

# KINGSTON AMATEUR RADIO CLUB NEWSLETTER

Founded in 1947

April 2019

## *Executive Committee*

### **President**

Brian Hopkins, VA3BAH

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### **Vice President**

Larissa Reise, VE3KGC

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### **Treasurer**

Douglas Richards, VE3FFR

treas@ve3kbr.com

### **Secretary**

Chip Chapman, VA3KGB

sec@ve3kbr.com

## **KARC Repeaters**

VE3KBR

146.940(-) MHz

151.4Hz Tone, IRLP Node #2750

VE3UEL Hartington APRS Node

144.390 MHz

VE3KER Kingston Packet Node

145.070 MHz Simplex

## *Committee Chair Members*

VHF Net Manager

Steve Cutway, VE3KC

netmanager@ve3kbr.com

HF Net Manager

David Wendt, VE3EAC

Membership Manager

Steve Cutway, VE3KC

<http://www.ve3kbr.com>



FROM THE PRESIDENT



Greetings and salutations,

It's officially Spring!!!! The ground is soft enough – almost – to start digging holes down past the frost line to anchor antenna towers, pile drive ground rods deep into the earth's core and make repairs to existing antennas and towers; maybe even a new antenna project. My plan is to get my tri-band beam and VHF/UHF up higher and hopefully string a stealth NVIS along the side of the property. Hopefully my neighbor is forgiving ☺ Of course, I must squeeze that in between work, family and other distractions; odd how many things get in the way of having fun with radio stuff and other hobbies. Go figure!

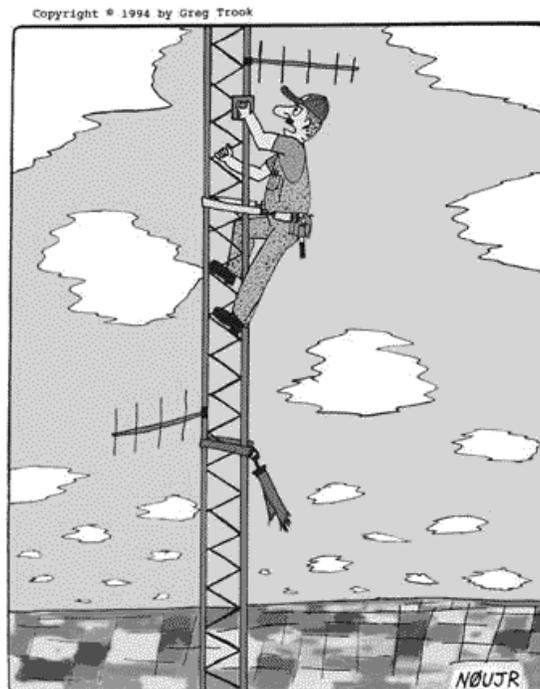
Speaking of having fun, congratulations to the new hams who completed their exams recently and received their first call signs. Also, kudos to the instructors and examiners who volunteered their time to help teach the course: Job well done!!!

Along with passing your exam and receiving your first call sign, you have been given a membership in the Kingston Amateur Radio Club for the balance of 2019. So, we hope to hear you on the air and look forward to seeing you in person at our monthly meeting at Smitty's Restaurant: Welcome Aboard!!

Next meeting is Tuesday the 2nd of April; hope to see all you all there.

73,

Brian, va3bah



"So Bob...why did your ex-wife give you a new climbing belt for Christmas?"

MEMBER ARTICLE

Winter Winds, Spring Melt and Radio

You may think the winter season stops marine radio in this area but that is not the case. I always keep a scanner on the marine channels as we have ferries running in the area and the JRCC in Trenton and their SAR aircraft are always active.

