

North Shore ARC

Vol. 2 No. 2
February, 1996

Serving Ralph Day
454 Holcan Ave.
Oshawa ON
L1G 5X6

VE3CRK

Happy Valentine's Day!

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President's Message

We've started a new year and we have a new Board of Directors for the Club. For those who have been at the meetings in November and January, you will know how difficult a process it was. My personal thanks to Martha, VA3SBD, and Ivor, VE3JMP, for accepting the challenge. I also want to thank Peter, VE3ZZV, for the good job in the face of difficulty that he did during his term as president. We are particularly going to miss George, VE3UEH, who has done a more than capable job of secretary for longer than I can remember.

On a sad note, the reluctance of members to volunteer for the Board of Directors may be a warning of problems in the Club. The members who have been around for a long time, have often served in one of the Club's underpaid but extremely rewarding positions. We cannot expect them to carry the Club forever. The newer members need to get involved. In addition, all members, both oldtimers and new, need to work at recruiting new amateurs. It is not enough to simply lead people to the testing centre and train them to pass the test. We need to help them learn proper procedure, make informed decisions on equipment and be there to answer their questions. Elmering and involvement in Club activities will help us all become better operators.

Continuing the sad note, you may have noticed the absence of a Club Net on VE3OSH recently. Roy, VE3AAF, announced his retirement last August. He gave us six months notice, but nobody has yet come forward to replace him. Does the club wish to have a two metre net? If so we need a controller. The controller needs assistants. If we also want to offer code practice, then we need more senders. Roy, enjoy your retirement and remember to check in occasionally. Bernie,

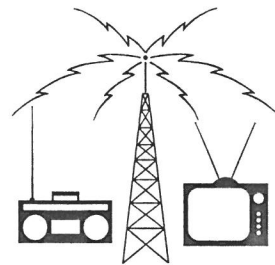
maybe we can get enough volunteers that you will also be able to retire!

I will shortly be issuing a questionnaire on the kinds of activities you would like to see the Club involved in. It will also determine what happens at the Club meetings. Please, when you receive it, answer the questions and return it. This is your Club. Only you can make it work. Please come out and get involved. In addition to the regular meetings on the second Monday of the month, we meet Saturday mornings at 9:30 at Momma's Restaurant and in the evenings at 21:30 on +/- 3.740 MHz. The bands have been bad lately so this informal net may have disappeared but give it a try.

Steve, VE3SBD

February Meeting

Slow scan TV will be the topic for our next meeting. The date will be Monday, February 12, 1996 and will take place at the Arts and Resource Centre behind City Hall. See you all there at 1930 sharp.



March Deadline

Deadline for info to be submitted for the February issue is **February 15**. See the Info Page for various the methods of submitting articles via internet, mail, etc.

Contributors

Thanks to Victor VE3LNX, Walter VE3FJC, RiesR VE3UEA, and Steve VE3SBD for submitting items for this months newsletter.

North Shore ARC

Box 171, Oshawa, ON,
Canada, L1H 7L1

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monthly except for July and
August when it is a combined
summer edition.

Laird Solomon, VE3LKS
editor

Glen Goslin, VE3LIZ
publisher

Swap Shop

Laird, VE3LKS, (905) 434-7339

386DX40 motherboard - no RAM \$75.
QRZ Ham Radio CD ROM Winter 1995
- over 650MB's. 1,000's of programs,
radio mods, data files, TCP/IP, Packet,
satellite tracking, RTTY, WEFAX,
computer radio control programs, US
callsign database and more. DOS &
Windows interface. \$20.

Len, VE3LBN (905) 985-7120

Kenwood Transceiver Model TR 8400
440 meg. 10 Watt, New in box. \$400.
Kenwood Transceiver Model TR 7950 2
meter 45 Watts \$350. Model no. TM 411
A/E 440 meg. Transceiver, T.T. mic,
Brkt., Manual. 5-25 watts output.
\$325.00 Firm. Model TR 9000 2 meter
all mode transceiver cw/ssb/fm . 1 -10
watts output, mic and manuals. \$375.00
Firm

Howard, VE3TYQ (905) 579-7466

IC 701 HF Transceiver 10 -80 meters,
plus the IC 701 Power Supply, IC SM 2
Desk mic for \$600.

