

# North Shore ARC

Vol. 3 No. 4  
April, 1997

Serving the

VE3CRK  
Ralph Day  
454 Holcan Ave.  
Oshawa ON  
L1G 5X6

## SPRING!!!!

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### Newsletter Deadline

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

### Contributors

Thanks to Mike VE3VCY, Winston VE3WFS, Gary VE3EPY, Ivor Picton VE3JMP, Dino Moriello VE2DM, Harvey Epton VE9HE and Walter VE3FJC for submitting items for this months newsletter.

### VE3CNE

Want a different experience as an Amateur Radio Volunteer? You might consider joining the Canadian National Exhibition Amateur Radio Team. This is a great opportunity for new hams, who would like experience in operating on the lower bands. Volunteers are needed on the station set up team , in assisting the Veteran's Day parade, and in representing our club, on August 30th. Our club day at the CNE, gives you the opportunity of watching the air show, while enjoying a free pass into the exhibition. Keep it in mind. Its fun.

Winston Séeney , VE3WFS

### April Meeting

Our speaker will be **Lorne Novak, VE8MC**. Lorne is a weatherman in Canada's Arctic and will speak on Amateur radio operations in the Arctic.

### Hamfest Date

Our hamfest will be on April 26 this year. They are still in need of a treasurer so if you feel you can help out in this matter please contact one of the Hamfest executive.

### Bulletin by E-Mail

If you would like to receive your bulleting by e-mail instead of by snail mail, please send your request to Laird at

Isolomon@osha.igs.net

### CDN Hams on the Net

Greetings from Dino Moriello, VE2DM, web master for the Canadian Hams on Internet Database.

As the list hits 3000 callsigns, we have only you to thank for the success it has seen over the past few years. Without your participation, the project would have never reached the level of popularity it is seeing today. Amateurs from everywhere are using the list to find fellow ham friends from all across Canada.

In the coming months, I will be modifying the output of the listings on the web pages to make them faster to load and search. This should also increase the stability of the browsers downloading the larger pages ( i.e. VE2, VE3, VE6, VE7 call areas ). Therefore check out the site every once in a while for the new format.

I'd also like to thank all of those who have come back and made corrections to their entry. It's great to see. And don't forget to tell others about our project. We'd like to list all Canadian Amateurs with internet email addresses. Also if you have or know of a club or amateur hosting a web page, drop us a message and we'll include it in on the Canadian WWW Sites page at <http://www.cam.org/~dino/hamcanadawww.html>. The page currently has over 340 canadian amateur radio web sites!

Dino Moriello, VE2DM  
& Harvey Epton, VE9HE

### North Shore ARC

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

The North Shore ARC  
Newsletter is published  
monthly except for July and  
August when it is a combined  
summer edition.

Laird Solomon, VE3LKS  
editor

Glen Goslin, VE3LIZ  
publisher

## GOTA

It was 0745 on a mild Saturday as my wife, Irma VE3BGL and I, VE3TIG arrived at Camp Adamack to find Charlie, VE3UEM already parked in front of the locked gate. It wasn't long before we were let inside and we were able to erect the antennas and assemble the stations. Earlier in the week I had borrowed John's (VE3VGI) beam that was so successful on Akamiski Island. I thought that it would be quicker to erect a beam than a dipole knowing the lack of objects to connect antennas to as flag poles were ruled out by the guide leaders. John offered to give me a hand erecting the beam on Friday night but the rain made this impossible. John suggested that the HF mobile antenna mounted on mag mounts on top of a vehicle roof would be effective and quick to erect in the inclement weather that was forecast for Saturday. In fact once the 20 meter hustler antenna was tuned using the MFJ-259 antenna analyzer it worked flawlessly all day from the top of my van. I also brought along some mast pipe that we assembled to erect a dipole consisting of two ham sticks tuned to the 80 meter band. During the course of the morning we had to adjust these in the now sub-zero weather as the mast was shorting out against the metal eave trough. We decided to operate the antenna on 80 meters as a single vertical and after making the change and clamping the mast to the wooden railing leading from the basement metal it work much better for the remainder of the day. The guides had a number of activities in which to participate. These were: (a) an introduction to ham radio explaining QSL cards, awards, pictures of hams their antennas and stations (b) a uhf/vhf station (c) 20 meter station (d) 80 meter station (e) write your name using the phonetic alphabet (f) write your name using Morse code and practice sending Morse using a straight key and the Super Morse program running on a laptop provided by Ries [VE3UEA] (g) the success and popularity of the VHF station prompted Joe [VE3VGJ] and Kevin [VA3TBH] to put a second VHF station on the air. Fellow hams were

