PROFILE: LINDA FRIARS, VE9GLF

Our next YL is a very busy one. I am going to let her tell you her story. Ladies and Gentlemen I give you Linda Friars, VE9GLF.

Where to begin?

In 1991, my youngest son, who was 16 years old, wanted to become an Amatu. He couldn't drive so I drove him to the local Loyalist City Amateur Radio (LCARC) course.

I now have Basic +5 (1992) and Colin is now VY2MK/VE9CFM and has his Advanced. I have two other adult sons. About 10 years ago a second family came into my life and so I have three more adult children who in turn have produced two great grandchildren. Imagine a great grandmother at my age – nope, don't go there.

I've only been on HF since 2011, when Len Morgan, VE9MY, came into my life. He is my "Elmer", my friend and partner in life. He knows so much about everything. I really like being an Amateur.

The hobby is not boring; too many modes. My favourite is activating the Islands On The Air (IOTA) and Canadian Island (CISA). We've activated 158 CISA's and 13 IOTS's in six provinces (two islands mobile in Newfoundland in a snowstorm). There are lots of pictures online at <222.qsl.net/ve9my>.

When on an island we always hope to work a CISA, a lighthouse, an IOTS and brand new all at the same time.

Sometimes it happens and sometimes it doesn't.

On these voyages we use a Kenwood TS-50 and we typically use an R4 Vertical or a vertical



dipole on a 10 metre fibreglass pole.

We operate:
a Yaesu FT-920,
Tokyo Hy-Power Amp
and tuner; a 5-element
TH5DXX triband
beam at 15 metres;
a 17m homebrew
3-element beam
about 15 metres;
a 6m Cushcraft
5-element beam at
about 10 metres; 160-80-40 dipoles; and
a 760-foot long beverage.

We have the capability of operating multi transmitters in contests with regular radio and the TS-50 as a second station. The two computers are networked with N1MN logging and I use Logger323 for general logging.

The pileups are great. Len has better ears than I for most (98%) call signs. There have been times when I get a dry throat and become frustrated, but all in all there is nothing like it for us.

I don't particularly like ragchewing. I like contesting. Working RTTY and PSK modes are okay for a while but I find them too slow. I just can't seem to get into nets. I have a *big* note on the computer with times and dates but...

My favourite card is the NASA Space Station, NA1SS, which I worked while on our local club's Field Day in 1994 and in November 2010 I received the card.



Val Lemko, VE5ACJ
1125 Iroquois St. W.
Moose Jaw,
Saskatchewan
S6H 5C1
E: ve5aq@sasktel.net



In 2002 and 2003, I won the first World Category B Russian Robinson Club Award for the national islands program. I answer all my QSL cards 100% with a personal kiss with lipstick and I am collecting lots of wallpaper.

I won the Canadian Islands Activation Excellence Award which was presented to Len and me by Garry Hammond, VE3XN.

I've done Guides On The Air (GOTA) a couple of times and also Field Day with the local Loyalist City Amateur Radio Club in St. John, New Brunswick. I also helped a bit with the Quispamsis Elementary School Astronaut activation.

I activated islands on Iles-de-la-Madeleine and I went to Saint-Pierre et Miquelon (FP) and operated from a motel that the lady said "everyone operates from".

While on a cruise to St Thomas (KP2) in the Caribbean, I met with a group of Amateurs for lunch and got a private tour around KP station.

While in Aruba on another cruise, we met with Sue Cook, P41YL and her husband Carl, P49V. I had a nice tour and drooled all over their stations.

I belong to the local Library discussion reading group. We read one Canadian book a month and debate/discuss and sometimes meet the author if he/she is in town.

I am currently the Vice-President of the Canadian Ladies Amateur Radio Association (CLARA) and the Acting (and former) Secretary of Radio Amateurs of Canada. I am also the Treasurer of the Loyalist Radio Amateur Club and its former Secretary. I am a Past Red Hatter (too busy now) and, lastly, I now have another hat to wear as the Insurance Program Administrator for Radio Amateurs of Canada.

My best and my newest role now is babysitting my step GREAT granddaughter. What a charmer she is; at 1 1/2 years she takes old grannie here out for walks.

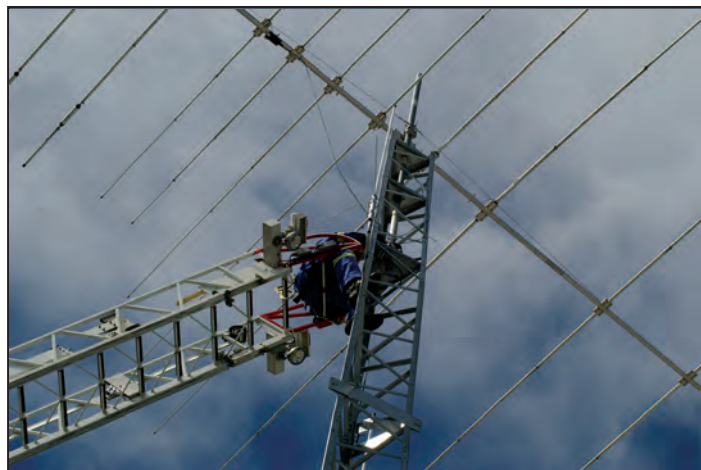
Thanks Linda. What a story and what adventures you have had. I know you will be doing more. She is one very, very busy lady – and on top of all that, this gal still finds time to operate HF and is also the official log counter for the CLARA YL and Family HF contest. Don't we all love to volunteer for something...way to go Linda, we are proud of you! (Val, VE5ACJ)

A FEW ADDITIONAL ITEMS...



From left: Doris, VE5DJQ, Jancie, VE5KQ Brenda, VE5TRG, Val, VE5ACJ, Diana, VE7XYL and Peggy, VE5ACT, at the SARL Hamfest.

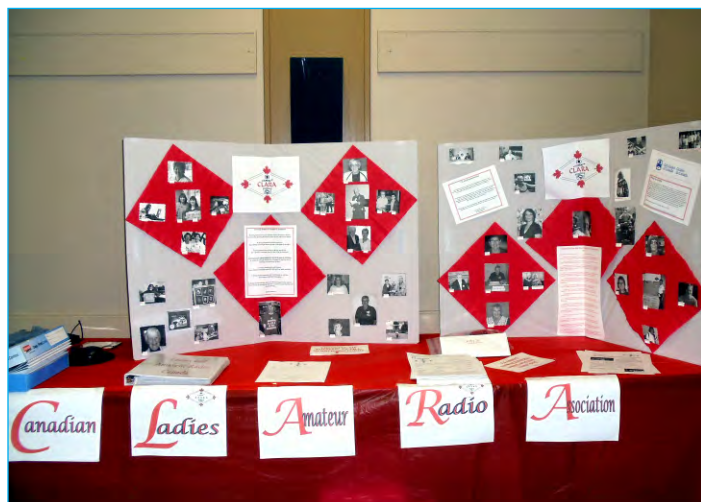
On July 28, Saskatchewan held their annual fleamarket and Annual General Meeting. The event was well attended and the CLARA and the YLRL display tables were a great attraction. The gals that attended had a crash course on First Aid, which was given by Peggy Gwillim, VE5ACT, who is a Nurse Practitioner. The gals came away with lots of great information.



Ron McFadyen, VY1RM, submitted a photo of the Whitehorse Fire Department assisting the Yukon Amateur Radio Association (YARA) in the replacement of a Tail Twister rotor, on the City Emergency Amateur tower which was donated by YARA. The tower is a 64-foot Tylon, with HyGain TH-11DX antenna.

Ron is the RAC Assistant Section Manager for the Yukon and he asked the Fire Department for assistance in removing the damaged rotor. They will put it back once it has been repaired.

The Firefighter's first name is Paul. (Thanks Paul! Ed.)



I have included pictures of the display tables for CLARA and the YLRL and also a photo of the seven licensed YLs who attended the meeting. There were lots of XYLs as well in attendance.

That's all for this time around folks. Stay tuned for more wonderful interesting stories of our awesome YLs.

Don't forget the CLARA website at <www.claranet.ca> and our nets. We love to hear all the YLs check in and no you do not have to be a CLARA member. I know there are lots of you gals out there so please don't be shy. Get on the radio and be proud of being an Amateur Radio operator.

Watch for the CLARA YL and Family HF Contest coming up on March 19 and 23. Please go to our website for all the information. Speaking of our website... the "Contest Around the World page", which is only available on the CLARA website, is up to date. I update the page when I get any information.

33, 73, 88 as the case may be... Val, VE5ACJ





RAC MAPLE LEAF OPERATOR MEMBERSHIP

ADHÉSION À "OPÉRATEURS MAPLE LEAF" DE RAC



David Argo, VE3NLZ
Trevor Arkell, VE3QXR
Michael Aultman, VA3MPR
Gary Badcock, VO1GWC
A James Ballard, VE9AJB
Dennis Bancesco, VE6ATC
Doug Bannard, VE3SPF
Shawn Barnard, VE3KYQ
David C Barnes, VO1YA
Larry Barnett, VE6LGB
Bill Barrie, VE3AAS
Douglas Barry, VE7WLF
Michael Bell, VE3NOO
John R. (Jack) Belleghem, VE3HD
Michael F. Belliveau, VE6XZM
Bruce Bernard, VE1TIN
Larry Berta, VE3LXV
Serge Bertuzzo, VA3SB
Christian Bisailion, VE3CBK
Bill Boskwick, VE4BOZ
Terry Bosse, VE6LL
Robert Boyd, VE3SV
P J Buckway, VY1PJB
Ian Thunder Burgess, VA6EMS
Paul Burggraaf, VO1PRB
Gary Burgin, VE7FZZ
David Caddell, VA7VVV
Fred Cain, VE3JMJ
Ralph Cameron, VE3BBM
Gilles Chevalier, VA2CG
Geoff Clarke, VE3JBD
Guy A. Costanzo, VA7GAC
Donald Courcy, VE2CW
Robert Cove, VO1REC
Francois Daigneault, VE2AAY
Renze Dam, VE6DC
Rick Danby, VE3BK
Frank Davis, VO1HP
James Dean, VE3IQ
Julio Cesar Diaz, VA3JCL
D. Howard Dickson, VE1DHD
George S Duffield, VE3WKJ
Tim Ellam, VE6SH
Darayus J. Engineer, VA3AHI
Edward Evanko, VE4EDE
David Evans, VE6DXX

Russell Farrell, VE3ELL
Richard Ferch, VE3KI
Terry Finn, VE6TF
James W Fisher, VE1JF
Bunny Forsyth, VE7BFF
Jim Forsyth, VA7FJE
L C Fowler, VE3NPC
Richard Francis, VE3OXX
Edward J Frazer, VE7EF
Gordon Gibson, VE3NQG
Paul Giffin, VE7IPM
John Gilje, VE6KJG
Dave Gillis, VE7BX
Bill Gipps, VE7ISV
Thomas Godden, VE3TWG
Michael Goncz, VE3WCQ
Mitchell Goodjohn, VE6SM
Robert Goodman, VE3ZRG
Dave Goodwin, VO1AU
Richard Govoni, VE3SHL
Scott Gregory, VA3NMI
Ron Griese, VE3RJG
Tom Haavisto, VE3CX
Kelvin Hall, VA7KPH
David W. Hamilton, VE6DWH
Don Hamilton, VA7GL
Karl Hamilton, VE3RRP
Garry V Hammond, VE3XN
Garry Hammond, VE3GHP
Jean-Guy Hardy, VE3YOS
Brad Harris, VE3MXJ
Kevin Hastings, VA3PSL
Derek Hay, VE4HAY
Peter Hebb, VE1SM
Jean Paul Henault, VE2JHP
Doug Henry, VE4TG
Peter W. Henry, VA3PWH
Howard Hepburn, VE6GT
John Hewitt, VE3PUX
Dallas Edward Hinton, VE7FKH
Peter K. Hodgson, VA3PKH
David Hodson, VA3UL
G. Bruce Hollett, VE1MLW
John Hood, VE3VJH
Clare Hopkins, VE7IBK
Joseph Hopkins, VE7BYF

David Hopkinson, VA7FTW
Mark Alexander Humenyk, VE3HMK
Lorne S Jackson, VE3CXT
Aaren Jensen, VA7AEJ
Gordon Jewsbury, VE4OK
Doug Johns, VA3DLJ
Dave Johnson, VE7VR
Sam Jones, VE3LCK
Beckett Jubb, VE6JUB
Janet Jubb, VE6VED
W.J. Karle, VE4KZ
Eric Kehler, VE7EGK
Thomas V. Kennedy, VA3TVK
Stephen Kern, VE7HSK
Stephen Kerridge, VE9HZ
Melvin Killens, VE3MLK
Robert Neil King, VA7DX
David Kingsland, VE3MDX
David Klatt, VE5GN
Jerry P. Krayco, VE7NX
David LaHay, VE7FVW
Pierre Lalonde, VE2PZL
Daniel Lamoureux, VE2KA
Benoit Laprade, VE2LSF
Harvey A.A. Larabee, VA3LHA
Syd Lennox, VE3CQO
Allan E. Lett, VE3TYT
Joel Levis, VE3CJJ
David Liddell, VE7QR
Gene R Lutes, VE7IMP
Ian MacFarquhar, VE9IM
John MacKay, VE7EEX
R K Mackenzie, VA3RKM
Neil Macklem, VE3SST
Mark Magner, VE3CT
Pierre Mainville, VA3PM
Eric G. Manning, VA7DZ
Noel Marcil, VE2BR
Tom Martens, VE6TRM
Gabriel Mazzeo, VA3CWT
Don McCallan, VA3GFD
Duncan A McCansh, VE3OM
Arthur McDougall, VE1CFU
David McKinlay, VA3IR
L. David McLennon, VO1LM
Malcolm R McLeod, VE5ZG

Chris McMullan, VA3CMJ
Eric Mills, VE1AST
Micheal Misiwich, VA6MIS
Lenard Moen Sr, VA3HBR
Ed Morgan, VE3GX
George Morgan, VE3GM
Byron Morse, VA3BMO
Bob Morton, VE3BFM
Hammond Museum of Radio
Mike Myers, VA3MPM
A L Nelson, VE7WC
Jim Nelson, VE6ACR
Patricia Nordin, VE3RPP
Richard Novek, VE7RNZ
Kevin Patrick O'Toole, VE6GUN
Sheldon H. Olmstead, VE3XI
Jean Ouellette, VE3OKK
Dennis Paganin, VA3DTP
Bill Parker, VE7XXZ
Joseph G Parkinson, VE3JG
Colin Pavey, VA3FP
Geddie Pawlowski, VE3CJX
Steve Pengelly, VE3STV
Mark A Perren, VE6IHS
Brent Petersen, VE9EX
Murray K Pierce, VE3IFP
Robert W Piggott, VE7CYU
Dale Pilsworth, VE6DAP
Byron Pulsifer, VE9BUB
Eric Quiring, VE5HG
Devon Racicot, VE5DWR
Norm Rashleigh, VE3LC
A.E (Tony) Ratcliffe, VE6AER
Bryan Rawlings, VE3QN
Steve Regan, VA3MGY
James H. Richardson, VA3JHR
Jeff Robbins, VE3JTR
Bernie Roche, VE3OTR
Peter Rogers, VE3ETR
Bruce Roney, VE3BER
Donald Rowed, VE3KII
Gerry Saelens, VE7DCW
Edward Samborski, VE3TAS
Patrick Sandi, VE7SDI
Brian Sayer, VA6BCS

continued / continué ...

Exclusive RAC membership



Bill Scholey, VE7QC
 John D Scott, VE1JS
 Ellis Seddon, VE4AJ0
 Robert A Shkuratoff, VA7DIV
 George B. Simpson, VE6HX
 Gary W. Skett, VE7AS
 William E W Skuta, VA3WEW
 Robert A Smith, VE3RSG
 John Sobkowicz, VA6GEO
 Margaret Somerleigh, VE3OWL
 Mark Spencer, VE7AFZ
 Harry H Splett, VE3HHS
 Alan Steele, VA3STL
 Al Stephens, VE3NXP
 Jack Summers, VE3XR
 Ann Tekatch, VA3NOE
 Alan Thoren, VE4YZ
 Jason Timmis, VE7AG
 Yori Tsuji, VE4ACX
 W.L. Underwood, VE1WLU
 Bill Unger, VE3XT
 A E Vaillancourt, VE3DPZ
 Hudson C. Vallieres, VE9HCV
 Tom Van Wort, VA3TVW
 Robert Vanderminnen, VA3RMV
 Sanjay Vig, VA2OP
 J.M.A. Vigneault, VE3VIG
 Ron Vollick, VE3GGX
 Joel Weder, VE6EI
 Garth Wetherall, VE3YC
 Peter Wetton, VA3PRW
 Barry L. Wielgoz, VE5HA
 Chris K. Wiesner, VA3SM
 Brice Wightman, VE3EDR
 James A Wilkins, VE7UVL
 Brian Williams, VE3KNE
 Ken Williams, VE9KW
 Harold H Wirth, VA3HHW
 Timothy Wood, VA7TIW
 K Scott Wood, VE1QD
 Allen Wootton, VE7BQO

WELCOME NEW RAC MEMBERS! BIENVENUE NOUVEAUX MEMBRES DE RAC!

We wish to welcome the following new members of Radio Amateurs of Canada for August and September.
 Nous souhaitons la bienvenue aux nouveaux membres suivants de Radio Amateurs du Canada pour août et septembre.

Thomas William Apps, VE7ENP	David E. Groves, VA3KYR	Richard Eric Parry, VE6PRY
Paul Henrick Aube	Douglas Hammond, VA3DJX	Jeffrey Parsons, VE3KY
Irmela Bansa	Jonathan Hamon, VA6JCH	Lionel Hugh Pett, VE7FLL
Darrell Edward Bercier, VE4ACD	George Eric Harrington, VE3DFH	Andrei Poterianski, VE3QRA
Nigel Blamey, VA3PUG	Michael B Harvey, VE1MBH	Robert Pratt, VA3XDT
Richard Burcher, VA3RAX	William Henderson, VA3HWA	Kevin Reid, VA3GSI
Ray Burrell, VE3BVV	Dwayne Hillier, VA3IPB	Robert Riggs
Gary Campbell, VA3CZY	James Hodgson	Doug Rolland Robertson, VE7PPQ
Donovan W. Case, VE1BDC	Richard Hutchinson, VE3HTU	James R Russell, VE6JRR
Gordon William Claridge	William Jones, VE7WIJ	William Anthony Russell, VE3WLE
Ken Clarke, VE7BC	Murray Kellett	Charlene Schiffer, VA3AAH
Arthur F. Crowell, VE1QO	Adam Larry Krichbaum, VE3LFS	Eric E Scott, KC7KLZ
Sean M Dickinson, VA3VEC	Harrison W Kyle, VE2HKW	John D Sibbett, VA3SQ
Lawrence Dobranski, VA5LD	Ante Laurijssen, VA2BBW	George Skowby, VE3PE
Patrick George Doherty, VE3PD	Louis-Charles Lavallée, VA3LCL	Ronald Obert Slind, VE5RS
Robert Lorne Edge, VA3RE	Jody Levine, VE3ION	Clayton Smith, VE3IRR
Andrew Fenstad, VE4RDO	Aaron David Luxford, VE3DFA	Katherine Smolarek, VE6KTE
Norman Fex, VE2NFX	Chris McGaffey, VA3DXZ	Pierre Smolarek, VE6PTE
Gervais Fillion, VE2CKN	Bill Nangle, VE3FCT	Stanley Allen Stefanik, VE7STN
Gilbert A Frederick, VE4AG	Robert K Newcomb, VE3VFW	John Brian Waylett, VE3TRG
James Howard Gilchrist	Ronald George Norris, VA3CX	Jerry C. Woodhouse, VA3JLW
John (Jack) R. Glenn, VE4JRG	Sheldon H. Olmstead, VE3XI	Richard Michael Zabrodski, VE6GK

RAC CORPORATE MEMBERS / ADHÉSION À CORPORATIF DE RAC



RAC MEMBERSHIP / ADHÉSION A RAC

We will be pleased to help by telephone (613-244-4367 or 877-273-8304) from 10 am to 4 pm EST/EDT, Monday through Friday (except statutory holidays).

Nous serons heureux de vous aider par téléphone 613-244-4367 ou 877-273-8304 de 10:00 h à 4:00 pm HNE/HAE, de lundi au vendredi (excepté les jours fériés).

All Things Digital

Amateur Radio for the 21st Century 005

Robert C. Mazur, VA3ROM

E: va3rom@rac.ca

W: <http://my.tbaytel.net/va3rom>



Portions of this article have appeared in *APRS Thunder Bay, Fall 2012, Vol. 3, No. 22*, "PICAXE Power for Hams!" and "PICAXE Apps: Radio or Not!"

THANK YOU

First of all, I'd like to thank everyone who has sent me congratulatory emails, notes or told me in person how much they like my new TCA column! It's much appreciated and you have no idea how any writer feeds of off feedback – good or bad. Happy Holidays and a very Happy, Prosperous and Safe New Year (2013) to everyone!

MISSING COLUMN

One week after I retired and was ready for my first summer of "freedom 55", it also turned out to be a great time to break my other collarbone (along with some ribs and teeth)! Emergency surgery was needed and the surgeon used a titanium alloy mending plate with 10 screws to repair the thing! So, I was QRT for about four weeks.

CH-CH-CHANGES

There's a new *All Things Digital* section (on my website) with articles, references, links and applicable software related to my TCA columns. Starting with this column, all resources and references are placed at the end so as to not interrupt the flow of the article.

AFSK FELD HELL TO OOK FOR CW TRANSMITTERS

My last column (on Feld Hell) ended with a "tease" about modifying CW transmitters to switch between Morse Code and Feld Hell; a separate article is available (from my website) that describes how this is done, using a simple interface and CW transceiver to transmit AFSK Feld Hell via Fldigi or a similar soundcard digital modes program. Now you can work two different digital modes with a CW only transceiver!

MCU + BASIC + U = FUN!

Okay, here's something that's probably new to many Amateurs. We are going to delve into the exciting and fun world of **Micro-Controller Units (MCUs)**, the **Beginner's All-purpose Symbolic Instruction Code (BASIC)** programming language plus you; combining that with

Amateur Radio and robotics because of the *Curiosity* rover sitting on Mars.

Most of us are familiar with and have used a **Personal Computer (PC)**; these have an Integrated Circuit (IC) called a **Micro-Processor Unit (MPU)** that creates part of the **Central Processing Unit (CPU)** or electronic brain of your computer. The MPU is primarily designed to interface with humans while an MCU is primarily designed to interface with machines; both were created in 1971 (Intel 4004 and Texas Instruments TMS 1000).

TELL ME, WHAT?

The line is often blurred between the two but there is one very important, technical difference: inside your PC (MPU), the program code and data share the same memory (called von Neumann architecture) and MCU program code and data have separate memories (called Harvard architecture). This gives the MCU a tremendous advantage since code and data can be accessed simultaneously allowing it to work faster and harder at a much slower clock speed, and this means that it runs cooler and requires less power.

The latest smartphones and digital cameras couldn't exist without MCUs and be as smart, small, lightweight, cool running and battery efficient as they are (and getting more so). They can also be used to create an artificial intelligence that gives machines "self-awareness" and "self-preservation" using external sensors. If the *Curiosity* rover was sent a command (from Earth) to move forward and that command would send it into a ditch, it has enough "sense" to disobey and try to find some other way around the obstacle or send a "No way, man!" message back, along with pictures of the situation. This information is called *telemetry* (Greek: remote or distant measuring) and the collection and dissemination of telemetry is what microcontrollers are really good at doing.

Figure 1

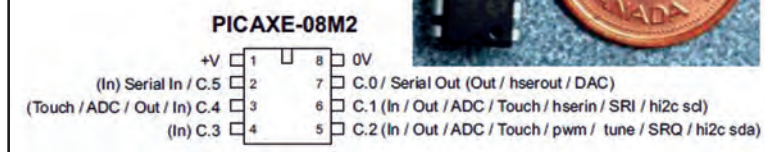


Figure 1: PICAXE 08M2 MCU

The first thing to notice is that physical pin numbers don't match programming pin (port) numbers! This can cause problems when terms are mixed or incorrectly used, so Microchip has devised a programming port dot notation (i.e. C.0 instead of just 0). Notice that programming pins (ports) are numbered counterclockwise while the physical pins are numbered clockwise.

MCUs are Transistor-Transistor-Logic devices and +Vdd (the supply voltage) should not exceed 5V DC (the extreme maximum is 5.5V). The new M2 series can also operate on voltages as low as 1.8V whereas the older M series needed a minimum of 3.3V DC.

A detailed pin description is on my website.

For hobbyists, the most popular MCUs are the Microchip PICAXE, Parallax BASIC Stamp and Arduino. The Arduino is different from the other two in that it uses the C programming language (a bit more difficult to learn); it also belongs to a community programming collective that maintains the software as opposed to one company controlling the hardware and software. The majority of first-time MCU users should start with either the PICAXE or Stamp (my opinion) as both use BASIC as their programming/control language.

BASIC is usually the first "high-level" English-like computer language taught in middle and high schools and it was specifically invented for this purpose (Dartmouth College, 1964). UIVIEW, probably the most popular and very powerful APRS application, is written in Visual Basic (Microsoft Windows graphical version and spelling); the majority of Windows developers use Visual Basic as their only programming language!

INTRODUCING THE PIC AND THE AXE

I don't want to get too wrapped up in the history, development, architecture, design, etc., of the PICAXE as there are enough references at the end of this article; especially check out the excellent *Microcontrollers and Amateur Radio* PowerPoint presentation by Dave Green, VE3TLY. There is one contentious issue that does require a mention: the terms "PIC" and "PICAXE" are not acronyms for anything, despite what you'll often read or hear. Microchip has never defined their meanings, but I think that they most likely refer to the useful and versatile miner's pick and pickaxe tools.

The PICAXE MCU is probably the most general purpose, least expensive and easiest microcontroller platform to try, especially if you have no prior experience. Microchip produces a series of increasingly powerful chips starting with the 8-pin PICAXE 08M2 (part of the "educational" line; see Figure 1) to the 40-pin PICAXE 40X2 (part of the "advanced" line). The older single "M" and "X" series have been replaced by the more powerful "M2", "X1" and "X2" series but Microchip has maintained upwards compatibility; most programs written for the old chips will still work on the new ones. Revolution Education or Rev. Ed. (UK) has sole distribution rights for the PICAXE line and related products and it determines (worldwide) who can and can't sell these products. From the Rev. Ed. website, you can download the free programming software (various systems supported), additional tools and documentation; they also have a PICAXE user group area with a specific Amateur Radio forum.

THE SCHOOLS EXPERIMENTER KIT

Of all the Rev. Ed. products, the one that I recommend to start with is called the Schools Experimenter Kit (product no. AXE092); it uses a PICAXE 08M2 and provides a self-contained experimental platform (see Figures 2 and 3). This little chip has built-in quad program processing ability, 2K of program memory, 256 bytes of data memory, with 6 pins dedicated for input or output (digital or analog), holds about 200 lines of programming (that's an extremely large and complex program!), with a maximum clock speed of 32 MHz (default 4 MHz). Now, I bet that many of you are thinking that any PC "screamer" can "smoke" this PICAXE thingy! In actuality, modern PC "screamers" need a lot of processing "horsepower" because people want to watch videos, play games, burn discs or download/store gigabytes of "stuff". You can even boil water with the CPU!