Walter, VE3FJC, (905) 263-2338

BRAND NEW Heath solid state SB
104A transceiver with Digital readout,
CW Filter, Noise Blanker, PS 1144
Power Supply, Matching speaker. Price
\$325. Commodore 64, keyboard, 1541
disc drive, 1702 colour monitor, 1526
Printer.\$175 OBO.

Len VA3LDR (905) 723-6970

For Sale , Ten tec Argosy II, HF
transceiver, voice syn., AC/p, Desk mic.
Ant. tuner. Package \$650. Kenwood TS
450 sat. HF Transceiver. AC/p supply ,
Mic. , voice syn., \$2000.

Keith VE3MZB at 905 728-8676

Micronta Reg. Power Supply 3 AMP \$25.
Reg Power Supply 12 Volts \$18. Butternut
HF6V-X Vertical \$150. 2 meter "J" pole
H.B. copper pipe \$10.

Alex, VA3AMP (905) 697-2926

Yaesu Two meter Transceiver Model FT
2400H mobile 5-50 watts, tone encoder
and pager installed. \$400. Palomar
Amp. 30 watts in = 250 watts PEP out.

Model TX 2250, requires 20 amp power
supply to operate. \$200.

Wanted - looking for 4 - 6KD6 tubes
for amplifier. Dual band mobile, Yaesu
model. 2 & 70 cm.

Send all listing to **VE3FJC, Walter** at
(905) 263-2338, by packet at VA3BBS,
or by phone at VE3OSH 2 meter
repeater.

Early Days of Wireless - Part 7

When the XYL bemoans the fact that you
spend a lot of time in the radio shack,
show her this:-

From "The Wireless Age" - August, 1916

The wonders of wireless telegraphy were
explained by amateur radio operators on
June 23, to the members of the Engineers'
and Architects' Club, of Louisville, Ky.
Members of the Louisville Radio Club,
embracing all the amateur wireless
operators in the city, were guests of the
engineers and architects at a meeting held
in their offices in the Starks Building. C.
C. Gall, a professional operator, made the
point that wireless telegraphy was a great
moral force. "The amateurs send their
messages and perfect their work at
night," he said, "and you can always find
them at home when they ought to be
there. Lots of men I know would be
happier, and their wives would be
happier, if they became amateur wireless
operators."

If you're building an old-tyme crystal
radio (young boys till are fascinated by
doing so), you may want to refresh your
memory regarding detectors. Again, from
"The Wireless Age", July 1916
magazine, comes this:-

The Galena Detector -- This mineral is a
natural sulphite of lead, generally found
in the formation of cubical crystals. It
has a blue gray color with a noticeable
metallic lustre. One of the peculiar
characteristics of this crystal when used
as a wireless telegraph detector is that no
**local battery is required and that the
opposing contact must be extremely**
light. Adjustment -- the fine point (of
a very light piece of elastic wire, wound

in the form of a spring), should be placed
in light contact with the crystal at various
points until, by means of a buzzer tester,
the most sensitive spot is located. If a
more positive contact than that afforded
by a "whisker" is desired, a piece of
graphite from a lead pencil may be
employed. Increased pressure can then
be applied. (The author of this article was
Elmer E. Bucher).

Too much QRM?

Our final item, from the same magazine,
is this:-

To hear the human voice transmitted by
the wireless telephone was the privilege
of Iowa University wireless operators
recently. A message was sent from
Arlington, Va., to Key West, Fla., as a
test, and the Hawkeye operators caught it
although they could not distinguish the
words.

Victor Doty, VE3LNX

My Soapbox, Please

Well, the club elections have come and
gone for another year and we will waiting
to see who is going to take what position.
The elections this year were **no more
different** than other years in that it took
several meetings to get volunteers to fill
the vacant positions. Please notice the
words "no more different". There were
some members that got the idea this year
that because there was little response to
fill the positions that the club was in
some sort of peril. Be assured that this
happens every time elections come along.