impressed with the compact ingenious mobile station that Kevin. During the course on the day guides spoke to stations as far away as Switzerland as well as to Canadian stations in Ottawa and Brandon, Manitoba. The guides were happy to talk to other guides and some exchanged addresses over the air to become pen pals. Guide leaders were impressed with how successful the event was. I would like to thank the following for their participation:

*Charlie VE3UEM, Martha VA3SBD, Irma VE3BGL, Howard VE3TYQ, Mike VE3VCY, Joe VE3VGJ, Kevin VA3TBH*

For the use of their equipment I would like to thank:

*Charlie VE3UEM, John VE3VGI, Ries VE3UEA, Kevin VE3VGJ*

Fred, VE3TIG

## New Meeting Location!

"Just in case you are have trouble finding or accessing the Red Cross/NSARC meeting room at the Oshawa Centre ..."

For any of you folks who are coming out to the club meeting and have trouble locating the meeting room or locating the elevator or stairs to the meeting room, here is what we will try to do for you.

Any "early-bird" club members (those that arrive prior to the 7:30pm meeting start time) will listen on VE3OSH's frequency for any folks who require directions or access to the meeting room, etc. These members will try to keep listening until about 7:45 pm if at all possible in order to catch any late arrivals.

Now here comes the part that may cause a bit of confusion ...

If you are coming to the meeting and require some directions, when you are driving around the Oshawa Centre, or walking around with your handheld, make a call for someone at the meeting. Set your VHF radio to the frequency of the VE3OSH repeater. (i.e. 147.720 transmit and 147.120 receive) Also, please turn off all CTCSS sub-audible

tones on both your transmitter and receiver to ensure your transmission is heard.

If you are an "early-bird" attendee and are planning to listen for folks requiring directions or access assistance, please do the following. Set your VHF radio to RECEIVE on VE3OSH's INPUT frequency of 147.720 and set your TRANSMIT frequency to 147.120. Remember to turn off all CTCSS sub-audible tones on both your transmitter and receiver.

Is this clear as mud? The reason for the "early-birds" to listen "on the reverse" is because the VE3OSH repeater is pretty well impossible to trigger and hear from inside the meeting room at the Oshawa Centre due to all the metal in the building. By listening on the reverse frequencies, the folks in the meeting room will be able to assist those nearby the Oshawa Centre who are looking for directions or assistance with access.

To summarize:

**"Early Bird" attendees in the meeting room:**

- Set your Receiver to 147.720
- Set your Transmitter to 147.120
- Turn off any CTCSS tones on both TX and RX.

**Folks requiring directions/access:**

- Simply set your radio for VE3OSH's normal frequencies. (i.e. 147.720 Transmit and 147.120 Receive)
- Just to be sure you are heard, turn off all CTCSS tones on both your transmit and receive frequencies.
- Make a call for "anyone at the meeting room location"

Let us ALL make the effort to come out to ALL of the meetings! I look forward to seeing YOU there!

Gary Heagle, VE3EPY

## MORSE 2000 Outreach

*The following article appeared in the February issue of the "FISTS" newsletter.*

This is an exciting program developed by



the University of Wisconsin and John Hopkins University promoting the research and use of Morse Code in rehabilitation and education. They are researching the use of CW as an alternative method of communication to help improve the lives of people with special needs.

MORSEls, their newsletter is published two times a year. The testimonials of people who have severe physical impairments leaving them unable to communicate until they learn Morse is quite remarkable. They use Morse in many different ways, from basic movements such as blinking their eyes to more sophisticated methods like using an optical switch with an infrared beam directed towards the patients mouth. Moving the jaw causes an interruption in the beam of light which activates a switch and sends Morse by turning the switch on and off. They are also working on a "puff and sip" switch for patients whose movement is severely impaired.

