

**NORTH SHORE AMATEUR RADIO CLUB INC.**

P.O. BOX #171, OSHAWA, ONT., L1H 7L1

First Class Première classe

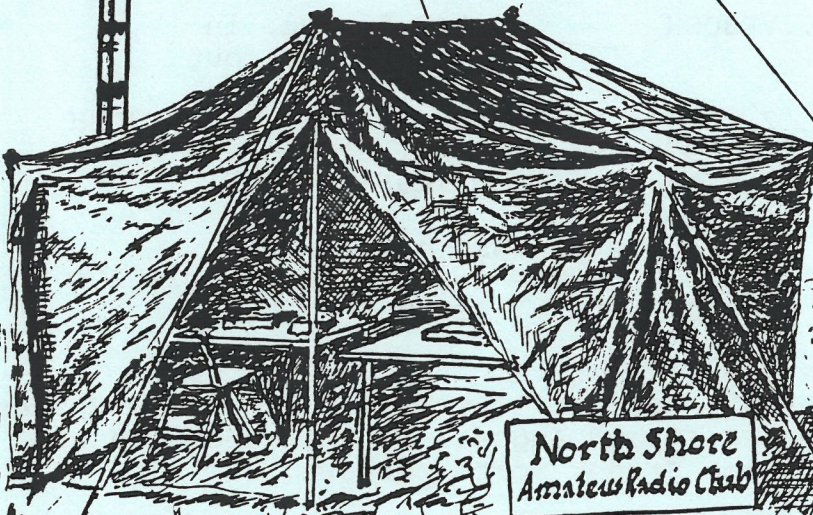


*May*

|                 |      |
|-----------------|------|
| VE3CRK          | 85   |
| Ralph           | Day  |
| 454 Holcan Ave. |      |
| Oshawa          | Ont. |
| L1G 5X6         |      |

NORTH SHORE  
AMATEUR  
RADIO CLUB

# SPARKS



North Shore  
Amateur Radio Club

*[Faint, illegible handwritten notes and scribbles at the bottom of the page.]*



**1985 CLARA AC/DC "MYSTERY" CONTEST**

SPONSORED BY THE CANADIAN LADIES AMATEUR RADIO ASSOCIATION.

STARTS: 0000Z TUESDAY MAY 28TH, 1985

ENDS: 0000Z WEDNESDAY MAY 29TH, 1985

The AC/DC Mystery Contest is open to all YL and OM Amateurs as well as SWL. Each CLARA station may be worked twice, once on CW and once on PHONE, or same mode on two different bands. Exchange name, serial number starting with 001, RS(T), QTH and if a CLARA member. Three unidentified "Mystery" stations will be operating.

SUGGESTED FREQUENCIES: PHONE

28.488 28.588 21.300 14.160 14.280 7.150 3.775 3.900

SUGGESTED FREQUENCIES: CW

28.035 21.035 14.035 7.035 3.690

All contacts must be made in accordance with operator and station licence regulations. No net or list operations, no crossmode. No 10m or 2m repeater contacts.

SCORING: For the base score, CLARA members score one point per contact with non members (whether OM or YL), two points per contact with CLARA members, and three points for each CW contact.

NON-MEMBERS: For the base score count two points for each CLARA contact, three points for CW contacts.

Multiply the Base Score Points by the number of Canadian Provinces/Territories worked for the total score.

The Contest Manager will add ten points to the base score of each log for every "MYSTERY" station contacted.

AWARDS:

CLARA MEMBERS:

1ST Place. "CLARA CUP" and certificate.

2nd. Certificate.

NON-MEMBERS:

1ST place. Plaque.

2nd place. Certificate.

SWL. Certificate.

DX station. Certificate.

All logs submitted are eligible for the Mini prize draw.

LOGS: Single log entry. Logs must show DATE/TIME UTC, BAND, MODE, CALLSIGN WORKED, REPORT AND SERIAL NUMBER SENT, REPORT AND SERIAL NUMBER RECEIVED, NAME OF OPERATOR OF STATION WORKED, QTH and points claimed.