Our web site is up and running. Fred,
VE3TIG has compiled the first version of
the NSARC homepage and will be
expanding and modifying it in the next
few weeks as time permits. See
"Interesting Web Sites" for the address.

Start thinking now of friends, family, and
neighbors that you want to invite out to
Field Day. This is a great time to
introduce them to the hobby and to let
them work the rigs and get them hooked
on this fantastic hobby.

Laird, VE3LKS

Interesting Web Sites

Here are some more interesting Web sites that I came across this month that you will be interested in. The first one, in particular, has a great pictorial tour of the HMCS Haida, the Tribal Class destroyer that was restored and now sits in Toronto Harbour. As you may recall the radio room was recently restored and this page shows before and after shots of everything. Anyway, here are the sites:

Boatanchors

<http://www.zynet.com/~johnb/>

Contains: info and images of vintage radios including a pictorial and text tour of the HMCS Haida.

VE7TCP

<http://ve7tcp.ampr.org>

Contains: tour of VE7TCP shack and club info on Fort George ARC in Prince George, BC.

VE3NSR

<http://osha.igs.net/~isolomon/nsarc>

Contains: club information for the North Shore Amateur radio club. This page is in its early stages but will be expanding and changing in the near future.

Please send along any sites that you find interesting want to share with the rest of us and I will post them in this column. Well, until next month....happy surfing
Laird, VE3LKS

How I Got Started in Amateur Radio

No one had a story for this month but please send in your personal experiences as soon as possible so we can keep this column going. Thank you.

How to Build an Antenna

So you've decided to build an antenna. Let me share my experience with you so that you can avoid some frustration and save time.

I had considered the copper J-pole but

abandoned the idea because I had no soldering equipment for pipe. Since I don't have a desk vise, I could have really botched up the cuts. As far as I'm concerned, copper pipe is too expensive to muck about with. What other, simple choices are available? A quarter wave, artificial ground plane antenna is really simple to build, especially for 2-metres. At least it looks that way. But a quarter wave shows 75 Ohms resistance at the feed point. My handi is looking for a 50-Ohm resistance. With only two watts I want to get all of my signal out of the antenna. I need to build a balun. The formula says one turn on the input requires 1.5 turns on the output. All I'm missing is a ferrite core and some kind of housing to protect it from the elements. I make the rounds of the stores, looking for the needed items and guess what! They don't exist! Build your own! Adapt! How many thumbs do I see on that hand?

Alright, a half wave antenna shows 50 Ohms at the feed point according to the texts. That's a perfect match and I can skip the balun. Both vertical and radial elements are around 40 inches long, which is acceptable. How do you attach the radials to the base plate? What kind of stress will a sea gull at the end of the radial put on the base plate joint? If I use a longer radial, I can weave it through the base plate and solder it top and bottom each time it passes through. That should handle the stress but how do I make the slits in the plate? Do I need power tools that I don't have? While I pondered on all the impediments I was creating, I soldered the vertical element to an SO 239 chassis mount. It went off without a hitch and made me think the job wouldn't be too difficult, for an accountant. I decided to get a second opinion on connecting the radials.

The first response suggested that the radiator would likely flop around in the wind, putting stress on the connector and eventually breaking off. The quarter wave idea was the way to go after all. I took out the hack saw and trimmed everything down to size. Now I could attach the radials by making an eye at one end and using a bolt, washer and nut

combination to fasten them to the base plate. That was another easy job.

The next step was to paint everything to protect it from the elements and check for continuity. Beautiful, continuity was where it belonged and no circuit existed where I didn't want it. Now I was ready to tune the antenna.

I connected the coax and the radiator fell to the ground. REWIND! What is the vertical element doing on the ground? Did the joint fail? No such luck! It broke inside the fastening. Ralph was right about vibration.

I needed to beef up the design. Maybe I could adapt an 11-metre mirror mount. It won't have to stand up to a full gale 16 hours a day the way it would on a transport and a 2-metre quarter wave is much shorter.