0035Z ZBR Bermuda 2182 kHz, announcing weather broadcast on 2582 kHz

0044 Sydney Coast Guard radio announcing Canadian Atlantic Weather on 2598 and 2749 kHz.

Rescue 532 to JRCC (Joint Rescue Coordination Centre, Trenton, ON) ch 82A, re 406 epirob heard

VBR Prescott to ferry Frontenac II radio check

Transport 950 to VBR (Canadian Patrol Aircraft) ch 16 and 24 radio check

VBR Prescott on ch 16, assistance request for a person on a loose ice flow of Amherst Island. Rescue 422 to JRCC ch 82A, fisherman removed from ice and returned to his vehicle.

USCG Buffalo many times on ch 22A with notices to mariners.

Several reports of local ferries tied up due to winds.

Many Gale warnings and Freezing Spray warnings for Eastern Lake Ontario and one Storm Warning broadcast ch 16 and 21B.

This has been quite a winter here. We have had enough snow but the winds have been high on many days. Just yesterday we had another Gale warning for SW winds of 35 knots for most of the day. At these times, I find the continuous marine forecast on channel 21B. 161.775 MHz very useful. We have them here in the winter because the three local ferries run all winter using bubble systems to keep an ice free channel open. From February 23 to 25 we were under a full storm warning on Lake Ontario and wind warnings for the land forecast. Winds of up to 50 knots and freezing spray were forecast for the lake and waves as high as 5 metres were predicted. We had gusts of over 100 km/h (62.5 mph) at my home near Lake Ontario. At Port Colborne, at the eastern end of Lake Erie they had sustained winds of 102 km/h and gusts to 128 km/h (nearly 80 mph) which is well above hurricane velocity. This caused a wind surge effect on the eastern end of the lake since it is the shallowest of the Great Lakes. This also caused some shoreline flooding and an ice tsunami. Ice was piled so high on the shore that several parts of the Niagara Parkway had to be closed to traffic. We had quite the piles of broken ice on the shore here. A news photo of an American cottage completely covered in ice due to the spray and possibly flooding out was a real warning. By the way, The Coast Guard had to rescue 46 people from a floating ice flow in Lake Erie as they were fishing and the ice broke away. A reminder that you can use a cell phone here

in Canada and dial \*16 to access a Canadian Coast Guard Radio Station. Along the river, it is a good idea for Canadians to deactivate access to American towers, as they are often closer and stronger signals, and do not support this service. If the local radio station phone is busy it will automatically send the call to the next station and so on until you get an answer. I often tell the story of VBR getting a \*16 call from a gentleman who was ice fishing and had the ice flow break away. He was calling for help as he was floating under the famous Quebec City Bridge.

I am really tired of the special weather statements, freezing rain warnings, wind warnings, extreme cold warnings and blowing snow advisories this winter. I have been monitoring the local weather radio frequencies, the continuous marine broadcast from VBR and the local ATIS for our airport, 135.55 MHz, continually this winter. Since the airport runway is only about ½ mile away it gives accurate weather information for my location. The local amateur radio community has had several weather watches on our local repeaters and I personally handled several requests for information on power outages, road conditions and the many accidents on the major area highway, 401. Some of the power outages were on local islands in the river. I rode home with several local amateurs to be sure they arrived safely. Hopefully the sighting of the first Robin, singing Cardinals and some now melting will confirm the famous Groundhog's forecast of an early spring. He better be right this year!

We have a good ice covering on the lakes so there will probably be ice breakers in the area soon. They open the St. Lawrence above Montreal. We have above average water levels on all the lakes so the weekly water level notices broadcast over VBR. The water flow on the river has been set above normal for a while to help adjust this. With the spring melt and runoff coming soon, there may be more flooding warnings.

