

Feedline

Voice of the Niagara Peninsula Amateur Radio Club, Inc.



Happy Holidays



Welcome — Kaitlynn, VE3AU0

So here I am again on the front page. This could only mean one thing right? Well you'll have to wait until the meeting for the details.

First off, I have been in contact with John, VA3BOZ and he was in good spirits when we spoke through Facebook® although a fair bit tired. The picture posted by his son Shawn, actually showed John with a smile. Can you believe it a real smile? John looks good in the picture along with his wife right beside him. On behalf of NPARC, I would like to wish him the very best and a "Get Well Soon".

Secondly, we are about to close out 2017 and with that will go a year of many ups and downs for the club and many of our members I'm sure. Unfortunately, the down for NPARC, was of a very serious and sad nature. The loss of Eric, VE3EI, affected NPARC, many other radio organizations as well as the ham community at large, immensely. He will be greatly missed and remembered. Please keep him in your thoughts.

Next, I would like to give a quick mention about our upcoming meetings and special guests or events for those meetings. If anyone would like to step up and give a presentation on ANYTHING, please let someone on the executive know. As for December, this is our tech night and presentations from what I know are a bit thin. If you have something you would like to show off, please contact the executive and we will get you on the list for this meeting.

This meeting is also our 'Food Drive' for the local charities. Please see the article on that further in the Feedline.

Take care and 73

Kaitlynn, VE3AU0



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Previous Meetings Minutes — Steve, VA3FLF

20171109 General Meeting
Royal Canadian Legion, Branch 613, Fonthill, ON

NPARC President John Boswell, VA3BOZ called the meeting to order at 7:10 pm. The President started with roll call:

Roll Call: 20 Members present.

Steve, VA3FLF presented the minutes from the October Meeting that were posted in the Feedline. A motion was made to accept the minutes by Jim VE3BCA. The motion was seconded and adopted.

Audit Report, Oscar, VE3PIO. Oscar had conducted the annual internal audit of the NPARC finances and financial report that was prepared by Kaitlynn VE3AUO, Club Treasurer. Oscar reported no discrepancies that he could find and all the club financials appear to be in order. A motion was made to accept the report by Dennis VE3XC. The motion was seconded and adopted.

John, VA3BOZ, presented to the membership that **John Lorenc VA3WM**, has volunteered to accept the position of Repeater Committee Chairperson. Rick, VE3MM, made a motion to accept John's nomination. The motion was seconded. The floor was opened for any other nominations to the position. There were no other nominations the motion was adopted. John Lorenc was approved as Repeater Committee Chairperson.

The Executive Committee presented to the members a recommendation to sell the 220 Mhz repeater, VA3NRS. The repeater has been inactive for some time and there has been very little demand for an operational 220 repeater. **Kevin, VA3KGS**, made the motion to eliminate the repeater. The motion was seconded and adopted.

NPARC had received an offer for the hardware associated with the repeater for \$100.00 by Mike Ridley, VE3MKR. After a considerable amount of discussion, it was decided that the repeater equipment sold separately would be worth more than the offered amount. It was recommended that the power supply, repeater, and cans all be sold separately.

A motion was made by **Kevin, VA3KGS** that the Repeater Committee Chairperson coordinate the sale of the aforementioned items separately through various clubs or KWARC.org sales site. The motion was seconded and adopted.

Event Coordinator, John VE3HWE gave an update of the Niagara Falls Holiday Parade. He is still in need of a few more volunteers for the event which is November 18th.

The 50/50 drawing was held and won by John VE3HWE. John donated the winner's portion of \$ 20.00 back to the club account.

Previous Meetings Minutes cont... — Steve, VA3FLF

Steve, VA3FLF, asked if anyone participated in the weekly 10 Meter Net that is listed on the Feedline. Members stated that this net is no longer active. The Net schedule will be removed from the Feedline.

The meeting was recessed for break and refreshments.

The guest speaker was Mike Walker, VA3MW. Mike gave a very interesting presentation on Flex Radio Systems and SDR. A thank you was given to Mike, VE3CKO for coordinating the guest speaker.