JOTA '95

The enthusiasm of the Wolf Cubs, Scouts, Guides and the North Shore Amateur Radio Club members have once again made the 38th Jamboree-On-The-Air event at Camp Samac, a huge success despite the poor weather conditions. Eighty eight Wolf Cubs, Scouts, 5 Girl Guides and 40 Scouting Leaders turned out to talk to their counter parts around the world.

Station setup started on the Friday before (October 20th) at Kitchie Lodge in Camp Samac. The team -, gathered at 09:00 hours and by 21:00 hours all the antennas were up and tuned.

The setup consisted of 8 antenna systems. The three club towers were erected, one having the 40 meter beam, one having the 20 meter beam, and the third for the 2M and 70 CM isopoles. John VE3VGI built a 10 and 15 meter delta loop for the event. John's 10M was used for the satellite station down link and for HF phone later on in the evening. The clubs 80 meter wire dipole was strung across two high trees at the north end of the building with the help of Earl's fishing rod and casting skills.

Earl provided an all mode HF radio for the 80 meter station. The 40 meter station was a Kenwood 440 provided by Ralph VE3CRK. The 20 meter station was also a Kenwood 440 provided by Fred VE3TIG equipped with SSTV facilities and my portable computer running JVFAX software and interfaces provided by Joe VE3FVH.

The satellite station was provided by Dave VE3AJY. The station consisted of two radios, a 2 meter all mode transceiver used for the up link to the RS10 and RS15 satellites as well as a Heathkit HF receiver used for the 10 meter down link. Satellite positioning was monitored using a notebook computer running a satellite tracking program.

The packet station was provided by Fred VE3TIG. The station consisted of a Kenwood 2M transceiver, an AEA PK232 TNC connected to a Radio Shack portable computer running Lan-Link software.

On 70 CM was my Kenwood TH78 HT mainly for access to the phone patch on VE3OUR (thanks Glen VE3LIZ). There was no JOTA traffic on any of the 440 repeaters that I could find.

Jamboree-On-The-Air is a worldwide Scouting event that brings together 100,000 of Scouts and Guides from all around the world to share ideas, scouting activities and experiences. All of the Scouts and Guides had a chance to talk to other Scouts and/or Guides from various places. JOTA contacts were made as close as the group camping at Greenwood Conservation Area as well as all across Canada and the US including places like Disney World and a US submarine. Long distance contact included places as far away as Mexico, Holland, France, Germany, England, Australia and the Azores Islands off the coast of Africa.

For many of the first time Scouts and Guides it was intriguing to hear the voices on the radios but got tongue tied when it was their turn to talk. The PTT

button and the half duplex nature of the communications was a bit intimidating for a few but was quickly overcome.

Although the SSTV transmissions were not related to JOTA, many of the participants young and old (and club members for that matter) were very interested in this mode of Amateur Radio. With today's computer technology and a very simple interface, anybody can receive SSTV.

For this years event, Fred VE3TIG designed and looked after the printing of the new special event JOTA QSL cards.

Contact logging took a back seat at this years event. The lack of preparation (on my part) showed up in techno-colour when I went to fill out the JOTA QSL cards. The lack of information limited sending everyone contacted a card. Next year I will try to have two operators at each active station - one to operate and one to log (like Field Day).

This years Off-The-Air activities started with building a Bolivian time wheel (world time zone calculator) which sparked several debates about local time, day light savings time, and how can you lose or gain a day by simple crossing some fictional line?

The Morse code straight key and Super Morse was once again a great attraction (who says the code is dead?). All day long the Scouts, Guides and leaders alike crowded around the station with code sheets determined to tap out their names before passing on the key.

The highlight of the Off-The-Air activities was the many Transmitter Hunts during the day. Martha VA3SBD was the elusive fox and did an outstanding job while providing entertainment as well as brain teasing clues as to her hidden location. The hunting teams of 3-5 people were equipped with Handi-Finder radio direction finding gear and a 2 meter HT connected to a amateur. After a 5 minute crash course from Fred VE3TIG on fox hunting and the equipment, and they

were off. Best time was 27 minutes and worse time was - well I think they're still looking! The average hunt time was about an hour.

