



# The **NEWSCASTER**

The Official Publication of the Winnipeg Amateur Radio Club  
<http://www.WinnipegARC.org>

January 2018

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VE4BB

## TBA

Date: Monday, January 8, 2018  
Time: 7:30 PM  
Place: Dakota Collegiate - Cafeteria *See You There*  
661 Dakota Street (At Beliveau Road)

### Other Important Dates:

Newscaster: Deadline January 31, 2018

WARC: Monthly Meeting Dates  
February 12, 2018  
March 12, 2018

ARES: Tuesday, January 16, 2018  
Sir Wm Stephenson Library  
765 Keewatin Street -  
Call-Outs and Equipment

Other: Spring Flea Market  
Sunday, April 15, 2018

Manitoba Marathon  
Sunday, June 17, 2018

### WARC Executive for 2017-2018...

President	Peter Toth	ve4tth@gmail.com
Vice-Pres.	John Romanec	ve4vjr@gmail.com
Treasurer	David Latour	ve4dla@gmail.com
Secretary	Gerry Sherman	ve4gks@outlook.com
Membership	Jessy Blanchette	ve4jbb@gmail.com
Programs	Roberto Urrea	va4.rul@gmail.com
Education	Roberto Urrea	va4.rul@gmail.com
Past President	David Latour	ve4dla@gmail.com
Public Information Officer....	Kurt Sargent	kurtsargent@gmail.com

### Manitoba Repeater Society

Happy New Year to All!

**2017 Memberships are now expired!**

Manitoba Repeater Society memberships for 2017 have now expired. Thank you to everyone that has renewed so far.

If you are not sure of your status, go to The Manitoba Repeater Society web site <http://mb-repeater-society.ca> click on the "Current Members" button then click on the second "Current Members" link you will find on the page. The link shows Callsign, Name, and Membership expiry date.

If you do not see your name and callsign listed, your dues were not paid for 2017. After Jan 31, 2018, only memberships for 2018 will be listed. Grads of the Basic Short Course from March 2017, we hope your free period was enjoyable. It also expired on December 31, 2017.

To renew your membership please go to <http://www.mb-repeater-society.ca> and pay by PayPal, fill out the application and send it along with a cheque to

Membership Manitoba Repeater Society  
c/o VE4WSC  
598 St Mary's Rd, Winnipeg Mb R2M 3L5

You can also drop by VE4WSC and drop your renewal off and of course any member of the MRS Executive will be happy to accept your renewal

May your 2018 be Healthy. Happy. and Prosperous

73 de

Pete VE4PH

MRS Membership Chair

### Our Vision

*To increase public awareness and respect for Amateur radio; to provide education and support in all aspects of the hobby to our members in a social atmosphere*

## VA4WAN Update

By Derek VE4HAY

The VA4WAN is a project of the Winnipeg Digital Repeater group, to provide an intra network (intranet) of digital connectivity. The group has been busy expanding and stabilizing this IntraNet over this past summer and well into the fall.

Current sites with access points are;  
55N – 55 Nassau with 2.3Ghz & 5.8Ghz access points (AP)

STV – Near Dakota & Bishop Grandin – 2.3Ghz AP

TRA – Prairie Mobile Communications on Dugald ave. 2.3Ghz AP

INK – On Marbury in the Maples 2.3Ghz AP

WST – On the bread plant, near Richard & Erin 2.3Ghz AP

U of M – University of Manitoba Engineering Bldg 2.3 Ghz AP

WSC – Winnipeg Senior Citizens Radio Club – No AP at this time

### Future

STJ – Spring 2018 installation planned for Country Club Road & Portage Ave. 2.3Ghz AP