The meeting was adjourned at 9:20 pm.

Minutes by Steve Riddle, VA3FLF, Secretary.

Food Drive — Kaitlynn, VE3AUO

Fellow NPARC members,

This is the hardest time of year for all of the food banks and charities in the Niagara Peninsula. The last thing anyone would want to see is any to run short and have to turn away anyone.

What we are looking for are canned goods, dry goods and any baby items especially diapers. For something different, why don't we add in some small toys. There are many kids out there that would appreciate it.



Please make sure the items that you may be thinking of donating are not past their expiry date and unopened.

Collection of the goods will be at the December meeting and the Executive will arrange delivery from there.

Every little bit helps. The need is so high right now because of skyrocketing hydro bills and simply just the time of year.

Let show that NPARC can make a difference for some families this year. Let's fill some boxes so we can put a smile on some faces.

Treasurer's Report — Kaitlynn, VE3AU0

At Novembers meeting, I reported that I was in the process of transferring/converting the financial data to a different version of the software I am using.



Since that report, there have been some issues with the transfer so in the interim, I am continuing with the current version of software and playing catch-up with the financial entries. Along with that backlog is the processing of new transactions.

I will be bringing interim reports with me to the December meeting with the financials as of the end of November 2017 based on the currently entered transactions. I am still entering some data at the moment due to incoming Big Event sales.

Yes , you read that right. The Big Event sales have started. Tables sales are picking up and are looking good. Currently we have Radioworld locked in and we are waiting on other vendors to verify their attendance.

Kaitlynn
2017-2018 Treasurer

Ham Class Report — Phil, VE3ACK

On the Road to Success
NPARC's Basic Theory Class
Phil, VE3ACK

It's been six weeks since the start of NPARC's basic theory class and the participants seem to be surviving the ordeal. They've withstood the onslaught of the basic concepts quite well and they return smiling week after week.

We tried our hand at constructing home-made wax paper capacitors that we used to demonstrate that capacitors block DC. and pass AC.



Ham Classes ...cont— Phil, VE3ACK

...cont from pg. 4

I've tried to breathe some life into the theory by conducting quick demos from time to time. We saw how semiconductor material is formed by inserting a jar of distilled water in a circuit and slowly adding an impurity (salt in our case) until the solution began to conduct – but not to the extent that the saltwater solution became a good conductor. We used Oreo cookies to show the construction of semiconductor diodes (well, the old selenium types) and bipolar transistors. Steve, VA3FLF constructed Bristol board cones for us, so we could demonstrate amplification and impedance matching.

The electronic kits that NPARC purchased have made a huge difference to making the “boring” fundamentals more interesting and palatable. We were able to see how capacitors charge and discharge. We were also able to verify the resistor and the capacitor formulas for series and parallel connections with the kits.

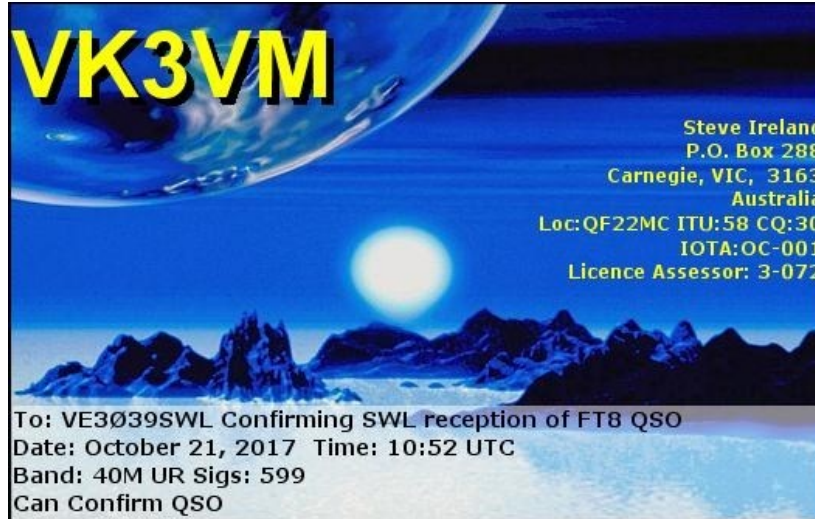
Since we've finally progressed to more interesting concepts, we've been able to apply some of the basic concepts learned earlier. For example, we have seen how resistors used as a voltage divider can be used to set the correct voltage on the base of a bipolar transistor. Using the electronic kits, we have built simple transistor amplifiers and noted the differences between NPN transistor circuits and PNP circuits. The kits have also come in handy to demonstrate diode action. The LEDs in the kits make it easy to visualize when the diodes are forward biased and conducting and when they are reverse biased and shut off. The kits contain an SCR which we used to build a control circuit. We will finish off our study of transistors by constructing a simple audio oscillator.