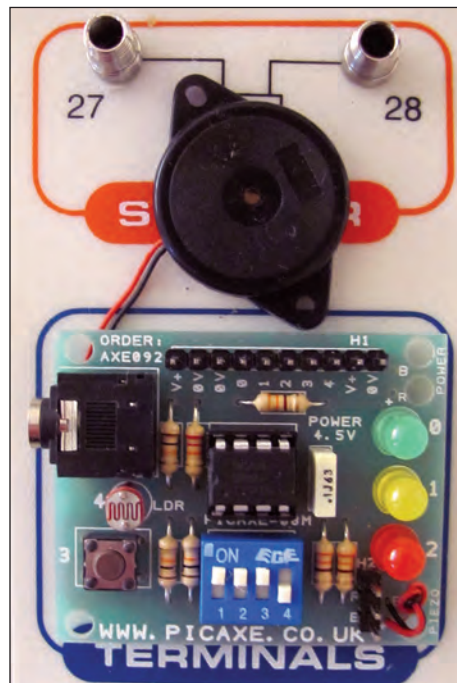


Figure 2: Schools Experimenter Kit

My modified Schools Experimenter Kit added to a 300-in-1 Electronics Projects Lab kit (attached with 3M mounting tape). The red and green LED positions were switched so that the red LED (and shared piezo speaker) works in tandem for alarm systems; a red alert alarm made more sense than a green alert one! Optional Single InLine Package (SIL or SIP) headers (H1 and H2) were installed so that DuPont connector cables could be used with the onboard solderless breadboard. Ancillary circuits are built on the breadboard and connected directly to the Schools Kit via header H1. You can also connect any standard Signal-Voltage-Ground (SVG) sensor module to H1 (via pins 4, V₊ and 0V).

Microcontrollers, on the other hand, are designed to do their jobs as succinctly and efficiently as possible without human intervention or direct control required!

But, I digress. The Schools Kit is a very easy to build kit and allows you to conduct various MCU experiments from learning how to program and connecting it to other external components. Five-packs of the Schools Kit are available for bulk purchases to lower the unit cost and provide great way for clubs to excite and get the membership involved in MCUs, robotics, kit building, group projects, etc.

You may also want to get a copy of David Lincoln's, *Programming and Customizing the PICAXE Microcontroller* (check your local library, bookstore or online). There's an excellent chapter on the Schools Kit with various A to Z projects; even an introductory chapter on basic electronics! I highly recommended the book as it's an excellent way to get started; it's not too technical and a very good "read". He also sells (on his web store) a download PDF called *Getting Started with The Schools Experimenter Kit* and David was very kind to allow use of some of his material for this article. Another excellent, but more technical book, is Ron Hackett's *PICAXE Microcontroller Projects for the Evil Genius*. There's lots of hands-on project building for those who have more electronics experience and may prefer it over David's approach (or not). Ron also has a web store that sells the products to support the various projects in his book.

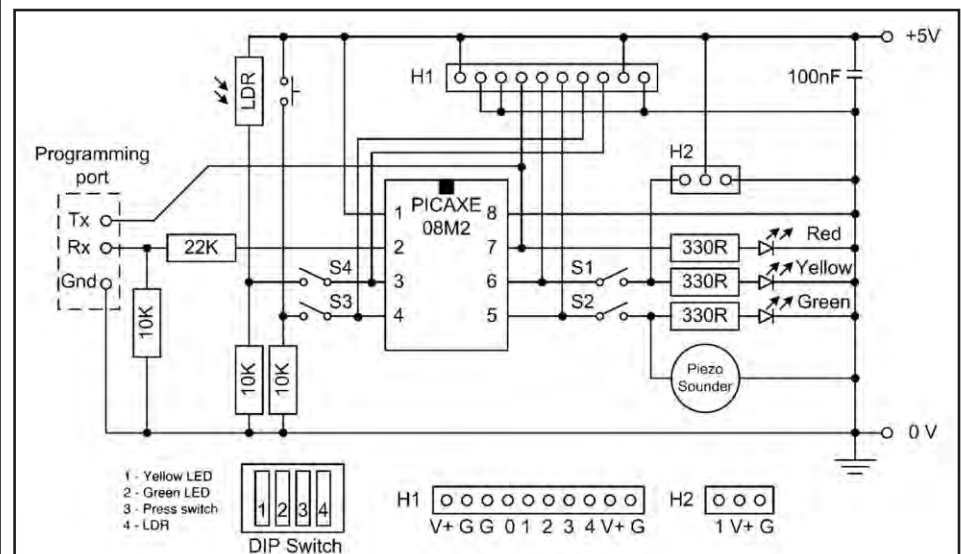


Figure 3: Schools Experimenter Kit Schematic. Schematic diagram of Schools Experimenter Kit; it comes supplied with everything except the USB programming cable, SIL/SIP headers and AA cells. Except for output port 0, all the other ports can be selected or deselected by using a 4-pin DIP switch. You can connect to off-board circuits using H1 and H2 using DuPont cable connectors. The diagram is from "Getting Started with the Schools Experimenter Kit", courtesy of David Lincoln.

YOUR FIRST PICAXE PROGRAM!

By tradition, the first computer program that you write on any new programming platform is called "Hello World!". In this case, we'll have to settle for blinking one of the Schools Kit's LEDs on and off (see Figure 4). I'm not going to get fancy and use the "tricks of the trade" as that will come with time and experience. You'll always need the PICAXE Programming Editor to enter or run the program for testing and to download it into the Schools Kit.

The BASIC program is called the "source" code and this is automatically converted into Binary (0's and 1's) and becomes "executable" code and loaded into the MCU. Notice that the source code is very "English-like". Indentation is used to offset sections along with comments to make it easier to follow the "flow". I was taught that the proper ratio of code to comments should be close to 1:1; while not required for such a simple program, it's a very good habit to start and continue as your programs become more complex (or you try to modify other programs).

The really neat thing is that you can "run" this program using the Editor's built-in simulator to see if what you want to happen will happen (see Figure 5), all without building the actual circuit! If loaded into the Schools Kit PICAXE MCU, the program will run and flash the LED, connected to output 0, for as long as DC power is supplied.

PDF documentation and tutorial files are included with the Editor package to help you get started; they included various sample programs and simple electronic circuits. You can easily "translate" or "port" PICAXE BASIC to Parallax BASIC and vice versa. The conversion to the Arduino C language is harder and requires more programming experience in multiple languages and chip architecture.

Figures 5 & 6: Programming Editor

These screen captures of the PICAXE Programming Editor are examples of running your program using the built-in Simulation feature of the Editor. Figure 5 shows the execution of standard written BASIC programming code while Figure 6 shows the flowchart method. The Simulator steps through and highlights each line of code (or flowchart symbol) as the virtual PICAXE chip (08M2 for this simulation) shows the output port results. In this case, we are turning the virtual LED (connected to port 0) on and off without having to build the actual circuit!

Figure 4: BASIC program

```
REM Flash LED on and off (connected to PICAXE 08M2 port 0, physical chip pin 7)

DO                                ; start of program do ... (the following code)

    HIGH 0                        ; turn LED on
    WAIT 1                        ; keep it on for 1 sec
    LOW 0                         ; turn LED off
    WAIT 1                        ; keep it off for 1 sec

LOOP                              ; end of loop ... back to start ... (forever or until power cut)
```

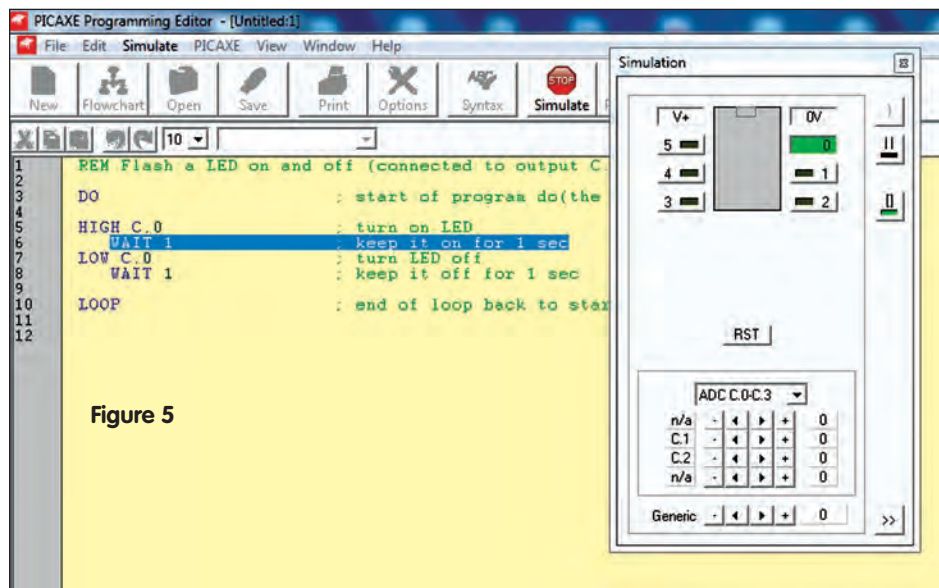


Figure 5

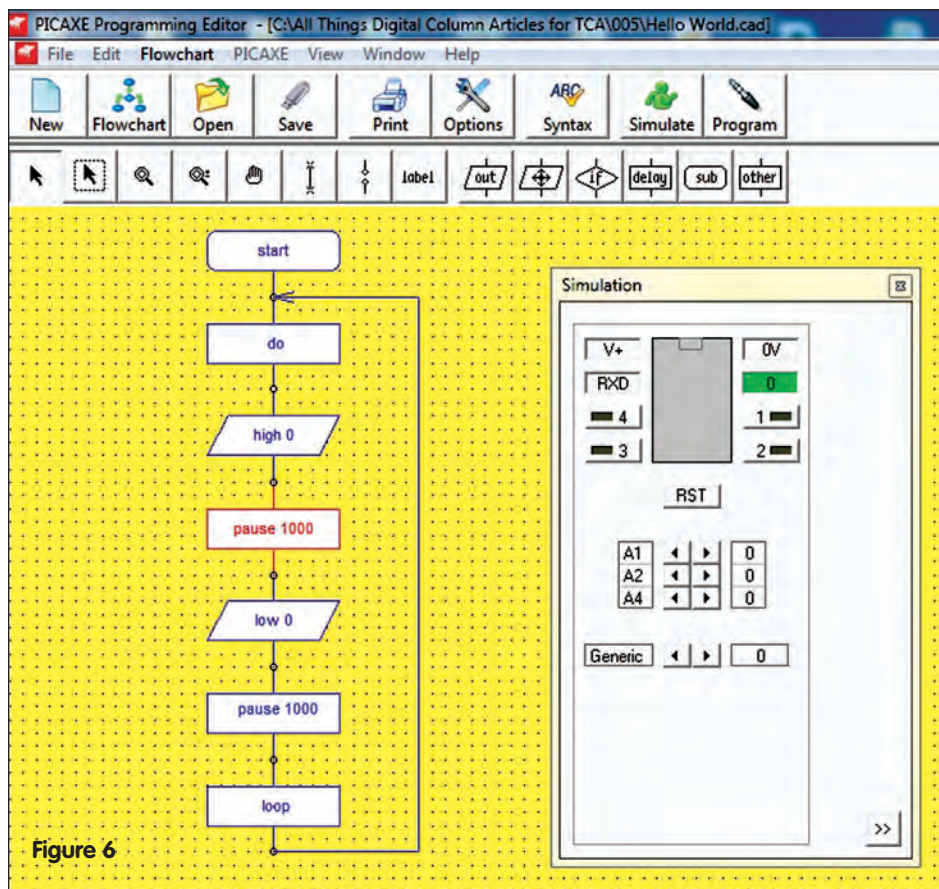
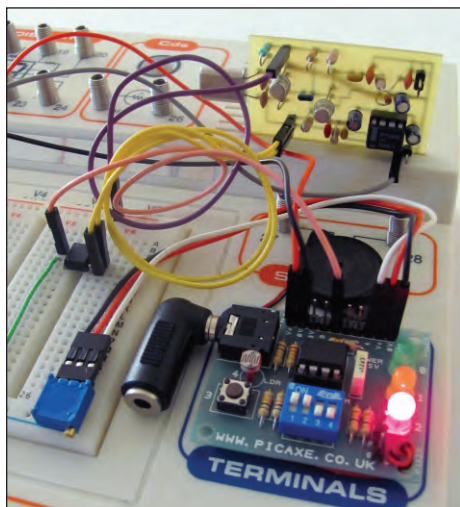


Figure 6



If you don't feel comfortable with this written form of computer programming, you can also try another feature of the Editor used to teach students. It's the old tried and true visual flowcharting method (see Figure 6); back in the day, you'd flowchart a project first as it didn't (and still doesn't) matter what programming language is used to write the actual program. The idea was to map out the program flow and logic to find any flaws and then write the code.

One Amateur Radio application would be to combine a CW transmitter with an MCU to create a repeating Morse Code or Feld Hell CW Fox Hunt or propagation beacon (see Figure 7).

MY FINAL

I'll continue on with MCUs and introduce the Parallax BASIC Stamp. The company has designed an excellent electronics and robotics training package that is quite popular in the US school system. With a mobile MCU system, you can carry an APRS tracker, video and sound transmitter (or digicam), along with various sensors to explore the "alien" surface of your backyard, and the robotic rover transmits the collected telemetry back to your "Earth" base station! Amateur Radio is so much more than just Press-To-Talk!

Lastly, as an aside, Industry Canada is reviewing the Amateur Radio Question Bank and looking for our input. Over one-half of Amateurs **do not** use voice as their primary method of communications, yet there are very few questions that are pertinent to digital mode operations! Personally, I feel that more effort is needed to encourage the experimentation (in all modes) and expanding our knowledge in radio and electronics by both RAC and local radio clubs. They do this in the US with fully integrated "Amateur Radio in the Classroom" programs so what's wrong with Canada, eh? – 73.



Figure 7: Sample PICAXE Ham Radio Apps

Over the past few months, I've contacted many MCU enabled Amateurs who have written PICAXE radio related programs. They have all graciously allowed anyone to freely use their original source code (with credit given where credit is due) and to make modifications. After some searching Morse Code and Feld Hell CW beacon code was found that could be modified to use with a simple QRP transmitter and could now easily send both CW modes with the PICAXE! The famous PIXIE II QRP CW transceiver was used to conduct tests on 80m (around 3579 kHz).

Pictured above is the Schools Experimenter Kit (right), optional speed control pot (left) and optocoupler keying circuit (upper left) with PIXIE II transceiver (upper right). The speed control is not used for Feld Hell as it's transmitted at a fixed rate. The program source code, documentation, additional pictures and schematics are available from my website.

REFERENCES AND RESOURCES

- **BASIC** <<http://en.wikipedia.org/wiki/BASIC>>
- **Microcontroller** <<http://en.wikipedia.org/wiki/Microcontroller>>
- **Revolution Education** <www.pixaxe.com>
- **Schools Experimenter Kit** <www.picaxe.com/docs/axe092.pdf>
- **PICAXE 08M Proto Board** <www.picaxe.com/docs/axe021.pdf>
- David Lincoln, **Programming and Customizing the PICAXE Microcontroller** – <http://lincsoft.com/Lincsoft/Code_download.html>
- **Getting Started with the Schools Experiment Kits** www.microzed.com.au/index.php?main_page=product_info&cPath=78&products_id=276
- Ron Hackett, **PICAXE Microcontroller Projects for the Evil Genius** <<http://jrhackett.net>>
- David Green, VE3TLY, **Microcontrollers and Amateur Radio** <<http://www.qcwa70.org/presentations1.htm>>
- **Microcontroller Projects for the Radio Amateur**, May-June 2011 TCA, pp 20-23. **Introducing Microcontrollers to Your Amateur Radio Club**, January-February 2010, pp 43-47. **Canadian Clubs Dig PICAXE**, April 2011 QST, pp 61-63.
- **Infrared Radio Control for your HF Transceiver**, November 2010 QST, pp 36-39.

Canadian MCU & Electronic Kits Companies

- **Aztec MCU Prototyping** <www.aztecmcu.com>
- **Cana Kits (300-in-1 Electronic Project Lab)** <www.canakit.com/electronic-kits>
- **HVW Technologies** <www.hvwtech.com>
- **Robot Shop** <www.robotshop.com/ca>
- **SOLARBOTICS** <www.solarbotics.com>

MERRY CHRISTMAS – JOYEUX NOËL
http://www.cafepress.ca/rac_radio



CLUB CORNER

— NEWS FROM AND ABOUT CLUBS

Another season of radio clubbing has begun. As I write this in mid-September, many of the newsletters that I have received all speak to the hopes and plans of the various groups. Many of the clubs will have Annual General Meetings coming up and there usually are the attempts by the club's Executives to get members to stand for these various positions. It appears that some clubs have more trouble than others to get "new blood" into their Executives. I will happily lend my small voice to urge those who sit on the fringes to get involved and help their local organization. You never know how much of a contribution you can give without giving it a try.

Congratulations to the Montreal ARC who are celebrating their 80th anniversary this year. A short history of the club was published in their September issue of the "MarcOgram" and outlined the beginnings of their club. Certainly one of the oldest clubs in Canada, the MARC is to be congratulated for carrying on the Amateur Radio tradition even through the war years when Amateurs were not allowed to have gear capable of transmitting a signal. This summer, RAC held its Annual General Meeting in conjunction with the 80th anniversary celebrations of the club's formation.

Also in the "MarcOgram", I noticed the announcement of a second Radio Talk seminar. This seminar, co-hosted with the West Island ARC (WIARC), gathers a group of speakers who will give talks on various topics including: "digital voice modes"; "representing Canadian Amateurs at the ITU"; "Amateur communications using laser beams"; and others. It sounds like an interesting line-up and I'm sure that there was something of interest for all attendees.

In the September issue of the "Groundwave", the newsletter of the Ottawa Valley ARC, I noted the announcement by Greg Danylchenko, VE3TLZ, of their annual portable station demonstration. This demonstration encourages individual Amateurs to bring, set up, operate and, best of all, to show off their idea of what a portable station looks like. With the many groups and individuals having radios that can be set up for emergency operations – or just those that can be set up at a portable location such as a cottage, park, mountain top etc – there are as many ideas as there are people involved – and perhaps more. In any case, we all can gather something from watching another Amateur operate his idea of what a portable station can look like – and make changes for the better to yours!

It seems that our friends in the Halifax ARC were busy this past summer. A number of the members participated in this year's Islands on the Air (IOTA) contest. As reported in the HARC "Reflector", John, VE1CDD, Barry, VE1TRI, Fraser, VE1WO, Alan, VA1MM, Sheldon, VE1GPY, and Greg, VY2MP, journeyed to Little Tancook Island,

a 45-minute ferry ride from Chester, Nova Scotia to operate this contest. Using the call VC1X from the island (IOTA ref NA-81), they were able to contact many stations participating in the contest.

According to the article, they appreciated the rare DX station operating on St. Paul Island this year moving to the WARC bands for the duration of the contest. It relieved a lot of pressure and activity from 20 metres, enabling the "lesser" stations a good go for the contest. Results were not available at the time of writing, but even if they didn't win I'm sure that they had a great time.

From the same issue of the Halifax ARC's "Reflector", there were a few pictures of member Spud Roscoe, VE1BC and a couple of ships that he visited over the summer. Spud is a former marine radio operator who served at sea on 12 ships. The last remaining ship, *The HMS Bounty*, was in Halifax over the summer and Spud paid a nostalgic visit. During his time aboard *Bounty*, Spud signed VE0MO and no doubt created a lot of interest on the air. Spud has his own website at <www.ve7bc.com> which details his marine and Amateur Radio activities over the years.

After reading over a recent Club Corner column, I took my own advice and got active in the Summits on the Air Organization (SOTA). Eric Kehler, VA7NX and I, members of the White Rock ARC, climbed the 2100 metre high Mount Cheam (SOTA reference VE7/FV-007) just east of Chilliwack, British Columbia and activated it using my Elecraft KX1 QRP HF transceiver. We had a gorgeous day with marvellous views of nearby peaks and valleys. Although the climb was a bit gruelling, we had to find a space amid the crowds at the top of this very popular peak to set up our antennas and make our contacts. Not only were we talking to fellow Amateurs on the air, we had the opportunity to talk Amateur Radio in general, and SOTA in particular, with some of the folks who were on the peak with us and were curious as to "just what are you doing".

We found that many were familiar with our hobby and understood the "battery power" aspect of what we were doing, but the concept of climbing to a peak to operate was something they didn't quite fathom!



Ralph Webb, VE7OM
15613 18th Avenue
Surrey, BC V4A 1X3
E: <ve7om@rac.ca>



Ralph, VE7OM, makes the first QSO while operating VE7DB/7 on Mount Cheam on a SOTA expedition. The wire antenna and counterpoise can be seen connected directly to the antenna jack of the KX1. The photos are courtesy of Eric Kehler, VA7NX. Thanks Eric!

With the 1 Watt power output, we made six SOTA contacts completing the first activation of this peak. There are many more peaks in the area and I hope that on some future weekends we, or at least I, can get to a suitable site and play SOTA for a couple of hours.

I think that is about all for this time. I hope that you all had an enjoyable summer and were able to do some of the many things that involve Amateur Radio during the warm time here in Canada. Maybe, like me, you were able to do something that you have never done before, or entered a contest or other on-air event that you've never tried before. In any case, fall is upon us, fleamarket season is here, and so is Christmas... "shudder shudder!"

73, Ralph, VE7OM



RAC CANADA WINTER CONTEST 2011 RESULTS

Sam Ferris, VE5SF and Bart Ritchie, VE5CPU

Participation in the 2011 edition of the RAC Canada Winter Contest was up from all previous years with a total of 654 entries received. This, as far as is known, is an all time record for entries in the Canada Winter Contest. This year scores showed a significant increase over past events with elevated solar activity and some additional activity on the higher frequency bands in comparison with 2010 and 2009. This year five new records were established in the Single-Op Single Band 20m (VY2SS), Single-Op All Bands Phone (VE4VT), Single Op All Bands CW (N0AC), Multi-Op Single Transmitter LP (VA7BEC) and Multi-Op Multi Transmitter (VE6RAC).

SINGLE OP ALL BANDS LOW POWER

Sam Ferris, VE5SF, achieved 1st place this year with a score of 724,024. Sylva Katz, VE5ZX, captured 2nd place by scoring 590,132. Ed Henderson, VE4YU, captured 3rd place in the winter contest with a score of 293,420. Stan Leschinsky, VE3TW, took 4th place scoring 260,400, while Dean Falkis, NW2K took 5th place with a score of 237,566.

SINGLE OP ALL BANDS HIGH POWER

Lee Sawkins, VE7CC, captured the 1st place SOABHP with a score of 1,160,580. Second place went to Tom Haavisto, VE3CX, with a score of 1,048,520. George A. DeMontrond III, NR5M, placed 3rd with a score of 705,240. Dave Weiner, VE3RTU, joined the top scorers in 4th place scoring 651,044.

John Boudreau, VE8EV, operating as VE8RAC, captured 5th place in the category with a score of 578,942. Within the SOABHP category George A. DeMontrond III, NR5M, captured the Jorge Bozzo, LU8DQ Memorial for the highest scoring Single Op Foreign Entrant with a score of 705,240.

SINGLE OP SINGLE BAND

With a score of 110,538, Robby Robertson, VY2SS, won the overall SOSB crown this year using the 20m band and established a new SOSB category record as well. Louis Paquet, VE2BQB, took 2nd overall SOSB place with a score of 73,832 with his 20m band entry. Third place in the overall SOSB was taken by Thomas Warren, K3TW, with 68,264 points on the 20m band from Florida. On a band-by-band breakdown, Bob Schofield, VE1RSM, took top band honours on 160m with a Single Band Low Power score of 816. Gerard Hnatiw, VE6ZZZ, took the 80m band honours using low power with a score of 49,940. Ken Keeler, N6RO, won first place in 40m with a score of 38,808 using high power from California. As noted above Robby Robertson, VY2SS, took first place on 20m with a high power entry scoring 110,538. Pete Pel, VE7CV, took the honours for the 15m band with a low power score of 44,616. The winner of the 10m SOSB category was Wayne Smith, VO1TA, with a low power score of 14,664. In the 2011 contest there were no entrants in the 6m or 2m Single Op Single Band sub categories.

SINGLE OP – QRP

After entering the QRP category for many years, Doug Ferris, VA3DF, achieved first place this year in the SOABQRP category with a score of 258,856. Congratulations Doug! Allen Wootton, VE7BQO, took 2nd place with a score of 67,436. David Stephenson, VE3PYG, took 3rd place with a score of 53,109. Robert MacKenzie, VA3RKM, took 4th place this year with a QRP score of 42,230 ahead of Bruce Robertson, VE9QRP, in 5th place scoring 32,930.

PLAQUE WINNERS

Single Operator All Bands Low Power

Sponsored by Contest Club Ontario
Sam Ferris, VE5SF
1253 QSOs, 98 Multipliers
724,024 Points

Single Operator All Bands High Power

Sponsored by Radioworld
Lee Sawkins, VE7CC
1,962 QSOs, 115 Multipliers
1,160,580 Points

Single Operator All Bands – QRP

Sponsored by QRP Canada
Doug Ferris, VA3DF
531 QSOs, 76 Multipliers
258,856 Points

Single Operator Single Band Any Authorized Power

Sponsored by Elkel Products
Robby Robertson, VY2SS
1015 QSOs, 23 Multipliers, 20 Metre Band
110,538 Points

Single Operator All Bands CW

Sponsored by the Maritime Contest Club
William Hendrick, N0AC
1062 QSOs, 54 Multipliers
283,392 Points

Single Operator All Bands Phone

Sponsored by the Saskatchewan Contest Club
Ed Richardson, VE4VT
1498 QSOs, 60 Multipliers
479,880 Points

Multi-Operator Single-Transmitter High Power

Sponsored by Alfa Radio
VE6AO (Operators VE6TC, VE6CCL, VE6KC, VE6STP, VA6DBA and VE3RTL)
1408 QSOs, 105 Multipliers
804,300 Points

Multi-Operator Single-Transmitter Low Power

Tony Allsop VE3FTA Memorial Sponsored by the Mississauga ARC
VA7BEC (Operators VA7BEC, VA7KO)
996 QSOs, 88 Multipliers
443,168 Points

Multi-Operator Multi-Transmitter Any Authorized Power

Sponsored by Radioworld
VE6RAC (Operators VE6JY, VA6MA, VE6OH, VE6TR, VE6TCK, VE6WQ and VE6BF)
VA6DX (+ sons Davyn, Brysen), TI2WGO at VE6JY)
5495 QSOs, 133 Multipliers
3,316,488 Points

Single Operator Foreign Entrant

Jorge Bozzo LU8DQ Memorial Sponsored by
Alan Goodacre, VE3HX
George A. DeMontrond, III, NR5M
896 QSOs, 108 Multipliers
705,240 Points

SINGLE OP – ALL BAND – CW

Top honours and a new all-time record for the category go to William Hendrick, N0AC, with a score of 283,392 from the station of Toni Radebaugh, N0NI. Second place is awarded to Ralph Parker, VE7XF, with a score of 243,040; Ralph placed 5th last year. Third place was taken by Allen Singer, N2KW, with a score of 204,444. This year 4th place goes to Petar Sic, VE3EK, with a score of 198,432. Fifth place goes to Duane Sandmeyer, VE7UF, with a score of 198,400.

SINGLE OP – ALL BAND – PHONE

Once again this year Ed Richardson, with a new call sign VE4VT, claimed 1st place and an all-time new category record with a score of 479,880, up substantially from last year. Second place goes to Alan Swanick, VA6UK, with a score of 249,496. Manuel Migueis, VE3TU, took 3rd place with a score 203,840. Fourth place goes to BJ. Madsen, VE5FX, who scored 165,326 points, down one place from last year. Fifth place is awarded to Kenneth Park, VE3KPP, with a score of 156,864, also down one place from last year.