One of the Morse 2000 Outreach patients was a brainstem stroke patient with only a small amount of movement. His wife communicated with him by holding his hand and his foot. He squeezed her hand to make 'dits' and extended his foot to make 'dahs'. Using this method he was able to tell his wife that he loved her before he died.

Quoting from an article by Donna McMahan, Speech-Language Pathologist about her work in Kentucky : "The greatest value of Morse seems to be the ability to communicate without computers. Kentucky is a rural state and rarely do people have money of their own to spend on computers and software. Anyone can make Morse Code as long as they can move something somewhere!".

In an editorial by the MORSEls Editor, Thomas W. King, Ed. D., points out that "finger spelling and basic sign language are already taught to many school children as fun ways to help learn letters and numbers.

Visual, auditory and tactile Morse patterns could also be taught as another fun method to add sensory and manage redundancy in the learning of basic literary skills.... Morse Code has played a major role in world communications over the past 150+ years.... and its best days, in helping to meet the needs of many persons with special needs and disabilities, are yet to come! As more teachers, therapists and others realize that Morse Code is simply binary-oppositional movement patterns (push-pull, right-left, puff-sip, etc) that can be learned quickly and easily, the more powerful and useful Morse Code will become in special education, education and rehabilitation.

To be added to the MORSEls mailing list or to request more information, send your postal address to:  
Thomas W. King, Ed. D.  
Associate Professor, Dept of  
Communications Disorders  
121 HHS Building, UW-EC  
Eau Claire WI USA 54702

They can also be accessed thru the Internet -  
<http://www.uwec.edu/Academic/Outreach/Morse2000/morse2000.html> or thru the Fists Web page.

## One Fine Day in Rochester

Hamfests! We all know the quickening heartbeat, the flushed face, the sweaty palms associated with gleeful anticipation as one passes through the entrance to a hamfest. Bargains of the century just waiting to be snapped up from vendors who have no idea of the real value of what they're selling. Ha! Pigeons to be plucked, that's what they are.

Thus, it is with a feeling of triumph that I open my box of trophies in the basement. The accumulated loot from past journeys into far-away lands. Wait a minute. What is this thing? I turn it over and over, but the part? component? gizmo? remains unrecognizable. Not a clue as to its actual or intended purpose. Hey,

underneath. I reach in and pull out the plastic-wrapped Ramsey kit that I bought at the Rochester Hamfest--two years ago! Remarkable. Amazing, actually. What a day that turned out to be...

The previous year, Laird VE3LKS had driven Doug VE3QRM (yes, that's a real callsign) and me across the border. This time it was my turn to provide the getaway car. Doug couldn't make it--something about running in a 25 km race in Hamilton. There's no accounting for taste.

We left Oshawa, as usual, at 0500 on Sunday. Plenty of time to cross into American Territory, invade a Denny's or a Perkin's and hit every bank machine from Buffalo to Rochester. At least, until they started threatening to gobble my card. I'm still indignant that my daily maximum is known in the U.S.

Flush with unicolored money (it must be awful to have to always look at the numbers), Laird and I arrived at the Fairgrounds at 0900. We immediately implemented Standard Operating Procedure. SOP (necessary to avoid SOL) requires one to access the Dome, enter every contest and draw inside, then exit and work the outside tables as soon as possible. This is important because those external hillbillys tend to pack up and leave early on the last day of the Hamfest. Also, it gets hot in the tropics around midday.

The northeast lot, which contains the outside vendors and their dilapidated caravans, looks like the parking area of an abandoned drive-in theatre. It slants up to the east away from the main building, and generally gives the appearance of a tired bunch of carnival barkers who hope you'll buy something, anything. By the third day of the Hamfest, they've been asked every possible stupid question and seem to have no more will to live, let alone haggle. This is when I pounce.

Laird and I have different styles of working the tables, and so tend to drift apart. We keep in touch on 146.52 in

case one spots the other's heart's desire. But he likes the image of normality, exuding intelligence and good humour, laughing and sharing jokes with people. I prefer the nerd look: Baseball cap at the dumbest angle, handi-talkie with speaker mike at the ready in case aliens land. I'm still looking for one of those rubber duckies that clips onto a hat to complete the picture. The easiest marque in the world is someone who's sure you're dumber than he is.

It's always amazed me that junk dumped on the ground is expected to sell. I mean, if a computer is broken open, circuit boards spilled every which way, it has to be in less than operating condition. When one must wade into a pile to look for the only working example, reliability is not assured.