Overall the day was a huge success. All the Cubs, Scouts and Guides talked to someone somewhere in the world and many new members of the new Amateurs had a chance to see different aspects of the hobby and related equipment in action. Everyone had fun, no one went hungry with the Bill and Ken at the grill! The last group of Scouts left around 23:00 hours and the last station shutdown about 00:30 Sunday morning.

Tear-down team started taking things apart at 10:00 hours Sunday morning and Peter was on his way to park the trailer by noon.

Thanks to all the club and non-club members that came out to support this years event:

Event Operators: Les VA3LTB, Fred VE3TIG, Martha VA3SBD, Earl VE3VVGK, Alex VA3AMP, Charlie VE3UEM, Ralph VE3CRK, Andre VA3AGV, Harold VE3KDK, Stephen VE3SBD, Dave VE3AJY, Peter VE3ZZV, Peter VE3WWZ, Glen VE3LIZ, John VE3VGI,
 Setup Team: Peter VE3ZZV, Earl VE3DGG, Fred VE3TIG, John VE3VGI, Les VA3LTB, Scott Beebe (55th Oshawa), Karl Kennie SWL.
 Tear Down Team: Peter VE3ZZV, Fred VE3TIG, Glen VE3LIZ, Earl VE3VVGK, Howard VE3DKD, Arnold VE3MAN, Les VE3LTB, John VE3VGI, Paul Wytenburg SWL .
 Photographers: Don VE3GXH, Rick Newell SWL
 Cooks: Bill Wilde and Ken Rochett of the Oshawa District Wolf Cub Service team.

A special thanks to Fred VE3TIG for all the time and effort spent on building and testing the Handi-Finders for the transmitter hunts and designing and printing the QSL cards not to mention organizing the hunts and running the 20 M and SSTV stations single handed; to Peter VE3ZZV for welding the new

tower pegs, to John VE3VGI for building the 10 & 15 meter delta loops as well as leading the antenna tuning exercise and to Rick Bryant - Oshawa District Wolf Cub Service Team JOTA coordinator for all his time and effort.

Thanks again to the NSARC JOTA team who helped make this years event the success. I have some great photos! I will have them with me at the Feburary meeting.

Ries VE3UEA

PS: If you didn't get your JOTA crest, please call me ASAP and I will get it out to you.

PSS: If you were at JOTA this year and I missed you in this report - I apologize. Please call me on the land line and I will set the record straight.

A Trux Thought ...

Xvxn though my tyxwritxr is an old modxl, It works quitx wxll. Xxcxpt for onx kxy, that is. Thrx arx 46 kxys that function will xnough, but to havx just onx kxy not working makxs thx diffxrxncx.

Somxtimxs with pxopl, likx with my tyxwritxr, not all thx kxys arx working propxrlly. You may say, Wxll, I am only onx pxrson. It won't makx much diffxrxncx. But, you should say, and you can sxx, thx group, to bx xffxivx, nxxds thx activx participation of xvxy pxrson.

So thx nxxt timx you arx only onx pxrson, rxmxmbxr my tyxwritxr and say to yoursxlf, I am a kxy pxrson, and I am nxxdxd vxry much!

--- Thx Trailsman.

January Minutes

North Shore Amateur Radio Club
Minutes 8 January, 1996

Meeting was called to order at 19:30 by Steve, VE3SBD.

Steve explained that in order for the club

to function in accord with the constitution, it was necessary to have five Directors. There were two vacancies which had not been filled at the November elections and volunteers were needed if the Club wished to continue.

Martha, VA3SBD, and Ivor, VE3JMP, agreed to stand as Directors. Bernie, VE3ATI, moved that nominations be closed, seconded by Charlie, VE3UEM. CARRIED.

The new board will meet before the next meeting to assign the various executive positions.