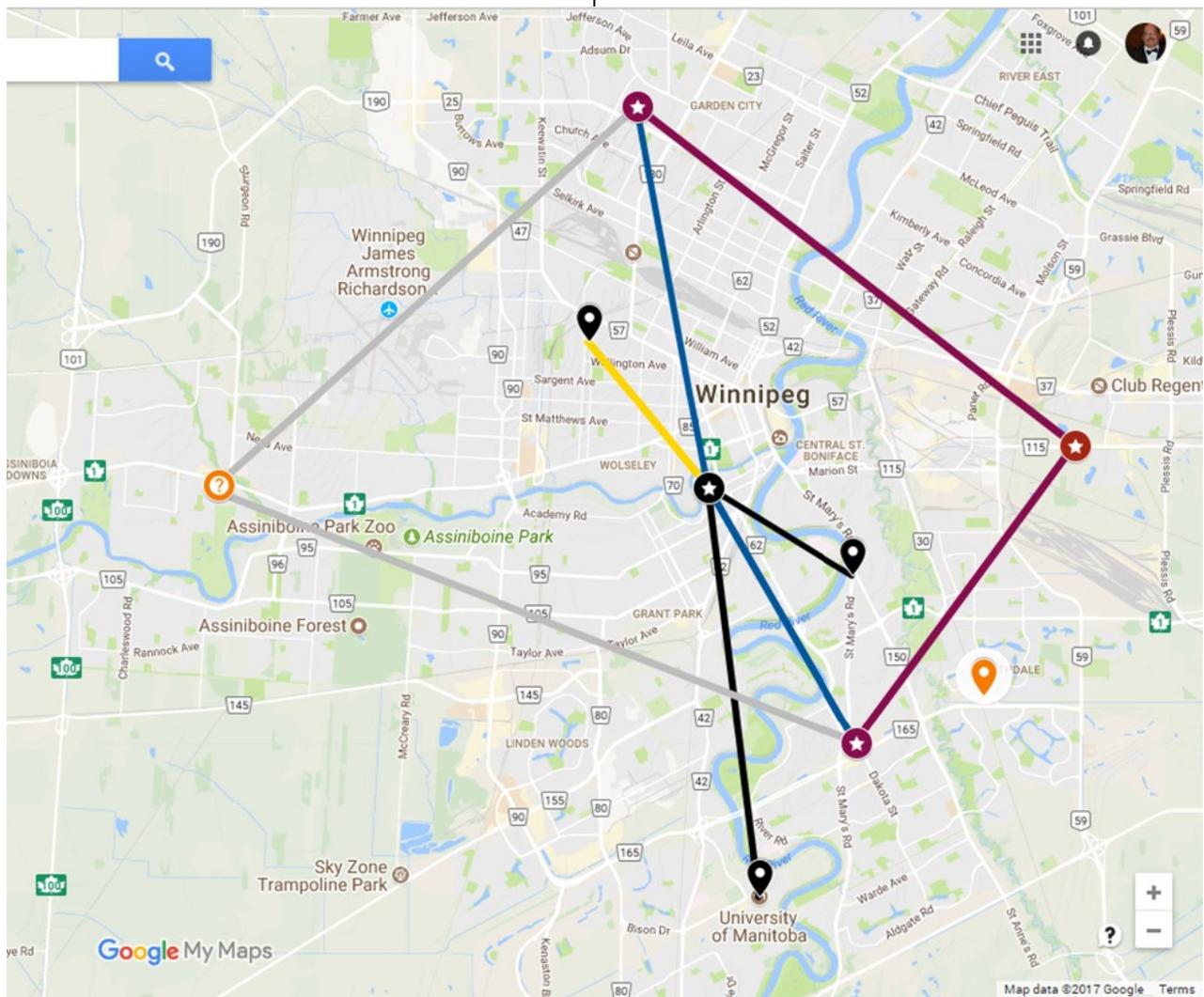
WOD – in Woodlands MB, this site should be on the air spring 2018 2.3Ghz AP

SLK – Selkirk MB on Eaton Ave is being planned out for a spring 2018 install 2.3 Ghz AP

VA4HAY – planning on providing a local area 5.8Ghz AP winter 2018

### Routing the IntraNet

55N is our main hub site, with a connection to our internet service provider (Les.net). Most of radios and backhaul are at this site. We have two high speed connections from here. One going north to INK and one going south to STV. These sites then both connect to TRA and will both connect to STJ (this spring), forming a complete loop around the city. If any of these links are broken, we can still pass traffic via different



Numerous meetings on how to route our network have been held and conscientious plan is finally being developed. This is anticipated to be deployed over the winter. Users should not experience any loss of the network (if this is done correctly) and in fact should notice a slight increase in speeds, as most of the broadcast traffic will disappear in favour of OSPF (Open Shortest Path First) routing.