Passing by the heaps of P.C.'s and dented C.B.'s, I zeroed in on the military surplus. A handheld anerometer for only \$75! Part of the gunsight for a tank for only \$150! WWII walkie-talkies that didn't work then, either, for only \$100 each! I gazed steadily at the vendor and his eyes slid away. He knew it was all crap, and he knew that I knew. And I knew that he knew that I knew. One huckster put in his place, at least. I sauntered back toward the Dome, a scalp dangling from my belt. Just to show that I had the common touch and was not above mingling with the great unwashed, I bought something from the friendliest table, a BNC-to-SO adapter.

Inside the Dome where the commercial vendors were, it was stiflingly hot, but thoroughly American. This meant that the sales staff were cheerful, competent and you could buy as much as you could pay for--they weren't out of stock. Laird purchased a frequency counter to help calibrate his HF rig and scan a few transmitters back home. Out of ideas, but desperate to justify my foray into the States, I reached out and grabbed the nearest cellophane package from the Ramsey booth. Of course, a Personal Speed Radar! Only two coffee cans to solder together and I'd be competing with the O.P.P.! Laird smiled, but said

nothing. My eyes slid away.

Exhausting, and being exhausted from, the possibilities of the Hamfest, we drove north from the Fairgrounds toward Oshawa instead of south back to the Thruway. The Lake Ontario State Parkway was beautiful to drive and only an empty tank forced us to abandon it. The sole gas pump in the village of Carleton was self-serve. By now, we needed sustenance. The bumpkin who took our money was sure that there was a restaurant around somewhere. Maybe a few miles south, in Childs. He'd never been there, of course, but he'd heard that they served good food. Driving away, Laird and I felt as though we were on a fox hunt with nobody transmitting.

Then the sky opened, the angelic choir sang, and we discovered the Promised Land: the Village Inn, at the intersection of Routes 98 and 104.

Somewhat dishevelled though we were, we were treated like royalty. A really big table, not the postage stamp some restaurants give to two people. Magnificent baked potatoes, the best sour cream. And any establishment that, unasked, reserves for me the end cut of a prime rib roast deserves a special place in Heaven. For you mere mortals, I recommend the Queen Cut: It's only an inch thick and bigger than your splayed hand. The larger Carriage Cut should remain for those who, like me, can waddle with dignity back to their cars. The chocolate cheesecake is to die for.

Determined to complete the carping of the diem, we set off to discover the identity of that middle finger the Americans stick up at us across Lake Ontario: the Unknown Smokestack, directly south of Oshawa--actually, Wilson Road, if one extrapolates. Laird and I found it 9 km (5.5 mi.) east of Olcott, NY on the north side of Route 18. It belongs to the Kintigh Generating Station of New York State Electric & Gas. The plant has its own railway siding to supply coal. Only six measly wires come out of that place on two sets of towers carrying three cables each. But

from the smoke on some days, you'd swear they were trying to light--er, lite New York City. The stack itself can't be more than 150 feet high.

It was time to make a run for the border. A final surprise awaited us, however, and the most delightful. Baehr's Ice Cream Cottage was only two miles to the west on the south side of the road, and we were helplessly ensnared. My learned friend had the Mud Slide Sundae (ice cream with hot fudge, Nestle's Crunch Bars, whipped cream and the cherry). I fell victim to Muddy Sneakers (chocolate-caramel peanut candies, milk chocolate flakes and a caramel swirl in white chocolate-flavoured ice cream). Force-feeding ourselves, we observed a wonderfully thoughtful touch. Scattered throughout the regular picnic tables were some just the right size for small children to eat ice cream near their parents and feel very grown-up. In addition, a bulletin board on the side of the Cottage was covered with photographs and labelled "Our Ice Cream Family Update". Upon inquiry, I was told that the pictures were of customers and the children who had later been born to them.

We left the Wilderness via the Lewiston Bridge and solemnly declared to Canada Customs that we weren't over the daily limit. The rest of the trip home was uneventful, except that we bypassed the obstacle of Toronto using the Gardiner Expressway, Don Valley Parkway combination rather than the usual 403 or 427 North, then 401 East. This gave us a magnificent view of the Toronto skyline, including the Skydome with its retractable roof and, beside it, the 1815 foot CN Tower (our middle finger to the Americans). I gazed in awe at the world's biggest phallic symbol nestled up against the world's biggest--never mind.