MULTI-OPERATOR

SINGLE-TRANSMITTER HIGH POWER

VE6AO operators VE6TC, VE6CCL, VE6KC, VE6STP, VA6DBA and VE3RTL at the Calgary Amateur Radio Association won the multi-single high power category with a score of 804,300. This year the KCARC at VE1LD in Nova Scotia took 2nd place with a score of 376,664. Third place was taken by Scott Nichols, VE1OP, with a score of 160,356.

MULTI-OPERATOR

SINGLE-TRANSMITTER LOW POWER

This year Rebecca (VA7BEC) and Koji Kimoto (VA7KO) at VA7BEC took top honours, establishing a new category high score record and the Tony Allsop, VE3FTA Memorial in the Multi-Single Low Power category with a score of 443,168 – well done!. Greg Osmond, VA3GKO and VE9BK were tied with operators at the Mississagua Amateur Radio Club VE3MIS (VE3IMG, VE3VE VA3JK) for 2nd and 3rd place with the same score of 404,060.

MULTI-OPERATOR

MULTI-TRANSMITTER

Once again this year, operators at VE6RAC – VA6MA, VE6OH, VE6TR, VE6TCK, VE6WQ, VE6BF, VA6DX (plus sons Davyn and Brysen), TI2WGO and VE6JY at VE6JY – claimed top honours in the MM category and significantly advanced their all-time record with a score of 3,316,488. Operators VE3DQ, VE3FJ, VE3FWA, VE3KAO, VE3MA, VE3NFR, VE3SSR at VE3YAA captured 2nd place in the category with a score of 1,189,888, up from 3rd place from the previous year. This year 3rd place was captured by the operators of VE3DC (VA3DJ, VA3TVW, VE3ATX, VE3BK, VE3DCU, VE3DVV, VE3EEZ, VE3QEE, VE3QU, VE3RIA, VE3RYI and VE3WBT), of the Hamilton Amateur Radio Club Contest Group with a score of 465,400.

RAC WINTER CONTEST 2011 MULTI-OP STATION OPERATORS

Call	Operators
DK4WF	DK4WF
EA8/RW3DO	RW3DO
G3ORY	G3ORY
JS1IFK	JS1IFK
K3IE	K3IE
K6III	K6III
LX1NO	LX1NO
N2BJ	N2BJ
N4DW	N4DW
NK3Y	NK3Y
NT2I	NT2I, KC2ZAB
NT6X	NT6X
P39P	5B4AIP, 5B4AKX, 5B4AMF, COSTAS
RN3F	RA1ZZ/3, RK3AW, RW3F
S59T	S59T
SM6CNN	SM6CNN
VA3DX	VA3DX
VA3GKO	VA3GKO, VE9BK
VA3NMI	VA3NMI
VA3RAC	VA3VXN, VE3BBM, VE3FFK, VE3KL, VE3TLY, VE3XRA, VE3YTZ, VE3ZTU
VA6AK	VA6AK
VA7BEC	VA7BEC, VA7KO
VE1LD	VE1FA
VE1OP	VE1OP + TELNET
VE2EZD	VE2EZD
VE2FK	VE2FK
VE2NGH	VE2NGH, VA2UTC, VA2SH, VE2OFH
VE3BHZ	VA3MP, VE3MF, VE3BHZ, VE3OAV, VE3USP
VE3DC	VA3DJ, VA3TVW, VE3ATX, VE3BK, VE3DCU, VE3DVV, VE3EEZ, VE3QEE, VE3QU, VE3RIA, VE3RYI, VE3WBT
VE3MIS	VE3IMG, VE3VE, VA3JK, VE3CWU
VE3MM	VE3MM
VE3RM	VA3OV, VA3YOJ, VA3ZAK, VE3IH, VE3RM, VE3TKN, VE3ZJS
VE3SAO	@VE3SAO, VE3EFC, VE3EDX, VE3RVA
VE3SWA	VA3MP, VE3MF, VE3BHZ, VE3OAV, VE3USP
VE3YAA	VE3DQ, VE3FJ, VE3FWA, VE3KAO, VE3MA, VE3NFR, VE3SSR
VE4RAC	VE4RAC
VE6AO	VE6TC, VE6CCL, VE6KC, VE6STP, VA6DBA, VE3RTL
VE6KD	VA6YB, VE6STE, VA6GCT, VE6KSW, VA6AWS, VE6BHO, VE6EFR, VE6KCF, VE6KD
VE6NC	VE6LE, VE6DXX, VE6KG, VA6NF, VE5SJA, VA6LM
VE6RAC	VA6MA, VE6OH, VE6TR, VE6TCK, VE6WQ, VE6BF, VA6DX (+ sons Davyn, Brysen), TI2WGO, VE6JY
VE7NA	VA7KLB, VE7TKB, VE7GOA, VE7GTB, VE7LSE, VA7DGV, VA7DPF, VE7TWO & VE7BGP
VE7RAC	VA7OBJ, VE7DXG, VE7JHE, VE7JP
VE7TK	VE7TK
VE7UT	VE7WWW, VE7ALN, VA7AQD, VE7PR, VE7VGO
VX6LB	VX6LB
W4VIC	W4VIC
WB0TEV	WB0TEV
WZ6Z	WZ6Z

WRAP UP

Your contest managers sincerely appreciate the increased use of Cabrillo-based log entries. Cabrillo files significantly reduce the workload associated with producing the contest results. Current versions of popular contest programs such as CT, NA, Super Duper and TR produce Cabrillo files that can be readily handled by new scoring software developed by VE5CPU.

As in the past we will continue to accept paper logs and other electronic logging formats so it is easy for everyone to send in an entry. If you are submitting a paper log,

we would appreciate, if possible, receiving summary sheets prepared in accordance with the format set out in the official rules and which provide a breakdown of VE, RAC, DX contact and a multiplier total. This will make compiling and checking of logs an easier and quicker process.

Thanks and congratulations to all for participating in the 2011 running of the RAC Canada Winter Contest and good luck in 2012. Operator comments are available on the RAC website.

73, Sam, VE5SF and Bart, VE5CPU



CANADA WINTER CONTEST RECORDS AS OF DECEMBER 31, 2011

Call	Category	QSOs	Mult	Score	Year
VE6JY (op VE5MX)	SO-AB-HP	1676	129	1,344,180	2000
VX5SF (op VE5SF)	SOABLP	1510	109	1,002,800	2001
VE3JC	SO-AB-QRP	399	81	271,674	2001
VE3YOC	SO-SB-144MHz	82	2	1,464	1995
VY2SS	SO-SB-50 MHz	382	10	10,720	2001
ZF2NT	SO-SB-28 MHz	1127	23	100,832	1998
VE3KZ	SO-SB-21 MHz	873	20	75,040	1997
VY2SS	SO-SB-14 MHz	1015	23	110,538	2011
VA3MO	SO-SB-7 MHz	525	22	72,644	2001
VE3BY	SO-SB-3.5 MHz	537	22	104,016	1997
VE3MGY	SO-SB-1.8 MHz	322	17	23,902	2008
N0AC	SO-AB-CW	1062	54	283,392	2011
VE4VT	SO-AB-PH	1498	60	479,880	2011
VX6JY	MS*	2092	132	1,476,024	2001
VA6AO	MO-ST-HP	1560	110	885,060	2003
VA7BEC	MO-ST-LP	996	88	443,168	2011
VE6RAC (at VE6JY)	MM	5495	133	3,316,488	2011

* Category superseded in Winter 2003

SINGLE OPERATOR ALL BAND LOW POWER

Call	CDN	RAC	DX	MLT	QSO	Score
VE5SF	545	29	679	98	1253	724024**
VE5ZX	432	31	669	94	1132	590132
VE4YU	257	28	161	85	446	293420*
VE3TW	275	23	255	70	553	260400*
NW2K	241	29	178	71	448	237566*
VE7BC	232	11	363	61	606	199226*
VE3FZ	196	21	135	72	352	190800
VE2JCW	207	18	250	65	475	190450*
K7IA	188	19	168	58	375	150568*
VE3GFN	154	20	233	60	407	144360
VE6NL	197	17	152	55	366	143770*
VO1GO	166	18	139	62	323	142476*
W4UT	174	24	13	61	211	137006*
VE3RCN	174	19	112	55	305	128920
VX2AWR	166	14	198	53	378	123808
VE3XT	147	19	77	57	243	114228
N0UV	149	22	46	55	217	111210*
VA2OP	162	11	259	45	432	106110
VE1BVD	199	14	228	38	441	103588*
VE3CES	131	16	73	58	220	103008
KS4X	147	21	22	51	190	98634
VE3DYY	123	18	63	57	204	97812
WA2JQK	92	24	17	66	133	94644
VE3AD	173	17	91	41	281	92332
VA3KAI	135	12	93	51	240	90576
VE5AAD	132	4	155	43	291	73530
N7VS	94	19	45	52	158	73320*
AA0AW	129	15	72	37	216	64158
KB3LIX	89	20	36	47	145	64014*
VE1ZA	129	8	220	32	357	60480
VX7MID	105	9	96	40	210	56880
VE6SQ	96	10	103	41	209	56006
WA2MCR	80	16	31	46	127	54372
W9LW	85	15	57	43	157	54352*
WA0WWW	86	14	46	44	146	54208
W9WLX	86	12	41	40	139	47280
K0HNC	92	10	69	32	171	40256
WR9Y	77	14	0	38	91	39900
VE3UZE	79	14	17	35	110	38640
KI6QDH	76	9	20	39	105	38220*
VE3XAT	60	12	76	36	148	35712
VA3JLF	58	15	29	37	102	34706
VE4SN	72	7	36	36	115	33552
VE3SB	57	11	39	38	107	32984
VE3GNU	79	13	0	30	92	31500
W4BK	63	10	0	37	73	30710
K8MU	57	9	47	35	113	29540*
VE3LC	69	8	79	29	156	29232
VE9OA	53	7	70	32	130	25920*
NF8M	56	7	41	33	104	25806
KN3A	44	11	20	32	75	22400
VA3DLJ	41	3	14	44	58	21912
VE3DMR	51	13	8	27	72	21222
VE4EA	57	6	137	22	197	21076

W8ASA	45	11	10	30	66	20700
AA8IA	48	9	29	27	86	19386
EA8AQV	53	8	27	26	88	19344*
W1PR	54	10	0	26	64	19240
VE3JSQ	46	9	26	27	81	18684
AB1OD	38	10	17	30	65	18420*
N9RO	44	7	0	24	51	13920
K4DJ	56	4	20	20	80	13600
N2CG	31	8	2	28	41	13272
VE2AXO	43	6	53	20	102	13120
N2JJ	29	8	20	25	57	12250
WC0V	46	7	5	20	58	12200
VE3IGJ	32	6	23	24	61	11664
UA0KBG	38	8	46	18	92	11376*
WK5DX	43	6	8	19	57	10754
VE4GOM	39	10	3	17	52	10132
VE8DW	5	19	1	21	25	9072*
VE3EDX	33	6	26	18	65	9036
KD0S	23	2	0	16	25	4320
VE3VCF	18	3	13	11	34	2926
ON6FC	17	2	7	13	26	2912*
VE3FJ	28	2	26	7	56	2604
YV5TX	15	3	13	9	31	2124*
VE7SJW	10	2	3	12	15	1752
W1MJB	3	4	0	7	7	770

SINGLE OPERATOR ALL BAND HIGH POWER

Call	CDN	RAC	DX	MLT	QSO	Score
VE7CC	681	40	1241	115	1962	1160580**
VE3CX	630	33	1286	110	1949	1048520*
NR5M	509	37	350	108	896	705240*
VE3RTU	471	30	808	94	1309	651044
VE8RAC	462	11	761	91	1234	578942*
VE5CPU	427	20	627	90	1074	533160*
K9YC	438	29	240	95	707	516800*
VE6TL	368	22	823	80	1213	461280*
VE6BBP	251	14	465	73	730	271560
VO2RAC	429	13	362	48	804	253152*
VE7WO	294	12	575	50	881	216500
N8OO	222	13	372	67	607	216008
VE3FGU	210	21	251	68	482	205496
VE7WY	195	16	400	52	611	159640
VE3EJ	171	22	207	61	400	156404
VE3XN	173	21	60	64	254	145280
AE5E	195	13	245	44	453	118800*
VE2FXL	167	11	123	51	301	108936*
VO1UL	127	25	4	59	156	104902
KY7M	167	14	41	51	222	103632*
VE1FX	175	16	63	42	254	92232*
W0BH	134	10	128	44	272	79024
WA0MHJ	92	17	2	61	111	77104
VA3OL	82	20	3	45	105	55170
VE1ZAC	83	11	70	42	164	49980
KI1U	85	10	29	39	124	43212*
WA8KAN	72	10	0	40	82	36800*
VE5RAC	152	4	95	19	251	34010

N5XZ	55	12	40	32	107	27840
VE7AX	50	10	17	37	77	27158
WD0ECO	63	7	15	29	85	23200
WD8RYC	41	10	0	32	51	19520*
W7GKF	44	8	33	26	85	17316
BY1RX	48	3	234	17	285	17136*
VE7VR	46	3	60	23	109	14720
VE6AMI	56	5	8	21	65	13356
K8TE	31	1	4	17	36	5746
VO1BQ	32	3	13	14	48	5684
VA1SEA	0	28	0	10	28	5600
OL2U	21	3	93	11	117	5016*
OH1BOI	24	4	23	12	51	4392*
VE3VAI			1936			
W6NF	11	2	1	8	14	1216
EA7HGX	7	1	5	8	13	800*
VA7OA	90	15	19	50	124	61900
PC3H	2	0	4	2	6	56*

MULTI-OP SINGLE TRANSMITTER LOW POWER

Call	CDN	RAC	DX	MLT	QSO	Score
VA7BEC	340	18	638	88	996	443168**
VA3GKO	338	28	300	89	666	404060*
VE3MIS	307	31	425	89	763	404060
VE7RAC	312	14	386	74	712	308728
VE7UT	210	19	171	66	400	186252
VE6NC	167	23	261	69	451	182988*
NT2I	135	20	36	36	191	65592*
WZ6Z	105	13	4	38	122	50084*
VE7NA	69	4	59	42	132	37296
VX6LB	68	9	107	27	184	28998
VE4RAC	79	5	85	18	169	19080*
EA8/RW3DO	44	5	4	19	53	10412*
VE7DB	49	4	28	16	81	10016
DK4WF	35	2	22	21	59	9114*
LX1NO	32	4	42	16	78	7744*
S59T	13	2	5	8	20	1440*
JS1IFK	11	3	15	6	29	1200*

MULTI-OP SINGLE TRANSMITTER HIGH POWER

Call	CDN	RAC	DX	MLT	QSO	Score
VE6AO	529	34	845	105	1408	804300**
VE1LD	409	16	376	72	801	371664*
VE1OP	215	17	498	46	730	160356
NK3Y	178	28	9	64	215	150912*
K6SRZ	206	14	166	51	386	136272*
WB0TEV	174	17	55	62	246	135780*
VE2NGH	162	12	277	39	451	94146*
VE7TK	92	13	65	45	170	58950*
VE2E2D	110	10	117	36	237	55224
VA6AK	114	17	11	36	142	54072
SM6CNN	86	12	11	35	109	39270*
K6III	74	9	79	29	162	31262
VE3MM	74	8	76	27	158	28404*
VA3NMI	69	10	12	26	91	23764
W4VIC	47	4	33	17	84	10472*
VE2FK	53	3	97	13	153	10192
P39P	10	1	316	8	327	6016*
NT6X	29	2	15	13	46	4680
RN3F	22	3	23	8	48	2608*

MULTI OPERATOR MULTI TRANSMITTER

Call	CDN	RAC	DX	MLT	QSO	Score
VE6RAC	1642	45	3808	133	5495	3316488**
VE3YAA	671	42	1537	112	2250	1189888*
VE3DC	522	27	700	65	1249	465400
VE3SWA	346	30	571	83	947	431766
VE3BHZ	345	30	571	83	946	430936
VE3RM	423	29	550	70	1002	413700
VE6KD	479	26	701	55	1206	369160*
K3IE	255	24	122	69	401	225906*
G3ORY	225	12	313	54	550	168264*
VA3RAC	188	12	232	49	432	126616
VA3DX	143	13	346	48	502	114336
N4DW	151	11	154	40	316	81520
N2BJ	72	18	18	42	108	46872*
VE3SAO	94	13	41	32	148	41024

SINGLE-OP ALL BAND CW – ANY POWER

Call	CDN	RAC	DX	MLT	QSO	Score
N0AC	350	18	694	54	1062	283392**
VE7XF	321	19	685	49	1025	243040*
N2KW	288	19	263	54	570	204444*
VE3EK	260	17	597	48	874	198432*
VE7UF	253	17	549	50	819	198400
VA7ST	231	15	655	44	901	172480
VE3KI	206	17	428	46	651	149776
VE1RAC	234	8	556	41	798	148092*
VE7IO	174	12	407	41	593	114554
VE7JKZ	178	11	423	39	612	110994
N6AR	165	14	121	47	300	102084*
K4ORD	168	14	148	43	330	97008
KG4W	175	11	184	39	370	91182
F5IN	135	10	276	43	421	90386*
VE7SQ	176	11	376	33	563	90156
K5XR	168	12	197	36	377	83304*
VE2SG	133	9	434	32	576	76096*
N4UC	167	9	143	34	319	72624
VA3ATT	141	10	193	36	344	71856
W4YE	124	9	93	39	226	62634
KQ6ES	147	11	132	32	290	62528*
VA3EC	132	9	231	31	372	60822
W6TK	126	10	136	34	272	58888
NG7Z	107	8	136	37	251	55574*
N4BP	122	9	119	33	250	54054
VA1MM	116	10	199	30	325	52740
W2RR	120	9	72	34	201	51816*
VE6GJ	114	12	201	29	327	51678*
VE3FH	106	12	105	34	223	51340
NA4K	102	7	166	34	275	50728
WB8JUI	103	12	90	34	205	49300*
VA7OM	105	12	154	30	271	47940
AA7V	107	9	120	29	236	43210
NA8V	96	10	109	28	215	38584
VA2WA	72	6	230	29	308	37700
KD2MX	86	8	90	31	184	37200
W9LHG	96	12	110	25	218	35500
AL1G	104	7	181	23	292	35466*
K1GQ	93	11	4	30	108	34740*
WB0SOK	98	7	0	31	105	34720
VE7YU	81	6	49	32	136	32896
EA5YU	83	6	149	26	238	32448*
W1END	77	9	76	29	162	31958
W6SX	90	5	126	25	221	31300
N4AAI	98	9	117	22	224	30668
DL6FBL	99	5	117	23	221	30452*
VA7HU	72	6	207	24	285	30096
VE3XK	56	12	132	27	200	28728
K1PU	74	6	78	28	158	28448
K2SX	76	8	25	29	109	28130
K9JM	71	8	57	28	136	27552
VO1HP	73	5	108	25	186	26150*
NS9I	82	7	59	24	148	25872*
N3KR	70	8	80	25	158	25500
N4DU	69	8	104	22	181	23276
N3QQ	60	6	81	26	147	22932
G3LIK	50	6	180	23	236	22540*
WA3AAN	70	9	0	24	79	21120
K4UK	63	9	13	25	85	20900
W1UJ	49	6	107	25	162	20600
KR2AA	67	6	94	21	167	20538
AF4OX	62	6	51	24	119	20208
W4NBS	54	9	18	26	81	19656
W2LE	58	6	69	23	133	19274
EA8CAC	19	4	779	10	802	18280*
DF6RI	53	6	81	22	140	17864
VA2EU	60	3	97	19	160	16226
W9RE	48	7	0	26	55	16120
K6DGW	59	7	55	19	121	15960
K4DXR	46	8	0	25	54	15500
N5EP	55	4	33	20	92	13920
W1NN	49	7	54	17	110	12546
AB2E	54	3	63	17	120	12342
N1NN	41	6	55	17	102	10880
KL8DX	41	6	3	20	50	10720
K7BX	40	4	50	18	94	10440
K1NEF	37	7	29	18	73	10224
SA6G	48	4	57	15	109	10110*
G3GLL	44	5	63	15	112	9990
N4AF	41	4	25	16	70	8640

NA4C	32	3	35	19	70	8550	W5QLF	3	1	0	3	4	150
VE5BCS	42	4	14	16	60	8448*	JG3CQJ	4	0	3	3	7	138
DM3PKK	35	3	15	19	53	8360	YT9M	4	0	3	3	7	138
VE3CH	26	6	40	18	72	8280	JG1SWV	4	0	0	3	4	120
K5LG	36	5	43	15	84	8190	OK1FCA	2	1	8	2	11	112
N3UA	26	5	22	20	53	8080	R3LC	4	0	29	1	33	98
KC8CAJ	27	5	16	20	48	8040	M0SFR	2	0	35	1	37	90
VE7CA	30	3	73	15	106	7590	UA3UMF	2	0	3	2	5	52
K1ZZI	40	4	30	14	74	7560	VK4TT	0	1	6	1	7	32*
NM5M	37	2	16	16	55	7072	RU6HL	1	0	7	1	8	24
N8BJQ	28	5	13	17	46	6902	NS3Q	36	3	42	14	81	DQ
OE3KAB	36	2	101	11	139	6622*	SINGLE-OP ALL BAND PHONE-ANY POWER						
DL7BY	27	3	48	15	78	6390	Call	CDN	RAC	DX	MLT	QSO	Score
W1FJ	24	5	20	16	49	6080	VE4VT	560	29	909	60	1498	479880**
N6WIN	28	5	43	13	76	6058	VA6UK	353	16	474	52	843	249496*
W0CO	36	5	1	13	42	6006	VE3TU	331	19	115	52	465	203840*
DM3XI	28	3	25	15	56	5850	VE5FX	281	10	182	49	473	165326*
KB1ODO	31	4	0	15	35	5850	VE3KPP	298	11	224	43	533	156864
WG7Y	33	3	0	15	36	5850	VE1ZD	262	7	488	38	757	141968*
WC7Q	28	4	19	14	51	5572	VE8GER	264	12	310	39	586	136500*
VE3IZS	33	4	35	11	72	5280	N4WZ	284	13	145	40	442	135600*
N2UU	24	5	48	12	77	5232	VA4HZ	216	15	133	42	364	114492
KE4KY	30	3	25	12	58	4920	W7WW	245	11	154	38	410	113164*
K9FO	24	3	9	15	36	4770	VY2RAC	233	10	191	38	434	110656*
EA1CS	22	3	28	14	53	4704	VE3NLS	201	17	160	41	378	109470
W2JZ	22	4	18	14	44	4704	VA7AQ	218	6	363	30	587	90780*
VE3VHB	19	4	2	16	25	4384	KA3HED	144	17	45	45	206	84150*
K9GS	32	3	29	10	64	4380	VE3NB	149	18	50	43	217	83850
LY5O	25	1	57	11	83	4224*	VA3QV	127	18	27	46	172	77464
VE3EY	19	1	56	12	76	3864	K5DHY	143	19	22	41	184	76014*
AA7FY	23	3	29	11	55	3828	VE6EC	132	15	40	43	187	73100
HA2MN	21	2	40	11	63	3630*	VE3XRC	144	19	41	38	204	72276
IK4VET	17	3	13	14	33	3584*	EI9HQ	134	7	256	35	397	69720*
UR5MM	18	2	58	10	78	3360*	VE7KRC	116	15	11	43	142	63726
YO4ATW	17	4	11	12	32	3264*	VA4DAV	158	5	65	33	228	59730
VE3OM	21	3	10	11	34	3190	VE7NS	104	13	147	37	264	58978
VE2DC	23	2	24	10	49	3180	VO1KVT	126	12	151	29	289	52258*
SI5Y	25	1	62	8	88	3152	VE9RAC	119	6	74	35	199	51030*
XE2S	18	2	15	12	35	3000*	KE8UN	109	15	3	36	127	50256*
AC0OJ	17	3	0	13	20	2990	VE9MY	74	16	11	39	101	42198
A17AA	16	4	2	12	22	2928	VE3GPH	88	13	13	36	114	41976
YU1FG	16	2	82	8	100	2912*	VA3JWR	90	15	11	33	101	40326
K5SS	20	3	0	11	23	2860	VE3NQM	85	15	0	34	100	39100
K6CSL	21	3	23	9	47	2844	KA8Q	83	13	0	33	96	35970
N2WN	15	4	0	12	19	2760	VE3KZ	97	9	41	29	147	35728
IZ2GRG	17	2	29	10	48	2680	K7XE	94	12	0	30	106	35400*
KB6NU	18	4	8	9	30	2484	VE6CMV	107	7	95	25	209	35000
RY7G	14	4	12	10	30	2440*	VE1SQ	91	12	17	29	120	34336
SM5QU	20	2	15	9	37	2430	VA3YTY	73	10	70	32	153	34240
OK1KZ	9	1	91	8	101	2336*	VA3MOD	78	10	42	32	130	34048
UA3VVB	18	2	35	8	55	2320	VE7KDK	89	7	12	31	108	32674
AA5JG	18	2	8	9	28	2124	N0UJJ	74	12	14	31	100	31248*
N9CO	14	2	0	10	16	1800	KI7DG	81	8	3	32	92	31232
KM6I	20	2	5	7	27	1750	VE2ESU	70	14	19	30	103	30540*
SN5J	16	2	24	7	42	1736*	VE5KS	96	3	96	24	195	29088
OZ8SW	14	2	29	7	45	1666*	VY1RAC	148	5	151	15	304	28230*
SP1AEN	16	2	35	6	53	1620	N2ESP	71	10	0	31	81	28210
GI4BQI	17	1	8	8	26	1568*	VE9REB	85	9	17	25	111	26600
EA8DA	15	1	34	6	50	1428	VA7GE	69	9	6	29	84	25578
OZ1DGQ	11	2	14	8	27	1424	VE3WMJ	62	13	14	27	89	24516
EW1IP	13	1	14	7	28	1246*	AD7J	66	8	18	28	92	23968
RA1QD	12	2	35	5	49	1150	VA3ECJ	73	8	24	25	105	23450
LZ1IKY	12	1	11	7	24	1134*	VA2RIO	57	10	9	29	76	22852
SQ9BDN	12	2	0	7	14	1120	W4SVO	97	5	14	20	116	21960
DM3AZ	10	1	9	7	20	966	VA3MTT	57	10	21	27	88	21924
OO9O	6	0	57	5	63	870*	AE5BR	66	8	0	25	74	20500
ON3ND	13	0	16	5	29	810	W7YVK	49	12	0	28	61	20440
K3UK	11	0	7	6	18	744	VE5DLM	85	6	68	18	159	19908
OK2BNC	9	0	25	5	156	700	WB0GAG	52	11	6	26	69	19552
OH2LNH	10	1	16	4	27	608*	KE5ISO	53	13	1	24	67	19008*
JA1CP	7	1	5	6	13	600*	KI4VCT	50	10	1	27	61	18954
JE3UHV	6	1	9	5	16	490	VE5CTM	64	4	88	21	156	18816
W0ERP	6	1	6	5	13	460	VE3FYN	57	7	13	25	77	18400
RA3NC	6	1	17	4	24	456	VE2CQ	43	9	0	29	52	17690
JA3JM	7	0	11	4	18	368	KX1X	50	8	0	25	58	16500
RN2FQ	5	1	1	5	7	360*	AD1DX	44	10	0	25	54	16000
DL2HWI	10	0	3	3	13	318	WB0LJK	51	9	10	21	70	14910
DJ9SN	7	0	16	3	23	306	K5WP	58	7	5	19	70	13870
UR5EFL	5	1	5	3	11	240	NW5Q	52	4	1	23	57	13846
LY2BNL	4	0	2	4	6	176	VE6GEL	43	5	9	25	57	13700
EU6AA	3	0	10	3	13	150	VG1CQ	48	10	20	18	78	12960
W4JHC	1	2	0	3	3	150							