#### *Websites*

VA4WAN is currently hosting web pages for the Manitoba Repeater Society, the Winnipeg Senior Citizens Radio Club, the Winnipeg Amateur Radio Club and the Winnipeg Digital Radio Group. Saving each of these organizations the cost of yearly domain registration and web site space. Through the graciousness of a local ham VE4RLK, the web sites will be moved into a commercial data centre with a 10gb connection directly to the internet. The same data centre that is hosting the Radio Amateurs of Canada site. If any other amateur radio group would like web space, please contact us and we can make arrangements.

#### *Telephone*

An Asterisk server had been running on our network for over a year and is proving to be very versatile and useful for the group. Asterisk is an open source framework for building communications applications. Asterisk turns an ordinary computer into a communications server. Asterisk powers IP PBX systems, VoIP gateways, conference servers and other custom solutions. There are a number of local hams who have telephones connected to this server, allowing them to make and receive telephone calls from all over Canada & the USA. Connections can be either hard (actual phones or systems) or soft (an app on a smart phone). A couple of the connections are to office type Private Branch Exchanges (PBX), while others are to Analogue Terminal Adapters (ATA) connected to a plain old telephones or direct to IP phones. The main telephone number is 204-666 hams (4267). When Asterisk answers an incoming call, the caller is directed to an IVR (interactive voice response) system where you can dial any extension directly or search the directory by the callsign prefix of the user and be connected to the user at that point. Hams in other provinces have inquired about connecting to the Asterisk server as well.

#### *Video*

We have a few cameras (4) connected to the network at this time and plans are to connect more as we gain access to sites. Anyone viewing the camera can see current weather conditions and traffic. A couple of the camera sites have been picked up by the Weather Network and images displayed on their weather features.

#### *Repeaters*

Four repeater systems are connected to the network at this time - DMR, D-Star and two IRLP stations. MRS also did a short trial on linking their analogue repeaters as well. Plans are in place to link VE4CNR to the VE4TOM repeater in Winkler.

#### *VE4WSC*

The Winnipeg Senior Citizens Radio Club is a huge supporter of this project. They are providing us with valued storage of equipment and an area to work and

test radios. They are also a backup server site (although it is not actually backing up yet). VE4WSC is utilizing the network for their telephone system as well as for their internal intranet. They are using the connection for IRLP, Remote control of a Base HF station, and for a WSPR beacon. Plans are also in the works for connection to a Winlink system that will be installed.

#### *Trial and error*

Without proper testing equipment that is capable of spectrum analysis, we have been able through trial and error to determine which components work in a high RF environment (55N & STV) and which radios do not. We still have a couple of radios to swap out to help stabilize the network in this regard. If anyone has any equipment that can test radios for frequency and antennas resonance in the 2.3Ghz and 5.8 Ghz band, please contact us. We really need help in this regard.

While I can say the group has experienced a number of hick-ups along the way, we have learned as well. High RF environments is a definite learning experience and is continuing to taunt us as we overcome one hurdle only to be challenged by another. We have found an electrical wiring issue at our main host site, which our landlord was grateful for finding. This fault took us off the air a number of times, until it could be tracked down, but we appear to now be stable. While we are not operating at 99.99% uptime, we are somewhere in the high 90% area and improving every day.

#### *Connections*

VA4WAN can offer very basic support to get anyone on the air. And have some surplus radios and antennas for sale if anyone is interested. We can also direct you on what to buy if you are looking for new or slightly used equipment. We are not at this time offering any static IP's, but there is the strong possibility that we can give you a small subnet of addresses if it is really needed. Shortly we will have a captive portal in place, which will require all users to agree to usability terms, before they can get full access to the network. Similar to what you agree to when using a hotel Wi-Fi system. The project is not intended to be your main access to the internet, but rather a backup access point. Or one where you can do your ham radio activity without affecting your home network.

#### *Goals*

- One of our goals is to utilize our secondary access in some of the microwave bands. If we don't use these we may lose them. Right now in Geneva there is movement to grab a chunk of the 5.8-5.9Ghz frequency for use by Commercial wireless providers.
- Utilize the class A IP address assignments that hams were granted back in the 1970's. Commercial interests have been eyeing this address block for years, until IPv6 came out. Once again it is a use it or lose it scenario.
- Provide a viable Inter-Network platform for local amateur radio operators to use and build projects or systems on.
- Provide backup data communications that can be used in the event of an emergency or disaster.