The Welland Canal is set to open for navigation on March 22 at 0800. The Sault Ste. Marie locks are scheduled to open on the 25<sup>th</sup>, while the Montreal to Lake Ontario section of the St. Lawrence Seaway has a scheduled opening of March 26<sup>th</sup>. I will be monitoring for the ice breakers to come into this area. We usually have cement carriers out before the canals open, here on Lake Ontario. Cement from the Canadian ports of Bath and Picton is always needed in Toronto and the US ports of Oswego and Rochester. I have seen the active AIS of the NACC Argonaut and McKeil Spirit showing they are fitting out at their winter layup port of Toronto. Both of these are converted ocean freighters and should be able to handle some ice conditions. Besides the usual channel 16 and USCG on 22A. Channels 11, 12, 13 and 14 will become active with traffic control in the area as the opening of navigation nears. I again urge listeners to have a scanner that searches all the marine channels. There is a lot of traffic on these channels including onboard ship communications. Be sure to cover the 156 as well as the 160 plus MHz frequencies as some of these duplex channels are now simplex. I put the 12.5 kHz spacing in so any new channels will be heard when they come into use. Be sure to realize channel 70 is for DSC

only and that some new digital services are coming into use soon. The 450 to 470 MHz range should also be searched as they are used on board ships and also for shore side communications.

JRCC Trenton uses channel 82A, 157.125 MHz, to contact their aircraft in this area. For those close to Trenton, ON. 232.1 is also listed for SAR operations. The primary HF frequency for Canadian SAR operations is 5717 kHz.

## AIS

I have been sent an AIS radio receiver to patch into the internet. This will provide signals to the BOATNERD site for great lakes ship enthusiasts. This will be in operation shortly and I usually get a fair range into eastern Lake Ontario and the St. Lawrence River. The site is [www.boatnerd.com](http://www.boatnerd.com) and they are looking for people to host AIS receivers along the lakes to set up a comprehensive monitoring system.

## MARASS

The USCG is making more Mariner Radio Activated Sound Signals into use on the east coast. Please note the following notice:

### **MRASS Changes Soon in MA, RI, CT, NY-SEACOAST:**

The U.S. Coast Guard will be making the following changes on the below listed Aids to Navigation (See LNM 09/17 for the full proposal) weather and operations permitting:

MARINER RADIO ACTIVATED SOUND SIGNAL (MRASS) Mariners requiring the use of sound signals during periods of reduced visibility will be able to activate them on demand. In order to turn them on, mariners will be required to momentarily turn their VHF-FM radio to channel 83A/157.175Mhz and key their microphone 5 times consecutively. This will activate the fog signal for 45 minutes.

#### Massachusetts;

(LLNR 350) Bakers Island Light

(LLNR 295) Cape Ann Light

(LLNR 11440) Gallops Island Light 7

(LLNR 12545) Plymouth Light

(LLNR 11650) Windmill Point Light WP

#### Rhode Island;

(LLNR 17780) Beavertail Light

#### Connecticut;

(LLNR 21400) Great Captains Island Light

(LLNR 21340) Greens Ledge Light

(LLNR 21825) New London Ledge Light  
(LLNR 20145) North Dumpling Light  
(LLNR 21095) Orient Point Light  
(LLNR 21290) Penfield Reef Light  
(LLNR 21115) Saybrook Breakwater Light  
(LLNR 21210) Southwest Ledge Light

New York (Long Island Sound);  
(LLNR 26530) Huntington Harbor Light  
(LLNR 660) Montauk Point Light  
(LLNR 19815) Race Rock Light

A Broadcast Notice to Mariners (BNM) will be issued for each change completed.

#### NAVIGATIONAL WARNINGS

The Canadian Coast Guard is changing what they used to call Notice to Shipping to Navigational Warnings. Please note the following advisory:

#### ADVISORY NAVIGATIONAL WARNINGS / NOTICES TO SHIPPING

The Canadian Coast Guard is implementing a number of changes to the aids to navigation system in Canada. These changes are advertised as Navigational Warnings, formerly called Notices to Shipping<sup>1</sup>, that are broadcast by the Canadian Coast Guard, and are then followed up with Notices to Mariners, then charts are updated by hand correction, reprints or new editions. Mariners are advised that all relevant Navigational Warnings (NAVWARNs) should be kept until superseded by Notices to Mariners or through revised charts issued by the Canadian Hydrographic Service (CHS).

