S P A R K S

THE NORTH SHORE AMATEUR RADIO CLUB INC.

May 1981 EDITION

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Club Repeater: VE3OSH 147.72 In
147.12 Out

Club Station VE3NSR

NETS:- The 2 Meter Net meets every Thursday at 19:30 local, with Roy VE3AAF at control.

The 10 Meter Net meets Sundays at 10:00 local on 28.200 with George VE3GOU at control.

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N E X T M E E T I N G

Tuesday, May 12th, 1981, in the cafeteria of O'Neill C.I.

TIME: 20:00 local

This is "Old Timers Night". (see also News page). All you new timers as well as the "Loop Modulators come on down and enjoy yourselves. Free Coffee, Raffle for valuable prize(s). It should be a good time for all.

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REMINDER:- This is the same night as the Peterborough club's meeting which has an interesting guest speaker and we have been cordially invited to attend. (see last month's bulletin for more details.

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FROM: NORTH SHORE AMATEUR RADIO CLUB.,
P.O. BOX 171, OSHAWA, L1H 7L1.

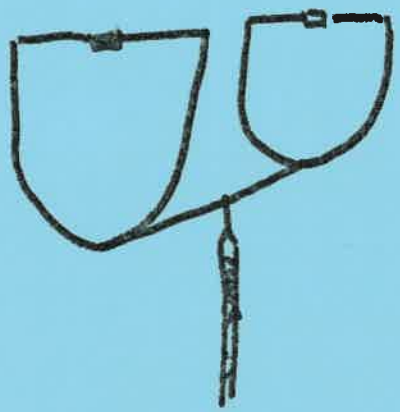
May

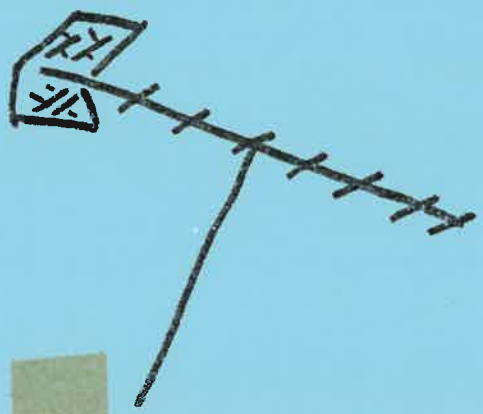
Canada 17

TO:

DAY RALPH VE3CRK
454 HOLCAN AVE
OSHAWA ONTARIO
L1G 5X6

First Class Première classe





N E W S

Those members who have "Worked the Pres." and are due for the award, should make a point of being at the May meeting. At the present time he is holding about six of these documents.

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A "SWAP NET" on the local repeater has been suggested and the operation of such a net will need a manager. Thoses interested please approach the executive.

* *

TAKE NOTICE !!! The May meeting is old timers night. following is a note from Bernie regarding same:

Back by popular demand! Last year we tried it out and from all reports it seemed to be a success, so if you are one of those who have been on the air or licensed for 20 years or more you should be considered to be an old-timer. Hi!

Bring your QSL cards, old gear, keys, rigs, pictures or anything which you consider to be of interest to other club members. We know that the newer hams who have only heard about vacuum tubes would appreciate seeing anything of antique value that used them. Look around your shack and we are sure you can find something of interest to others. As the "FONZ" would say on TV -- "BE THERE".

* *

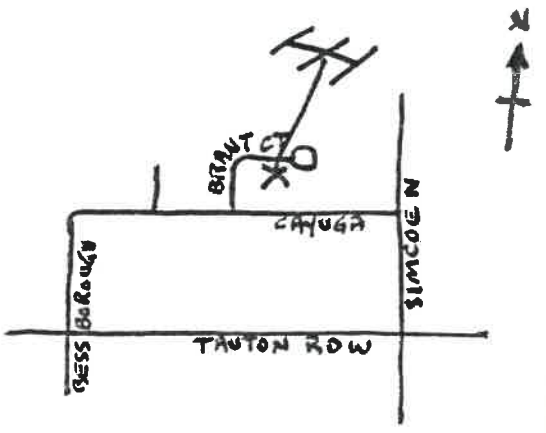
"MINI FLEA MARKET" - QTH: 37 Brant Ct., Oshawa. WHEN: Sat. 9th May. TIME: 0930 to 1400.

This is the QTH of Randy VE3MUR, the host of this affair. Please bring your own table plus all that good stuff you have been planning to sell, swap, or throw on the weekly white truck. There is no charge of course, and there'll be coffee on for those who require it to negotiate those big deals.

Bring anything you have to dispose of. Linears and low-passes, transmitters and traps, meters and money. Remember the day is not really a success for you unless either your trunk or your wallet is empty!!!

In case of poor WX there is the garage and basement available so the Flea Market will be on rain or whatever. Let's have a good turn-out for what could be a continuing affair.

Below is a bird's-eye view of the location:



ndy VE3MUR - Mac VE3IKG.

COMPUTER CORNER

If you had a small micro and it did not come equipped with a Video display unit (VDU), it would be possible to add one and it would need to be interfaced with the micro. It would also be considered to be a Peripheral or external unit and addressed as such. Also, the addition of a printing mechanism such as a Teletype or other form of hard copy machine would be called a Peripheral.

The VDU is necessary if you want to play games as it has the capability of being altered by entering in new data. The hard copy machine is necessary for permanent records such as the retrieval of Auntie Flo's favourite Pecan pie recipe which had been carefully stored away last month. Much of the time a micro would be doing it's job and displaying the pertinent information on the screen and only using the printer for permanent storage of the results.