Along with the transistor fundamentals, we had a look at vacuum tubes. I brought in an 807 along with an 80. (I know, I'm old. I could have at least brought in a 5V4 or a 5U4.) In addition, I had a 6CL6 as an example of a miniature tube. Finally I introduced the 829B that I used in one of my homebrew transmitters. We are finally at the point where we can look at the real applications of the concepts and circuits that we have been studying. The next step is to examine receivers. The kits will be invaluable at this stage since we will be able to build simple receivers which actually use tuned circuits to select signals as well as detectors and amplifiers.

In addition to the weekly theory classes, everyone has been independently learning material such as the Q code, the phonetic alphabet and the band limits for the commonly used amateur bands.

We are on the lookout for a couple of hf stations that we can visit and see in operation. We'd also like to try a contest in January. There's no need to operate the entire contest period; the idea is just to give the course participants a feel for events such as Field Day. We might, for example, try the SSB North American QSO Party on January 20 (<http://www.contestcalendar.com/contestdetails.php?ref=229>) or the Winter Field Day Contest on January 27 (<http://www.contestcalendar.com/contestdetails.php?ref=421>). If you are able to help out, please send a message to me at radio_meteor@yahoo.ca

QSL Rcvd — Rob, SWL



VK3VM

Steve Ireland
P.O. Box 288
Carnegie, VIC, 3163
Australia
Loc: QF22MC ITU: 58 CQ: 30
IOTA: OC-001
Licence Assessor: 3-072