Navigational Warnings are accessible on the applicable regional page on the Canadian Coast Guard e-Navigation Maritime Information Portal at <http://www.marinfo.gc.ca/e-nav>.

The Canadian Hydrographic Service is reviewing the impact of these changes with the Canadian Coast Guard and together are preparing an action plan on the issuing of chart revisions.

KPH, KFS

The Maritime Radio Historical Society has shown real enthusiasm and expertise in restoring the Coast Station facilities at Point Reyes, CA. Since even WLO has finally gone off the air this is a real historical look into marine radio communications. They have restored many transmitters, extensive antenna structures and

operating positions. Their website at [www.radiomarine.org](http://www.radiomarine.org). illustrates this extensive work. I can only commend their efforts. You can sign up for regular bulletins showing the station and the work in progress.

They are on the air every Saturday afternoon on cw sending their advisory call, press, weather and traffic lists. I am sure now how rusty my cw is and I try to copy this station every time I can. For two successive Saturdays I have copied KPH on 12.808.5 MHz cw and KFS on 12.695 MHz cw. The signal was over S9 and solid copy. I did hear weak signals on their 17 MHz frequency but I only knew it was them by frequency and the odd character. The 12 MHz frequencies seem the best bet here in the eastern area. I did hear them work KKUI on the 12 MHz frequency. This is the SS American Victory, as restored victory ship, in Tampa, FL.

I have heard their LW in the past but propagation being what it is, not lately. They did have some damage to their station due to storms and lost some antennas. They had a shutdown but are now back on the air on some of their frequencies. They may be on all frequencies when this column is read so I will give the full frequency list is as follows:

KPH .426, 500, 4247, 6477.5, 8642, 12808.5, 17016.8, 22477.5 kHz

KFS 12695.5 kHz

K6KPH 3550, 7050, 14050, 18097.5, 21050 kHz

They also operate an amateur radio station, K6KPH when they are on the air. I contacted K6KPH on 7.050 MHz recently and they had an excellent signal on cw. I had a short qso with Wally and told them about this column. I then phoned the station and had a chat with Wally and let them hear their excellent signal here. Wally reminded me that now have a DMR (Digital Mobile Radio) set up at the station. He asked me to inform readers about this so I include the following information:

### **MRHS DMR Talkgroup!**

[Corrected TG Number - Thanks to Jeorg DL2EDF]

DMR = Digital Mobile Radio. Using this technology amateur stations can connect with each other around the world using repeaters and hot spots. Various talk groups have been assigned to certain locations and special interests. The MRHS has been assigned a talkgroup on the Brandmeister network. We thought it would provide a way for amateurs anywhere in the world to contact us to ask about schedules and frequencies, provide signal reports and ask for a scheduled contact with K6KPH. We'll monitor the talkgroup during our regular Saturday schedule from 1200 to 1700 Pacific time. Some MRHS members will also monitor the talkgroup from home for calls outside our usual operating period. And the talkgroup number is...

31674

Note: We plan to install a hotspot at the receive site this Saturday (2/9). We'll give a call once it's functional and would appreciate signal reports.

They are also installing Software Defined receivers on their antennas for public access via the internet.

### **KPH Software Defined Receivers**

Now you can listen to the LF, MF and HF bands using the same antennas the operators at KPH use - from the comfort of your computer no matter where you are in the world.

We have installed several Kiwi Software Defined Receivers (SDRs) covering all frequencies from 0 to 30Mc - and made them publicly available via the Internet.

The LF/MF receiver uses a Marconi T antenna while the HF receiver used a TCI-530. Both are located at the KPH receive site where electrical noise is extremely low.

We are still fine tuning the installation but the project has reached the point that it's ready for you to use.