In a Motorola 6800 such as the swtp (South West Technical Products), there is a chip which is known as a PIA (Peripheral Interface Adapter),. which is easier to say than the words in brackets. It is a parallel to parallel adapter and could be used to produce tones by keying appropriate oscillators or capacitance values on one oscillator if only single tones are required. It could also be used to control household operations etc.

If remote control of a repeater was required, since there are 16 different independent ports (these are two way individual connections, and there are 2-8 port sections in each PIA) 16 different operations could be performed - 16 different ON or OFF functions. Examples would be - TX 1 to TX 2, RX 1 to RX 2 or vice versa in those cases, Power increase or decrease, Proprietary control of the repeater by authorized operators, and since there is a 2 way capability in the PIA,. information can be read back from the repeater which informs the control station of the status of certain conditions up on the hill.

Regarding the household useage of a computer and the PIA, if the necessary connections were made to lighting units, heating systems or even ham radio equipment,. control could be exercised from a central point. Besides control,. necessary monitoring of these units could be performed at the same time. Mechanical relays or solid state units would be necessary and these would be hooked up to the ports.

Since the computer works in a parallel mode, it might be interesting to compare the workings of a PIA to a 7 segment decoder where we control one or more bits on the output of the decoder to illuminate one or more segments of the readout. While it is not exactly the same,. the PIA is addressed by the computer and the output ports are turned on (1) or off (0) as required. Next month we will discuss the parallel to serial adapter or ACIA as Motorola calls it.

Bernie VE3ATI

"HOW TO PUT UP A 15 METER DIPOLE THE EASY WAY"
(And a trick to make it work, when it won't !!!!)

Required: 2-11' 10" pieces of #14 wire, 2-end insulators, 100' of RG58U, and a 1:1 balun.

OK, now you're all set. The actual element length is 11' 2", using 4" on each end for attaching the insulators and balun. I realize this is a very basic antenna that may be found in any radio handbook, so it should work. But mine doesn't. When I couldn't get my SWR bridge to come off 6:1 the immediate thought was to start pruning. However, after hours of climbing, loading, and pruning with no results I decided to change course. The next step was to check the coax by putting a dummy load at the end of the line. The coax checked out with a 1:1 SWR.

Step two was to bypass the balun. At this point I thought I had it. The SWR was 3:1.

The thing that puzzled me was that the balun was fresh out of the package and I was only using a couple of watts to test the antenna, so the balun couldn't have burned out.

I felt I was on the right track now, so I started to prune again. It didn't work. The match wouldn't come down. At this point the wire was getting short, about 11' 1-1/2". I didn't know what to do.

For some reason I got the idea to re-check the balun, so I dug up an old piece of RG59U coax about 45' long, and connected both pieces to the antenna, one to the balun and one to the antenna. Well, the SWR meter didn't move. I tested the other line and the SWR still didn't move. This is great, but will it get out? YES!!!

So, at present the 100' of RG58U is connected to the antenna and the 45' of RG59U from the balun to nowhere, acting as a stub or cancelling out the faulty (?? ed.) balun.

I took the antenna down and put it back up again but in the process altered the 45' of coax by a couple of inches. The SWR is now 2:1 but I will add a couple of inches back on to it and it'll be back to 1:1 again.

I don't understand fully why this antenna works well with a stub but I will say this, it is flat SWR across the full band. No matter what the SWR is it will remain constant top to bottom of 15 meters, until any adjustment is made to the matching stub length.

One thing I would like to try in the future is to terminate the stub with a variable capacitor and if necessary a coil to see if I can't alter the stub enough to load a simple dipole on all bands. I realize this is similar to an antenna tuner but feel by tuning the stub, the SWR between the transmitter, coax line, and the antenna, would be low, where, with a conventional tuner the SWR from the tuner to the line and antenna is still high.

WHAT DO YOU THINK ???

Randy VE3MUR.

SELL - SWAP - BUY

FOR SALE - Heath SB-102 transceiver. c/w AC & DC p/s. Excellent condx. A bargain at $500.00 firm.
Try Cliff VE3ENR at 655-4329

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FOR SALE - DX-160 and/or SX-190. Negotiate with:
Brian Chown 725-5943.

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FOR SALE - R1155 rcvr. 75Khz.-18Mhz. Audio amp. built-in. Less p/s and speaker. $45.00. Also, Measurements Corp. sig. gen. $20.00.
Contact Ed VE3FRM at 985-3790.

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FOR SALE - Dentron MLA 2500. 160-10M. Used only 2 hours. Cost $1819.00 asking $1300.00.
Contact Ray VE3RP at 839-3051

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FOR SALE - Heath linear SB230. 1KW. Must be seen to be appreciated.
Call Hessel VE3FAT 728-5227.
(after 17:00)

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FOR SALE - HY-GAIN TH6DXX tri-bander. Brand new in the crate. Asking $400.00.
Call Tom VE3MEZ or Merry VE3LEF at 579-4480.

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FOR SALE - DX-150A All-band rcvr. $100.00.
Contact Les at 623-7338.

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FOR SALE - Kenwood TS-120S transceiver. 200W input, solid-state. $850.00.
Call Bill VE3KZL at 263-2969

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FOR SALE - Please contact Hank VE3FHV for items too numerous to list here. You can arrange to see these by contacting him at 668-5811, ext.259, or have him paged if he is not there.

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WANTED - "XTALS" for any HF band. Building QRP xmtr. Buy or swap.
Contact Randy VE3MUR 579-4577.

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FOR SALE - 4 drawer steel file cabinet. Approx. four feet high. Excellent condx. $50.00.
Try Al VE3LUS 725-5620.

- -

FOR SALE - Bearcat 250 Programable , Excellent condx.
Call Dave at 985-3553.

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