LOGS MUST BE SIGNED. Logs also to show full name, callsign and address of operator, and show final score (points claimed not including mystery stations). Logs must be legible. No carbon copies. No logs will be returned. Decision of the Contest Manager will be final. Logs must be received by the contest manager before JULY 15TH, 1985.

CONTEST MANAGER: Muriel Foisy - VE7LQH

RR#1, PENDER ISLAND, B.C.,

CANADA VON 2MO

FROM YOUR EXECUTIVE...

We thank Mrs. Fortune for finishing the April Newsletter while her OM was in the hospital. We hope that our regular Editor, BILL FORTUNE, VE3NTI will be feeling more perky by the time this May issue is printed. We hear that GLEN, VE3MEU and MILT, VE3QN have also been under the weather, and we hope they are feeling better shortly.

The Flea Market is successfully behind us. The two clubs made more money than ever before. Things went much more smoothly this year, thanks to increased participation by the members of NSARC. Many hands made the work a lot lighter. We are very grateful to all who helped -- especially to our Flea Market co-ordinator, RALPH, VE3CRK, and to PHIL WASHBURN, VE3HAA of the South Pickering A.R.C., who masterminded the whole event.

Several items require the club's consideration. We strongly urge everyone to come to the club meetings: that's where business gets discussed and decided. Upcoming at the May Meeting are the following:

PHONE PATCH FOR OSHAWA EXCHANGE

In an issue of the newsletter last year, BOB, VE3LLE and NEIL, VE3KSP made concrete proposals for putting up the money for a phone patch, and they queried whether anyone else was interested. So far, there has been mild verbal interest expressed by some members -- but zero financial contributions. So, without the participation of this club, VE3LLE and VE3KSP will install a simplex "Smart Patch" at LLE's Oshawa QTH within the next few months, on their own. Use will be controlled by a secret access code. Membership is open to any ham prepared to put up an equal financial stake of the estimated \$700.00 it will cost us. If interested, contact VE3LLE or VE3KSP. If anyone thinks this should be a club initiative instead of a private one, you're welcome to bring this matter up at the next meeting.

PROPOSED CHANGES TO NSARC'S CONSTITUTION

The executive proposes that the club's constitution be amended so that no sum greater than \$250.00 can be spent without a vote of the general membership. This should go a long way to preventing financial fiascos -- at least it will spread the blame around if any should occur! We also propose that receipts be made absolutely mandatory for reimbursement of any expenses made on behalf of the club, however small.

Finally, it would be more sensible if Director's terms of office were two years long. To effect this, part of the Directorship could be elected in alternate years. This would permit some continuity from year to year, with the outgoing President retiring to become a non-voting President Emeritus, Vice President automatically becoming the new President, the Secretary or Treasurer becoming the new V.P. the two additional Directors being elected in alternate years. (Rather like the U.S. Senate). 1986 would be a transitional year between old and new systems, with two of the current Directors retiring, and elections for two new Directors.

These proposals will be put forward in a formal notice of motion at the May meeting for discussion, hopefully to be voted on in June. (There will be a regular June meeting this year.)

#### FIELD DAY

Some interest was expressed in changing the location of the Field Day to take advantage of DAVE VE3LEW's generous offer to host the event on his farm if we needed it. At the last meeting, a vote on this matter, with only 23 ballots cast, gave a slight preponderance in favor of a change, but there was no clear majority of the club's entire membership. Among the people whom we can count on to actually be there on Field Day to do the work, the general opinion seems to be to let things well enough alone. Barring evidence of an overwhelming sentiment in favor of a change by a majority of the actual Field Day participants, we'll be at Heber Down Conservation Area again this summer.

We still need tents, operators, and loggers for this event. Contact the Field Day Co-ordinator, JOE VE3IHS.