Earl, VE3VGK, read the treasurer's report for 31 December, 1995. The club is solvent but a chart of revenues shows that the Club is heavily dependent on the HamFest for ongoing expenses. Acceptance was moved by Ivor, VE3JMP, and seconded by Martha, VA3SBD. CARRIED

Howard, VE3TYQ, advised that he and Harold, VA3KDK, are representing the Club at the HamFest meetings. No meetings have been held since they accepted these jobs but Howard has heard that the flyers are being distributed.

Fred, VE3TIG, spoke concerning ongoing efforts to improve repeater coverage into downtown Oshawa. He also indicated that manufacturers were not interested in making presentations to radio clubs. He asked for volunteers to speak about their activities and experiences at future meetings.

Winston, VE3WFS, spoke on his trip to Antigua and the Lighthouse Radio operation during the recent hurricane season. He was also the lucky winner of the 50/50 draw and donated his winnings to the Club.

Bernie, VE3ATI, moved adjournment of the meeting at 21:00 seconded by Ivor, VE3JMP. CARRIED

The Info Page

Executive

President

Vice President

Steve Dinsmore, VE3SBD 571-4716

Treasurer

Earl Matthews, VE3VGK 725-5606

Secretary

Program Director

Fred Bengel, VE3TIG 576-4839

Co-ordinators

A.R.E.S.

Fred Bengel, VE3TIG 576-4839

Special Events Co-ordinator

Ralph Day, VE3CRK 576-8738

Bulletin Editor

Laird Solomon, VE3LKS 434-7339

Bulletin Publisher

Glen Goslin, VE3LIZ 725-1545

Club Historian

Mike Sherba, VE3DKW 723-7674

Net Controller

Roy Miller, VE3AAF 852-5447

Code Senders

Peter Rogers, VE3ZZV 655-5180

Bernie Sandbrook, VE3ATI 655-4156

Registrar

Victor Doty, VE3LNX 983-5831

Get Well Cards

Anne Jones, VE3KWI 324-0638

Nonquon Canoe Races

Glen Goslin, VE3LIZ 725-1545

Field Day

Martha Dinsmore, VA3SBD 571-4716

Instruction

John Nicholls, VE3SII 683-2495

Auditor

Rick Gibson, VE3ASH 434-2886

Lists and Labels

Len Nixon, VA3LBN 985-7120

J.O.T.A.

Ries Wytenburg, VE3UEA 434-5550

Club Inventory

Howard Mugford, VE3TYQ 579-7466

Club Photographer

Don Foster, VE3GXH 985-2668

Club Repeaters

2m	147.120	VE3OSH	Voice
70cm	443.000	VE3NAA	Voice
2m	144.970	VE3USH	Packet

Net and Code Practice

Club Net every Thursday at 1930 with CW practice at 2030 followed by more Net at 2130.

EMO Net every Wednesday at 2030 on VE3OSH.

Informal Nets and Gatherings

Evenings at 2130 hours local time on 3740 +- a few kc you will find a bunch of local rag chewers.

Saturday mornings, 0930, at Mama's Restaurant in the Five Points Mall you can devour some breakfast, coffee, or both and have a chit chat with some of the locals. This is an informal event and discussion topics are totally up to you. Great time to chat about equipment problems, software, etc.

NSARC 1996 Calendar

Feb 12	Meeting
Mar 11	Meeting
Apr 8	Meeting
May 13	Meeting
June 10	Meeting



D.R.A.R.E.O.

Randy Elliot, VE3JPU (905) 427-6853 - Coordinator
Fred Bengel, VE3TIG (905) 576-4839 - Asst. Coord.

Contact the Editor

VE3LKS-1 on VE3USH
VE3LKS@VA3BBS
Isolomon@osha.igs.net
Snail Mail - 171 Thornton Rd. N., Oshawa, ON, L1J 6T4

Meaningless bits of information - this newsletter is laid out using WordPerfect 6.1 for Windows and the original copy is printed on a Brother HL-660 laser printer. Also, if you happen to have any complaints you are more than welcome to become the next bulletin Editor. Seriously, all constructive criticism will be accepted and treated accordingly. If you would like to see more technical articles then get the lead out and get writing. I can write till I'm blue in the face about computers and some of it you can apply to Amateur Radio but it would be nice to see some technical stuff as well.