Continued...

### *The Future*

We are looking for Amateur Radio operators who are looking for digital connectivity projects or systems. Asterisk as mentioned above is a great project. But what else do Hams want to do with the network? Think about it and bring us your ideas. We are even looking at a ways to work with an Internet of Things Lora network. Who knows what the future will bring and how we can work with it.

### *Contact us*

<http://va4wan.ampr.org/>  
[va4wan@gmail.com](mailto:va4wan@gmail.com)  
 204-666-hams (4267) ext. 4999

### *Sponsors*

Thank you very much to our sponsors

Les.Net – Providing our Internet access and routing

Lount Corp – Roof top space at 55N

Prairie MobileComm – tower space at TRA

FastNet Communications – Co-location at INK

MB Housing – Roof top space at STV, STJ, SLK

UMARS – roof top space at U of M

Lucerne Bread – Roof top space at WST

VE4WSC – providing storage, and workroom space to test and build the project.

### *Spotlight On Rick Lord VE4OV* *By David VE4DAR*

I interviewed busy Rick Lord VE4OV in his office at Probe Electronics. Rick told me he got interested in amateur radio as a teenager listening to Short Wave Radio. “I was fascinated by propagation. Then, my friend, Dave Place told me about amateur radio. His brother, Ron VE4PL, was the first ham I met. Ron’s station was an inspiration.”

“After I became an electronics engineer, I studied on my own to get my ticket in 1974. I had no Elmer. I had learned CW as a kid with Dave Place VE4PN.”

“I bought older tube-operated equipment and modified it. My first 2m rig was a Motorola 43GGV, a modified taxi radio so big, it lived in the trunk. The head was in my car. It had only two channels. I met most of my ham friends through that radio in the early 70’s.”

“Today I have all commercial equipment: an Icom 761, 2 handhelds, and a 2 m base. I built all my own antennas. I just finished rebuilding a Heathkit HW32.”

Memorable contacts? “I specifically remember all the “firsts”: first CW contact, first 2m contact, first DX contact, and my first Satellite contact. I was a serious 160m SSB Contester, winning first place for Manitoba for a lot of CQ 160m SSB contests. It took me 6 years to get the Worked All States (WAS) on 160m SSB!”



What have you gotten out of ham radio? “So much fun that I’d be happy if every ham got even 10% of what I’ve gotten. My hobby has helped my career in electronics and my career has helped my hobby.”

Any particular interest in ham radio? “I’ve been involved in electronics, antennas, teaching students, and representing amateur radio at the provincial and national levels.”

Public service? “I’ve been on WARC’s executive and RAC’s Midwest Director for 7 years. I’ve taught about 200 hams over the years. I’ve been less involved with ARES, and more on the administration of our hobby.”

Advice for new hams? “Join clubs and RAC. Don’t just hide behind the microphone, and don’t just send CW to the far side of the world. Do something. Volunteer. Become involved with the people. Keep learning about the new forms of technology; for example, satellites and balloon launches.”

Future of amateur radio? “It used to be very difficult to get into. Now it’s more accessible. It will become more community centric such as ARES; doing more for society; turning away from the technical roots and becoming more communicators.”

Ham Radio is going toward Arduinos, Raspberry Pies, and programmable micro circuits. Now is a good time to be an experimenter. I am very hopeful that Ham Radio will be successful and continue into the future.”

**Winnipeg ARES**  
**Jeff Dovyak VE4MBQ**  
**ve4mbq@rac.ca**

Thanks to Mark Havens VE4MWH who gave us a very detailed presentation on Internet Security at our December General Meeting. In preparation for renovations, Amateur Radio gear at the City of Winnipeg Emergency Operations Centre has been placed into storage at the EOC – VE4EOC may be off the air for a while.

Richard Kazuk VE4KAZ is recruiting volunteer operators for Scouts Canada Klondike Derby SAT & SUN 03, 04 MAR at Camp Amisk. Duty time is approximately 0830-1630h both days. To register please email Richard VE4KAZ, ve4kaz@rac.ca Subject Line: 2018 Klondike Derby, include full name and call-sign in your e-mail and indicate whether you are registering for both days or just SAT or just SUN. This is an all-weather event.