Later that evening after dropping Laird off, I attempted to smuggle my loot into the house under my jacket. My wife said I was walking funny. "Long drive today, dear?"...

**She didn't know the half of it.**

**Mike Maclean, VE3VCY**



## Swap Shop

**Jean Paul, VE3JPT, (905) 723 1811**

Heath Apache & Mohawk with SB-10 SSB adapter, manuals \$300. Looking for best offer or trade for old AM. gear, tube rcvrs., military equip. WW-II. Old Mics. etc.

**Ries, VE3UEA, (905) 434-5550**

Shack Desk 5 ft. wide, two shelves, gray colour, like new \$40. Steel Shack Desk, 5 ft. wide with pedestal cabinet \$75. Handy Finder for fox hunting. Plugs into 2m HT. \$45.

**Walter, VE3FJC, (905) 263-2338**

Commodore 64 Keyboard and P/S \$15.  
Commodore 1541 Disk Drive \$15.  
Commodore 1526 Printer \$15.  
Commodore 1702 Colour Monitor \$65.  
or will sell as a package price.

**Len, VE3LBN (905) 985-7120**

Kenwood Transceiver TS 450 SAT,SSB filter, PS 53 Power Supply,Mic & Manual \$1350.00. P8A Vertical, 8 band antenna, \$175.  
MFJ 1270C Packet Controler \$150.  
Yaesu FT 470 Dual Band HT. 2 battery packs, wall charger, manual \$400.  
ICOM IC 28H 2 meter 45 watt transceiver, T.T. mic, very clean \$300.  
Kenwood TH 78A Dualband Handi, Quick charger, 5/8 whip. \$450. HF mobile Ant. colis for 10 15 20 20 meters \$25. KW Balun 3-30 meg. \$10.

**Howard, VE3TYQ (905) 579-7466**

Smith Corona Typewriter, Model XL-1800 & acc., auto memory correction, word eraser, auto center, bold letters, excellent condition \$100 obo. Compaq computer 286 E 3 1/2 HD plus 1.2 HD 5 1/4 43 Meg Hard drive, VGA Monitor , mouse, windows 3.1, Dos 6.20 \$350.

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

## March Minutes

March 11, 1997

Meeting brought to order at 1930 hours by

Howard, VE3TYQ. He welcomed all the members, there were no visitors.

Membership chair: Les VA3LTB confirmed that the club now had 81 members.

Treasurer's Report: Earl VE3VGK informed the members that there was a total balance of \$8,614.63 which included \$7,400 in savings.

Packet Committee: it appears that certain problems we are experiencing are because the South Pickering site has moved and the beam requires adjusting. Apparently a Toronto Problem.

Repeater Committee: Ralph VE3CRK said that the receiver and pre-amp was at the site ready to become operational. The location for the link repeater was still being worked on.

Hamfest Committee: Howard said that everything was going well though help would be welcomed. Meetings are at the Golden Griddle, Kendalwood Plaza in Whitby at 1930 March 18th, April 1st, 15th and 22nd.

Field Day: Howard VE3TYQ said there seemed to be a mix up in the date. He will look into this and confirm later.

New Business: Ralph VE3CRK brought a HRO receiver donated to the club by Harry Westwood's estate and asked if anyone wished to purchase it. An offer has already been received.

Mike VE3DKW informed the members that Industry Canada had given their approval to retain Harry's call VE3QG for the proposed repeater link, subject to agreement by Harry's wife. Mike VE3VCY said he would follow up on this matter.

Fred VE3TIG has proposed the purchase of two mag mounts and two sets of HF Ham Stick antennas, similar to the ones used for the GOTA event. He thought it would make for easier assembly for these one day events. More discussion to occur on this matter. Fred also made enquiries regarding a Canada Day radio station setup and said there may be a small cost involved. He suggested that we might consider cancelling Field Day to accommodate the greater public interest on Canada Day. To be discussed further.

Kevin VA3THB questioned the high cost of hydro bills at our repeater site. He thought that 300 watts per hour seemed excessive. He suggested further investigation with hydro might be appropriate.

