

ANNOUNCING

The BIGGEST Amateur Radio Flea Market In Canada!
The NINTH Annual

DURHAM REGION AMATEUR RADIO AND COMPUTER FLEA MARKET

Organized by: South Pickering A.R.G., VE3SPC

North Shore A.R.G., VE3NSR

Date: Saturday, April 7, 1990
9:00 a.m. to 2:00 p.m.

Location: Pickering High School

Church St., Pickering Village, Ajax

Admission: \$4.00

Superprize: Tickets \$1.00

VENDORS

Doors open 7:30 a.m. (Vendors Only)
Tables \$10.00 + admission
Reservations are payable to:
South Pickering Amateur Radio Club
P.O. Box #53
Pickering Ontario
L1V 2R2

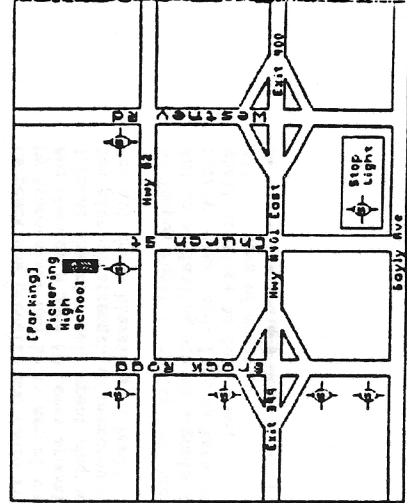
INFORMATION AVAILABLE FROM:

Ron Brown, VE3MZ,
(416) 839-3711
Clem Adams, VE3MVD
(416) 668-7590
Bob Scott
(416) 675-7314

TALK IN FREQUENCY

VE3SPA Input 147.975 Output 147.375
VE3OSH Input 147.720 Output 147.120

**DOOR PRIZES
CONTESTS
REFERENCES**



The

Hamilton

Amateur

March 1990

(Established 1932)

Using Packet!

Packet Radio:

A USER perspective

You've heard technical details

But what do you DO with it?

Meeting: 21 Mar 1990
Nash Auditorium

HARC EXECUTIVE FOR 1990:

PRESIDENT: VESJTO
PAST PRESIDENT: VEHTC
1st VICE PRESIDENT: VESOCY
2nd VICE PRESIDENT: VESONX
SECRETARY: VESDKJ
TREASURER: VESNYC
MEMBERSHIP: VESOOQ

Michael Spenuk 399-1760
Dave Rypma 689-3014
Don Grazlano 560-1960
Jim Walsh 689-6839
Keith Johnson Autodial 19
Paul Hazen 664-5247
Fiore Manga 560-6329

HARC COMMITTEE CHAIRPERSONS FOR 1990:

AWARDS & CONTESTS: VESAAH
HISTORIAN: VESBGL
PROPERTY: VESARX
BULLETIN EDITOR: VESON
EDUCATION: VESFHQ
EMERGENCY COORD: VESNYC
FIELD DAY COORDINATOR: To be Announced
FLEA MARKET: VESNYC
HEALTH & WELFARE: VESGFE
PROGRAMS: VESOCY
PUBLIC LIASON: VESGCP
HOSPITALITY COORD: SWL
CHRISTMAS DINNER PLAN: VESOOQ
SWAP NET CONTROL: VESDKJ
REPEATER: VESJTO
TECHNICAL: VESOCY
VESDC LICENCEE: VESFHQ
VESNCB LICENCEE: VESDSP
VESRCB LICENCEE: VESFDK
CODE TESTING: VESCIIB &
VESBK &
VESBFF

Gordon Barber 399-9161
George Olenick 383-7338
Bill McCaslin 634-5190
Jim Walsh 689-6839
Glen Gibson 385-2786
Paul Hazen 664-5247
Paul Hazen 664-5247
Stan Bollbruch 528-4002
Don Grazlano 560-1960
Fred Robinson 575-5197
Gerald Crawshaw 385-2789
Fiore Manga 560-6329
Autodial 19
Michael Spenuk 399-1760
Don Grazlano 560-1960
Glen Gibson 385-2786
Glenn Simpson 385-8478
John Kassay 385-0422
Bob Willson 383-2054
Norm Smith 385-5661
Jim Flintoft