VE3EEU	47	7	15	20	69	12800	VA3WR	37	7	18	26	62	14196
F6DRP	57	3	34	18	94	12564*	K2DG	58	7	47	17	112	13838*
NV9L	47	9	0	19	56	12350*	IV3AOL	28	2	11	16	41	5472*
KC2QJB	32	9	2	24	43	12096*	K6MI	18	5	4	17	27	4896*
AD7MQ	40	7	4	18	51	9864	W0PWE	17	3	52	13	72	4342
VE2HAY	34	6	15	20	55	9800	EA7AAW	23	2	23	10	48	3160*
W2AJW	44	6	5	16	55	9120	YT2T/QRP	25	3	16	9	44	3078*
VE7FCO	44	4	5	17	53	9010	N2JNZ	34	2	39	6	75	2748*
N1ZN	33	8	0	18	41	8820	EA3FF	17	1	4	12	22	2376
VE2DRO	28	7	8	20	43	8720	EA4EMC	17	1	5	10	23	2000
VE3MEW	36	5	9	18	50	8604	VE9BEL	19	2	4	7	25	1666
VX3MCF	34	8	12	14	54	7336	VE6SKY	12	1	2	10	15	1440*
KD8GRG	28	7	0	17	35	7140	KI4FW	10	2	8	8	20	1248*
EA2DT	31	2	9	18	42	6624*	VE3CV	17	2	42	4	61	1176
VE2POU	34	3	1	16	38	6432	SP4LVK	13	1	0	7	14	1050*
AA6WH	32	4	4	15	40	6120	VE3GTC	11	2	21	5	34	960
VA3WU	32	6	12	13	50	6032	N9BT	6	2	8	7	16	812*
KJ4VTH	28	3	12	16	43	5824	G4FDC	7	1	0	6	8	540*
VA7AQD	26	5	13	15	44	5790	US5VX	8	1	29	3	38	474*
VA3RPW	24	7	9	14	40	5572	JA2MWV	2	1	0	3	3	120*
NY4S	22	4	6	17	32	5304	M0CEF	5	0	3	2	8	112
AD6LV	31	3	0	13	34	4810	RW3AI	2	0	26	1	28	72*
KL2HD	23	4	0	13	27	4030*	UA3RF	1	1	3	2	5	72
K2AVI	27	3	0	12	30	3960	YO4AAC	2	0	7	2	9	68*
W1PL	16	5	5	14	26	3780	N4QX	0	1	2	1	3	24
VE6KTK	16	5	2	12	23	3168	PA1B	1	0	4	1	5	18*
PY1SX	20	4	0	11	24	3080*	UT3EK	0	0	8	1	8	16
WO9I	17	5	0	11	22	2970	JA1POS	1	0	0	1	1	10
W0PAN	26	3	0	9	29	2880	N8HM	1	0	0	1	1	10*
W7GSV	17	4	3	11	24	2816	RZ3BW	1	0	0	1	1	10
CT2JBG	17	2	6	12	25	2664*	UA0SBQ	0	0	3	1	3	6*
KD4QMY	17	1	0	13	18	2470	SP6BXM	0	0	1	1	1	2
WA1DRQ	27	3	0	7	30	2310							
GI4AAM	20	2	2	9	24	2196*							
VA2UTC	11	4	5	10	20	2000							
KC0DMF	15	2	3	10	20	1960							
PG1R	18	0	5	10	23	1900*							
LB9RE	14	3	1	9	18	1818*							
K1MAZ	17	2	5	8	24	1760							
W0RO	20	1	0	8	21	1760							
W8IDW	13	3	2	9	18	1746							
K2HAT	11	2	4	11	17	1738							
K5ER	15	2	0	9	17	1710							
W8KNO	14	2	0	9	16	1620							
WD4CTP	8	4	1	10	13	1620							
W7MCM	12	2	0	10	14	1600							
KR9E	15	2	2	8	19	1552							
W9JET	13	1	0	9	14	1350							
WV0Q	14	2	3	7	19	1302							
W2ARP	7	4	0	8	11	1200							
PY5FO	11	2	9	7	22	1176							
PY1NS	8	3	1	8	12	1136							
WC8Z	12	3	3	6	18	1116							
W7SUR	11	2	2	6	15	924							
VE3RYC	8	2	2	7	12	868							
OK4DZ	11	1	2	6	14	804*							
PY3PA	9	0	4	7	13	686							
AB2TC	43	8	2	1	53	594							
KC9HYY	9	2	5	4	16	560							
W7JSD	6	1	0	5	7	400							
VE2GLA	3	3	2	4	8	376							
AC2HJ	5	1	0	4	6	280							
KK4CIS	6	0	1	4	7	248							
CT2KFA	7	0	2	3	9	222							
AC2HH	15	2	4	1	21	198							
W6UX	4	1	0	3	5	180							
KB0UKW	2	1	0	2	3	80							
MU0GSY	4	0	3	1	7	46*							
HB9TSA	2	0	0	2	2	40*							
OK2BEN	1	0	3	1	4	16							

SINGLE OPERATOR ALL BAND QRP

Call	CDN	RAC	DX	MLT	QSO	Score
VA3DF	239	24	268	76	531	258856**
VE7BQO	103	15	68	46	186	67436*
VE3PYG	83	13	46	45	142	53190
VA3RKM	76	9	45	41	130	42230
VE9QRP	66	7	45	37	118	32930*
VE4EE	70	8	1	27	79	23274*
VE3MO	56	5	97	21	158	17934
NB1N	59	9	61	19	129	16948*
KF0F	47	9	5	24	61	15840*

SINGLE OPERATOR SINGLE BAND

Call	CDN	RAC	DX	MLT	QSO	Score	BND	Pwr
VE1RSM	9	0	91	3	100	816	160	LP
W7DRA	15	1	8	4	24	744	160	HP
N7IR	7	1	0	3	8	270	160	LP
N7MAL	4	1	0	3	5	180	160	LP
JQ2VVH	3	1	0	3	50	150	160	HP
VE6ZZZ	175	11	150	22	336	49940*	80	HP
VE3MGY	154	8	202	22	364	46288*	80	HP*
VE3GSI	84	3	166	10	253	12320	80	LP
W6SZN	28	3	11	6	42	2172*	80	HP
W6RKC	24	3	21	6	48	2052	80	HP
WA4JQS	20	1	5	5	26	1150*	80	LP
TF3SG	3	1	0	3	4	150*	80	HP
WU9B	4	0	0	3	4	120*	80	LP
N6RO	134	5	162	22	301	38808*	40	HP
VE3IAE	105	7	134	21	246	30618*	40	LP
VE3NR	86	7	112	22	205	26928	40	HP
W8IQ	74	9	45	19	128	19190*	40	HP
VE9ML	61	4	75	11	140	9240*	40	LP
W4BQF	39	3	48	9	90	4914*	40	HP
K1GU	34	1	36	9	71	3888	40	LP
EA3ELZ	29	2	27	8	58	3072*	40	HP
CT1ANO	19	2	72	6	93	2244*	40	LP
W6GMT	30	0	23	6	53	2076*	40	LP
KD6WKY	17	2	32	5	51	1370	40	LP
VE3FU	16	1	44	5	61	1340	40	HP
YO5OHO	7	1	18	5	26	630*	40	LP
N9HDE	4	1	6	4	11	288	40	LP
PR7AR	3	1	4	4	8	232*	40	HP
VE3DZ	4	1	7	3	12	222	40	LP
UR3PGW	2	1	7	3	10	162*	40	LP
DJ3CS	4	0	5	2	9	100*	40	LP
VE3DRO	2	1	1	2	4	84	40	LP
LZ1FJ	1	0	10	1	11	30*	40	LP
F4GLQ	2	0	0	1	2	20*	40	LP
RV1OO	1	0	2	1	3	14*	40	HP*
SN9K	1	0	1	1	2	12*	40	HP*
VA3FN	1	0	1	1	2	12	40	LP
R8US	1	0	0	1	1	10*	40	LP
UA4FCO	0	0	2	1	2	4	40	LP
VY2SS	320	12	683	23	1015	110538**	20	HP
VE2BQB	238	11	378	22	627	73832*	20	HP*
K3TW	218	13	264	23	495	68264*	20	HP
VA7JW	231	7	529	13	767	45604*	20	HP
VE9AA	59	3	160	20	222	19400*	20	HP
VA3ATW	85	8	80	13	173	15210*	20	HP*
K7JQ	53	3	29	11	85	7128*	20	HP
N9WL	44	6	0	12	50	6720*	20	LP

N4UEZ	19	6	0	14	25	4340	20	LP
YL1ZS	17	5	0	16	22	4320*	20	HP*
LY4G	24	3	78	8	105	3648*	20	LP
VE3SKX	22	5	6	10	33	3320	20	LP
F9KP	26	2	43	8	71	3088*	20	LP
VA3GUY	24	3	37	7	64	2618	20	LP
VE5WD	22	2	2	9	26	2376*	20	LP
YL3DX	18	2	58	7	78	2352	20	LP
K0YQX	19	2	0	10	21	2300*	20	LP
WB2DVE	20	3	5	8	28	2160*	20	LP
AK4PE	18	3	5	8	26	2000	20	LP
UB0A	16	2	13	7	31	1582*	20	HP
DD8SM	17	0	0	7	17	1190*	20	HP
UN9GD	10	2	23	6	35	1116*	20	LP
VA7AM	7	3	0	8	10	1040	20	LP
VA7IR	10	2	46	4	58	928	20	HP
VE7DXU	11	1	0	7	12	910	20	LP
DH2URF	10	1	12	6	23	864	20	LP
M6ZSE	10	1	19	5	30	790*	20	LP
DL4VQ	4	2	7	5	13	670	20	HP*
R7MT	8	1	15	5	24	650*	20	LP
JE1RRK	10	2	10	4	22	640*	20	LP
2E0EET	8	1	1	6	10	612	20	LP
CT1DZY	10	1	0	5	11	600*	20	LP
LZ1BJ	7	1	1	5	9	460*	20	LP
DL7UXG	5	2	1	5	8	460	20	LP
VA7GAP	3	2	7	5	12	420	20	LP
SP5GDY	8	1	2	4	11	416*	20	HP*
VE5ZC	10	1	6	3	17	396	20	HP
UA6HFI	5	1	13	4	19	384	20	LP
JA2CUS	5	1	6	4	12	328	20	LP
IC8POF	4	2	0	4	6	320*	20	LP
DL6DVU	8	0	0	4	8	320	20	HP
DL8UVG	5	1	4	4	10	312	20	LP
PY1TR	6	1	2	3	9	252*	20	LP
IT9RZU	3	1	2	3	6	162	20	LP
R9RT	4	0	6	2	10	104	20	LP
YO3JW	2	0	2	2	4	48*	20	HP
PD1TV	2	0	1	2	3	44*	20	LP
VE2NMB	2	0	1	2	3	44	20	LP
PY1PDF	3	0	2	1	5	34	20	HP
JR0BUL	1	0	1	1	2	12	20	LP
JK1LUY	1	0	0	1	1	10	20	HP
VE7CV	139	8	239	22	386	44616*	15	LP
LU2QC	57	2	100	11	159	8910*	15	HP
HC1JQ	26	1	35	8	62	2800*	15	HP*
N5RZ	20	3	17	9	40	2646*	15	HP
KC4ABC	17	3	8	6	28	1476*	15	LP
OP4A	9	0	66	5	75	1110*	15	LP
JR1BTG	6	2	16	5	24	660*	15	LP
EA4RCT	5	2	0	4	7	360*	15	HP
JD1BIA	2	1	0	3	3	120*	15	HP*
OK2ABU	4	0	6	2	10	104*	15	HP
JA9CCG	1	1	0	2	2	60	15	HP
SQ9IAU	4	0	7	1	11	54*	15	LP
DH5MM	3	0	0	1	3	30*	15	LP
SM4DQE	3	0	0	1	3	30*	15	HP
UA6AK	1	0	2	1	3	14*	15	HP
OH6GAW	1	0	0	1	1	10*	15	LP
VO1TA	66	3	204	13	273	14664*	10	HP
VA7MM	45	4	114	9	163	6822*	10	LP
PP5JAK	26	2	8	11	36	3476*	10	LP
K0PV	19	3	0	9	22	2250*	10	LP
RA4ACX	17	1	18	6	36	1356*	10	LP
PY4XX	14	2	14	5	30	1040	10	LP
LU4MHQ	17	2	21	4	40	1008*	10	LP
VG3YY	9	1	4	5	14	590*	10	HP*
FG4NO	6	0	11	4	17	328*	10	LP
PY2EB	6	1	1	4	8	328	10	LP
K5MBA	5	2	1	3	8	276	10	LP
K3JHT	4	1	0	3	5	180*	10	HP*
SP3AZO	7	0	3	2	10	152*	10	LP
VE2PIJ	1	1	0	1	2	30*	10	HP
JA7OWD	1	0	5	1	6	20*	10	HP

SPECIAL TEAM ENTRY RESULTS

This year an informal team system with pre-registered entrants was tallied. There were seven teams from east to west across the country. The idea is to stimulate participation so please let VE5SF know what you think of this idea. Here's the results. You figure out who won – but no prizes!

MCC RAC Attack

VE1RGB as VE1RAC	148092
VE1BVD	103588
VE9AA	19400
VE1ZA	60480
VA1MM	52740
Total	384300

Team ORCA One

VE7XF	243040
VE7IO	114554
VE7BC	199226
VE7JKZ	110994
VE7UF	198400
Total	866214

Team ORCANada

VA7AQ	90780
VE7CV	44616
VE7VR	14720
VA7FC	0
Total	150116

Team ORCANagan

(all Kelowna and Vernon ops)

VE7KRC	63726
VE7JKS	0
VE7KDK	32674
VE7KB	0
VA7ST	172480
Total	268880

CCO 1

VA3EC	60822
VE3AD	92332
VE3GFN	144360
VE3TW	260400
Total	55791

CCO 2

VE3CX	1048520
VA3KAI	90576
VE3TU	203840
Total	1342936

SASK Contest Club

VE5CPU	533160
VE5SF	724024
VE5ZX	590132
Total	1847316

Checklogs: DL2IPU, RA4UVK, RT1A, VE6NM, VE6RL

HP* – Assumed High Power

Call* – Assumed High Power

Score* – Certificate Winner

Score** – Category / Plaque Winner



PUBLIC SERVICE / ARES

Fall is upon us here in Ontario with Mother Nature putting on her cloak of many colours. Plans are being made to assist the Scouts with their Jamboree On the Air (JOTA), and there is a flurry of activity around preparing for the Ontario Simulated Emergency Test (SET).

One of my colleagues is fond of saying, "I'm having fun with Ham Radio, are you?" As I read through the activities in which my fellow Amateurs have been involved in during the summer months, I know that there was indeed a lot of fun involved, but also it is an outstanding example of the commitment to their communities that Amateurs all across this country display time and time again.

The west coast has been particularly active with a bike race, a bathtub race, as well as a recognition service. The recognition service was to celebrate some 110 years of service provided by seven Amateurs. Congratulations to you all!

Further east, in La Belle Province, Normand, VE2NHK and his XYL Carole, VE2NDJ, have been extremely busy this summer with their fellow Amateurs in supporting the Velo-Fete and the Ironman competition in Lake Placid, New York – the latter in support of an ARRL ARES group. That event racked up over 400 volunteer hours by Amateurs. How is that for community spirit!

With winter approaching, it is time to check your antennas and get ready for more on air time with some good DX scheduled for the fall and winter. I intend to have fun with Ham Radio, and I hope that you all are.

Pat Barrett, VE3RNH – National Amateur Radio Emergency Database Manager



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When the race started in 1992, the RCMP asked YARA for assistance with communications during the race. From that point, when YARA was working from car to car, their involvement grew and now they have a system of 22 repeaters that cover the Yukon territory.

YARA members are set up at every checkpoint along the course and in Whitehorse. While race statistics are important, safety has the highest priority. From its small beginnings YARA now provides a vital service to the race.

As if all this wasn't enough, Ron has also taken part as a rider in 10 races; he rides one leg of the race and then goes back to his communication duties.

Congratulations Ron and all the members of YARA for a great job!



New Yukon Repeater

After the race, during the last week of August, YARA rebuilt a repeater about 40 miles south of Haines Junction.

The new repeater was required because communications from checkpoint 2 in the race were very difficult. Now you can use a handheld on the Haines Highway and connect to Whitehorse or anywhere else on the Yukon Highway system including Haines, Alaska.

This Daniels Electronics V drop U Link, 147.060 100 tone, is located in one of the famous Sinclair Radio Labs Com-Shells at 2080 metres.

The above photos show the bike race and the new repeater in the falling Yukon sunshine about 8 pm the day of the install.

THE 20TH ANNUAL KLUANE CHILKAT INTERNATIONAL BIKE RELAY

*Paul Giffin, VA7MPG
RAC BC/Yukon
Section Manager*

The 20th annual bike race, which involves over 1200 cyclists, covers both sides of the Alaska/Canada border.

The bike relay starts at the Dezadeash River Bridge in Haines Junction, Yukon and ends at the Parade Grounds at the Fort Seward Barracks in Haines, Alaska. As you can see it is an international race and involves many volunteers. The course is 238 kilometres (148 miles) and is broken into eight legs and travels the Haines Road. Weather during the race can be anything from heat, snow, rain, high winds or any combination thereof. If you would like more information on the race visit <www.kcibr.org>.

The Yukon Amateur Radio Association (YARA) provides communications for the race from start to finish, about 150 miles, using eight checkpoints. YARA has been involved with the race since its inception and over the years has gone from voice



relays to packet and now has a complete voice network for the entire race. They now use an Orienteering timing system, which is so slick we don't have to do any timing stats anymore (good).



I would like to single out one special volunteer. BC Yukon Assistant Section Manager, Ron McFadyen, VY1RM.

Ron has been involved in every single race for the last 20 years. He works in the background and ensures that communications work smoothly and efficiently. I should also mention that Ron is one of the founders of the Yukon Amateur Radio Association.

Ron McFadyen, VY1RM



The unit needed new batteries and solar panels to provide power to the commercial repeater at the site and, for our efforts in providing a complete update and rebuild, we were allowed to occupy and install a repeater for YARA as well.

This unit is part of the YARA wide area network (23 linked repeater network) and links to Pilot Mountain on UHF about 100 miles or 160 kilometres away. It helps that the 146.94 repeater at Pilot, 40 miles north of Whitehorse, is also at about 7200 feet.

About a dozen YARA members volunteered over two days to do this coms job. Six Amateurs from YARA including repeater builder Jeff Stanhope, VY1JS, were at the install which began about noon and was finished by 8 pm.

"VÉLO-FÊTE" EVENT IN ST-EUSTACHE

Normand Pitre, VE2NHK – RAC SEC Quebec



Quebec SEC Normand, VE2NHK and his spouse Carole, VA2NDJ, provided support to the Réseau de Protection Publique using the VA2RPP call sign for the "vélo-fête" event on June 10 in St-Eustache, Quebec.

Élisabeth, VA2ZUT, directed the event communications. Carole, VA2NDJ and Normand, VE2NHK, covered the 108 kilometre course and were also assisted by Jean-Pierre, VA2JPY and Jeannot, VE2ION on other courses.

There was also a visit by Yann, VE2YYH and his spouse Linda who came to help set up the "TCM" ("tour de communication mobile") Mobile communication tower, an 80-foot telescopic mast. The full event was incident free with the help of local police and Sécurité civile de Saint-Eustache. The "vélo-fête" event is sponsored by the city of St-Eustache "service du sport et du plein air" (Sports and Outdoors Services) and the Radio Amateurs are under the responsibility of the local police department and the Sécurité civile de Saint-Eustache.

The above photo, by Élisabeth, VA2ZUT, shows (from left): Linda, Normand, VE2NHK, Carole, VA2NDJ, Jeannot, VE2ION, Jean-Pierre, VA2JPY, Yann, VE2YYH and the "TCM" in the background.

A SHARING EXPERIENCE WITH ARRL ARES GROUP

Normand Pitre, VE2NHK – RAC SEC Quebec

On July 22, RAC Quebec Section Emergency Coordinator, Normand, VE2NHK and his spouse Carole, VA2NDJ, went to Lake Placid, New York to assist the Champlain Valley Amateur Radio Club with communications for the Lake Placid Ironman Triathlon under the call sign W2UXC.



Amateurs provide communications because cellphone coverage is poor in the Adirondack mountains and the ambulances come from all over and don't all have the same radio frequencies.

The Lake Placid Ironman is the second oldest Ironman event next to Kona, Hawaii. About 30 Amateurs are needed for ambulances and aid stations.

After the bike portion of the event some of the ambulances and Amateurs leave and we have a much smaller area to cover.

This year was the 14th year of the event and it was my 13th and my 4th as captain. Bob, WI2B, has informed me that Lake Placid and Ironman have signed on for five more years.

We try to place ambulances that are not local with Amateurs who have local knowledge and local ambulances with Amateurs who are not local. There are on average 13 to 15 ambulances and most have the same Amateurs year after year.

The group of Amateurs volunteered for a total of 435 hours.

Volunteers included: Kris, WY2V, Mike, KD2AHN, Kathy, KD2AQS, Bob, WI2B, Bob, W1ACX, Dave, AC2BA, Tom, KF2GC, Gary, AD2Z, Phil, N2ZGR, Bob, W2RJD, Darren, KD2CNC, Bernie, KC2ALG, John, KA2WQK, Fred, NORBR, Paul, W2PI, Jim, K2LM, Ted, KC2LDN, Mike, K2SWF, Dave, KC20DL, James, KC2VMF, Douglas, KC2MJE, Dennis, KC2ZTO, Richard, WZ2T, Jerry, N2ZGN, Patti, KB2WXE, Dave, NK2Y, George, N2UTY, Lyn, WA2DAC, Carole, VA2NDJ and Normand, VE2NHK.

The photo at the top shows Normand, VE2NHK, coaching Carole, VA2NDJ, on proper procedure for the event.

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2012 PEP PIN RECIPIENTS

Norm Barton, VE7BZC –
Communications Unit Coordinator
CORD Emergency Plan

The first of a number of 2012 presentations of the Central Okanagan Regional District (CORD) Emergency Plan Radio Team, Emergency Management BC / Provincial Emergency Program (PEP) Amateur Radio "Public Safety Lifeline Volunteer Service" Pins, took place at Kelowna Fire Hall #1 following the "Operation Unity 2012" airport exercise. The pins are awarded in 5-year increments.

Ken McEachern, VE7EFL, Emergency Management BC – Central Region (Kamloops Office) Regional Emergency Radio Representative, made the presentation to this group of CORD Communication Team members.



Ken McEachern, VE7EFL (on the right in the above photo) is making the presentation to the following Amateurs (from left) whose length of service is provided below in brackets:

Ian McLaughlin, VE7BST, Alternate Comms Coord (20);
Hu Reijne, VA7HR (25); Carl Bertholm, VE7CLC, Alternate
Comms Coord (25) (Carl is also a RAC Assistant Director, BC);
John McFarlane, VE7RUM (10); Grant Brooker, VE7RGB (5);
Stephen McLaughlin, VE7STV (10); Jim White, VE7KDN (15).

Collectively, the current 50 Central Okanagan Regional District Emergency Plan (CORD) Comms Team members, as of this year, represent 502 years of BC Emergency radio service!

THE 46TH ANNUAL BATHTUB RACE

Paul Giffin, VA7MPG – RAC BC/Yukon Section Manager

On Sunday, July 22, as part of the Nanaimo Marine Festival, the Loyal Nanaimo Bathtub Society hosted the 46th annual bathtub race.

The course is 36 miles long. It departs from Nanaimo Harbour and goes around Entrance Island light station, then north to Winchelsea Island – which is part of a Department of National Defense torpedo test range – and then back to Departure Bay.

This year, there were 30 entrants on a day that started out sunny and mild and ended with wind, rain and a thunderstorm.



Members of the Nanaimo Amateur Radio Association and the Coast Emergency Communications Association provided communication for race control. Race control had communication on marine and Amateur frequencies. Also assisting with the race was the Canadian Coast Guard and vessels from Canadian Forces Maritime Experimental and Test Ranges (CFMETR).

Amateur operators were posted to positions on land and sea. In addition five Amateurs got a chopper ride out to Entrance Island.

A station was also established on Gabriola Island.

All in all a very busy day that was a lot of fun for all involved.

In addition, the special event station VE7TUB, shown in the photo at the right, was activated and manned by Amateurs for the entire weekend.



TCA

2012 RAC CANADA WINTER CONTEST / CONCOURS D'HIVER DU CANADA RAC 2012

In December each year, Radio Amateurs of Canada (RAC) sponsors the Canada Winter Contest. Amateurs all over the world are invited to participate.

Contest Period: 0000 UTC to 2359 UTC December 29, 2012. Next year the contest will be held on December 28, 2013.

Bands and Modes: 160, 80, 40, 20, 15, 10, 6 and 2 metres, CW and phone (SSB, FM, AM, etc.)

Suggested frequencies: CW – 25 kHz up from the band edge and for SSB – 1850, 3775, 7075, 7225, 14175, 21250, 28500 kHz. Check for CW activity on the half-hour.

Exchange: Stations in Canada send RS(T) and province or territory. VEØs and stations outside Canada send RS(T) and a serial number.

QSOs: Contacts with stations in Canada or VEØs are worth 10 points. Contacts with stations outside Canada are worth 2 points. Contacts with RAC official stations are worth 20 points. RAC official stations are: VA2RAC, VA3RAC, VE1RAC, VE4RAC, VE5RAC, VE6RAC, VE7RAC, VE8RAC, VE9RAC, VO1RAC, VO2RAC, VY0RAC, VY1RAC and VY2RAC. You may work any station once on each of the two modes, on each of the eight contest bands.

It is **prohibited** to make CW contacts in the conventional phone sub-bands and phone contacts in the conventional CW sub-bands. Contacts or soliciting QSOs through a repeater during the contest period is not allowed.

Multippliers: Thirteen in total, Canada's 10 provinces and three territories. Each multiplier may be counted once on each mode on each of the eight contest bands. The multipliers, with their postal abbreviations and prefixes are: Nova Scotia [NS] (VE1, VA1, CY9, CYØ); Quebec [QC] (VE2, VA2); Ontario [ON] (VE3, VA3); Manitoba [MB] (VE4, VA4); Saskatchewan [SK] (VE5, VA5); Alberta [AB] (VE6, VA6); British Columbia [BC] (VE7, VA7); Northwest Territories [NT] (VE8); New Brunswick [NB] (VE9); Newfoundland and Labrador [NL] (VO1, VO2); Nunavut [NU] (VYØ); Yukon [YT] (VY1); and Prince Edward Island [PE] (VY2). Certain special Canadian prefixes in use at the time of the contest may also apply; however there may be no more than 13 multipliers on each band/mode. Please use the multiplier abbreviations, in square brackets, noted above.

Final Score: The total QSO from all bands multiplied by the total number of multipliers from all bands.

Categories: The following 9 categories are eligible for plaque's or certificates as detailed in the Awards section of the rules.