CANWARN Spotter Training will be in Winnipeg this year, SAT 24 MAR, location to be determined. If interested, please contact VE4MBQ.

On-line registration for the Manitoba Marathon is open on the WARC web-site, please see the following Manitoba Marathon article.

Our next General Meeting will be TUE 16 JAN 1900h at Sir Wm Stephenson Library 765 Keewatin Street. The writer is scheduled to give us a presentation on Call-Outs and Equipment.

**Manitoba Marathon**  
**Jeff Dovyak VE4MBQ**  
**ve4mbq@rac.ca**

The 2018 Manitoba Marathon will be SUN 17 JUNE – this will be the 40th Anniversary!

Volunteer Registration went live in early December, although we have had some registrations, we still need seventy (70) Amateur operators. We always pair a new Amateur up with someone who has done the Marathon at least once so new Amateurs should not be hesitant to get involved. On-line registrations can be done thru:

[http://winnipegarc.org/marathon\\_volunteer\\_form.html](http://winnipegarc.org/marathon_volunteer_form.html)



**What have you done to "promote  
 amateur radio this week"**

That line we credit to an old News stalwart, Peter Parker with using in his old VK1 and VK3 casts many years ago and it still stands true -WIA

**Letter to the Editor**  
**By David VE4DAR**

Note: After reading the multi-page article about Winnipeg's Fire Paramedic Service in the Winnipeg Free Press, I wrote the following Letter to the Editor. It was published a few days later omitting paragraphs 2 and 3.

Re: Alarming Approach, Saturday, December 23, 2017  
 Many thanks for the comprehensive article on the WFPS; lots of relevant info well presented. However, I've got some add-ons.

My prejudice revealed:  
 WFPS from the old #12 Station on Grosvenor saved my life in January 2000 when I was having an MI. Having heart attack symptoms, I called 9-1-1. Arriving fire fighters assessed me and began treatment. Then paramedics arrived and transported me to hospital. On the way I was given "the paddles." I am very grateful to the WFPS integrated and prompt service, the hospital care, and the ReFit Post Cardiac Program. Death for me was only minutes away.

**Remember Y2K?**

Many systems were predicted to collapse. The Winnipeg Fire Department and Manitoba RCMP requested communication systems back-up from the Amateur Radio Emergency Service (ARES). ARES assigned volunteer Amateur Radio Operators to each fire station and to isolated RCMP stations for New Years Eve. I worked out of #4 on Osborne, riding a pumper with my handheld radio in contact with Fire Dispatch. I only mention this because one our calls was to a heart attack. A week later, I had mine!

What appears missing from your article is Winnipeg's need for "running reserve." How well would WFPS be able to respond to disasters with capacity limited by frozen or reduced budgets? Consider a school bus crash; major fire; or train derailment spilling toxic materials near the baseball stadium during a game. Remind yourself how many airplane crashes we've already had in Winnipeg. I fear lunatic-caused mass casualty incidents requiring emergency or disaster responses.

Regarding low fire stats, how many of the fire stations are located in areas that are just being populated? I would expect low fire numbers among low, but growing populations.

Thanks for your good work.

David Rosner  
 December 24, 2017.