FROM THE BULLETIN BOARDS - 1

HR BULLETIN 4 (PACKET CRLE0004) FROM CRRL

LONDON, ONTARIO,
1990 FEBRUARY 04,
TO ALL RADIO AMATEURS

- 1 Early January 22, two new UoSATS and four new Microsats were launched from Kourou, New Guinea. They are now in orbit around the earth. UoSATS 14 and 15 are for experiments and research. The Microsats, OSCARs 16-19, are for more general use. PACSAT, LUSAT, and WEBERSAT, with downlinks in the 437 MHz range, have store-and-forward packet radio capability. DOVE which will be programmed to transmit a message of peace, has a 2-metre downlink on 145.825 MHz FM. At press time, DOVE was sending telemetry at 1200-bps FM packet. All six satellites are in essentially the same sun synchronous orbit, resulting in two or three passes each evening at approximately 10 p.m. local time.
- 2 South of the border, the FCC has issued over 240 notices of violation to US amateur stations for transmitting outside of the US phone bands. Amateurs stations were cited under Section 97.305C of Part 97 of the Rules, for January 2-13 operations related to the Bouvet Island DXpedition. Most of the violations were on 20 metres.
- 3 Still south of the border, the FCC has told key US amateurs who use 20 metres for international phone patches and bulletin transmissions to work up a plan to prevent future complaints, or be the ones blamed by the Amateur Radio community for restrictive regulations that could ban certain kinds of nets, phone patching and all bulletin transmissions. FCC has asked that the plan be submitted by 1990 July 1.
- 4 Two notes from Ottawa: Amateurs at Ottawa's Carleton University are operating packet radio at 56,000 bits per second. And Ottawa ARC's ten metre beacon, VE3TEN, is once again operational on 28.175 MHz.

HR BULLETIN 5 (PACKET CRLE0005) FROM CRRL, LONDON, ONTARIO,
1990 FEBRUARY 11,
TO ALL RADIO AMATEURS

- 1 Garth Hamilton, CRRL representative on the ARRL DX Advisory Committee (DXAC), reports that 1989 was a busy year, with votes on several new DXCC countries and a recommendation that contacts on WARC bands count for DXCC credit. This recommendation was approved at the recent ARRL Board meeting.
- 2 1990 is the 200th anniversary of the Bounty mutineers landing on Pitcairn Island. To celebrate this event, Pitcairn amateurs, several of whom are descendants of the mutineers, will use the special call sign VR200PI followed by a slash and a personal call sign suffix (e.g. VR200PI/TC). Amateurs who contact Pitcairn stations during 1990 are eligible for a special certificate.

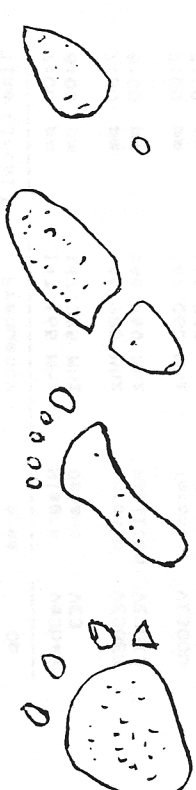
Correction
The Round the Bay race is March 25. I had an incorrect date in the last Bulletin.
The Salvation Army Red Shield Appeal Day is May 7. To participate in either of these events call Fred VE3GCP, 575-5197.

Our club turn at VE3CNE will be opening day and the Sunday of the last weekend in August. Fiore, VE3OQG is our rep and will be pleased to hear from those who wish to take part.

Home Brew night is the May meeting. There is a lot of time to get your project finished. Will the winner come from the class that Don, VE3OCY is giving?

Anyone interested in conducting the check in net on 2 meters, Tuesday at 7.30 pm, whether for one night or more, call Stanley, VE3GFE

The Southern Ontario Packet Repeater Association has sent us a notice of meeting, April 21, in the Green Room, Arts Resource Centre, Queen Street, Oshawa. Talk in will be on VE3OSH, 147.12 up 600. More information will be at our next meeting.