- Single Operator All Bands High Power (>100 Watts) – **Radioworld**
- Single Operator All Bands Low Power (max. 100 Watts output) – **Contest Club Ontario**
- Single Operator QRP (max. 5 Watt output) All Bands & Single Band ** – **QRP Canada**
- Single Operator All Bands CW only, any authorized power – **Maritime Contest Club**
- Single Operator All Bands PH only, any authorized power – **Saskatchewan Contest Club**
- Single Operator Single Band, any authorized power *** – **Elkel Products**
- Multi-Operator Single Transmitter High Power (>100 Watts) * – **Alfa Radio**
- Multi-Operator Single Transmitter Low Power (max. 100 Watts output) * – **Tony Allsop VE3FTA Memorial by the Mississauga ARC**
- Multi-Operator Multi-Transmitter, any authorized power – **Radioworld**

For the Canada Winter Contest a special trophy is awarded for the highest Single Operator (no power classification) Foreign Entrant – **Russ Coleston VK4XA Memorial by Alan Goodacre, VE3HX.**

Special thanks to our sponsors for their support of the RAC contests.

En décembre de chaque année, Radio Amateurs du Canada parraine le concours d'hiver du Canada. Les amateurs du monde entier sont invités à y participer.

Durée du concours: 0000 UTC à 2359 UTC le 29 décembre 2012. L'année prochaine, le concours aura lieu le 28 décembre 2013.

Bandes et modes d'émission: 160, 80, 40, 20, 15, 10, 6 et 2 mètres, en CW et/ou en phonie (BLU, FM, AM, etc.).

Fréquences suggérées: CW – 25 kHz au dessus de la limite inférieure de la bande. BLU – 1850, 3775, 7075, 7225, 14175, 21250 et 28500 kHz. Vérifiez aux demi-heures pour l'activité en CW.

Échange: Les stations au Canada envoient un rapport RS(T) ainsi que leur province ou territoire. Les stations VEØ et les stations à l'extérieur du Canada envoient un rapport RS(T) ainsi qu'un numéro séquentiel.

Les QSO: Les contacts avec des stations au Canada ou des stations VEØ valent 10 points. Les contacts avec des stations à l'extérieur du Canada valent 2 points. Les contacts avec des stations officielles de RAC valent 20 points. Les stations officielles de RAC sont: VA2RAC, VA3RAC, VE1RAC, VE4RAC, VE5RAC, VE6RAC, VE7RAC, VE8RAC, VE9RAC, VO1RAC, VO2RAC, VY0RAC, VY1RAC et VY2RAC. Vous pouvez contacter une station une fois dans chacun des modes, sur chacune des huit bandes du concours.

Il est défendu de faire des contacts en CW sur les parties des bandes normalement réservées à la phonie, et vice versa. Il est aussi défendu de faire ou de solliciter des contacts via un répéteur pendant le concours.

Multiplicateurs: Treize au total, les 10 provinces canadiennes et les 3 territoires. Chaque multiplicateur peut-être compté une fois pour chaque mode sur chacune des huit bandes du concours. Les multiplicateurs, avec leur abbréviation postale et leur(s) préfixe(s), sont: Nouvelle-Écosse [NS] (VE1, VA1, CY9, CYØ); Québec [QC] (VE2, VA2); Ontario [ON] (VE3, VA3); Manitoba [MB] (VE4, VA4); Saskatchewan [SK] (VE5, VA5); Alberta [AB] (VE6, VA6); Colombie-Britannique [BC] (VE7, VA7); Territoires du Nord-Ouest [NT] (VE8); Nouveau-Brunswick [NB] (VE9); Terre-Neuve et Labrador [NL] (VO1, VO2); Nunavut [NU] (VYØ); Yukon [YT] (VY1); Ile-du-Prince-Édouard [PE] (VY2). Certains préfixes canadiens spéciaux en usage pendant le concours peuvent aussi s'appliquer; cependant, il ne peut y avoir plus de 13 multiplicateurs pour chaque bande/mode. Veuillez s'il-vous-plaît utiliser l'abréviation du multiplicateur, entre crochets, telle que notée ci-haut.

Pointage final: Le total des des QSO obtenus sur toutes les bandes, multiplié par le nombre total de multiplicateurs obtenus sur toutes les bandes.

Catégories: Les neuf catégories suivantes sont éligibles pour des plaques ou des certificats, tel que détaillé dans la section Prix des règlements du concours.

- Opérateur unique, toutes bandes, haute puissance (>100 Watts) – **Radioworld**
- Opérateur unique, toutes bandes, basse puissance (max. 100 Watts à la sortie) – **Contest Club Ontario**
- Opérateur unique QRP (max. 5 Watts à la sortie), toutes bandes et bande unique ** – **QRP Canada**
- Opérateur unique, toutes bandes, CW seulement, toute puissance autorisée – **Maritime Contest Club**
- Opérateur unique, toutes bandes, phonie seulement, toute puissance autorisée – **Saskatchewan Contest Club**
- Opérateur unique, bande unique, toute puissance autorisée *** – **Elkel Produits**
- Opérateurs multiples, émetteur unique, haute puissance (>100 Watts) * – **Alfa Radio**
- Opérateurs multiples, émetteur unique, basse puissance (max. 100 Watts à la sortie) – **Trophée mémorial Tony Allsop VE3FTA par le CRA Mississauga**
- Opérateurs multiples, émetteurs multiples, toute puissance autorisée – **Radioworld**

Category notes:

1. The contents of a log that is submitted for a specific category must reflect that category. In the event of a conflict between the actual content of the log and the stated category in the Cabrillo header or contained in other elements of the entry material, the actual contents of the log will be used to determine the category of entry where possible. In the event this cannot be determined or in the event where a log does not identify the entry category, the entry will be classified into the Multi-Operator, Multi-Transmitter, any authorized power category.

Any entrant who wants to enter a specific category (i.e. Single band entry) but who also worked additional contacts outside that category **may** submit those additional contacts in a **separate** check log file. Do not include them in the main entered category log file.

2. Where the categories have a power class and the submitted log does not clearly identify the power class entered, then the log will be treated as if the highest power class for that category was entered.

3. Single operators who receive assistance from a DX spotting system, including Skimmer and similar technologies or any type of Packet Cluster network during the contest must classify themselves as Multi-ops.

4. * In the Multi-Single category only one transmitter and one band are permitted during the same time period (defined as 10 minutes). Exception: One, and only one, other band may be used during any 10-minute period, if and only if the station worked is a new multiplier. In other words the Multi-Single Transmitter class allows a second station to "hunt" and work multipliers only on a single separate band during any 10-minute period.

5. Multi-Multi category stations may operate on several bands simultaneously.

6. ** Although there is only one QRP category, which qualifies for a plaque or certificate, it is intended that the published results would show All Bands or the Single Band of operation. To facilitate this break out of the listings, your entry should indicate the band(s) or mode(s) operated.

7. *** Although there is only one Single Operator Single Band category that qualifies for a certificate or award, it is intended that the published results would show High Power or Low Power. To facilitate this break out of the listings, your entry should indicate the power class you used.

Awards: Plaques will be awarded to the top-scoring entrants in each category, as noted above in the category list. Special thanks to our sponsors for their ongoing support!

Certificates will be awarded to the top-scoring entrant in each category in each of:

- Canadian provinces or territories
- Continental US call districts, W0 through W9 as well as Alaska and Hawaii. US Commonwealths, Territories and Possessions such as Puerto Rico, US Virgin Islands, etc will be treated as equivalent to a DXCC country
- DXCC country, excluding Canada and the US.

To facilitate the proper allocation of certificates, all US stations should indicate their actual US call district based on their actual address, as provided in the Cabrillo header, if different than indicated by their call prefix. DX stations should indicate the actual country of operation if different than indicated by their call prefix by indicating the country as part of the portable call sign designator.

RAC stations will compete and be considered the same as any other entrant for eligibility to plaques and certificates.

Results: Will be published in The Canadian Amateur magazine published by the Radio Amateurs of Canada. The results will also be published on the RAC website at <www.rac.ca> in the contest section.

Entries: All entries (electronic or paper logs) must be postmarked or electronically submitted by **January 31, 2013**. Electronic entries will be confirmed by return email.

Send email entries to: <canadawinter@rac.ca>

Send paper entries to: Radio Amateurs of Canada
720 Belfast Road, Suite 217
Ottawa, Ontario, Canada K1G 0Z5

Pour le concours d'hiver du Canada, un trophée spécial est décerné au participant étranger (opérateur unique, sans classe de puissance) ayant obtenu le plus haut score – **le trophée mémorial Russ Coleston VK4XA par Alan Goodacre VE3HX**.

Nous tenons à remercier nos commanditaires pour leur appui aux concours de RAC.

Notes sur les catégories:

1. Le contenu d'un journal de bord soumis dans une catégorie spécifique doit refléter cette catégorie. Dans le cas d'un conflit entre le contenu réel d'un journal de bord et la catégorie inscrite dans l'entête Cabrillo ou contenue dans d'autres éléments de la soumission, le contenu réel du journal sera utilisé pour déterminer la catégorie de l'inscription. Dans le cas où celle-ci ne peut être déterminée, ou si le journal de bord n'identifie pas la catégorie de l'inscription, celle-ci sera classée dans la catégorie opérateurs multiples, émetteurs multiples, toute puissance autorisée.

Tout participant désirant s'inscrire dans une catégorie spécifique (par exemple bande unique), mais ayant aussi établi des contacts additionnels hors de cette catégorie **peut** soumettre ces contacts additionnels dans un journal de bord **séparé**. Ne les incluez pas dans le journal de la catégorie principale dans laquelle vous participez.

2. Dans le cas où les catégories ont des classes de puissance et que le journal soumis ne l'identifie pas clairement, celui-ci sera traité comme si la classe de puissance la plus élevée pour cette catégorie a été inscrite.

3. Des opérateurs uniques qui reçoivent de l'aide d'un système de repérage DX, comme Skimmer et des technologies similaires, ou n'importe quel type de réseau « Packet Cluster » pendant la période du concours, devront s'inscrire dans la catégorie opérateurs multiples.

4. * Dans la catégorie opérateurs multiples, émetteur unique, un seul émetteur et une seule bande sont permis durant la même période de temps (définie comme étant 10 minutes). Une exception est cependant tolérée: une seule autre bande peut-être utilisée pendant cette période de 10 minutes, seulement si la station contactée est un nouveau multiplicateur. En d'autres mots, la classe opérateurs multiples, émetteur unique permet à une seconde station de « chasser » et contacter des multiplicateurs sur une seule autre bande dans une période de 10 minutes.

5. Les stations participant dans la catégorie opérateurs multiples, émetteurs multiples peuvent opérer sur plusieurs bandes en même temps.

6. ** Même s'il n'y a qu'une seule catégorie QRP qui soit éligible pour une plaque ou un certificat, il est prévu que les résultats publiés afficheront soit toutes bandes, soit la bande unique d'opération. Afin de faciliter la publication des résultats, votre entrée devrait indiquer le (les) bande(s) ou mode(s) opérés.

7. *** Même s'il n'y a qu'une seule catégorie opérateur unique, bande unique, qui soit éligible pour une plaque ou un certificat, il est prévu que les résultats publiés afficheront soit haute puissance, soit basse puissance. Afin de faciliter la publication des résultats, votre entrée devrait indiquer la classe de puissance utilisée.

Prix: Des plaques seront remises aux participants ayant obtenu le plus haut score dans chaque catégorie, telle que notée ci-haut dans la liste des catégories. Nous tenons à remercier nos commanditaires pour leur support continu! Des certificats seront remis aux participants ayant obtenu le plus haut score dans chaque catégorie se situant dans chacun(e) des:

- Provinces et territoires canadiens
- Districts d'appels des États-Unis continentaux, W0 à W9, et aussi pour l'Alaska et Hawaii. Les Commonwealths américains, territoires et possessions tels que Porto Rico, les îles Vierges américaines, etc, seront considérés comme étant équivalent à un pays DXCC; et
- Pays DXCC, excluant le Canada et les États-Unis.

Afin de faciliter l'attribution des certificats, toutes les stations américaines participantes devraient indiquer leur réel district d'appel américain basé sur leur adresse réelle, telle que fournie dans l'entête Cabrillo, s'il diffère de celui indiqué par le préfixe de leur indicatif. Les stations DX devraient indiquer leur réel pays d'opération s'il diffère de celui indiqué par le préfixe de leur indicatif.

PLEASE SUPPORT OUR ADVERTISERS!

We would like to take this opportunity to thank our amazing advertisers for their continued support of The Canadian Amateur magazine, Radio Amateurs of Canada – and, of course, Amateur Radio in Canada and internationally.

Many of our advertisers have supported TCA for over 10 years! Please let them know how much you appreciate their contributions by purchasing their products and services – and please tell that you have seen their ads in TCA!

We will be publishing a list of logs received and the categories entered on the RAC website during and/or after the submission period after the cut off date to assist in correcting any entry categorizations.

Paper mail entries must contain a summary sheet showing score calculation, a dupe sheet listing calls worked on each mode on each band, a multiplier check sheet and log sheets. Logsheets must show time, band, mode, call of station worked, exchanges sent and received and claimed for each QSO. New multipliers must be clearly marked in the log. Contest entry forms are also available on the RAC website at www.rac.ca/en/rac/programmes/contests.

Any entry with 100 or more contacts should be submitted in digital form, either submitted by email or mailed in via 3.5" MS-DOS/ Windows formatted diskette. The preferred electronic format is the RAC Cabrillo format. The files must be submitted in plain ASCII/Text format. While the contest committee prefers Cabrillo formatted submissions, we will continue to accept electronic logs from older versions of contest software, but your file must be in ASCII/Text format and have all the required information. Given there are several free programs that support the RAC contests and generate an acceptable Cabrillo entry, we encourage you to seek out one of these programs. The RAC Cabrillo format is described and its detailed layout is shown on the RAC website at www.rac.ca/en/rac/programmes/contests.

Electronic logs that do not have a complete Cabrillo header should provide a summary sheet with the same information as shown for the paper log entries. The standard summary sheet provided by the typical logging program is generally acceptable, but you should confirm that it contains the same information as shown for paper log entries.

A properly filled out Cabrillo header section will be a sufficient substitute for a summary sheet for logs submitted in that format. Please ensure that you review the header for accuracy and that it is completely fill out. Name your file with your Call Sign and the file extension .LOG (e.g., yourcall.LOG). If you email your log, please send the file(s) as **attachments**. Do not paste the log file into the text of your message as there may be issues with the formatting making it difficult to properly extract the log. Large files may be zipped if necessary.

If you need help with preparing or emailing your log, please contact Sam Ferris at <ve5sf@rac.ca>.

For the previous year's contest results, visit the RAC website (www.rac.ca) in the contesting section.

HAPPY HOLIDAYS – JOYEUX NOËL
http://www.cafepress.ca/rac_radio



Les stations officielles RAC compétitionneront et seront considérées comme étant pareilles à tout autre participant en ce qui concerne l'éligibilité aux plaques et certificats.

Résultats: Ils seront publiés dans la revue The Canadian Amateur, publiée par Radio Amateurs du Canada. Il seront aussi publiés sur le site web de RAC au <www.rac.ca> dans la section "concours".

Soumission des inscriptions: Toute inscription (électronique ou papier) doit porter un cachet de la poste, ou être soumise par courriel, pour le **31 janvier 2013**.

Les soumissions électroniques seront confirmées par courriel.

Envoyez vos inscriptions par courriel à :

<canadawinter@rac.ca>

Envoyez vos inscriptions papier à :

Radio Amateurs du Canada
720 ch. Belfast, suite 217
Ottawa, Ontario, Canada K1G 0Z5



Nous publierons une liste de journaux de bord reçus avec leur catégorie sur le site web de RAC pendant et/ou après la période de soumission et après la date limite afin d'aider à corriger toute erreur de catégorisation des inscriptions.

Les inscriptions papier envoyées par courrier doivent contenir une feuille sommaire démontrant le calcul des , une feuille indiquant les indicatifs contactés dans chaque mode sur chacune des bandes (dupe sheet), une feuille indiquant les multiplicateurs utilisés et le journal de bord. Le journal doit montrer l'heure, la bande, le mode, l'indicatif de la station contactée, les rapports échangés et les revendiqués pour chaque QSO. Les nouveaux multiplicateurs doivent être clairement indiqués dans le journal. Des formulaires d'inscription sont aussi disponibles sur le site web de RAC au <www.rac.ca/en/rac/programmes/contests>.

Toute inscription contenant plus de 100 contacts devrait être soumise sous forme numérique, soit par courriel, soit sur une disquette 3.5" formatée pour MS-DOS/Windows et envoyée par la poste. Le format électronique préféré est le format Cabrillo RAC. Les fichiers doivent être soumis en format text/ASCII. Bien que le comité du concours préfère les soumissions en format Cabrillo, nous continuerons à accepter vos journaux de bord électroniques générés par des versions antérieures de logiciels de concours, mais votre fichier doit être en format text/ASCII et contenir toutes les informations requises. Comme il existe plusieurs logiciels gratuits supportant le concours RAC et pouvant générer un fichier Cabrillo acceptable, nous vous encourageons à en utiliser un. Le format Cabrillo RAC est décrit et sa disposition est illustrée en détail sur le site web de RAC au <www.rac.ca/en/rac/programmes/contests>.

Les journaux de bord soumis sous forme numérique mais ne possédant pas d'entête Cabrillo complète devraient fournir une feuille sommaire avec les mêmes informations que pour les soumissions papier. La feuille sommaire standard fournie par les logiciels courants est généralement acceptable, mais vous devriez confirmer qu'elle contient les mêmes informations que pour les soumissions papier.

Une entête Cabrillo correctement remplie se substituerait à une feuille sommaire pour les journaux soumis dans ce format. Veuillez s'il-vous-plait vous assurer que vous vérifiez l'exactitude de l'entête et qu'elle soit complètement remplie. Nommez votre fichier avec votre indicatif et l'extension de fichier .LOG (par exemple votreindicatif.LOG). Si vous envoyez votre journal de bord par courriel, veuillez inclure le(s) fichier(s) **en pièce(s) jointe(s)**. Ne copiez pas le fichier dans le texte de votre message, étant donné qu'il pourrait y avoir des problèmes avec la mise en page, rendant la tâche d'extraire votre journal plus difficile. Les gros fichiers peuvent être compressés en format .ZIP si nécessaire.

Si vous avez besoin d'aide avec la préparation ou l'envoi de votre journal par courriel, veuillez contacter Sam Ferris at <ve5sf@rac.ca>.

Pour les résultats des éditions précédentes du concours, visitez le site web de RAC (www.rac.ca), dans la section concours.



RAC CONTEST ENTRY FORM / FORMULAIRE D'INSCRIPTION AU CONCOURS DE RAC

☐ **Canada Winter Contest / Concours hiver Canada**
Entry deadline: January 31 – date limite: 31 janvier

☐ **Canada Day Contest / Concours fête du Canada**
Entry deadline: July 30 – date limite : 31 juillet

- ☐ Single Operator All Band High Power (>100W output) / opérateur unique, toutes bandes, haute puissance (>100W)
- ☐ Single Operator All Band Low Power (max 100W output) / opérateur unique, toutes bandes, basse puissance (max 100W à l'antenne)
- ☐ Single Operator QRP (max 5W output) – All Band or Single Band / opérateur unique, toutes bandes ou bande unique, QRP (max 5W à l'antenne)
- ☐ Single Operator All Bands CW only, any authorized power / opérateur unique, toutes bandes, CW seulement, toute puissance permise
- ☐ Single Operator All Bands PH only, any authorized power / opérateur unique, toutes bandes, phonie seulement, toute puissance permise
- ☐ Single Operator Single Band, any authorized power / opérateur unique, bande unique, toute puissance autorisée
- ☐ Multi-Operator Single Transmitter / opérateurs multiples, émetteur unique
☐ High Power / haute puissance
☐ Low Power / basse puissance
- ☐ Multi-Operator Multi-Transmitter / opérateurs multiples, émetteurs multiples, toute puissance autorisée

Call Sign / Indicatif : _____

Name / Nom : _____

Address / Adresse : _____

Code / Code : _____

Score Calculation / Calcul des

Canada QSOs (excl. RAC): _____ x 10 = _____

RAC QSOs: _____ + _____ x 20 = _____

DX QSOs: _____ + _____ x 2 = _____

Sub-Total / Sous-Total : _____ QSOs = _____ Pts

Multiplier / Multiplicateur : _____ x _____

Claimed score / Points revendiquées : = _____

Who were the operators? / indicatif des opérateurs?

Comments / Remarques :

MULTIPLIER CHECKLIST / LISTE DES MULTIPLICATEURS

Check off each multiplier worked / Cochez chacun des multiplicateur contacté

	VE1 NS	VE2 QC	VE3 ON	VE4 MB	VE5 SK	VE6 AB	VE7 BC	VE8 NT	VE9 NB	VO NL	VY0 NU	VY1 YT	VY2 PE	TOTAL
1.8 CW														
1.8 PH														
3.5 CW														
3.5 PH														
7 CW														
7 PH														
14 CW														
14 PH														
21 CW														
21 PH														
28 CW														
28 PH														
50 CW														
50 PH														
144 CW														
144 PH														

Multiplier total / Multiplicateur total _____

RAC AFFILIATED CLUBS – SEPTEMBER 2012

RAC is proud to recognize the following clubs which are participating in its Affiliated Club program as of September 2012. If you are interested in having your Club become an Affiliated Club please visit <www.rac.ca/en/rac/programmes/affiliated-clubs/> for a list of benefits and instructions on how to apply. – Len Morgan, VE9MY – RAC Affiliated Club Program Coordinator

Almonte ARC, Inc
Arrowsmith ARC Inc
Barrie ARC, Inc.
Border City Radio Club, Inc.
Brantford ARC
BC FM Communications Inc
Brockville ARC
Bulkley Valley Amateur Radio Society, Inc.
Burlington ARC
Burnaby ARC, Inc.
Calgary AR Association
Calgary Communications Club
CBC Employees Amateur Radio Society
Charlottetown ARC, Inc.
Central Alberta ARC, Inc.
Central Toronto (Centor) ARC
Chatham Kent ARC, Inc
CRA Capitale Nationale, Inc.
Coast Emergency Comm Assoc.
Contest Club Ontario
Coquitlam ARES, Inc.
Covey Hill ARC
Cowichan Valley AR Society
Delta ARC, Inc.
Festival City ARC
Foothills Amateur Radio Society, Inc.
Fort McMurray ARC (Tarsands ARC), Inc.
Fredericton ARC, Inc.
Georgian Bay ARC
Halifax ARC
Halton ARC, Inc.
Hamilton ARC
Kamloops ARC
Kingston ARC
Kitcheder-Waterloo ARC
Lake Simcoe Repeater Assoc.
Lambton County RC, Inc
Langley ARC
Loyalist City ARC, Inc.
Mabuhay ARC, INC
Manitoba Repeater Society
Manitoulin ARC
Maritime Contest Club
Melfort Repeater Group
Mercury Amateur Radio Assoc.
Mississauga ARC
Mobile Emergency Communications Club
Moncton Area ARC
Montreal ARC
Niagara Peninsula ARC
North Bay ARC
North Central Alberta ARC

North Okanagan Radio Amateur Club
Northern Sask ARC. Inc
North Shore ARC, ON.
North Shore ARC, BC.
Northwestern Ontario Seniors ARC
Northern Alberta Radio Club
Nortown ARC
Oakville ARC
ORCA DX & Contest Club
Orchard City ARC
Orillia ARC
Ottawa ARC
Ottawa Valley Mobile Radio Club
Pathfinders ARC
Peace Country ARC
Peel ARC
Peterborough ARC
Playland Repeater Assoc.
Powell River Amateur Repeater Society
Prescott-Russell ARC, Inc.
Prince Edward RC
Quarter Century ARC
Quinte ARC
RAC Convention 2012 Committee
Radio Fun Society
Regina ARC
Renfrew County ARC
Richmond ARC
Rideau Lakes ARC
Rose City ARC
Saskatoon ARC
Sask Alta Radio Club

Scarborough ARC
Seaway Valley ARC
Shuswap ARC
Skywide ARC
Society Of Newfoundland Radio Amateurs
South Pickering ARC
Southern Alberta Repeater Assoc
Southern Ontario Repeater Team
Sudbury ARC
Surrey ARC
Sun Parlour Retirees ARC
Terrace ARC
Three Hills ARC
Timmins ARC
Toronto ARC
Toronto FM Communications Society
Tri County ARC
Truro ARC, Inc
Vancouver Em Community Telecom Org
Upper Trinity ARC
Victoria Haliburton AR Association
West Carleton ARC
Westcumb ARC
West Island ARC
West Kootenay ARC
Whitby ARC, Inc.
White Rock ARC
Winnipeg ARC
Winnipeg ARES
Winnipeg Senior Citizens RC
Yellowknife AR Society
York Region ARC

IMPORTANT NOTICE TO AFFILIATED CLUBS AND CLUBS WITH LIABILITY INSURANCE THROUGH RAC



RAC Affiliated Clubs are reminded that affiliated club membership expires on December 31, 2012 as well as the RAC Liability Insurance. Both of these programs run from January 1 to December 31 each year.

To ensure there is NO stoppage in the benefits and coverage of these programs, clubs should submit their application forms as soon as possible. The Liability Insurance application has to be reviewed by the insurance provider prior to approval of coverage and this takes time. The necessary forms are available at the following links on the RAC website:

- <http://www.rac.ca/en/rac/services/insurance/>
- <http://www.rac.ca/en/rac/programmes/affiliated-clubs/>

RAC anticipates that there will be some minor changes with the programs so please ensure you are using the correct form for 2013.

*Len Morgan, VE9MY
RAC Affiliated Club Program Coordinator*

THE SPORTS PAGE

— THE CANADIAN CONTEST SCENE

ARRL CONTESTS

Another year of radiosport competition is coming to a close. November highlights will include both modes of the ARRL Sweepstakes and the CQWW DX CW contest. As November melds into December, the ARRL 160m CW Contest weekend begins. As I mentioned in the last issue of TCA, the realignment of Ontario into four separate sections will be front and centre in the ARRL contests mentioned above. It is important that all participants have their logging software up to date and if in Ontario, know their new section. These references will help Ontario participants:

- <http://www.rac.ca/en/news/bulletins/2012/45/>
- http://www.rac.ca/en/news/bulletins/2012/Ont_Section_Boundaries_Ver_2.jpg
- <http://www.va3cco.com/ontariosections.pdf>

No matter how much publicity is given be prepared for a little confusion and on the air tutoring during the contests!

How does this look for participation and providing a new Sweep of 83 sections in the Sweepstakes? Last year there were 151 Canadian participants of which 42 were in section ON. All Canadian sections were represented in each of the Phone and CW parts of the contest. Doing a rough look at Ontario participation with regard to the four-way split, ONN had two participants on Phone and none on CW.

I am informed by Tom, VE3CX and Roger, VE3ZI, that the SS CW situation in ONN will be rectified! In the ARRL 160m Contest, the entry of VE3CX was the lone ONN entry out of 29 Ontario entrants, out of 62 Canadian entrants.

You might wonder what other contest implications result from the new sections. Note that there is a place for "ARRL Section" when you produce a Cabrillo log for any ARRL contest, not just those already mentioned. This allows your score to be listed in the correct place in the results. Ontario contestants be aware! Even though the exchange in the contest is something else, GTA, ONE, ONN or ONS should fill that box in the Cabrillo log.

The big benefit for Ontario participants will be the issuing of four times as many awards as previously presented in *all* ARRL contests. This means that you will only be competing with those within your section for the SOABLP certificate in the ARRL DX Contest or the SOLP 432 MHz certificates in the ARRL VHF contests!