### **AMATEUR RADIO**

I have been fortunate to work some museum ships of late. I have worked the USS Hornet, NB6GC, in Alameda, CA twice. The last contact being with Mike on 14.031 cw at 2214Z. A qsl is on the way. I contacted the USS Texas, W5T, on 14.031 cw at 2005Z. This was during their special event commemorating the launch of the vessel. I also contacted the USS North Carolina during the NC QSO Party. I had a brief chat with Allan on 7.036 cw. He had a good signal but the local QRN noise just about made any contact impossible. I must admit that I felt a bit sad as having operated from the ship during the qso parties I really missed being there. Family medical and other reason have prevented us from being there during the event. I did have a brief chance to operate there last year but propagation was poor. It was a pleasure to chat with Allan Pellnat KX2H, Jack Jacobs WD4OIN, Norman Clemmons KI4YSY and Linwood Todd NT4F. I feel honored to have been shown parts of the ship not open to the public. The restored transmitter equipment is really worth seeing. The Azalea Coast Amateur Radio Club has really done a great job on board. The ship should now almost be in a dry dock situation and a walkway is being built around the ship. I had hoped to see this this year but no luck. Please visit the battleship if you are in Wilmington, CN and note the original vertical antennas that the club still uses on the amateur bands I also visited the USS Yorktown in Charleston, SC last year. I had a brief operating time but again propagation was poor. I was good to chat with Tom Glaab AJ4UQ and revisit with Jim Comfort KK4REM. Let's hope next year will allow another visit to the Carolinas. I am pleased that I have been able to donate a flash proof morse code key to each station as a thank you for allowing me to operate aboard. The station here is still working only on a multiband dipole but the vertical will be back up in the spring. I will then have some WARC bands back and also 6m.

It was nice to contact WA2DVU, Bill, near Cape Maye NJ, on ECARS. The net is on 7255 ssb daily. I appreciated him saying he liked the Spectrum Monitor and enjoyed my column. I hope all the readers are enjoying the column. I would appreciate any comments, suggestions and material to use via my email address. I look forward to meeting readers on the air as well. I can be found on ECARS at 7.255 and ONTARS on 3.755 Mhz.

HUMOUR RATION



## MEETING MINUTES

### Kingston Amateur Radio Club

#### Minutes of the Meeting

5 March 2019

Held at Smitty's Restaurant

Kingston, Ontario

1. The meeting was called to order at 7:00pm by the President Brian, VA3BAH.
2. There were 20 members and guests present.
3. Minutes of the Previous Meeting:
  - a. It was moved by Chip, VA3KGB, and seconded by Eric, VE2PEF, that the minutes of the February meeting be approved as posted in the March Newsletter.
  - b. Carried
4. Treasurer's Report:
  - a. It was moved by Ron, VE3GO, and seconded by Eric, VE2PEF, that the Financial Report for February 2019 be approved as posted in the March Newsletter.
    - i. Carried.
5. Old Business:
  - a. Canadian National Parks On The Air 2019 (CNPOTA) :
    - i. With cold weather still with us post phoned to a later meeting.
  - b. GICS:
    - i. Doug, VE3FFR, did some research on GICs, and was info'd by Credit Union that it was not worth taking out.
    - ii. In the past the Club has chosen not to have GICS.
    - iii. It was moved by Brian, VA3BAH, and seconded by Peter, VE3POA, to defer the vote on GICs to the April Meeting. 7-Yes, 5-No, 1-Abstention
      1. Carried
    - iv. It was moved by Ron, VE3GO, and seconded by Eric, VE2PEF, that the matter of GICs be resolved once and for all at the April meeting.
      1. Carried.
  - c. Community Living Ontario (CLO):
    - i. Andrea Whyte, talked to the Club on working with challenged youth and Amateur Radio.
    - ii. This would not be a one off demo, but a commitment on individual members to work with youth on a one on one basis requiring CPICs. Cost of CPIC would be reimbursed by CLO.
6. New Business:
  - a. Use of Remote HF Station by Out of Province Amateurs.
    - i. Chip, VA3KGB, reported he has had a request from a VE8 requesting access to the Remote Station.
    - ii. The Station was set up primarily for paid up Club Members and Amateurs in the local area.
    - iii. Question was raised why he wanted to use our station. Chip will report back.
7. Reports:
  - a. 2 Metre Net:
    - i. Steve, VE3KC, reported there were between 10 to 13 check ins in February with net times of 30 to 46 minutes.