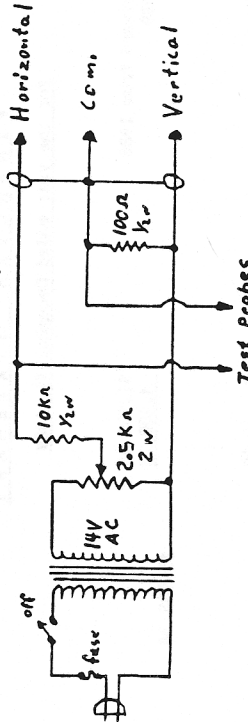


THE EVOLUTION OF AUTHORITY

From the Niagara Peninsula ARC Bulletin

ELECTRONIC COMPONENT TESTER

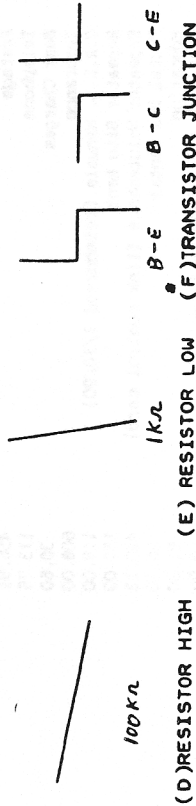
Here is the schematic diagram of the component tester attachment for an oscilloscope. This is the one that was demonstrated at the January meeting. The unit is very simple and components or layout are NOT critical. Connect it up to any oscilloscope that has a vertical and horizontal inputs. The transformer can be any low voltage type 9 to 18 vac, 20 ma or more. The traces shown may vary slightly from the ones viewed but with a little practice you will find it a handy tool to test components in and out of circuits.



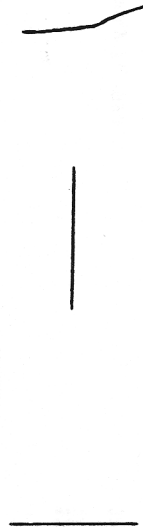
(fig.1) an AC type wall adapter can be used for T1 (no rectifier)



(a) GOOD DIODE (b) GOOD ZENER (c) GOOD CAPACITOR



(d) RESISTOR HIGH (e) RESISTOR LOW (f) TRANSISTOR JUNCTION



(g) SHORT CIRCUIT (h) OPEN CIRCUIT (i) BAD DIODE

If you need any more info see me at the club meetings, 73 Don VE30CY.

FROM THE BULLETIN BOARDS - 3

BULLETIN 7 CRRL 1990 FEBRUARY 25.

- 1 DOC has announced that, as part of the federal government's deregulatory initiatives, users of the General Radio Service (27-MHz Citizen's Band or CB) will no longer require a radio licence. This change takes effect on 1990 April 01.
- 2 Prefix hunters, take note: To commemorate the 25th anniversary of the Maple Leaf flag, the Maple Leaf Radio Society of Listowel, Ontario, has received permission to use the special call sign CF25A until April 15. To publicize the Newfoundland and Labrador Winter Games, SONRA, the Society of Newfoundland Radio Amateurs has received permission to use the special call sign VO9WVG until March 03.
- 3 South of the border, the US FCC is proposing to eliminate the present Novice and Technician licences and replace them with a new entry-level Communicator licence. According to an FCC news release, there would be two versions of the Communicator licence: a no-code version giving privileges on 220 MHz and above, and a code version giving privileges similar to the present Technician licence. Current Technician privileges include CW in the US Novice bands, and all-modes on 50 MHz and above. Holders of the Communicator licence would be limited to 200 watts PEP. FCC stated that the new licence would fulfill three major objectives: it would meet the needs of those who find CW a barrier to entering the US Amateur Service; it would be easy to implement into the current licensing structure; and it would avoid negative effects on present holders of the US Novice and Technician licenses, whose privileges would be grandfathered.

BULLETIN 8 CRRL 1990 MARCH 4

- 1 AG2L Newfane (Lockport), New York, has become the first US repeater to join the VE3ULR repeater network. The VE3ULR network, centred in Aurora, Ontario, just north of Toronto, now links repeaters in sixteen locations, from as far west as London, to as far east as Kingston and as far north as Midland, Ontario.
- 2 Most Lithuanian amateurs are now using the LY prefix assigned before World War 2 instead of UP. The suffixes of Lithuanian call signs appear to be unchanged. A new Lithuanian QSL bureau has also been established, operating separately from Box 88 Moscow. Address is Box 1000, Vilnius 232001, Lithuania, USSR.
- 3 Look for VO1MD during International Marconi Day, 1990 April 21, operating from Cabot Tower, Signal Hill, St. John's, Newfoundland, site of reception of the first transatlantic radio message nearly ninety years ago.