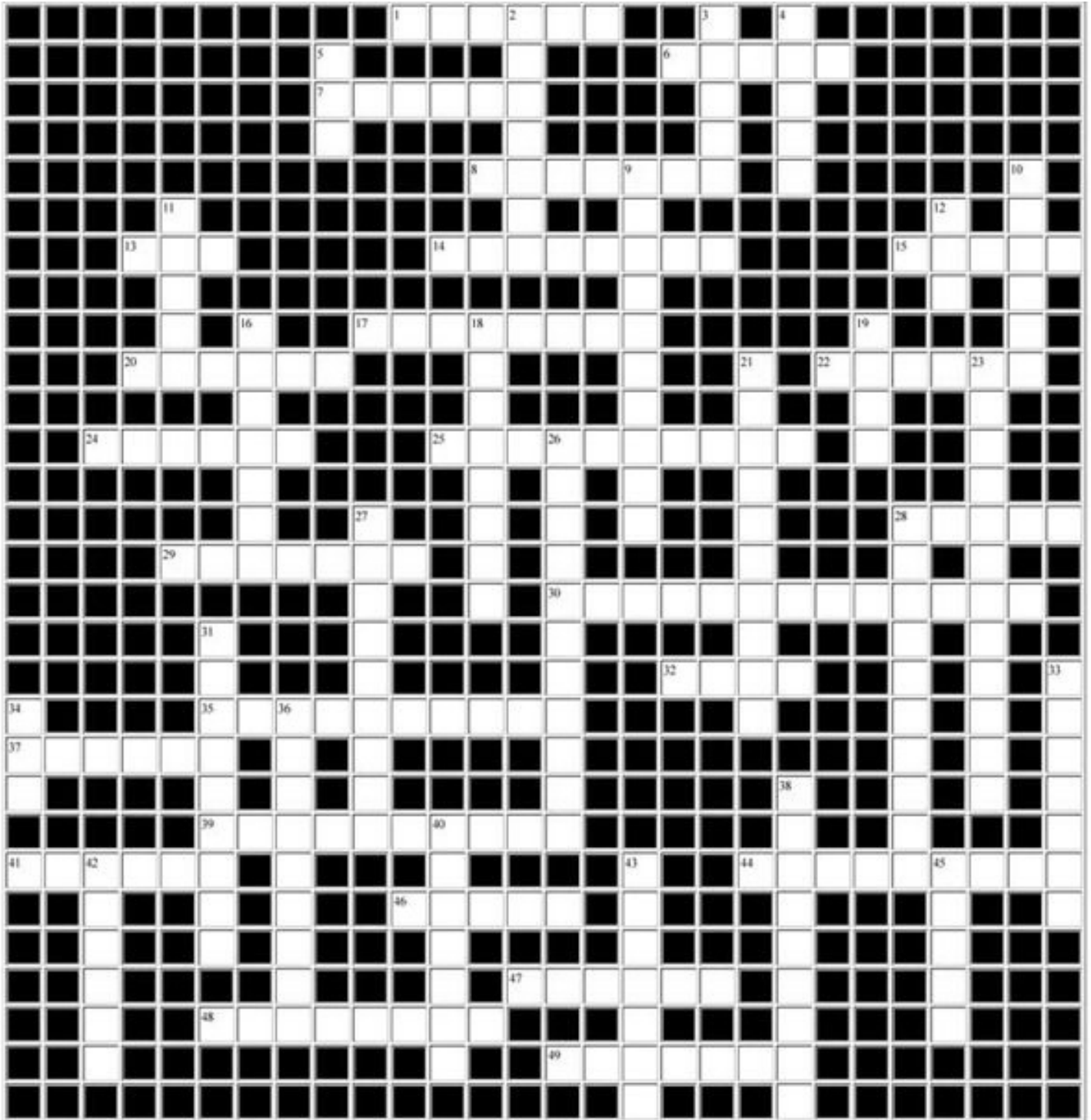
To: VE3Ø39SWL Confirming SWL reception of FT8 QSO
Date: October 21, 2017 Time: 10:52 UTC
Band: 40M UR Sigs: 599
Can Confirm QSO

The QSL card features a background image of a snowy mountain range under a full moon, with a satellite in orbit above. The call sign 'VK3VM' is prominently displayed in yellow at the top left.



Fun and Games — Kaitlynn, VE3AU0

Electronics Crossword—Clues on page 8



Fun and Games — Kaitlynn, VE3AU0

Electronics Crossword—Answers

ACROSS:

1. 60% tin, 40% lead
6. A human-like machine
7. Before digital
8. Unipolar/bipolar are motor types
13. Dual in-line package
14. Converts energy into linear motion
15. An electrically operated switch
17. Unit: Ohms (Ω)
20. Data sent sequentially
22. An audio signaling device
24. Turns electrical current on/off
25. Measures voltage, current, etc.
28. Converts energy to mechanical motion
29. Alkaline, silver oxide, lithium-ion
30. Diode is the simplest _____
32. Hook-up, stranded, bus-bar, jumper
35. Alternating current of a certain frequency
37. Easy IC insertion and extraction
39. Fundamental component
41. Data storage; volatile or non-volatile
44. RCA, CPC, Molex, XLR, D-Sub
46. Bi-directional, continuous rotation
47. Stimulus sends a resulting impulse
48. In PATA, what is P?
49. Conductors share the same axis

DOWN:

2. 1 and 0, or ON and OFF
3. $P = IV$. What is P?
4. Of the sun
5. Moves air
9. Write of C, C++, Java, Python, etc.
10. Single row male " _____ "
11. Allows one direction current flow
12. Anode & cathode and it's bright
16. Components connected by wires
18. AKA reactor or coil
19. Circuit opens during excess current
21. Insulated surface for prototyping
23. Polar cylindrical capacitor
26. Step-up or step-down
27. Motor requires an electric controller
28. Converts sound into electrical signal
31. The first of a creation
33. To join together
34. Universal Serial Bus
36. A device for storing a charge
38. AKA electric eye, magic eye, LDR
40. An electro-acoustic device
42. Metal oxide semiconductor field-effect transistor
43. A type of piezoelectric resonator
45. Real Time " _____ "