- ii. Looking for more Net Controllers.
  - b. HF Net:
    - i. Dave, VE3EAC, reported on KAREX digital HF, and after discussion that this was supposed to be a KARC and not KAREX net, Dave resigned as HF Net Manager.
  - c. CFARS:
    - i. Chip, VA3KGB, reported the nets were running despite the poor propagation conditions
  - d. HF Remote Station:
    - i. Chip, VA3KGB, reported the station is fully operational and antennae have weathered the wind storms.
  - e. Hearts and Flowers:
  - f. Peiter, VE3NXE, recovering
  - g. KAREX:
    - i. Kingston Amateur Radio Experimenters Group meets Saturdays at the 560 Legion on Montreal St. Internet of Things, Fri HF this week SSTV.
  - h. Amateur Radio Course:
    - i. Students are doing practice exams next week.
    - ii. Chip, VA3KGB, moved that the passing students be granted a 1 year free membership in KARC. Seconded by Steve, VE3KC, with an amendment that the 1 year free membership be granted to any new Amateur within VE3KBR's footprint. Chip Agreed to the amendment.
    - iii. Carried
  - i. Swap Shop:
    - i. Ron, VE3GO, indicated there will be a list of the items from the VE3GN estate forthcoming.
  - j. VE3RCS:
    - i. Terry, VE3KLG, has been told that the antenna at the museum should be up this summer and indicated that this might be a place for CLO activities. (See above)
8. 50/50 Draw:
- a. ??
9. Adjournment:
- a. It was moved by Eric, VE2PEF, and seconded by Les, VE3SOH, that the meeting be adjourned.
  - b. Carried
10. Presentation:
- a. Noble Skywave 2018, Larissa, VE3KGC, who was a participant (Team place 2<sup>nd</sup>).

Clifford ('Chip') Chapman, VA3KGB  
 Secretary  
 Kingston Amateur Radio Club

## MEETING AGENDA

### **KARC Meeting Agenda 2 April 2019**

1. Members and Guest introduce themselves
2. Additions to the Agenda
3. Minutes of the Last Meeting: errors / omissions /approval (Moved by the Secretary, Chip, VA3KGB)
4. Treasurer's Report:
5. Old Business
  - a. Canadian national Parks On The Air 2019 (CNPOTA 2019) and Activations
  - b. GICs
  - c. a. Use of Remote HF Station by Out of Province Amateurs (Chip, VA3KGB)
6. New Business:
  - a.
  - b.
  - c.
  - d.
7. Reports:
  - a. 2M Net Manager (Steve, VE3KC)
  - b. HF Net Manager
  - c. CFARS (Les, VE3KFS)
  - d. Remote HF Station (Chip, VA3KGB)
  - e. KAREX
  - f. Amateur Radio Course
  - g. "Hearts and Flowers"
  - h. Other Reports
8. 50/50 Draw
9. Presentation: TBA
10. Date of Next Meeting: 7 May 2019
11. Adjournment

FINANCIAL REPORT

**KARC FINANCIAL REPORT – March 2019**

**March 26, 2019**

**Opening Balance**

|                         |                |
|-------------------------|----------------|
| <b>Cooperation Plus</b> | <b>5295.52</b> |
| <b>Dividends Share</b>  | <b>289.81</b>  |
| <b>Equity Shares</b>    | <b>25.00</b>   |
| <b>Total</b>            | <b>5610.33</b> |