ALSO RUNNING

Yes, there are other very important contests on in December. The RAC Winter Contest moves to its more customary position near the end of the month followed immediately by the Stew Perry Top Band Challenge. A new contest has been added to that mix. Check the Contest Calendar on page 59. It makes for a busy weekend. Also running in December is the ARRL 10m Contest, one of my favourites (sending only ON not GTA for this one). It is part DX, part VHF, at the mercy of the sunspots!



Bob Nash, VE3KZ
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Milton, ON L9T 2Y1
Tel. 905-878-7382
Email: ve3kz@rac.ca

Contest results courtesy
of the Maritime Contest
Club team

ACADIA AND NEW SCOTLAND AWARDS FOR 2011

Bruce, VE1NB, has reported the results of the two awards presented annually by the Maritime Contest Club.

Congratulations to Tony, VE1ZA, winning the first place Acadia award and to Gary, VE1RGB, winning the New Scotland award for second place.

Bruce reports:

"There were 84 international, and 61 QSO Party contests (145 total) that had log results published from at least one MAR area participant.

The 2011 Scoresheet shows 80 unique MAR area stations participated in at least one contest during 2011.

The goal of the ANS award is to encourage MAR area stations to participate in Radiosport.



At MCC, we'll know we have accomplished this goal when every station listed from the MAR area, in the Master check list for call signs active in contests, has a log listed somewhere."

Thanks for the report Bruce.

Until 2013,

73 Bob, VE3KZ, aided by MCC

VISIT THE RAC – CAFÉPRESS ONLINE STORE
http://www.cafepress.ca/rac_radio



ARRL SWEEPSTAKES CW 2011

Call	QSO	Mult	Score	Class
VY2ZM (K1ZM)	1,436	80	229,760	SO HP
VE7CC	1,293	80	206,880	SO HP
VE6EX	1,192	80	190,720	MULTIOP
VA2WA (VA2WDQ)	1,049	80	167,840	Unlimited
VE3KI (@ VE3FU)	988	80	158,080	Unlimited
VE1OP	984	80	157,440	Unlimited
VE3RZ	984	80	157,440	Unlimited
VE7XF	928	80	148,480	Unlimited
VE5ZX	916	80	146,560	SO LP
VE6TL	890	80	142,400	SO LP
VA7ST	877	79	138,566	SO HP
VE5SF	785	80	125,600	SO LP
VE7YU	683	78	106,548	SO LP
VA6AM	632	79	99,856	Unlimited
VO1HP	647	77	99,638	Unlimited
VE1RGB	629	78	98,124	SO LP
VE3GFN	620	79	97,960	SO LP
VA3DF	624	78	97,032	QRP
VE2AWR	607	77	93,478	SO LP
VE3EY	572	79	90,376	SO LP
VE3TG	558	78	87,048	SO LP
VY1EI	555	77	85,470	Unlimited
VE9HF	514	78	80,184	SO HP
VE5MX	496	78	77,376	Unlimited
VE3RCN	454	79	71,732	SO LP
VA1MM	418	77	64,372	SO HP
VA3EC	429	75	64,350	SO LP
VA3SB	391	80	62,560	QRP
VE4DR	410	74	60,532	ML
VA7RN	390	76	59,280	SO LP
VE5UO	376	76	57,152	SO LP
VE2EZD	359	76	54,568	SO HP
VE3XAT	319	79	50,402	Unlimited
VE4YU	317	71	45,014	SO LP
VA7HU	336	66	44,352	SO LP
VE7JKZ	291	75	43,650	SO LP
VY2SS	289	74	42,772	QRP
VE3TW	304	70	42,560	SO LP
VE4EAR	283	75	42,450	Unlimited
VE6BIR	290	72	41,760	QRP
VE2FK	275	71	39,050	SO HP
VE3OI	264	69	36,432	SO LP
VE7WO	255	66	33,660	SO HP
VO1MP	196	80	31,360	Unlimited
VO1BQ	202	66	26,664	SO LP
VE3EJ	199	65	25,870	SO LP
VE5AAD	193	63	24,318	SO LP
VE3MO	197	61	24,034	QRP
VE5UF	198	57	22,572	SO HP
VE3LC	172	60	20,640	QRP
VE6SQ	152	61	18,544	SO LP
VA7MM	143	53	15,158	SO LP
VA3RKM	114	61	13,908	QRP
VE9AA	79	79	12,482	Unlimited
VE2QV (VE2FFE)	99	40	7,920	SO LP
VE1ZAC	72	53	7,632	SO LP
VO1TA	80	45	7,200	SO LP
VE4JWC	57	46	5,244	SO LP
VE3SB	80	32	5,120	SO LP
VE7BGP	53	33	3,498	SO LP
VE3UZ	57	29	3,306	SO LP
VE3ZT	61	26	3,172	SO LP
VY1JA	50	30	3,000	SO LP
VA6LF	32	24	1,536	SO LP
VE8EV	29	18	1,044	SO LP
W0AD	23	17	782	Unlimited
VE2FXL	17	14	476	Unlimited
VE9OA	14	15	420	SO LP
VA3FN	15	11	330	SO LP

UKRAINIAN DX CONTEST 2011

Call	QSO	Mult	Score	Class
VE1OP	302	121	155,122	SO HP CW
VE9HF	257	112	120,176	SO HP CW
VA2WA	190	53	44,255	SO 10 MIX
VE2AWR	113	67	31,222	SO LP MIX
VE3DZ	107	47	25,239	SO 10 MIX
VA3GKO	103	60	25,140	SO LP SSB
VE3ZT	45	32	6,624	SO 10 MIX
VE2HIT	37	30	5,250	SO LP SSB
VE2EXB	1	1	3	SO 15 MIX

WAE DX RTTY 2011

Call	QSOs	Mult	QTC	Score	Class
VY2ZM	2 387	491	1 770	2,041,087	SO HP
VE3RM	1 311	365	1 304	954,475	SO LP
CG3AT	1 308	346	1 317	908,250	SO HP
VE1ZA	212	180	214	76,680	SO LP
VE2EBK	168	128	173	43,648	SO LP
VO1BBN	113	125	116	28,625	SO LP
VE9HF	105	128	106	27,008	SO HP
VE3TW	104	80	98	16,160	SO LP
VA2WA	94	79	93	14,773	SO LP
VE4EAR	86	83	83	14,027	SO HP
VE3UZ	90	64	81	10,944	SO LP
VE2EZD	58	69	59	8,073	SO HP
VE2KY	54	48	69	5,904	SO LP
VE9OA	39	69	44	5,727	SO LP
VA3GKO	60	91	0	5,460	SO LP
VA3GUY	66	56	0	3,696	SO LP
VE6TL	40	40	39	3,160	SO HP
VE1SQ	49	54	0	2,646	SO LP
VE3IAE	27	49	24	2,499	SO LP
VE5MX	25	30	20	1,350	SO HP
VE3MCF	37	34	0	1,258	SO LP
VE3CX	27	30	0	810	SO HP
VE3RCN	8	12	0	96	SO LP
VE2AXO	8	11	0	88	SO LP

LZ DX CONTEST 2011

Call	QSO	Mult	Score	Class	Power
VE9ML	619	119	225,624	MOAB MIX	LP
VE1RGB	457	103	154,191	SOAB CW	LP
VE9HF	967	54	143,856	SO 20M MIX	HP
VE1DX	173	73	70,007	SOAB CW	HP
VE2FK	200	71	64,113	SOAB CW	HP
VE1ZA	270	53	46,004	SOAB MIX	QRP
VA3ATT	116	41	19,598	SOAB CW	LP
VE5VA	68	28	8,316	SOAB CW	LP
VE3ZT	99	23	7,889	SO 10M MIX	LP
VE9OA	62	31	7,006	SOAB MIX	LP
VE2KOT	60	30	4,860	SOAB MIX	QRP
VA3EC	63	18	3,996	SO 20M MIX	LP
VE3YAA	148	20	2,820	MOAB MIX	HP
VA7ST	47	21	2,772	SOAB CW	LP
VA1MM	87	14	2,058	SO 10M MIX	HP
VA1CHP	14	11	748	SOAB CW	LP

STEW PERRY TOPBAND 2011

Call	QSOs	Points	Grids	Best DX	KM	Power
VY2ZM	327	8,039	194	KH7X	8,749	HP
VE3MMQ	449	2,247	197	UU7J	8,115	HP
VE3MGY	212	1,938	98	K7RAT	3,348	HP
VA2EW	353	1,898	164	CE1/K7CA	8,197	HP
VE3OSZ	265	1,751	130	CE1/K7CA	8,204	LP
VE9AA	283	1,670	147	KH7X	8,456	HP
VE3KI	256	1,660	120	CE1/K7CA	8,204	LP
VE3CV	147	795	89	E77DX	7,336	LP
VO1TA	96	772	76	RA4LW	6,557	HP
VE3TA	99	656	72	CE1/K7CA	8,037	LP
VE3MM	138	611	77	N5UL	2,423	LP
VE1RGB	82	540	57	DL6FBL	5,081	LP
VE6BBP	66	452	55	CE1/K7CA	9,872	HP
VA2WA	73	418	58	K7RL	3,751	LP
VE2DC	82	401	66	UU7J	7,818	HP
VA7MM	59	374	37	KH7Y	4,377	HP
VA7ST	65	353	38	KH7X	4,738	LP
VE3SB	78	349	51	K7NJ	2,937	LP
VA3YT	84	317	48	KU5B	2,148	LP
VO1HP	37	287	35	KH7X	9,408	HP
VE3UZ	58	262	43	K5MR	1,720	LP
VE3XAT	75	261	50	W7EW	3,730	HP
VE1ZA	27	196	21	KU5B	3,352	LP
VE3TAZ	73	191	46	K7RAT	3,311	HP
VE2EZD	48	182	39	W7EW	3,998	HP
VE2FK	37	181	25	N0NI	2,326	LP
VE1OP	38	162	27	S59ZZ	5,728	HP
VE1ZAC	44	154	29	KU5B	3,352	HP
VA1MM	36	150	28	DL6FBL	5,018	LP
VE7CA	26	115	18	K9NW	3,065	LP
VX7MID	14	48	10	K6SRZ	1,222	LP
VE2FXL	6	24	6	K9CT	1,597	LP

ARRL NOVEMBER SWEEPSTAKES SSB 2011

Call	QSO	Mult	Score	Class
VY2ZM	2,239	80	358,240	SOAB HP
VE8EV	1,663	80	266,080	SOAB HP
VA7RR	1,601	80	256,160	SOAB LP
VE4EAR	1,586	80	253,760	SOAB HP
VE7CC	1,560	80	249,600	SOAB HP
VE6AO	1,492	79	235,736	MULTI-OP
VE6EX	1,330	80	212,800	MULTI-OP
VE5SF	1,062	80	169,920	SOAB LP
VO1MP	1,058	80	169,280	SOAB HP
VE3RZ	901	80	144,160	Unlimited
VE3MGY	816	80	130,560	MULTI-OP
VE5MX	723	80	115,680	Unlimited
VE5ZX	700	80	112,000	SOAB LP
VA7ST	656	80	104,960	SOAB LP
VO1TA	627	80	100,320	SOAB HP
VE3RCN	621	79	98,118	SOAB LP
VE6BBP	605	79	95,590	SOAB HP
VA7JW	593	79	93,694	SOAB HP
VE2JM	606	77	93,324	SOAB LP
VE2HIT	591	78	92,196	SOAB LP
VE9AA	562	80	89,920	SOAB HP
VE2AWR	537	80	85,920	SOAB LP
VE3TW	531	80	84,960	SOAB LP
VA3BD	493	80	78,880	SOAB HP
VY2LI	504	76	76,608	SOAB LP
VE7BC	436	80	69,760	SOAB LP
VA7AM	447	77	68,838	SOAB LP
VA3DF	415	79	65,570	SO QRP
VA2WA	400	80	64,000	Unlimited
VA3PC	393	80	62,880	Unlimited
VE6RFM	363	79	57,354	MULTI-OP
VE4YU	335	79	52,930	SOAB LP
VE5AAD	387	68	52,632	SOAB LP
VE7JKZ	332	72	47,808	SOAB LP
VA6NJK	283	79	44,714	Unlimited
VE9HF	263	80	42,080	Unlimited
VO1KVT	289	71	41,038	SOAB HP
VE2NGH	238	79	37,604	Unlimited
VE6SQ	260	72	37,440	SOAB LP
VE7IO	233	80	37,280	SO LTD
VE7AX	249	72	35,856	Unlimited
VE3SGB	233	73	34,018	MULTI-OP
VE3XTI	232	70	32,480	SO QRP
VA1MM	252	61	30,744	SOAB HP
VE1SQ	190	78	29,640	SOAB LP
VE6SH	192	77	29,568	SO LTD
VE8GER	208	70	29,120	SOAB LP
VE5JL	192	71	27,264	SOAB LP
VA6MA	180	74	26,640	Unlimited
VE3HG	186	68	25,296	SO QRP
VE7TG	159	79	25,122	Unlimited
VE4EA	214	50	21,400	SOAB LP
VE2TSM	183	49	17,934	SOAB LP
VE2EZD	142	62	17,608	Unlimited
VE9OA	123	69	16,974	SO LTD
VE4JWC	121	68	16,456	SOAB LP
VE3AUO	136	59	16,048	SOAB LP
VE3GYL	129	60	15,480	SOAB LP
VA5LF	149	50	14,900	SOAB LP
VA7DXC	105	58	12,180	SOAB LP
VE6DKC	112	52	11,648	SOAB LP
VO1BQ	135	43	11,610	SOAB LP
VE7FCO	110	51	11,220	SOAB LP
VE7BGP	99	54	10,692	SOAB LP
VE3EJ	99	51	10,098	SOAB LP
VA2UTC	94	53	9,964	SO QRP
VE4RA	87	51	8,874	SOAB LP
VE2EBK	92	39	7,176	SOAB LP
VE3BK	76	45	6,840	Unlimited
VA3ZAK	70	43	6,020	SOAB LP
VE3XAT	62	42	5,208	SO LTD
VA6AM	56	31	3,472	SOAB LP
VE8DW	49	34	3,332	SOAB LP
VA3SRV	48	34	3,264	Unlimited
VA3TPV	48	26	2,496	SOAB LP
VE2QV	46	22	2,024	SOAB LP
VA3FN	36	21	1,512	SOAB HP
VE3LM	35	17	1,190	SOAB LP
VY1FC	26	20	1,040	SOAB LP
VE1ZA	14	11	308	Unlimited
VA3RKM	13	11	286	SO QRP
VA1CHP	7	7	98	SOAB LP
VE3TL	2	1	4	Unlimited

ARRL 160 METRE 2011

Call	QSO	Mult	Score	Class
VY2ZM	1,487	125	539,000	SO HP
VE3EJ	1,603	122	461,648	SO HP
VA2EW	1,140	116	307,748	SO HP
VE3PN	992	105	238,980	SO HP
VE2QJ*	1,035	97	209,035	MO LP
VE3RZ	895	94	176,626	MO HP
VE7CC	791	87	144,072	SO HP
VE5UF	672	85	115,175	SO HP
VE3CX	636	78	98,748	SO HP
VE6BBP	540	79	86,584	SO HP
VA3DX	493	76	77,064	MO HP
VE3OSZ	439	83	76,858	SO LP
VE3TG	448	56	50,456	SO LP
VE3MGY	491	49	47,628	SO QRP
VA3EC	383	53	40,386	SO LP
VE3FH	302	60	37,080	SO LP
VE3UZ	327	55	36,245	SO HP
VA2WA (VA2WDQ)	305	56	36,176	SO HP
VE3OI	281	62	35,774	SO HP
VE1ZJ	228	59	28,733	SO LP
VA3KAI	242	56	28,000	SO LP
VE3NR	234	51	23,970	SO LP
VO1HP	166	58	23,316	MO HP
VE9ML	199	57	23,256	SO LP
VE3XAT	224	50	23,150	MO HP
VE1RGB	211	50	22,750	SO LP
VE7JKZ	204	51	21,930	SO HP
VE1ZAC	200	48	20,016	SO LP
VE3TW	211	46	19,320	SO LP
VE1DX	198	48	18,816	MO HP
VE9HF	212	44	18,788	SO HP
VA3YP	213	44	18,612	SO LP
VA3ATT	216	42	17,808	SO LP
VE3MM	201	44	17,248	SO LP
VE3RCN	183	40	14,560	SO LP
VE4EAR	139	51	13,923	SO LP
VA3WR	169	39	12,948	SO QRP
VE1ZA	154	40	12,840	SO LP
VX2AWR (VE2AWR)	167	38	12,578	SO LP
VE2DC	134	46	12,466	SO HP
VE3HG	157	39	11,232	SO LP
VA7ND (VE7ALN, op)	120	46	10,902	SO LP
VE6EX	135	37	9,842	SO LP
VA7MM	118	39	9,243	SO LP
VE7VV	105	42	8,652	SO QRP
VE3WZ	98	42	8,442	SO QRP
VA7ST	100	33	6,633	SO LP
VE1RSM	98	33	6,534	SO LP
VE3MO	110	30	6,480	SO QRP
VA3YT	98	32	6,144	SO LP
VO1TA	57	38	5,548	SO HP
VE3NE	76	35	5,250	SO LP
VE3FWF	84	30	4,980	SO LP
VA3RKM	75	27	3,942	SO QRP
VE4YU	69	28	3,864	SO LP
VE2FXL	69	27	3,618	SO LP
VE3CWU	54	30	3,120	MO LP
VE1OP	51	27	2,916	MO HP
VA1MM	37	19	1,406	SO QRP
VE9AA	33	18	1,188	SO LP
VE7BGP	28	17	952	SO LP
VA5LF	25	15	750	SO LP

*(VE3KI, VE3NJ, VE3OP, VE3ZY, ops @VA2BW)

TCA WOULD LOVE TO RECEIVE YOUR ARTICLES

We are looking for articles about what you are doing in Amateur Radio on the technical, social or organizational end of things.

Whether it is a new gadget or something your club does that is unique to them, the rest of us want to know about it. Stories about what other people are doing or already have done.

There is always room for the memories of an oldtimer – who has tales of the “old days” – or the experiences of a newcomer and who shares how they made the leap and who helped them to get there.

ARRL 10 METRE 2011

Call	QSO	Mult	Score	Class	Power	VE3NE	56,684	200	74	SOMIX	LP
VE5MX	1,717,056	1,905	271	MO	HP	VE3MV	56,358	252	93	MO	HP
VA2EW	1,513,920	2,048	228	SOMIX	HP	VE2EZD	56,072	215	86	MO	HP
VE1OP	1,231,808	2,042	152	MO	HP	VA7DXC	48,380	202	82	SOMIX	LP
VE3KZ	1,161,072	1,445	264	SOMIX	HP	VA7CPC	46,576	177	82	SOMIX	LP
VE9AA	1,062,560	1,843	145	SOCW	HP	VE9OA	41,984	158	82	SOMIX	LP
VE3MMQ	929,106	1,288	213	SOMIX	HP	VE1SQ	41,412	241	87	SOSSB	LP
VE5UF	865,032	1,639	133	SOCW	HP	VA1MM	40,704	160	64	SOCW	HP
VE3EY	813,852	1,453	141	SOCW	HP	VE2AXO	40,052	166	62	SOMIX	LP
VA2WA (VA2WDQ)	772,680	1,380	141	SOCW	LP	VE3XTI	39,840	167	83	SOMIX	QRP
VE3EK	768,600	1,292	150	SOCW	HP	VE3RCN	35,000	147	70	SOMIX	LP
VE3FGU	738,344	1,043	244	SOMIX	HP	VE1ZAC	30,780	141	57	SOCW	LP
VE3EJ	715,350	837	251	MO	HP	VE3KAO	28,080	135	52	SOCW	LP
VE3DZ	681,408	1,101	156	SOCW	LP	VE7BC	27,832	134	71	SOMIX	LP
VA3DX	628,002	787	251	MO	HP	VE9MY	27,360	172	80	MO	HP
VE6AO	607,260	1,634	145	MO	HP	VA3KAI	24,426	124	59	SOMIX	LP
VE7XF	593,400	1,294	115	SOCW	HP	VE3JOC	23,246	198	59	SOSSB	LP
VA7BEC	591,840	1,273	180	MO	LP	VA3GD	21,700	178	62	SOSSB	LP
VE3RZ	420,966	516	257	MO	HP	VE2FK	21,216	104	51	MO	LP
VE3KI	400,384	739	136	SOCW	LP	VE7WWW	20,634	183	57	SOSSB	LP
VE6WP	369,228	1,068	87	SOCW	HP	VE2FXL	19,716	105	62	SOMIX	HP
VA7ST	348,288	915	96	SOCW	HP	VA3WU	18,328	158	58	SOSSB	LP
VE3ZT	320,032	563	146	SOCW	LP	VA3RJ	18,096	118	39	SOCW	QRP
VE6TL	317,408	848	112	SOMIX	HP	VE7NS	16,720	153	55	SOSSB	LP
VE2SG	313,200	678	116	SOCW	HP	VE6SH	16,700	163	50	SOMIX	LP
VE3MM	309,684	599	131	MO	HP	VA3GUY	16,512	93	48	SOCW	LP
VA3YP	264,186	1,142	117	SOSSB	LP	VE7BGP	16,124	100	58	SOMIX	LP
VE3CX	257,174	581	149	SOMIX	LP	VA3FN	15,908	98	41	SOCW	LP
VE4EAR	246,344	554	166	SOMIX	HP	VE6EX	15,504	103	38	SOCW	QRP
VE4YU	234,472	466	158	SOMIX	LP	VA2UTC	15,200	153	50	SOSSB	LP
VE1RGB	230,520	567	102	SOCW	LP	VE2PIJ	13,908	123	57	SOSSB	LP
VE3PN	227,856	573	101	SOCW	HP	VE3HG	13,300	135	50	SOSSB	QRP
VA3EC	227,772	523	111	SOCW	LP	VE3MEW	12,768	116	56	SOSSB	LP
VE3IAE	221,078	467	143	SOMIX	LP	VE2DC	12,596	68	47	SOMIX	HP
VE6FI	217,516	1,237	89	MO	LP	VA3ZAK	12,288	134	48	SOSSB	LP
VE7WO	203,294	584	91	SOMIX	LP	VA3UG	11,960	116	52	SOSSB	LP
VE7JKZ	192,192	580	84	SOCW	LP	VE8DW	11,660	109	53	SOMIX	LP
VE4TV	190,512	901	108	SOSSB	LP	VE3YCR	11,564	118	49	SOSSB	LP
VE5UO	186,456	534	102	SOMIX	LP	VE3DVY	9,996	106	49	SOSSB	LP
VE9ML	182,972	474	149	SOMIX	LP	VE2QV	9,636	74	33	SOCW	LP
VE7AX	174,150	407	129	MO	HP	VA3RKM	9,324	64	37	SOCW	QRP
VA7RN	171,976	523	83	SOCW	LP	VE3FCT	7,896	96	42	SOSSB	QRP
VE3XAT	167,272	412	103	MO	LP	VA3GKO	7,722	99	39	SOSSB	LP
VA7DZ	160,704	442	93	SOCW	LP	VE2KOT	7,424	58	32	SOCW	QRP
VE5SF	159,160	552	92	SOMIX	LP	VA3ECJ	7,280	96	40	SOSSB	LP
VA7MM	157,112	488	82	SOCW	LP	VG1CQ	7,144	96	38	SOSSB	LP
VA6AM	148,848	449	84	SOCW	LP	VA7AQD	6,264	88	36	SOSSB	LP
VA6UK	143,528	933	77	SOSSB	HP	VE6SKY	5,304	69	39	SOSSB	QRP
VE4EA	134,160	443	78	MO	LP	VE3ZY (VE3FFK)	4,872	46	29	SOCW	LP
VE3CR	125,240	509	124	SOSSB	HP	VE3MO	4,428	42	27	SOCW	QRP
VE1ZA	122,472	416	108	SOMIX	LP	VE2NMB	4,216	67	34	SOSSB	LP
VE1JS	115,920	415	120	SOMIX	LP	VE2DRO	4,200	62	35	SOSSB	LP
VE3FH	113,000	319	113	SOMIX	LP	VE2ESU	3,840	61	32	MO	LP
VA7AM	111,520	702	80	SOMIX	LP	VE3LXL	3,216	38	24	SOMIX	LP
VE8GER	108,758	613	89	SOSSB	LP	VE2NGH	2,356	39	31	MO	HP
VA3ZDX	108,192	490	112	SOSSB	HP	VE3WZ	2,280	32	19	SOCW	QRP
VE3AD	107,748	458	123	MO	LP	VA3WR	1,872	26	18	SOCW	QRP
VA3PC	99,990	499	101	SOSSB	LP	VE5KS	1,426	32	23	SOSSB	LP
VE3JI	95,904	309	111	SOMIX	LP	VE3VCF	1,400	27	14	SOCW	LP
VE7IO	94,612	266	109	MO	LP	VE7EMJ	1,288	29	23	SOSSB	LP
VE2JM	89,792	490	92	SOSSB	HP	VE3AJ	1,178	31	19	MO	LP
VE3CWU	77,376	220	104	MO	LP	VE3KCO	840	35	14	SOCW	LP
VA3ATT	76,072	261	74	SOCW	LP	VE2HB	748	17	11	MO	LP
VE8EV	75,888	312	62	SOCW	LP	VA3TPV	646	19	17	SOSSB	LP
VA7IR	75,844	576	67	SOSSB	QRP	VE3IGJ	640	17	10	SOCW	QRP
VE2EBK	74,688	395	96	MO	LP	VE2DDZ	396	19	11	SOSSB	LP
VE9HF	74,592	254	74	MO	HP	VE3SKX	390	15	13	SOSSB	LP
VE3OM	71,540	246	73	SOCW	LP	VE3RYC	126	9	9	SOSSB	LP
VE5AAD	71,390	411	59	SOMIX	LP	OK/OM DX CW 2011					
VE3VE	70,512	341	104	SOSSB	LP	Call	QSO	Mult	Score	Class	
VE3XK	68,080	236	74	SOCW	LP	VE1RGB	267	228	182,628	SOAB	LP
VA7OM	68,000	257	68	SOCW	LP	VA3ATT	149	126	56,322	SOAB	LP
VE7MR	67,760	226	77	SOCW	LP	VA1MM	91	81	22,113	SOAB	HP
VE3KPP	67,404	414	82	SOSSB	HP	VE9HF	81	60	14,580	SO 40HP	
VA3DF	65,730	196	105	MO	QRP	VE5VA	47	45	6,345	SO QRP	
VE3FJ	63,300	214	75	SOCW	LP	VE1ZA	31	30	2,790	SO QRP	
VE6BIR	59,128	212	76	SOMIX	QRP	VA3RKM	19	19	1,083	SO QRP	
VE3TU	57,428	294	98	SOSSB	LP	VE3FJ	17	16	816	SOAB	LP