UPCOMING EVENTS:

Bermuda Contest	March 17-18
CLAPA AC/DC Contest CW	March 20-21
CQ WW WPX Contest phone	March 23-24
CLARA AC/DC Contest phone	March 27-28

The Swap Shop: For Sale - 2

- VE3WMT DAVE**, 613 332 4811 AFTER 5:00
 o BARKER AND WILLIAMSON ANTENNA TRAPS, ONE PAIR FOR 20M, ONE PAIR FOR 40M, 1000W CW/2000W PEP BOTH PAIRS \$85
- VE3SML ANDY**, 519 443 4352
 o ICOM IC 04AT, CM73 1000MA-HR 13.2V BATTERY PACK, LEATHER CASE, BM70 1 HR FAST CHARGER \$350
- VE3GFE STAN**, 528 4002
 o COURIER MOD GRS BSE UNIT \$150
- VE3SMF STUART**, 628 4131
 o HEAVY DUTY COMMERCIAL RADIO DESK, 30X70", 19" RACK MOUNTS, MAIL SLOTS, PLEXIGLAS TOP, LOCKABLE COVERS, GREY \$NEG WILL DELIVER

The Swap Shop: Wanted .

- To list items:** VE3NCF (146.76) Tuesdays 8 pm,
 OR Call Ralph (VE3BYM) 388-6146 or Keith VE3DKJ (autodial 19),
 OR leave message on the VE3DC Packet BBS (145.050 MHz).
- VE3BLG GEORGE**, 388 7338
 o SEVERAL 4 OR 5 MILLIAMPS, 6KV DIODES
- VE3RLM PAT**, 519 824 4584 GUELPH
 o JULY 1980 '73' MAGAZINE

**The Hamilton Amateur
 Adverting Rates - 1990**

Issue	Year
1/4 Page	\$15.00 \$75.00
1/2 Page	\$20.00 \$100.00
Full Page	\$25.00 \$150.00

Sizes are based on an 8.5 x 11 inch page reduced to 4.25 x 5.5 inches (approx). Arrangements can be made to produce your artwork or you can provide camera-ready copy. Note that there will be extra charges if you provide the paper (Originals are photo-reduced and printed as part of the Bulletin).

One year is 10 issues (January to June and September to December).

FROM THE BULLETIN BOARDS - 5

- ITEM 6:** CCCP News, effective 1 January 90. The 160 metre allocations in the USSR have been changed to: 1830-1930 CW 1840-1930 SSB 1900-1930 AM
 This allows access to the DX window: 1830-1850 kHz
- ITEM 10:** AMATEUR RADIO NOT YET MENTIONED IN CANADIAN WARC'92 PREPARATORY DISCUSSIONS. The various sub-committees of the Canadian Preparatory Committee for WARC'92 have held their first meetings. ITU Amateur allocations and regulations were not involved in the discussions which were largely about the organization of their work. Look for further reports as work progresses.
- ITEM 11:** BAND DEREGULATION AHEAD OF RESTRUCTURING REGULATIONS. The new regulations for the deregulation of the Amateur bands have cleared DOC and are now being reviewed by higher echelons of government. Since these regulations require Governor-in-Council (Cabinet) approval under the Radio communications Act, it is not possible to say when they will be out. We should see them before the restructuring regulations, which will follow along later in a separate package.

8 February 1990

ITEM 8: NINTH ANNUAL DURHAM REGION AMATEUR COMPUTER AND FLEAMARKET SATURDAY 7 APRIL '90. 0900hrs, Pickering High School, Church Street, Pickering, Ontario. Admission \$4. Info: VE3WZ, Ron Brown 1-416-839-3711, talk in: VE3SPA and VE3OSH

ITEM 10: CARF CANADAWARD: this colourful certificate is available for 2 way contact with all Canadian Provinces and Territories on any single Amateur Band. Send SASE to CARF HQ for information and application form.

15 February 1990

ITEM 2: AMATEURS WILL NOW HAVE TO GET THEIR TOWER CLEARANCES DIRECTLY FROM TRANSPORT CANADA. The Department of Communications (Communications Canada) will no longer be involved in the approval of antenna supporting structures with respect to the safety of aviation & aircraft. It will be the responsibility of an Amateur to get the necessary approvals that his tower does not constitute a hazard to air navigation directly from the nearest Department of Transport (Transport Canada) Aviation Group Office.

The sub-critical criteria haven't yet been standardized across Canada by Transport Canada but it looks as though they will not be interested if an Amateur's supporting structure is under 50 feet within three kilometres of an airport or under 75 ft elsewhere.