## Contest Calendar

Extracted From

<http://www.hornucopia.com/contestcal/>

### January 2018

NCCC RTTY Sprint	0145Z-0215Z, Jan 5
NCCC Sprint	0230Z-0300Z, Jan 5
PODXS 070 Club PSKFest	0000Z-2400Z, Jan 6
WW PMC Contest	1200Z, Jan 6 to 1200Z, Jan 7
Kid's Day Contest	1800Z-2359Z, Jan 6
ARRL RTTY Roundup	1800Z, Jan 6 to 2400Z, Jan 7
EUCW 160m Contest	2000Z-2300Z, Jan 6 and 0400Z-0700Z, Jan 7
Phone Fray	0230Z-0300Z, Jan 10
CWops Mini-CWT Test	1300Z-1400Z, Jan 10 and 1900Z-2000Z, Jan 10 and 0300Z-0400Z, Jan 11
NCCC RTTY Sprint	0145Z-0215Z, Jan 12
NCCC Sprint	0230Z-0300Z, Jan 12
YB DX Contest	0000Z-2359Z, Jan 13
Old New Year Contest	0500Z-0900Z, Jan 13
UBA PSK63 Prefix Contest	1200Z, Jan 13 to 1200Z, Jan 14
SKCC Weekend Sprintathon	1200Z, Jan 13 to 2400Z, Jan 14
North American QSO Party, CW	1800Z, Jan 13 to 0559Z, Jan 14
NRAU-Baltic Contest, SSB	0630Z-0830Z, Jan 14
DARC 10-Meter Contest	0900Z-1059Z, Jan 14
NRAU-Baltic Contest, CW	0900Z-1100Z, Jan 14
Midwinter Contest	1000Z-1400Z, Jan 14
Phone Fray	0230Z-0300Z, Jan 17
CWops Mini-CWT Test	1300Z-1400Z, Jan 17 and 1900Z-2000Z, Jan 17 and 0300Z-0400Z, Jan 18
NAQCC CW Sprint	0130Z-0330Z, Jan 18
NCCC RTTY Sprint	0145Z-0215Z, Jan 19
NCCC Sprint	0230Z-0300Z, Jan 19
LZ Open Contest	1800Z-2200Z, Jan 19
Hungarian DX Contest	1200Z, Jan 20 to 1159Z, Jan 21
North American QSO Party, SSB	1800Z, Jan 20 to 0559Z, Jan 21
ARRL January VHF Contest	1900Z, Jan 20 to 0359Z, Jan 22
WAB 1.8 MHz Phone	1900Z-2300Z, Jan 20
Feld Hell Sprint	2000Z-2359Z, Jan 20 (EU-AF) and 2300Z, Jan 20 to 0259Z, Jan 21 (ENA-ESA) and 0200Z-0559Z, Jan 21 (ENA-OC-AS)
Classic Exchange, CW	1300Z, Jan 21 to 0800Z, Jan 22 and 1300Z, Jan 23 to 0800Z, Jan 24
Run for the Bacon QRP Contest	0200Z-0400Z, Jan 22
SKCC Sprint	0000Z-0200Z, Jan 24
NAQCC CW Sprint	0130Z-0330Z, Jan 24
Phone Fray	0230Z-0300Z, Jan 24
CWops Mini-CWT Test	1300Z-1400Z, Jan 24 and 1900Z-2000Z, Jan 24 and 0300Z-0400Z, Jan 25
NCCC RTTY Sprint	0145Z-0215Z, Jan 26

*Amateur Radios, Antennas, and more ...  
Winnipeg ICOM Dealer...*

**Micro-HighTech Communications Ltd.**

2223 Henderson Hwy, East St. Paul, MB  
(Just south of perimeter hwy)

Ph. (204)-783-1885 Fax (204) 779-7522  
Contact George Hill, VE4GDH

Visit their web site..

<http://www.microhightech.ca/>

NCCC Sprint	0230Z-0300Z, Jan 26
CQ 160-Meter Contest, CW	2200Z, Jan 26 to 2200Z, Jan 28
Montana QSO Party	0000Z-2400Z, Jan 27
REF Contest, CW	0600Z, Jan 27 to 1800Z, Jan 28
BARTG RTTY Sprint	1200Z, Jan 27 to 1200Z, Jan 28
UBA DX Contest, SSB	1300Z, Jan 27 to 1300Z, Jan 28
Winter Field Day	1900Z, Jan 27 to 1900Z, Jan 28
Phone Fray	0230Z-0300Z, Jan 31
CWops Mini-CWT Test	1300Z-1400Z, Jan 31 and 1900Z-2000Z, Jan 31 and 0300Z-0400Z, Feb 1
UKEICC 80m Contest	2000Z-2100Z, Jan 31