#### NEW LOGO

A modern-looking, new logo, designed by COLIN VE3CEU, was adopted by unanimous vote of the membership at the last meeting. We are very pleased with this unique design, which is shown on the cover of this Newsletter. A club name badge, designed by ADAM, VE3ODN, and a distinctive club jacket will soon be available for purchase.

So, we'll look forward to a big turnout at the May Meeting. There's a lot of business to discuss, and it looks like a good technical program will be laid on, too! SEE YOU THERE. 73s

NEIL, VE3KSP, PRESIDENT

For those who like to experiment with various antennae, the article below submitted by STAN HUGHES, VE3MDV, and courtesy of POPULAR ELECTRONICS should prove an interesting one. It will be of value to those utilizing mobile operation.

# INDOOR 20-METER HAM ANTENNA

CONSTRUCTION

BY ROLAND J. MCMAHAN

*Author pulls in overseas contacts easily with 6-ft. home-brew antenna*

**A**MATEUR RADIO contacts from the west of North America to Europe are not unusual on 15 and 20 meters. But when they are made using a 6-ft (1.83-m) long coil of wire sitting on a desk as an antenna, that's something new and different. With just such an antenna, this author was able to contact Northern Ireland, France, and Costa Rica in a few short minutes—which is a little out of the ordinary.

Such an indoor ham antenna will be of great value to apartment dwellers and travellers who do not have the space in which to erect a more elaborate antenna. Add to this the fact that the antenna has a minimum of TVI and a high signal-to-noise ratio. It can be fabricated at a minimum of cost.

**How to Make the Antenna.** To fabricate the indoor antenna, wind 22 turns of #14 stranded wire around the outside of a 2-in. (5.08-cm) inner-diameter plastic pipe. (You can get the pipe at most hardware stores.) The pipe should be 6 ft (1.83 m) long. The preferred type of pipe to buy has holes through it and is used in septic-tank drain-line applications. You can use the holes to tie or hold the ends of the coil.

Other than winding the 22 turns of wire, there are two rules that must be observed when making the antenna: (1) The top turn must form a closed loop and be soldered to assure good electrical conductivity and mechanical strength. (2) When connected to the ground or counterpoise system, the antenna must resonate on the 20-meter band.

The second rule is the only difficult part of the fabrication process because not all ground systems are the same. In this step, you will have to use a dip oscillator to find the resonant frequency.

If you try to use this 20-meter antenna on 15 meters as well, you will find that the response is too sharp for this. However, you can tap the coil five turns up from the bottom to obtain 15-meter operation. Slide the first five turns together so that they are closely wound before completing the 20-meter antenna. The remaining turns can be randomly wound, some

as much as 8 or 10 in. (20.3 or 25.4 cm) apart.

To adjust the antenna to 20 meters, you might try sliding the top four turns close together, about 10 in. (25.4 cm) from the top. Sliding the turns down lowers the resonant frequency, as does close winding. Your own adjustments will depend on your ground system and the local capacity of the ground.