CQ WW DX CW 2011*											
Call	QSO	Zones	Countries	Score	Class						
VE3EJ	6,468	196	755	15,667,725	MS	VE3BVA	393	70	163	241,621	SOAB LP
VY2TT						VE3CV	281	94	238	240,036	SOAB LP Asst
(K6LA)						VE2LX	545	61	199	236,080	ALA
VY2ZM						VE2FXL	308	75	216	231,054	SOAB HP Asst
(K1ZM)						VE6BBP	1,101	28	62	218,790	SO 10M HP
CF3A						VE4YU	354	80	143	200,700	SOAB LP
(VE3AT)						VE1ZAC	425	74	171	199,920	SOAB HP
VE7UF	5,386	149	503	8,539,244	SOAB HP	VA3KAI	362	64	149	189,570	SOAB LP
VE3YAA	4,393	151	525	6,995,248	MS	VE6LB	343	87	155	185,372	SOAB HP Asst
VE3JM	5,013	118	404	6,672,204	SOAB HP	VE1AL	538	26	100	166,572	SO 15M LP
VE6SV	3,871	181	558	6,526,848	MS	VE3QDR	462	44	133	157,353	SOAB QRP
VE7GL	3,755	176	524	6,290,200	MS	VE3KAO	319	57	133	155,420	SOAB LP
VE2EKA						VE5AE	518	66	86	153,520	SOAB QRP
(VA2WDQ)						VE7MID	324	70	102	142,760	SOAB LP Asst
VE7CC	3,350	175	477	5,440,940	SOAB HP	VE7CV	605	29	70	139,986	SO 15M LP
VE1OP	3,172	146	524	5,283,620	SOAB HP Asst	VE3FJ	294	54	136	138,510	SOAB LP
VE3OI	3,575	142	426	4,994,424	SOAB HP	VE1DX	433	26	93	132,090	SO 40M HP
VA2EW	3,025	159	504	4,954,599	SOAB HP Asst	VE3IQ	245	50	174	129,472	SOAB HP Asst
VE3UTT	2,509	162	593	4,917,315	SOAB HP Asst	VE3TG	408	24	87	122,211	SO LP 10M
VE3EK	2,859	137	474	4,515,901	SOAB HP Asst	VE3ZI	614	17	74	117,390	SO 160M HP
VE3KI	2,559	148	499	4,296,080	SOAB HP Asst	(W2IRT)	310	28	109	113,299	SO 10M LP Asst
VE3CR	2,218	162	560	4,054,752	MS	VE3JAQ	439	25	70	107,730	SO LP 10M
VE9HF	2,179	146	518	3,692,504	SOAB HP Asst	VE9ML	362	26	105	107,420	SO 10M LP
VE3MMQ	1,891	151	573	3,557,736	SOAB HP Asst	VA2UP	236	35	142	107,262	SOAB HP Asst
VE3RZ	1,915	159	561	3,549,600	SOAB HP Asst	VE7CA	282	62	96	105,070	SOAB LP
VO1MP	1,579	137	484	2,621,241	SOAB HP Asst	VE3RCN	278	51	99	101,400	SOAB LP
VA1MM	2,075	102	328	2,061,420	SOAB HP	VE3PN	522	24	58	91,266	SO 10M HP
VE3FDT	1,915	117	326	2,054,634	SOAB LP	VA3FN	254	45	100	90,190	SOAB LP
VE5MX	1,381	152	450	2,017,904	SOAB HP Asst	VE3ZT	305	28	102	89,310	SO 10M LP Asst
VO1TA	2,262	81	250	1,866,840	SOAB HP	VE3NR	333	21	85	89,040	SO 40M LP
VE1RGB	1,792	90	327	1,780,590	SOAB LP	VE7DDG	177	78	123	88,239	SOAB LP
VA7KO	1,835	135	310	1,693,225	SOAB HP Asst	VE3OTL	222	58	102	87,040	SOAB LP Asst
VE6EX	2,412	118	214	1,677,928	SOAB HP	VE3OSZ	455	16	64	85,760	SO 80M LP
VA7ST	2,097	110	246	1,661,096	SOAB HP	VA1CHP	178	35	133	80,136	SO 15M LP
VE5ZX	1,496	122	304	1,319,322	SOAB LP	VE2QV					
VE2AWR	1,427	79	297	1,318,632	SOAB LP	(VE2FFE)	245	43	94	78,775	SOAB LP
VA2AM	868	138	524	1,218,742	SOAB HP Asst	VE6HPT	388	48	53	73,629	SOAB LP
VE2BWL	996	102	322	1,063,816	ALA	VE3MV	223	54	94	73,408	SOAB HP Asst
VE3GFN	1,059	98	294	1,028,608	SOAB LP	VO1GO	183	57	101	66,992	SOAB LP
VA3EC	1,171	77	240	955,121	SOAB LP	VA7MM	261	58	65	60,147	SOAB LP
VE3TW	846	99	316	923,790	SOAB LP Asst	VA7CPC	261	47	61	56,484	SOAB LP
VA2OP	1,151	82	260	915,876	SOAB LP	VA7ND					
VE2EZD	970	86	277	911,856	SOAB HP Asst	(VE7ALN)	300	27	55	56,006	SO 10M LP
VE6JY						VE6SQ	320	53	52	54,600	SOAB LP
(VA7RR)						VE9OA	205	47	100	50,568	SOAB LP
VE1JBC	999	72	236	764,148	SOAB HP	VE5VA	136	60	94	50,512	SOAB LP Asst
VA3ATT	833	80	274	744,462	SOAB LP	VA3GUY	280	22	62	48,132	SO 20M LP
VE1ZJ	815	92	273	719,415	SOAB LP	VA2III					
VY2SS	1,963	34	113	693,840	SO 15M HP	(VE2SG)	401	14	33	42,159	SO 10M HP
VE9AA	1,688	32	135	692,549	SO 10M HP	VA3MW	127	53	88	42,159	SOAB LP Asst
VE1RSM	830	95	258	665,052	SOAB LP	VE3XK	187	36	77	42,149	SOAB LP
VE7VR	1,114	96	173	656,091	SOAB HP	VE3MGY	458	13	33	39,560	SO 160M LP Asst
VE3XAT	640	85	304	641,072	SOAB HP Asst	VE2HLS	168	20	71	37,128	SO LP 20M
VE3FH	737	85	250	615,060	SOAB LP	VE2EBK	128	40	86	36,414	SOAB LP
VE3CX	1,657	32	112	571,680	SO 15M HP	VY1EI	240	21	47	35,700	SO 10M HP
VE7IO	892	109	202	563,221	SOAB HP Asst	VE5SF	173	35	52	34,539	SOAB LP
VE3CWU	551	95	284	545,760	SOAB LP Asst	VE6EPK	129	41	56	29,197	SOAB HP
VE3MIS	1,577	37	115	541,120	SO 20M HP	VY2LI	161	20	52	27,000	SO 10M LP
VE3RSA	644	72	237	531,789	SOAB QRP	VA7VJ	122	50	53	26,059	SOAB LP
VE7JKZ	841	100	158	524,256	SOAB HP	VE7BC	121	42	43	25,670	SOAB LP
VA3AR	794	90	231	523,872	SOAB HP	VA7XB	117	42	53	22,610	SOAB LP
VE1ZA	843	67	181	519,808	SOAB LP	VE7BGP	118	46	43	20,737	SOAB LP
VE4EAR	492	115	296	516,216	SOAB HP	VE3FWF	140	33	45	19,110	SOAB LP
VE3IAE	724	70	213	494,118	SOAB LP Asst	VE4EA	162	24	34	18,792	SO 10M LP Asst
VE7WO	1,392	71	100	486,666	SOAB HP Asst	VE7TG	96	27	74	18,685	SO 40M LP Asst
VE6WZ	1,126	39	137	467,808	SO 40M HP Asst	VA7DXC	140	19	31	17,850	SO 10M HP Asst
VE3OM	536	73	242	466,200	SOAB LP	VE5UO	98	37	42	17,696	SOAB LP
VA3DX	816	54	161	444,835	SOAB HP Asst	VE5AAD	107	22	40	17,608	SO 10M LP
VE7XF	1,148	32	101	356,440	SO 15M HP	VA3RJ	101	18	51	17,526	SO 15M QRP
VA7RN	840	82	105	354,552	SOAB LP	VE9QRP	86	14	47	15,189	SOAB QRP
VE5UF	1,024	33	118	339,599	SO 10M HP	VE3WDM	97	19	53	14,112	SOAB QRP
VE3GTC	514	57	189	332,592	SOAB QRP	VE3LXL	83	26	41	13,936	SOAB LP
VE7BZR	570	90	155	330,750	SOAB LP	VE7TK	60	19	45	11,136	SO 40M LP Asst
VE2FK	503	65	177	315,084	SOAB HP Asst	VE2DC	52	18	32	7,050	SOAB HP
VE2SG	1,070	24	94	307,980	SO 40M HP	VA3UG	54	20	31	5,508	SOAB LP
VE2AXO	498	64	178	286,286	SOAB LP	VE7NI	38	7	19	2,886	SO 20M LP
VA7DZ	606	93	146	285,127	SOAB HP Asst	VO1BQ	34	9	17	2,262	SO 20M LP
VO1HP	419	74	187	270,135	SOAB HP	VA3RKM	23	13	11	1,176	SOAB QRP
VE6BF	466	90	143	265,154	SOAB LP	VE3UZ	42	6	6	864	SO 160M HP
VE3HLS	412	56	188	260,348	SOAB LP	VE3SB	30	7	12	855	SO 160M HP
VE3LC	422	63	173	246,148	SOAB LP	VE3IZS	22	13	10	575	SOAB LP
VE7CT	908	29	83	245,056	SO 10M HP	* results as provided directly by contest sponsor					

CONTEST CALENDAR FOR NOVEMBER, DECEMBER AND EARLY JANUARY 2013

Contest Name	Start	End	Web Address
Ukrainian DX Contest	1200z Nov 3	1200z Nov 4	http://www.ucc.zp.ua/
ARRL SS CW	2100z Nov 3	0300z Nov 5	http://www.arrl.org/contests/
High Speed CW (Part 1)	0900z Nov 4	1100z Nov 4	http://hsc.lima-city.de/en/contests.html
High Speed CW (Part 2)	1500z Nov 4	1700z Nov 4	http://hsc.lima-city.de/en/contests.html
Japan Int. DX SSB	0700z Nov 10	1300z Nov 11	http://jidx.org/index.html
WAE DX RTTY	0000z Nov 10	2359z Nov 11	http://waedc.de/
OK/OM DX CW	1200z Nov 10	1200z Nov 11	http://okomdx.crk.cz/
Kentucky QSO Party	1400z Nov 10	0200z Nov 11	http://www.wkdx.com/mainsite/
NAQCC Sprint	0130z Nov 15	0300z Nov 15	http://naqcc.info/
ARRL Sweepstakes SSB	2100z Nov 17	0300z Nov 19	http://www.arrl.org/contest-rules
LZ DX Contest	1200z Nov 17	1200z Nov 18	http://lzdx.bfra.org/
CQWW DX Contest CW	0000z Nov 24	2359z Nov 25	http://cqww.com/
ARCI QRP Topband Sprint	0000z Nov 29	0600z Nov 29	http://www.qrparci.org/
ARRL 160m Contest	2200z Nov 30	1600z Dec 2	http://www.arrl.org/contest-rules
TARA RTTY Melee	0000z Dec 1	2359z Dec 1	http://www.n2ty.org/
ARRL 10m Contest	0000z Dec 8	2359z Dec 9	http://www.arrl.org/contest-rules
NAQCC Sprint	0130z Dec 12	0300z Dec 12	http://naqcc.info/
OK DX RTTY	0000z Dec 15	2359z Dec 15	http://www.rttycontesting.com/records.html
Croatian CW Contest	1400z Dec 15	1400z Dec 16	http://www.hamradio.hr/
ARCI Holiday Spirits HB Sprint	2000z Dec 16	2359z Dec 16	http://www.qrparci.org/
WW Iron Ham Contest	1200z Dec 28	1159z Dec 29	http://www.araucariadx.com
RAC Winter Contest	0000z Dec 29	2359z Dec 30	http://www.rac.ca/en/rac/programmes/contests/
Stew Perry Topband Challenge	1500z Dec 29	1500z Dec 30	http://www.kkn.net/stew/stew.rules.txt
SARTG New Year's RTTY	0800z Jan 1	1100z Jan 1	http://www.sartg.com/
ARRL RTTY Roundup	1800z Jan 5	2359z Jan 6	http://www.arrl.org/contest-rules
NA QSO Party CW	1800z Jan 12	0600z Jan 13	http://www.ncjweb.com/

Check these online sites for more contest information: <www.hornucopia.com/contestcal/weeklycont.html>; <www.contesting.com>; <www.sk3bg.se/contest/>; <www.arrl.org/contests/calendar.html>; <www.arrl.org/contests/rate-sheet/about.html>; and <www.cq-amateur-radio.com/awards.html>.

The "Contest Calendar" is presented as a guide only. RAC and TCA do not necessarily endorse or support any of the above contests or the accuracy of the information. Bands: The 30, 17 and 12m bands are never used in any contest.

TARA RTTY MELEE 2011

Call	QSO	Mult	Score	Class
VE6AO	553	78	43,134	SOH
VE1OP	439	85	37,315	SOH
VA7ST	313	73	22,849	SOL
VE2EBK	200	65	13,000	SOL
VE7BSH	197	59	11,623	SOL
VA7AM	200	55	11,000	SOL
VE7AX	147	52	7,644	SOH
VE2FXL	105	52	5,960	SOH
VE7HBS	141	42	5,922	SOL
VO1NM	352	16	5,632	SOL
VE3MCF	103	41	4,223	SOL
VE3KAO	90	42	3,780	SOL
VE3HLS	90	39	3,510	SOL
VE6DJT	78	33	2,574	SOL
VE4EAR	55	35	1,925	SOL
VA5RI	60	27	1,620	SOL
VE2KOT	50	28	1,400	SOL
VE3XAT	52	26	1,352	SOL
VE3FJ	51	26	1,326	SOL
VE7FCO	36	28	1,008	SOL
VE2EZD	38	20	760	SOH
VE3AJ	19	15	285	SOL
VE1ZA	8	8	64	SOL
VE3FWF	6	5	30	SOL

OK DX RTTY 2011

Call	QSO	Mult	Score	Class
VE2EBK	277	121	85,789	SOAB LP
VE3MV	201	92	36,340	SOAB - HP
VE2FK	205	65	21,450	SOAB - HP
VE2FXL	130	42	9,324	SOAB - HP
VE7BSM	206	30	8,580	SOAB LP
VE2KOT	35	4	2,064	SOAB LP
VX3MCF	38	15	795	SOAB LP

KY QSO PARTY 2011

Call	Score
VE3CRU	3654
VE1ZAC	1697
VA3GKO	1670
LA8OM	1115
UA3AGW	840
VE6TL	707
VE3UKS	692
SP5SA	616
VA3RKM	330



SECTION NEWS

THE RAC FIELD ORGANIZATION FORUM

MESSAGE FROM THE RAC CHIEF FIELD SERVICES OFFICER

I just back from the RAC Annual General Meeting in Montreal and a few days in Ottawa. I'd like to send a big thank you to the Montreal Amateur Radio Club and the West Island Amateur Radio Club for a wonderful time at Radio Talk 2012 and the RAC AGM. It was clear that we were among friends and the hospitality was plentiful and genuine. Thanks folks for your kindness.

While in Ottawa I had an opportunity to meet few people: Frank Greene, RAC Office Manager; Mike Kelly a RAC HQ volunteer and Field Organization Advisor; Alan Bauld, our Field Organization Public Information Officer; and Tyler Tidman, who recently created the very first French language ARES crest. The crest is now available to all ARES members and will be available as an option on our ARES vests.

CafePress Update

We have been receiving feedback from some of you regarding the quality of the apparel available from CafePress. After an inspection was carried out, the ARES denim shirt is no longer being offered and we are sourcing an alternate supplier for the polo's and T-shirts. Thanks for the heads up on this.

The Diefenbunker

While in Ottawa I had the opportunity to visit this marvel of Cold War history. The enormity of this place is overwhelming, and the fact that it was built so long ago and remains in such good condition today is a testament to the hard work of the men and women who created and built it. I would like to congratulate the Ottawa Amateurs who maintain the fine station at the site. I have a photo in front of it that I'll glance at from time to time to relive the memory.

We Are Growing

During the AGM it was gratifying to hear RAC President Geoff Bawden, VE4BAW, proclaim that RAC is a growing organization and that our membership today is greater than a year ago. This has taken a lot of work and some tough decisions had to be made along the way. To each of you who have sent encouraging emails, thank you.

As this year draws to a close, I would like to wish each and every one of you and your family a safe and Merry Christmas.

I hope that the New Year brings everything you hope for and more and that all of our Troops that are abroad return to their families soon.

*Doug, VO1DTM CEC
Chief Field Services Officer*

Gordon provided our net control operators with some basic but valuable information on the role of dispatch and how BC Ambulance would respond to a call from them.

On Sunday, July 22, members of the Coast Emergency Communications Group and the Nanaimo Amateur Radio Association assisted with communications at the 49th Annual Loyal Nanaimo Bathtub Society race (see page 48). Over 20 Amateurs took part in providing routine and emergency communications during the 36 mile event.

The Canadian Paragliding Association held their national championships in Pemberton, British Columbia between August 5 and 12. Competitors were informed that all pilots must have radios equipped to receive and transmit on 146.415. Information about this rule was received and reported to RAC HQ. Both RAC and Industry Canada have dealt with the issue and the RAC Bulletin 2012-049 refers to it.

As this Section Report is being written members of the Central Okanagan Emergency Communications Team will be winding down their Simulated Emergency Test, "Operation Unity". I hope to have more on this exercise in the next dispatch.

Members of the Yukon Amateur Radio Association (YARA) continue their work to expand their network in the Yukon. They just sent word of the installation of a new repeater roughly 100 kilometres south of Haines Junction (see page 46). The repeater sits at an elevation of 2,084 metres with a call sign of VY1RDP on 146.060 MHz with a tone of 100 Hz.

As previously mentioned, I have travelled the Yukon and the repeater system YARA has set up is second to none. Their website <www.yara.ca> has a page devoted to the repeater system. It is worth checking just to see their coverage. They also have a couple of other projects underway which will be included in my next report.



CHIEF FIELD SERVICES OFFICER

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Official Bulletin Report

Bill Foster, VE7WWW

Official bulletins relayed:

July: 35

August: 91

Public Service Honour Roll

July 2012:

VE7GBO 72; VA7MPG 159;

VE7GN 150 and VE7WJ 94.

August 2012:

VE7WWW 105; VA7MPG 130;

VE7 GN 170; and VE7WJ 86.

— 73, Paul, VA7MPG

ALBERTA:

SM: Garry Jacobs, VE6CIA
SEC: Curtis Bidulock, VE6AEW
STM: Jack Humphries, VE6JRH
OOs: Tom Martens, VE6TRM
Don Momen, VE6JY

JULY-AUGUST 2012

SM REPORT:

ARES SEC Report

Curtis Bidulock, VE6AEW

On July 11, the Alberta Emergency Management Agency activated ARES in Edmonton and Calgary for potential communication fallout with the Shaw Court Fire that occurred that afternoon. Within 30 minutes we had communication links from the Provincial Operations Centre in Edmonton to Calgary. It was mostly Shaw customers who were affected and unable to call 911. Once confirmation on the extent of outages was received, ARES was able to stand down.

I would like to welcome Ian Burgess, VA6EMS, as the EC for ARES Stampede. I would also like to welcome Garry Naylor, VE6FGN, as the new EC for ARES Cold Lake.

ARES Cold Lake:

Our Basic Amateur Radio class (spring 2012) yielded several new ARES members, with a few more still in training. With another Basic class being run this fall, we hope to add more new members.

BRITISH COLUMBIA/ YUKON:

SM Paul Giffin, VA7MPG
A/SM Ron McFadyen, VY1RM
A/SM Neil King, VA7DX
STM Al Ross, VE7WJ
SEC (Yukon) Terry Maher, VYIAK
OBM Bill Foster, VE7WWW

JULY-AUGUST 2012 SM REPORT:

In late June Bob Longmore, VA7ZA, accepted the position of District Emergency Coordinator, Mid Vancouver Island. Bob will be working with the various emergency communications groups in central Vancouver Island and on the island's west coast.

On June 30, members of the Central Okanagan Regional District Emergency Communications Group provided communications for the 2012 Westside Daze Parade in Kelowna. The Parade Marshall was the Honourable Steven Point, Lieutenant Governor of British Columbia. The parade is billed as the "largest and best parade" in

the BC interior. If you would like more information on this very active group visit <www.cordeoc.ca>.

On July 12, the Surrey Emergency Program Amateur Radio (SEPAR) presented an Amateur Radio workshop for 28 kids at the City Centre Library. The workshop was a great success and interest was expressed in "how to become an Amateur Radio Operator". Photos of this workshop and those presented previously may be viewed on their web album at <http://separ.shutterfly.com/pictures>.

Prospera Valley GranFondo

The inaugural Prospera Valley GranFondo (80K and 160K bicycle race) and Sylvan FamilyFondo took place at Fort Langley National Historical Site on Sunday, July 22 with SEPAR members as net control: Rick, VE7GMO, Marcy, VE7JT, Rob, VE7CZV and Peter, VE7PGX. The SEPAR Net Control team dealt with four medical (with three needing an

ambulance), a route change (a tree fell down blocking the route with live electrical wires) as well as regular race communications.

SEPAR operators were on site at 0445 and secured the station at 1630. While SEPAR operators have had experience with the National Traffic System, stepping into net control for an event of this type required new skills.

John Schouten, VE7TI – who has had experience with VECTOR and training net control operators for events such as the Celebration of lights and the Vancouver marathon – held a training workshop for the SEPAR operators who were assigned to the GranFondo event.

The workshop ran for three hours and provided the net control operators with training in how to handle such emergencies as medical needs. John was assisted by Gordon Kirk, VE7GRK, who manages dispatch for BC Ambulance.

RAC Field Organization Reports National Traffic System (NTS) Net Reports July 2012:

Net (Manager)	Sessions	QNI	QTC
APSN (VA6IX)	31	970	0
Alberta Aurora (VE6TRM)	31	1039	0
BCEN (VE7XLH)	31	179	23
BCYTN (VE7WJ)	31	531	40
CECA (VE7DXD)	5	38	12
MEPN (VE4LB)	31	276	4
MMWXN (VA4GD)	31	491	0
MRS (VE4HK)	9	311	0
MSMN (VE4AEW)	22	628	0
August 2012:			
APSN (VA6IX)	31	970	0
BCYTN (VE7WJ)	31	550	28
CECA (VE7DXD)	4	32	10
MEPN (VE4LB)	27	320	5
MMWXN (VA4GD)	31	531	0
MRS (VE4HK)	9	300	0
MSMN (VE4AEW)	23	645	0
OLN (VE3SHM)	31	251	0

On August 25, the club supported the City of Cold Lake as well as 4 Wing Cold Lake in the "Race the Base" event. Members established stations in the City EOC as well as the 4 Wing Command Post. Team members joined 4 Wing personnel and established traffic monitoring and control posts at various places leading into the city, as well as roving patrols on the Base.

CL ARES established operator positions in both the Military CP and City EOC; all coordination between the two units were through Amateur Radio. Communications were maintained throughout the day and both the City and Base expressed appreciation our assistance.

ARES Edmonton:

On May 6, the Northern Alberta Radio Club and the North Central Alberta Amateur Radio Club joined forces to support the Run Wild Marathon in St. Albert. Considering the terrain of the city, the local VE6LAW repeater would have been unable to provide handheld coverage for the entire route. One of the items from the Slave Lake Debrief was to add linking capabilities to the onboard repeaters. Thanks to the NARC repeater crew, we now have a VHF and UHF link radio and controller added. It was first used today with the UHF repeater linked to VE6LAW. By having this capability, it allows multiple stations to communicate over a larger area and eliminates any tail delay that would exist with a single radio crossband simplex link.

Being away the whole summer has not allowed me to have an ear on the pulse, but it is with pleasure I report that the Stampede ARES group had their first organizational meeting in Calgary. There were 21 attendees from the various Amateur Radio clubs in Calgary and response was great for accepting the new proposals to

form the RAC ARES group in the city. Future plans include reestablishing the Red Cross station and other areas that request assistance.

That's it for this time.

— Garry Jakobs, VE6CIA

MANITOBA:

SM: Jan Schippers, VE4JS
STM: Jan Schippers, VE4JS
SEC: Vacant
DECs: Jeff Dovyak, VE4MBQ (Capital Region and CanWarn); Gord Snarr, VE4GLS (South-East Central Region / South-West Region); Wayne Warren, VE4WR (North Region and Special Projects); Vacant (North-Eastern Region); Vacant (North-West Region).
EC Ron Willisroft, VE4QE (Selkirk and District)

JULY-AUGUST 2012 SM REPORT:

It has been a hot dry summer here in Manitoba so I hope everyone has finished their antenna projects. I finished half of mine. Congrats to Bill Boskwick, VE4BOZ, regarding the appointment as ARES EC for RM of Grey, RM of Dufferin & Town of Carman.

The International Peace Garden Hamfest was held on July 7 and 8. MARMFest was held on August 11 and 12 at the Manitoba Agricultural Museum in Austin, Manitoba.

Manitoba CanWarn 2012

Jeff Dovyak, VE4MBQ

The CanWarn Summer Severe Weather Season for Manitoba ARES CanWarn volunteers ran for 17 weeks from May 14 through September 9 with an ARES Net Controller on call daily from either 0930-1730h or 1730-2130h.

We covered 34 week-long, on-call shifts with only a three-day gap on evenings in mid-August (Severe Wx Program Manager & Warning Preparedness Meteorologist notified in advance).

Fourteen ARES members took on-call obligations for VE4WWO in the Prairie and Arctic Storm Prediction Centre. Thanks to Bill Simm, VE4ALW, for five weeks on-call and at least five trips in from Portage la Prairie! Thanks also to Harm Hazeu, VE4HAZ, for five weeks on call. The following Amateurs were on call for 4 weeks: Ellis Seddon, VE4AJQ; Craig Martin, VE4CDM, Dick Maguire, VE4HK, Don Gerrard, VE4DWG, Robert Stegmaier, VE4RST, Jan Schippers, VE4JS, Richard Sheridan, VE4ESX, Edwin Bethune, VE4BN, Glen Napady, VE4GWN, Gerald Sherman, VE4GKS, John Foster, VE4JNF and Jeff Dovyak, VE4MBQ.

There were eight Severe Weather nets (the first net was on June 14; the last net was on August 3), running from one hour (July 12) to six hours (August 3) duration. The average net was three hours long. There was also pre-planned coverage for VE4WWO on Sunday, June 17 during the Manitoba Marathon.

The VE4MAN repeater belonging to the Manitoba Repeater Society, located at the CBC Starbuck site, was utilized for at least 4.75 hours for CanWarn traffic. Throughout the period, there were seven familiarization visits/station checks and two repair visits. The assistance of VE4WWO Station Custodian Kent Haase, VE4KEH, was invaluable.

Winnipeg ARES Report

Jeff Dovyak, VE4MBQ

On August 9, 20 members of Winnipeg ARES, along with Richard Hollands (Manitoba Hydro Corporate Emergency Preparedness Coordinator) and Dan Zelich, VE4DDZ (Communications Engineer), participated in Exercise-104, a brief familiarization session for VE4EMH, the 2 metre station at Manitoba Hydro HQ EOC. Operation of VE4EMH is now addressed in Appendix 9.15 of the Winnipeg ARES Emergency Plan. The ARES participants in EX-104 were: VA4AJG; and VE4s: BN, GMB, EH, JNF, DWG, HAZ, EIH, JAH, HK, MMG, GMT, GWN, YYL, CHT, GKS, DJS, SIG and MBQ.

Darcy Wilson, VE4DDW, gave us an excellent presentation on "APRS at the 2012 Manitoba Marathon" during our August General Meeting. Look for Darcy's presentation on the Winnipeg ARES website.

Wildfire Preparedness Seminar

Jeff Dovyak, VE4MBQ

Acting SEC Manitoba ARES Gord Snarr, VE4GLS (South-Central ARES DEC), Tedd Vidler, VE4VID (South-Central ARES member) and Jeff Dovyak, VE4MBQ (Acting SEC Manitoba ARES) represented ARES at the first-ever Wildfire Preparedness Seminar organized

by Manitoba EMO in Steinbach on Thursday, May 3.