Club Executive 2017-2018

Position	Name	Callsign	Email
President	Vacant		president@nparc.on.ca
Vice-President	Vacant		vice-president@nparc.on.ca
Secretary	Steve Riddle	VA3FLF	secretary@nparc.on.ca
Treasurer	Kaitlynn Mattatall	VE3AUO	treasurer@nparc.on.ca
Bulletin Editor	Rachel Barnsdale	SWL	feedline@nparc.on.ca
Public Relations Officer	John Eagle	VE3HWE	public_relations@nparc.on.ca
Repeater Committee Chairperson	John Lorenc	VA3WM	repeaterchair@nparc.on.ca

Feel free to check out our website at <http://www.nparc.on.ca>. There you will find more information regarding the club and the other dedicated members that put in numerous hours of their own personal time to help make this club as great as it is.

NPARC Repeaters

VE3NRS	147.240 MHz +	PL Tone 107.2 Hz
VE3RNR	443.175 MHz +	PL Tone 107.2 Hz
VE3WCD	147.300 MHz +	PL Tone 107.2 Hz

Area Repeaters

VE3RAC	147.165 MHz +	PL Tone 107.2 Hz
VE3GRW	442.900 MHz +	PL Tone 107.2 Hz
VE3RAF	442.250 MHz +	PL Tone 107.2 Hz

This is by no means a complete listing. This is just a snippet of all that are available and ones used by club members on occasion.

Nets of Note

- ONTARS 80 M Net / 3.755 MHz LSB daily 7:00 A.M to 6:00 P.M. EDT
- CLARA 80 M Net / 3.750 MHz Mondays 7:00 P.M. EDT
- GWEN-Ground Wave Net on the 1st and 3rd Monday of the month at 7:30 P.M. EDT on 3.607 MHz
- NPARC 2M Net /147.240 MHz on Mondays at 7:00 EDT
- ARES 2 M Net /145.190 MHz on Mondays at 8:00 P.M. EDT
- SATERN Net on 2 M /147.300 + MHz / IRLP on Mondays at 9:00 P.M. EDT
- NPARC 10 M Net / 28.415 MHz on Tuesdays, 8:30 EDT
- CLARA 20 M Net / 14.120 MHz on Tuesdays at 1700 UTC & 40 M Net / 7.055 MHz at 9:00 am Eastern
- PROCOM—ARES 40 M / 7.153 MHz & 80 M / 3.74 MHz on Thursdays at 8:00 P.M. EDT

Niagara Peninsula Amateur Radio Club, Inc.

P.O. Box 20036
Grantham Postal Station
St. Catharines, Ontario, L2M 7W7
Canada

Phone: 289-646-9222
Fax: 289-646-9222
Email: info@nparc.on.ca

Amateur Radio - When all else fails!

We're on the web
<http://www.nparc.on.ca>

The **Niagara Peninsula Amateur Radio Club** carries the club call sign of VE3VM. Our organization serves all amateurs and local community within the region of Niagara located in Ontario, Canada.

NPARC has a strong membership ranging from youth and senior amateur radio operators. We conduct monthly meetings, and serve the community in not only educating, but providing radio communication services to assist at public functions.

We operate three, commercially built repeaters that serve the Niagara region (and beyond). This year, our infrastructure plan includes several upgrades to increase communication flexibility and experimentation in the area.

If you're interested in becoming a licensed operator in Niagara, email one of our executive. Somebody from the club would be more than glad to assist you!

General Meeting Schedule for 2017

Meetings are held monthly, September to June,
on the 2nd Thursday of the month at 7:00 pm
Royal Canadian Legion Hall, Branch 613, 141
Hwy 20 East, Fonthill, Ontario. All are invited to
attend.

**Thursday December 14th,
2017—Next General Meeting**