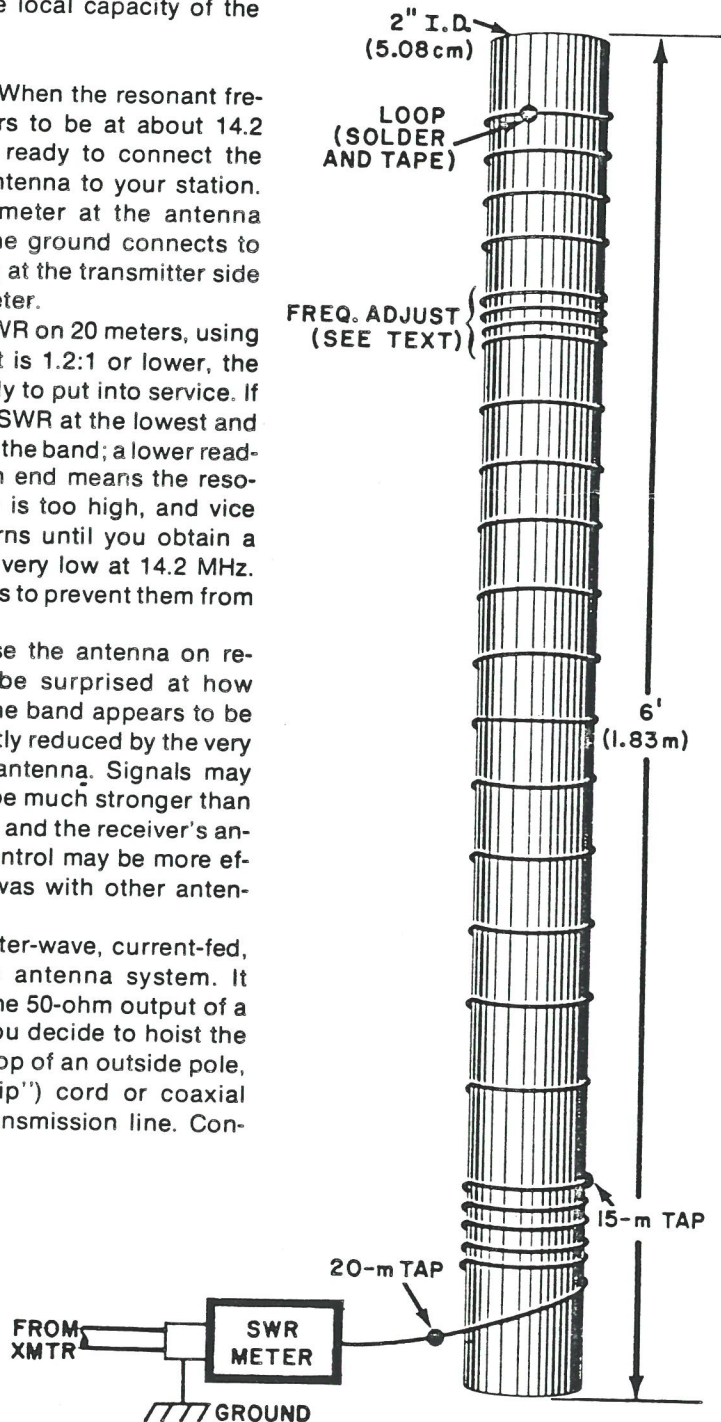
**Final Steps.** When the resonant frequency appears to be at about 14.2 MHz, you are ready to connect the ground and antenna to your station. Use an SWR meter at the antenna connection. The ground connects to the coax fitting at the transmitter side of the SWR meter.

Check the SWR on 20 meters, using low power. If it is 1.2:1 or lower, the antenna is ready to put into service. If not, check the SWR at the lowest and highest ends of the band; a lower reading on the high end means the resonant frequency is too high, and vice versa. Slide turns until you obtain a reading that is very low at 14.2 MHz. Tape some turns to prevent them from slipping.

When you use the antenna on receive, do not be surprised at how much quieter the band appears to be as static is greatly reduced by the very high Q of the antenna. Signals may also appear to be much stronger than you are used to, and the receiver's antenna tuning control may be more effective than it was with other antennas.

This is a quarter-wave, current-fed, low-impedance antenna system. It works best on the 50-ohm output of a transmitter. If you decide to hoist the antenna to the top of an outside pole, use ac line ("zip") cord or coaxial cable as the transmission line. Con-

nect the ground side of the transmission line to the metal pole, and use some ground radials, making each radial long enough to total 17 ft. (5.17m) when added to the length of the pole. Resonance is all-important; so, work with the antenna until it is properly resonant. ♦



THE SCARBOROUGH OLD TIMERS NIGHT APRIL 15, 1985.

Members of NSARC are to be congratulated on their attendance at this function sponsored by the Scarborough ARC. According to ED, VE3FRM, about twelve of our members were present. Apparently it was very well attended with up to one hundred hams being treated to some interesting displays.