**Income**

|                   |             |
|-------------------|-------------|
| <b>Int</b>        | <b>.04</b>  |
| <b>50 50 Draw</b> | <b>4.50</b> |
| <b>Membership</b> | <b>0.00</b> |
| <b>Donation</b>   | <b>0.00</b> |
| <b>Total</b>      | <b>4.54</b> |

**Expenditures**

|  |             |
|--|-------------|
| <b>Sympathy Card paid cash</b>               |             |
| <b>from 50/50 draw plus 1.15 from ve3ffr</b> | <b>6.55</b> |

**Closing Balance**

|                         |                |
|-------------------------|----------------|
| <b>Cooperation Plus</b> | <b>5295.56</b> |
| <b>Dividends Share</b>  | <b>289.81</b>  |
| <b>Equity Shares</b>    | <b>25.00</b>   |
| <b>Total</b>            | <b>5610.37</b> |

NET CONTROL SCHEDULE

January 9 VE3POA Peter  
January 16 VE3WIO Carlyle  
January 23 VE3CAK John  
January 30 VA3BAH Brian  
February 13 VA3PCI Assaf  
February 20 VE3KGC Larissa  
February 27 VE3NXE Pieter  
March 13 VE3POA Peter  
March 20 VE3WIO Carlyle  
March 27 VE3KC Steve  
April 10 VA3BAH Brian  
April 17 VA3PCI Assaf  
April 24 VE3CAK John  
May 8 VE3KC Steve  
May 15 VE3KGC Larissa  
May 22 VE3NXE Pieter  
May 29 VE3POA Peter  
June 12 VE3WIO Carlyle  
June 19 VA3BAH Brian  
June 26 VA3PCI Assaf  
July 3 VE3CAK John  
July 10 VE3KC Steve  
July 17 VE3KGC Larissa  
July 24 VE3NXE Pieter  
July 31 VE3POA Peter  
August 7 VE3WIO Carlyle  
August 14 VA3BAH Brian  
August 21 VA3PCI Assaf  
August 28 VE3CAK John  
September 11 VE3KC Steve  
September 18 VE3KGC Larissa  
September 25 VE3NXE Pieter  
October 9 VE3POA Peter  
October 16 VE3WIO Carlyle  
October 23 VA3BAH Brian  
October 30 VA3PCI Assaf  
November 13 VE3CAK John  
November 20 VE3KC Steve  
November 27 VE3KGC Larissa  
December 11 VE3NXE Pieter  
  
December 18 VE3POA Peter

## **NET CONTROL SCRIPT**

Revised April 16, 2013

Good evening. This is [name and callsign], net control station for the Kingston Amateur Radio Club's Tuesday night Net.

The Kingston Amateur Radio Club Tuesday Night Net is an informal net that meets at 1930 hours every Tuesday evening on the KARC repeater, VE3KBR. We welcome participation by all amateurs.

Before continuing, is there any emergency or priority traffic? Please call now.

The purpose of the net is to take check-ins; to inform you of KARC activities; and to provide news of interest to Radio Amateurs. Information about KARC may be found on the web site ([www.ve3kbr.com](http://www.ve3kbr.com)) or by contacting any of our club executive members.

I will take check-ins giving priority to mobiles, portables and stations checking in via EchoLink or IRLP. When checking in, please give your call sign phonetically, your name and location, and indicate whether you have any traffic or announcements for the Net.

Are there any stations using EchoLink or IRLP wishing to check in? Please call now.

Are there any mobiles or portables wishing to check in? Please call now.

Are there any base stations wishing to check in? Please call now.

### **Trivia Time**

Here's tonight's trivia question(s).

### **Swap Shop**

Are there any items for the swap shop?

### **Closing**

Are there any additional check-ins or announcements before I end the Net?

That concludes this evening's Kingston Amateur Radio Club Tuesday Night Net. Thank you for participating. We had [number] check-ins this evening. 73. This is [name and callsign] returning the repeater to normal amateur use.