### Into February ....

NRAU 10m Activity Contest	1800Z-1900Z, Feb 1 (CW) and 1900Z-2000Z, Feb 1 (SSB) and 2000Z-2100Z, Feb 1 (FM) and 2100Z-2200Z, Feb 1 (Dig)
NCCC RTTY Sprint	0145Z-0215Z, Feb 2
NCCC Sprint	0230Z-0300Z, Feb 2
YLRL YL-OM Contest	1400Z, Feb 2 to 0200Z, Feb 4
Vermont QSO Party	0000Z, Feb 3 to 2400Z, Feb 4
10-10 Int. Winter Contest, SSB	0001Z, Feb 3 to 2359Z, Feb 4
F9AA Cup, CW	1200Z, Feb 3 to 1200Z, Feb 4
Black Sea Cup International	1200Z, Feb 3 to 1159Z, Feb 4
Mexico RTTY International Contest	1200Z, Feb 3 to 2359Z, Feb 4
FYBO Winter QRP Sprint	1400Z-2400Z, Feb 3
Minnesota QSO Party	1400Z-2400Z, Feb 3
British Columbia QSO Party	1600Z, Feb 3 to 0400Z, Feb 4 and 1600Z-2400Z, Feb 4
AGCW Straight Key Party	1600Z-1900Z, Feb 3
FISTS Winter Slow Speed Sprint	1700Z-2100Z, Feb 3
North American Sprint, CW	0000Z-0400Z, Feb 4
RSGB 80m Club Championship, SSB	1900Z-2030Z, Feb 5

*Good luck in the contest*



204.899.3350

1798 St Matthews Ave  
Winnipeg, MB R3H 0A5

Discount for  
"WARC"  
members

They can provide 15% discount on QSL cards.

For example, the current price for an order of 400 QSL cards size: 5" x 3.5", double side, full-colour on 100lb gloss cover is \$81.99.

With your 15% discount, the total would be \$69.69 before tax (please note that prices are subject to change due to paper cost etc.). The discount is on any size and any qty of QSL card.

Be sure to present your WARC membership to receive the discount!

#### Editor's Note:

Thanks to all the contributors to The Newscaster who make it a valuable resource to the amateur radio community.

The deadlines are always posted on the first page so you won't miss having your articles, time sensitive info etc published in future issues of The Newscaster.

## Manitoba Repeater Society

The Manitoba Repeater Society operates and maintains a linked repeater system across southern Manitoba, including Winnipeg.

If you are a user of any of these repeaters, we urge you to support the group by becoming a member.

VE4MAN - Starbuck, VE4CDN - Morris,  
VE4PLP - Portage, VE4MRS - Bruxelles,  
VE4GIM - Gimli, VE4MIL - Milner Ridge  
VE4EMB - Hadashville, VE4FAL - Falcon Lake,  
VE4WPG - Winnipeg, VE4VJ - Winnipeg, VE4WRS  
- Autopatch & IRLP link Winnipeg

Links to repeaters in Ontario, Brandon, Selkirk and soon to be the Dauphin & area.

[info@mb-repeater-society.ca](mailto:info@mb-repeater-society.ca)  
<http://www.mb-repeater-society.ca/>  
<http://www.facebook.com/ManitobaRepeaterSociety>

**MRS Memberships Expired December 31  
You Can Renew Today On-Line**

#### VHF Nets .....

**MRS Nets - 147.390 Mhz +  
Sundays & Thursdays at 9:00 pm**

This net covers Winnipeg and the MRS linked repeater system, and includes various announcements on amateur radio activities and Dick's "Swap & Shop"

**The Morning Net 147.390 Mhz+  
Weekdays at 9:00 am**

This net covers Winnipeg and hams of all ages are welcome to join in this net which is always a lot of fun!

**D-Star Nets on the VE4WDR System using**

**UHF 444.575+ DV Port B and/or  
VHF 145.490- DV Port C**

**TransCanada D-Star Net - Fridays at 8:00 pm  
On "Free Star" Reflector 21 ( XRF021BO )**

**HamNation D-Star Net - Wednesday at 9:15pm  
On "DPlus" Reflector 14 ( REF014CL )**

**Ozark Mtn. D-Star Net - Sundays at 8:00 pm  
On "DPlus" Reflector 1 ( REF001CL )  
More nets <http://www.dstarinfo.com/nets.aspx>**

#### HF Nets .....

**MB Evening Phone Net - 3747 Khz  
Daily at 7:00 PM Local Time (CT)**

**Prairie Traffic Net (CW) 3660 Khz  
Daily at 01:30 UTC**

**Aurora Net (Afternoon) 7055 Khz  
Daily at 23:30 UTC  
Aurora # 2 Net (Evening) 7055 Khz  
Daily at 02:30 UTC**

**MB Wx Net 3743 Khz  
Daily at 8:30 Local Time (CT)**

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