Ike VA3IKE has offered free a gateway service for packet to internet e-mail. Ian VE3IEM and Paul VE3KPB are interested in this hookup and is hoping we could get together on this venture. Equipment required - two computers, TNC, antenna, and coax cable. James VE3ZXQ will donate 100ft of RG213U cable, Laird VE3LKS offered a 386 computer, and Peter VA3PWH offered a 270 meg hard drive. Earl VE3VGK, James VE3ZXQ and Laird VE3LKS have agreed to form a committee to follow up on this.

Ian Smith VE3ITG the Hamfest co-ordinator for the Pickering club has suggested a repeater link between VE3OSH and the SPARC repeater. Ralph promised to look into the matter for a future report.

Ann VE3KWI informed Howard of an upcoming CANWARN weather seminar. This is being put on free to those interested at Sir Sanford Flemming College in Lindsay on Saturday April 19th, 0830 - 1300. If interested, call VE3AAU at (705) 786-3505..room 250.

VE3SZ Scott asked if the club was interested in an award system with RAC and others who might be interested. Scott and Laird agreed to head up this committee. A Presidents Award was also suggested.

Howard VE3TYQ informed the members that GOTA was a great success again this year thanks to all who took part making it a super day for all the Girl Guides that were there. Oshawa, Bowmanville, and Whitby guides went together on this event.

For those members who are not too sure how to get to our new clubroom, we will be monitoring VE3OSH at the meeting to assist from 1900 to 1930 hours.

The 50-50 draw this meeting was won by Ron VE3AIY.

A motion to adjourn from Charlie VE3UEM was seconded by Peter VA3PWH at 2200hours...carried.

Ivor Picton, VE3JMP

# The Info Page

## Executive

<b>President</b>	Howard Mugford, VE3TYQ	579-7466
<b>Vice President</b>	Martha Dinsmore, VA3SBD	571-4716
<b>Treasurer</b>	Earl Matthews, VE3VGK	725-5606
<b>Secretary</b>	Ivor Picton, VE3JMP	579-7194
<b>Program Director</b>	Mike Maclean, VE3VCY	438-8527

## Co-ordinators

<b>A.R.E.S.</b>	Fred Bengel, VE3TIG	576-4839
<b>Special Events Co-ordinator</b>	Fred Bengel, VE3TIG	576-4839
<b>Bulletin Editor</b>	Laird Solomon, VE3LKS	434-7339
<b>Bulletin Publisher</b>	Glen Goslin, VE3LIZ	725-1545
<b>Club Historian</b>	Mike Sherba, VE3DKW	723-7674
<b>Net Manager</b>	Steve Zahorec, VA3SPZ	623-3868
<b>Code Senders</b>	Howard Mugford, VE3TYQ	579-7466
<b>Membership Chair</b>	Les, VA3LTB	571-1458
<b>Get Well Cards</b>	Anne Jones, VE3KWI	324-0638
<b>Nonquon Canoe Races</b>	Glen Goslin, VE3LIZ	725-1545
<b>Field Day</b>	Martha Dinsmore, VA3SBD	571-4716
<b>Instruction</b>	Gary Manser, VE3GLM	623-1108
<b>Auditor</b>	Rick Gibson, VE3ASH	434-2886
<b>Canadian National Exhibition</b>	Winston Seeney, VE3WFS	725-0829
<b>J.O.T.A.</b>	Ries Wytenburg, VE3UEA	434-5550
<b>Club Inventory</b>	Howard Mugford, VE3TYQ	579-7466
<b>Club Photographer</b>	Don Foster, VE3GXH	985-2668

## NSARC Web Site

<http://www.osha.igs.net/~lsolomon/nsarc.htm>

## 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 2100.

EMO Net every Wednesday at 2030 on VE3OSH.

## Club Meetings

The Second Tuesday of every month at 1930 hours we meet at the Red Cross office in the Oshawa Centre. Take the mall elevator by Sears to the second floor. Give a call on 147.120 for directions.

## NSARC 1996 Calendar

Mar 11	Club Meeting
Apr 8	Club Meeting
Apr 26	Hamfest
May 13	Club 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  
 lsolomon@osha.igs.net  
 Snail Mail - 310 Wagar Cr., Oshawa, ON, L1K 2H6

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.