ED TAYLOR, VE3FRM, FRED HAMMOND, VE3HC , and LOU VERMOND, VE3BDV all displayed old time/antique/ radio/ham equipment. The C.N.I.B. had set up a station. The ONTARIO TRILLIUMS were showing the history of their QSL BUREAU. The Ontario DX Association, Radio Society of Ontario and the Department of Communications had booths and were handing out pamphlets and information. The D.O.C. also had a video display. SAL, from the Pickering Club had antique Wireless Magazines and there was an auction of old telegraph "Sounders" magazines.

A short play, which showed the development of ham radio from the early days to the present computer technology was well received.

The OLD TIMERS NIGHT seems to have been an outstanding success. Wish I'd been there!

The following letter has been received from our correspondent "down south", DICK, KA2KNZ. It should have been included in the April Issue. Potential "snowbirds" in the near future should find it interesting.

FROM YOUR FOREIGN CORRESPONDENT      DICK RICHARDS, KA2KNZ  
Fort Meyers, Florida.

This winter down in this area has been more active, with hams from the VE3 Area. There have been several calls that were not familiar, but the few that I was able to talk to were from the North Shore Area.

The first surprise was DOUG, VE3NZZ from Norland. It was only this past summer that I missed him when I was there and then he was on two meters and so we had a short visit and I was happy to have met him.

The next was BILL ASHBY, VE3ACO from Port Hope, another interesting QSO. When I talked to GLEN, VE3AEQ, he said that he used to come to the club meetings. AEQ had a schedule with me but the bands did not co-operate.

The other night I heard VE3OKJ, JOHN, and he turned out to be DOUG's father. So the surprises kept coming. However the best one was the tape of the club net night that DON AMIS WA2ACN made for me. It's partial but it was good to hear the voices of many of those whom I know and was the best tonic for my wife and I. So this summer I will be able to get on the net when I get up yonder. VE3FOF will be here to see us.

NEWS AND TIDBITS, MAY, 1985.

### NEWS AND TIDBITS

ART AND GINNY WALKER, (RO and ADV) have just returned from Mexico sporting enviable tans. We're sure they had a very good time!

CHUCK HEWIS, VE3DPH has an eyeball on an unused Bell Telephone pole in his back yard and hopes to get "on the air" soon.

Thanks to ED, VE3FRM for taking over the Thursday Net, April 11th and to DOUG VE3MKC who regularly relieves ROY, VE3AAF for this most worthy chore.

JOHN PLUISTER, VE3FGL has been vacationing in Holland - eyeballing all those QSO's he's amassed in the last year or two.

ROY, VE3OHN, the Program Director is now getting along again after about two months of being under the weather.

### SPONSORS FOR WHITE CANERS

ROY, VE3OHN, is still looking for sponsors. INTERESTED? Why not give him a call at 623-7125.

### OUTDOOR EVENTS

CANOE THE NONQUON - early June. Members interested in contributing their time to this annual event should contact GLEN, VE3LIZ, at 986-4826.

### THURSDAY NET. CONTROL: ROY, VE3AAF

At a recent meeting the membership gave overwhelming support and congratulations to ROY for his excellent handling of this very important net. As JACK, VE3SJ said, "It's the most cohesive factor this club has."

Thanks to PAUL VE3LHZ for the revised Membership List. Thanks to PAUL also for printing the labels for the Newsletter every month.

### CENTRAL ONTARIO FLEA MARKET

The GUELPH ARC, VE3ZM presents the 11th Annual Central Ontario Radio Flea Market and Computerfest - June 1st, 1985 8:00 to 4:00 at Regal Hall, 340 Woodlawn Rd. West. For further information, see T.C.A., April Issue.

### A.R.E.S.

Did you know that we have not had a Co-ordinator for this very important aspect of the ham radio service since BERNIE, VE3ATI retired from this position. ANYONE LIKE TO VOLUNTEER???