In the past few years it has become common before Spring Flood season for EMO to host flood Preparedness Seminars in areas likely to be affected (e.g., Brandon & Morris), but the problem of Wildland – Urban Interface Fires is relatively new (a four-day fire in Stuartburn last fall on Thanksgiving weekend and a number of wildland fires already this spring).

The topics included: Seasonal Weather Forecast; Fire Smart Community Program; Fire Mutual Aid Program; Manitoba Conservation Fire Program; Evacuation/ ESS Concerns; EOC considerations with regard to Wildland-Urban; Interface Fires and other considerations that have come up in rural communities in the recent past. Organizations in attendance included: Manitoba EMO; Office of the Fire Commissioner; Manitoba Conservation; Office of Disaster Management Manitoba Health; Emergency Social Services (Ministry of Family Services & Labour); Environment Canada; RCMP; Manitoba Association of Native Fire Fighters; and a number of Municipal Emergency Coordinators and Rural Fire Chiefs.

Nicki Albus, the Manitoba EMO Regional Emergency Manager who organized the seminar, asked us if we could bring out some Amateur Gear for an informal show & tell session. Gord, VE4GLS, got the Municipal Emergency Coordinator for City of Steinbach/RM of Hanover Dennis Vassart to bring out the Amateur Radio kit that is contained in a wooden box in the Steinbach EOC (VE4SFD).

Tedd, VE4VID, brought out his personal gear that was used during 2009 Flood Ops when he and Kent Haase, VE4KEH, were deployed to St Adolphe. The gear in the VE4SFD box is also present in the Town of Winkler EOC and consideration is being given to construction of a similar box for Winkler to make the gear easy to transport one town over to Morden when required.

Tedd, Gord and I were at Tedd's truck during the morning coffee break and during the lunch break and answered questions from several interested Municipal Emergency Coordinators.

Manitoba EMO encourages Municipal Emergency Coordinators to consider ARES for communications support. Winnipeg ARES Inc. covered the cost of our lunches and to me the seminar was well worth taking a vacation day from work to attend.

Traffic Totals

July: 8

August: 10

ONTARIO:

SM: Allan Boyd, VE3AJB
Email: ve3ajb@vianet.ca
ASM: Michael Hickey, VE3IPC
Email: ve3ipc@aol.com
SEC: Scott Carter, VE3CGN
Email: ve3cgn@gmail.com
STM: Vacant

JULY-AUGUST 2012 SM REPORT:

Well this will be my last Section News report as Section Manager for Ontario. As you know as of September 1, 2012, the province is now divided into four sections. I am happy to report that I will remain as Section Manager for Ontario North (ONN). Mike Hickey, VE3IPC, will be the new Section Manager for Ontario East (ONE). George Duffield, VE3WKJ, will be the Section Manager for the Greater Toronto Area (GTA). Last but not least, Ian Snow, VA3QT, will be the Section manager for Ontario South (ONS). I look very forward to working with these fine gentlemen; with four of us across the province we will be better able to serve you and bring your interests and concerns forward.

I want to take this opportunity to thank the many Amateurs over the past seven years who elected me as your voice for Ontario. It was an honour and pleasure working with many of you throughout the years. I will now focus my attention to the north where I reside and will concentrate on the Amateur groups in my area as will your new Section Managers in their areas. My door is always open so please feel free to contact me at anytime with questions or concerns.

Thank you for your continued support.

ACTIVITIES

GTA District:

GTA West – Grand North:

Richard, VA3RMU, EC Brampton/Caledon ARES reports: We had a great Field Day operating 4A at the Flower City Community Campus. There were some 15 operators and two young girls who made a number of contacts at the GOTA Station. There were some visitors including City Officials and we also had a considerable increase in our total points accumulated for this year's contest. We also assisted the City of Brampton in the Canada Day Celebrations taking care of communications between their many staff members.

Eastern Ontario District: Eastern Ontario ARES District:

On July 1, the Prescott-Russell (PR)-ARES Group was involved once again with protecting the fireworks site for the City of Clarence-Rockland from intruders and wayward children. This year, due to our diligence in past years, there were very few people trying to get close to the celebrity fireworks presenter, Chuck Seguin

of Wendover, who provided another spectacular fireworks display for the local residents. Thanks go to Lance, VA3LP, Henry, VA3OV, Ron, VA3RRZ, Deb, VA3VEG, Mike, VE3LTN (including Gail and Christopher), Chris, VA3NKE, Harry, VA3ZAK, Jim, VA3KV and Allen, VA3ONN (along with Suzanne) for their all hard work to set up and guard the site.

The PR-ARES group received a request from the City of Clarence Rockland a week later and provided support for the Ottawa River Festival. Thanks go to Harry, VA3ZAK, George, VA3SUS, Lance, VA3LP and Jim, VA3KV, for their support.

Several Prescott-Russell members volunteered in mid-July with the Optimist Club of Wendover for the Wendover Country and Western Festival. Thanks go to Chris, VA3NKE, for coordinating this event and also to Allen, VA3ONN (and Suzanne), James, VA3JRP and Lance, VA3LP, for volunteering.

The Renfrew County East (RCE)-ARES group held a callout on July 16 with the Greater Madawaska Fire Department to test the reception of their radio tower set atop the RCCA VE3STP RPT group's tower on Kennedy Mountain at Mount St Patrick. Involved with the group were several of the RCE-ARES group members at different locations throughout the Renfrew Township.

There were five more members at Fire Station #2 on Highway 41 that helped out: Alan, VE3JGU, Don, VE3DON, Donald, VE3PM, Bill, VE3TUC, EC Ron VERJRN and AEC Jim, VE3JKV. At Station #1 there were: Wayne, VE3JSQ, John, VE3DDN, Armand, VE3SWO, Graham, VE3AMN and AEC Jim, VE3JER. The RCE-ARES group net control for the evening was Steve, VE3KEG and Sandy, VE3AAC, was at the repeater site.

The group members were sent out in fire trucks with some minor setbacks as to the setting up of the group's portable radios. Everything worked out well for the group members and for the Fire Department. This will help the group have a better coverage on the VE3STP RPT. This was a good night that worked well. It provided us with an activated callout for the RCE-ARES group, which helped to train new members in our group firsthand (*submitted by AEC Jim, VE3JER, for the RCE-ARES Group*).

The Ottawa ARES (EMRG) group held their monthly EMRG repeater tests in July and August. All six repeaters (five EMRG plus the club repeater VE2CRA) were functioning, as were the Packet BBS and Winlink system. Thanks go to Dave, VE3KMW, for organizing the test program. The participants were: Arthur, VA3BIT, Mike, VE3FFK and Ron, VA3ACZ.

The group's EC, Richard, VE3UNW, also updated the mutual aid information that is circulated to the neighbouring ARES groups to facilitate communications between groups in the event of a mutual aid call.

With Mike, VE3IPC, moving on from DEC to Ontario East Section Manager, we send him our thanks and congratulations on the appointment and look forward to seeing Lance, VA3LP, in his new role as District Emergency Coordinator for Eastern Ontario ARES District as of September 1. (Mike Kelly, VE3FFK, reporting for EMRG / Ottawa ARES EC, VE3UNW)

The Prescott-Russell ARES group provided communication support when one of our regional bicycle groups sponsored the provincial time trials again this year for "Ride With Rendall", in Clarence-Creek. About 150 riders turned out to compete on a 20 kilometre open road track. Some did a once around loop and some did twice around. The PR-ARES Group used Amateur Radio to provide advance warning about riders cresting the final hill and coming through a major intersection before crossing the finish line. Since the intersection was still in use, but controlled by local bylaw officers and "Ride With Rendall" volunteers, this advance warning allowed smooth flow of traffic and non-interference of the riders as they raced for the finish line. Ron, VA3RRZ, was at the top of the hill and passed the information on to Jim, VA3KV, at the intersection. There was about 15 to 20 seconds from the time the first warning was given until the rider passed the intersection. Less than 10 seconds later the rider swished through the finish line. Jim also provided the rider's number to the finish line to help identify the rider for the "commissaries" stationed there with coordinator Lance, VA3LP, monitoring all communications. In addition, Ray-Allen, VA3ONN and his wife Suzanne were available as spares for our weary communicators as well as performing a rover function around the track. All went very well and all riders were accounted for at the end of the day.

The Renfrew County West (RCW)-ARES group EC is sad to report that Bernie Surette, VA3SUR is a Silent Key. The group lost an AEC, Bernie Surette, VA3SUR, to a motorcycle accident this month (not his fault). Bernie was close to retirement and was one of the group's core members. Bernie was also one of two VPs for the Renfrew ARC. He will be missed!

The Stormont, Dundas & Glengarry (SD&G)-ARES group's expansion into SD&G Tri-County from the former "City of Cornwall ARES" continues. In light of this, on August 29, along with City of Cornwall CEMC, a team of Amateurs

attended the former Cornwall City Hall EOC and the Fire Hall on 2nd Street to remove the ARES equipment. The equipment is now at the home of the EC, ready for deployment to any of the townships where the group will provide emergency services. The finalized version of the SD&G ARES agreement with the Township of South Stormont was delivered by email on August 31 and their council met on September 11. The group continues with plans to provide emergency services to the Glengarry Memorial Hospital.

Bruce District:

Perth County:

On August 13, we changed the 2m antennas at the Milverton, Shakespeare and Sebringville fire halls to the new dualband antennas. Under the new safety regulations it was done by the Milverton Department Fire Chief of the Township of Perth East.

We still don't have the proper certificates to climb the towers and ladders so the Department Chief did it for us using their ladder truck. And he did a perfect job under the direction of Tom, VE3KVD. We stated at 9 am and finished at 12.30 pm. We also have problems with the Mitchell Repeater antenna at the Mitchell Perth West Town Hall. It is going to be done also with the help of the fire department. We still have to do the three fire halls in Perth North and also the St Mary's Fire Hall. (*Alle, VE3CWL, EC Stratford/Perth*)

Dufferin County:

Three training sessions were held in August on the Communication Bus, which gave members the opportunity to receive instruction on where all the set up equipment is located and how to set it up. (*Wayne McLean, VE3WWM, Dufferin ARES EC*)

Bruce Peninsula Multisport Race:

Reports by Bob VE3LKD, ARES Emergency Co-ordinator, Grey County and Tim Eaton, VE3RTE, EC Bruce District

On Saturday, August 11, Grey County ARES volunteers assisted Bruce County ARES volunteers in providing help with communications during the Bruce Peninsula Multisport Race.

The Bruce Peninsula Multisport Race covers a route of about 100 kilometres from Cabot Head on the Bruce Peninsula down to Wiarton. The terrain is rugged and follows the Niagara Escarpment. The challenge for us was to provide communications from "down in the hole" on the bottom side of the escarpment to the rest of the race up the hill. Fortunately, we were able to rig a 2m beam antenna at the race headquarters in Wiarton that connected our radio well with the repeater up in Lions Head.

Helping with the event were Greg, VE3NXX, Adam, VE3IZS, Fred, VA3STG, Tim, VE3RTE, Brad, VE3RHJ and Bob, VE3LKD. Tim and Fred alternated as net control during the day. As the races progressed, the operators redeployed from checkpoint to checkpoint, keeping pace with the progress of the competitors, advancing to their next assigned location once the sweep personnel advised them that all the runners, cyclists or kayakers had passed their post. Reporting these details to the organizers would have been valuable enough by itself, but the Amateur Radio 2m link proved to be exceptionally useful when the weather conditions changed during the day. Thunderstorms passed over the area later in the morning. Competitors had to be held at various checkpoints from the time the first thunder clap was heard until 20 minutes after the last one. Portions of the route had to be cancelled or changed. Conditions on the water forced the organizers to eliminate the kayak portions of the races, reposition bicycles and substitute a land route for the water route. The 25 kilometre race was terminated early.

Much of the 2m traffic was to and from the organizers, providing local weather reports, forwarding weather radar information from the Internet, which assisted them in making decisions, then dispersing information on route changes and providing status updates on the progress of the racers. There were also messages to the pick-up vehicles when contestants dropped out or needed bicycle repairs, and even the occasional request to help with lost or found items.

The organizers expressed their appreciation for our help in advance by providing us with event T-shirts, boxed lunches and invitations to their awards dinner at the end of the day. They were especially thankful for our services through the stormy weather when they needed to know the situation along the trails and needed to communicate the changes to plans, up and down their chain of command.

The ARES volunteers benefited from a nine-hour exercise, with mobile and portable equipment, in rugged field conditions, keeping a net running, adapting to changing conditions, and keeping the information flowing where it was needed. ARES participation increased our visibility within the community, demonstrated our capabilities and our willingness to provide a useful public service and contribute to the safety of those who were competing.

Killarney District:

Manitoulin and North Shore:

In July, VE3LJM, VE3LMJ, VE3HZQ, VE3GMI, VE3CYM,

VA3SUT, VE3EMG, VE3BEK travelled to Massey, Ontario to assist with the annual Massey Marathon. In addition, VE3LJM, VE3LMJ, VE3AJB, VA3AUC, VA3BJN, VA3DYM, VE3SMM, VE3KFD, VE3WVA and VA3GWK travelled to different communities on the island to assist with the annual parades for a total of 38 (recorded) hours involvement including the travel time.

DECs reporting:

VA3s: NV.

VE3s: LBX, IPC and RHJ.

ECs reporting:

VA3s: AJV, KRA, KU, MED, OW, PB and SPT.

VE3s: DPG, HCB, HEG, ILA, JSQ, LJM, SLQ, SUT, RXE, RQR, TLT, UNJ, UNW, UR, VAC and VI.

Public Service Honour Roll

July:

VE7GBO 72; VA7MPG 159; VE7GN 150; and VE7WJ 94.

August:

VE7WWW 105; VA7MPG 130; VE7GN 170; and VE7WJ 86

Official Observer Report:

Norm Bell, VE3XRC

July:

of hours monitoring = 18
of Advisory Notices sent = 0
of Good Op Notices sent = 2

August:

of hours monitoring = 18
of Advisory Notices sent = 0
of Good Op Notices sent = 3

Official Bulletin Stations

OBM Brad Rodriguez, VE3RHJ

July and August 2012:

VA3BIX, VA3KRV, VA3PC, VA3RRZ, VA3STG, VE3GIO, VE3JDK, VE3JUJ, VE3KII, VE3SHM, VE3VBR, VE3VY and VE3XTA.

73, Allan Boyd, VE3AJB
Ontario Section Manager

QUEBEC

SM: Gilles Larivière, VA2SGL

SEC: Normand Pitre, VE2NHK

JULY-AUGUST 2012 SM REPORT:

Submitted by Quebec SEC Normand Pitre, VE2NHK

Soumis par Coordonateur d'Urgence du Québec Normand Pitre, VE2NHK

New to Quebec, the Mont-Tremblant Ironman was held on June 24 (the 70.3 kilometre half course) and on August 19 (the 140.6 kilometre full course). These two events are part of the big family of Ironman triathlons worldwide.

Amateur Radio was at both of these events thanks to the following volunteers: Fred, VE2ONR, Pierre, VE2THE, Richard, VE2RAH, Martin, VA2HEB and Jeannot, VE2ION; all under the supervision of Pierre-Alain, VA2GPA, who was at headquarters. Their duties was to operate APRS; one Amateur per ambulance who wasn't equipped with a GPS tracking device. These Amateurs got to experience real calls in an ambulance.

This group has also assisted with communications for the Montreal Marathon for nearly 10 years, setting up in the lead vehicle,

DARF IS THE DEFENCE OF AMATEUR RADIO FUND

It is a Trust Fund established in the early 90s by the Canadian Radio Relay League to provide financial support for research, and to defray travel expenses of a delegate to World Radio Conferences to defend the Amateur Radio bands.



The Fund is maintained by Donations from individual Canadian Amateurs and from Canadian Amateur Radio Clubs. Donations are deposited in the trust fund account and the fund is administered by the three DARF Trustees.

The trust is entirely separate from, and cannot be used for, RAC financial transactions. Donations may be made by cheque only.

Cheques should be made out to "The Defence of Amateur Radio Fund" and may be sent by mail to:

"Defence of Amateur Radio Fund", 720 Belfast Road, Suite 217, Ottawa K1G 0Z5

Visit <www.rac.ca/~darf/> for more information.

sweep vehicle and others so the local police knows what's going on.

Nouveauté au Québec, le 24 juin dernier était le demi "Ironman" (70.3) et le 19 août 2012 Le Ironman du Mont-Tremblant (140.6).

Ses deux événements ce rajoute à la grande famille de triathlon Ironman qui à lieu a plusieurs endroits dans le monde.

Et la radio amateur était présent lors de ses événements.

Voici les bénévoles qui ont aidé: Fred, VE2ONR, Pierre, VE2THE, Richard, VE2RAH, Martin, VA2HEB, Jeannot, VE2ION; le tout sous la supervision de Pierre-Alain, VA2GPA, qui était opérateur dans le PC. Nombre d'heure total : environ de 125 hres.

Leur travail était d'opérer l'APRS; un radio amateur par Ambulance qui n'avait de système de repérage par GPS.

Donc les radioamateurs a pu vivre une expérience dans l'ambulance avec de vrai appel.

Ils fons aussi depuis tout près de 10 ans le Marathon de Montréal.

Leur travail :

Installer dans les véhicule de tête, véhicule de suivi et véhicule de réouverture de rue pour que la SPVM puisse suivre l'évolution du trajet.

NEWFOUNDLAND-LABRADOR

SM: Charles Marsh, VO1VZ
ASM: Wayne Smith, VO1TA
SEC: Rendlly Godwin, VO1RYL
A/SEC: Dave McLennan, VO1LM
OBM: Ira Stacey, VO1IRA
STM: Joe Earles, VO1BQ

JULY-AUGUST 2012 SM REPORT:

We had a fantastic summer in Newfoundland and Labrador weather-wise. It has been many years since I can recall such a fine

summer. This allowed for the running of a number of special event stations promoting a few of the exceptional tourist locations we tend to take for granted.

The gentlemen of the Placentia area Amateur Radio Club (PARC) ran a weekend event at the Bird Sanctuary at Cape St. Mary's. Additionally, the Irish Loop Amateur Radio Club (ILARC) operated VO1MCE at Cape Race. This was always a well attended event, but over the past few years interest has diminished somewhat due to the old lighthouse living quarters being declared off-limits for occasional use by the Coast Guard authorities. That removed the cookhouse, bunkhouse and meeting place where all the fun went on.

Finally, at the Cable Station in Heart's Content, the Upper Trinity Radio Club (UTARC) and the Baccalieu Amateur Radio Klub (BARK) in Conception Bay North, combined to celebrate the anniversary of the laying of the transatlantic cable. Each of these events was visited by other Amateurs from outside the local areas. This led Ken Tucker, VO1KVT, to suggest that we should have an annual get-together at some central location during mid-summer to partake in some radio activities but mostly to enjoy the camaraderie that comes with the hobby. It would allow newcomers to the hobby to rub shoulders with the oldtimers and allow others to put a face (eyeball) to a call sign. Personally, I feel this is a great suggestion. Ken and I, with the help of a few others, probably over the winter months, are thinking of putting some plans in place. I know that over the past few years, there have been some discussions on having a DXpedition to some island or remote location. Let's see if anything materializes.

COMING EVENTS

THE HAMFEST AND FLEAMARKET CALENDAR

The following events are listed by date. Some dates and details are tentative.

MAPLE RIDGE SWAP MEET

Sponsored by the Maple Ridge ARC

Date: Sunday, November 4.

Time: Vendors 7:30 am; Public 9 am;

Open for pancake breakfast at 8 am.

Place: Pitt Meadows BC; 12460 Harris Rd, one Block South of the Loughheed Highway in the old REC Building.

Description: Come one come all! Ham Radio & computer Swap Meet. The largest in the Fraser Valley. Great prices lots of stuff. Pancake breakfast between 8 am and 9 am. Concession will remain open during the event.

Cost: Public: Entry \$4 Includes chance to win a radio; Tables: \$20 includes one entry and a chance to win a radio.

Talkin: 146.800 -600 + Tone 156.7.

Information: Call Nick at 604-465-9476 or contact <ve7te@mrarc.net>.

Website: <www.mrarc.net>

SPECIAL EVENTS STATION VA3IF

The Guelph Amateur Radio Club in Guelph, Ontario will set up Special Events Station VA3IF at McCrae House, the birthplace of Colonel John McCrae, the author of the poem, "In Flanders Fields." The station will operate from Monday November 5, 2012 to Sunday November 11, Remembrance Day.

The station is in honour of remembrance and world peace and will be visited by numerous student groups, many of whom will be getting their first exposure to Amateur Radio.

Hours of operation will be: Monday to Friday 10 am to 5 pm and Saturday and Sunday from 1 pm to 5 pm EST.

Operations will be on 10, 15, 20, 40 and 80 metres, as well as IRLP, VE3OVQ, at 147.5400 MHz, node 2260.

KARC HAMFEST 2012

Sponsored by Kingston ARC and Military Communications and Electronics Museum

Date: Saturday, November 17.

Time: Doors open to the public at 9 am with vendor setup starting at 7:30 am.

Place: Kingston, Ontario; located at the Military Communications and Electronics Museum at 95 Craftsman Boulevard, off Highway 2, about 1 km East of Hwy 15 – opposite the Vimy Barracks entrance.

Description: As well as the Hamfest, the Museum Kit Shop will be open and Museum tours will be available.

Cost: Public: Admission is by a donation to the Museum. Tables \$10 each and may be reserved by contacting <hamfest@ve3kbr.com>.

Talkin: 146.94- (tone 151.4).

Information: <hamfest@ve3kbr.com>.

Website: www.ve3kbr.com/karc/hamfest.html

BURLINGTON SPRING FLEAMARKET

Sponsored by the Burlington ARC

Date: Saturday, February 23.

Time: Vendors 7 am; Public 9 am to noon.


Place: Burlington, Ontario; Royal Canadian Legion, 828 Legion Road.

Description: Breakfast available at Legion; Free Bottomless Coffee Pot.

Cost: Public \$7; Tables: \$12.

Talkin: VE3RSB – 147.210+; t = 131.8 (required)

Information: See website for latest info, flyer and table reservation form.



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- RF Connectors & Adapters
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- Ladder Line (300, 400, 440, & 450 Ohm)
- Antenna Wire (bare, tinned, & insulated)
- Rotator Wire (8-conductor)
- Baluns (1:1, 4:1, 6:1 stainless hardware)
- Surplus 48" military fiberglass masts
- Dacron Rope (3/32" to 5/16" dia.)
- Aluminum tubing (0.058" wall-telescopic)
- Surplus LED flashlites (6 & 48 LED's)
- Duplexers for 70cm and 23cm

Box 1471, Everett, ON L0M 1J0
Tel: (705) 435-2819
Fax: (705) 435-2996

email: info@mapleleafcom.com

Contact Event Coordinator: Jeff Rishea, VA3CQC, <barc.springfleaemarket@gmail.com> or 905-541-1576.

Mail table reservations to:

BARC Spring Flea Market Tables,
ATTN: Jeff Rishea, VA3CQC, 2214
Belgrave Court, Burlington, ON L7P 3R5.
Website: www.barc.ca

Section News – continued from page 63

With the interest shown by an Amateur on the West Coast, Bay of Islands Region, I have been encouraged as of late with the formation of an ARES group. Out of the blue, Michael Newton, VO1OK, approached me with respect to Amateur Radio gear located in the Corner Brook area and its designation for emergency use. Michael is a member of the Bay of Islands Search and Rescue group and is possibly interested in forming a west coast ARES group to be affiliated with the Search and Rescue group, RCMP, RNC and FES-NL. Any west coast Amateur interested in getting involved should contact either me or Michael. Michael is an instructor at the Grenfell Campus.

Before I forget, I received an email from Joe Craig, VO1NA, telling me that Wayne Smith, VO1TA, has been confirmed as a recipient of the DXCC HR ARRL award. Congratulations Wayne! Joe also tells me that the Marconi Amateur Radio Club (MRCN) is in possession of a new-to-them VHF repeater and will likely soon have it active in the Far East region.

With respect to the linked VHF repeater system, we are still looking for four UHF radios which we can use to link Shoal Harbour, VO1SHR, to Gander, VO1GLR, and then on to Lewisporte, VO1LJR.

A number of remote repeaters have been tied into the link through VO1ARG using the Echolink backbone. That has worked well for repeaters in Gander, Eastport, Allan's Island, the Northern Peninsula and even Labrador.

St. John's, Holyrood, Argentia, Marystown and Shoal Harbour are linked using UHF radios and we would like to extend the traditional linking method as far west as we could. If anyone has any idea as to where we could get any suitable radios at a good price, please drop an email to either Ken Tucker or myself (callsign@rac.ca). We do not have a budget, hence the good price reference.

One final request. If any community group in your area is having an event and Amateur

Radio can be used to provide checkpoint or mobile communication during the course of the walk-a-thon or whatever it is, please offer your assistance. Don't wait to be asked, take the first step and volunteer. That serves to keep Amateur Radio in the public spotlight and doubles as practice for any emergency situation that may arise. And you never know, you may interest someone in the hobby.

That's it for now. Best 73 and 88 and remember to enjoy the hobby, it's supposed to be fun.

– 73, Charlie, VO1VZ

ECs Reporting:

VO1IRA, VO1DM, VO1LM and VO1KVT.

Nets

Thanks to OBM Ira, VO1IRA:

July:

Cod Jigger HF 179
Evening Net 138
VHF Caribou Net 456

August:

Cod Jigger HF 325
Evening Net 255
VHF Caribou Net 432



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- Sound card interface built-in
- Dual receive even on the same band



TM-281A 2 Metre Mobile

- 200 memory channels
- 65W output
- Alphanumeric display
- Weather alert feature
- Front firing speaker
- Illuminated keys
- Multiple scan functions
- Rugged mil-spec construction
- CTCSS/DCS encode/decode



TH-D72 Dual Band HT with Internal GPS

- 1000 alpha memory channels
- Dual frequency receive
- Built-in GPS, TNC and APRS firmware
- EchoLink ready
- Autodial
- Stand-alone digipeater
- Mini-USB connector for enhanced computer connectivity
- CTCSS/DCS
- MIL-STD810 and IP54 weatherproofing



TM-V71A Dual Band Mobile

Compatible with EchoLink® radio VoIP system.

- 1000 memories
- 5/10/50W VHF/UHF
- Invertible front panel
- Cross band repeat
- Weather alert feature
- Multiple scan modes
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- Dual receive even on the same band VxV, UxU
- CTCSS encode/decode & 1750 Hz tone burst
- Detachable face with optional separation kit



TS-2000S HF/VHF/UHF Base Station

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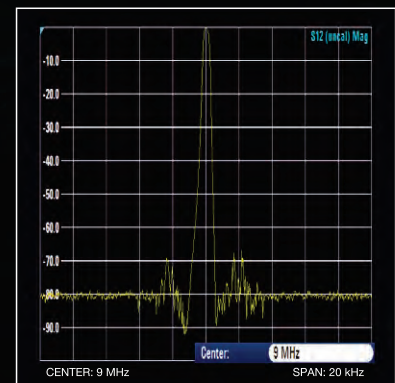
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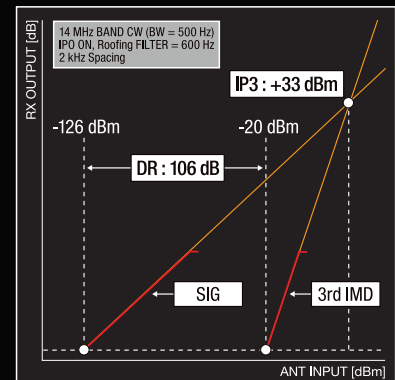
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