However, Communications Canada still retains the power to control the location and height of antennas to ensure good spectrum management. ...garbage deleted... The General Radio Regulations have been amended to remove the requirement that

Jerry, 544 7770

- o Old kitchen cupboard suitable for shop or garage to use for stock and parts

VE3BYM RALPH, 388 6146
 o Schematic for Hallicrafter 577A
 o Manuals/schematic for Hallicrafters S53A
 o Manuals/schematics for Lysco Transmaster CW Xmitter

VE3OZY RICK, 544 3253
 o QSY'er for ICOM 735

VE3NEY PHIL, 416 878 0371 MILTON
 o Schematic for Hallicrafters HA1 Keyer

FROM THE BULLETIN BOARDS - 6

Communications Canada not issue a radio station licence until the associated antenna structure is approved by Transport Canada.

These changes apply to all radio services except broadcasting.

Full details can be obtained from your local District office of Communications Canada: ask for CLIENT PROCEDURES CIRCULAR CPC-2-0-02 and the application forms for supporting structure approval. Transport Canada still does not have any circulars describing the new procedures but it has standards covering the painting and lighting of supporting structures.

1 March 1990

ITEM 4: As of 1 March 1990 licences and call signs will no longer be required for the General Radio Service. However they will still be subject to Regulations in terms of not creating interference nor using profanity.

ITEM 5: SMITHS FALLS, ONTARIO, ARC FLEA MARKET: Saturday 5 May 1990, 0900 hrs, Lombardy Agricultural Fairgrounds, Highway 15, 4 miles south of the Falls.

NOTES from HARC

Christmas 1990

Fiore Manga, VE3OQG, will be organizing a Christmas bash for the December meeting this year. His message? Get ready for Christmas! Lets have some fun and really do it up right! If you have any ideas for a successful event or would like to help, give Fiore a call; he'd be very pleased to get your help and input.

VE3BOJ

Congratulations are in order for *John Holland*, VE3BOJ. He just celebrated his 90th birthday. Best wishes John, and may you have many more!

Emergency and Auto Patch Labels

You will notice that enclosed with this bulletin are a couple of sticky labels, one with autopatch emergency numbers and another with patch usage instructions. The best place to put these are on the back of your membership card. To complete the information, you might want to write your mailbox/autodial number on it. If you're not sure what it is, pick up the envelope in which this newsletter came and check the mailing label; the mailbox number is the one on the bottom right hand corner after the call sign. This number doesn't appear on complementary copies to clubs and other organizations and if you see a zero, you don't have a mailbox number on the repeater.

de VE3HTC

The Swap Shop: For Sale - 1

To list items: VE3NCF (146.76) Tuesdays 8 pm,
OR Call Ralph (VE3BYM) 388-6146 or Keith VE3DKJ (autodial 19),
OR leave message on the VE3DC Packet BBS (145.050 MHz).

VE3FBK EARL, 519 426 5424
o IC215 2M TRANSCEIVER, 15 CHANNEL CRYSTAL, 3 WATTS, NICAD CHARGER,
EXTRA ANTENNA, MANUAL \$125

VE3BYM RALPH, 388 6146
o REALISTIC PRO 2011 SCANNER, 20CH COVERS 30-54, 138-174, 380-512 MHz
\$180
o SONY 5" B+W T.V. 12V DC \$TRADE OR NEG

VE3LWM MIKE, 772 3292 CANFIELD
o VAESU FT73R MICRO 440 HANDLE, 2 ANTENNAS, 2 BATTERIES, WALL CHARGER,
TTP, DC-DC CONV, CTCSS INSTALLED, DROP IN CHARGER, ENCODE +
DECODE \$375
o REALISTIC TRC203 GRS 4CH HANDHELD WITH CARRYING CASE, 1.5 WATTS \$35

VE3RNR DAVE, 689 3288
o DIABLO DSY WHEEL PRINTER, TRACTOR FEED, EIGHT WHEELS, 4 PRINTER
RIBBONS, KEYBOARD CAN BE USED LOCALLY \$200 OR TRADE FOR MOBILE RIG
VE3IHN IVOR, 233 9019
o ICOM 751A WITH PS15 PWR SUPPLY COST 2633 NEW, COMES WITH 6 MONTH
UNCONDITIONAL WARRANTY, VIRTUALLY NEW \$1795
o HEATHKIT SB610 STATION MONITOR MINT \$125

VE3OZY RICK, 544 3253
o 300W DUMMY LOAD \$20

VE3VFR NORM, 388 2940
o 1987 N.A. CALLBOOK \$5

VE3KYO JOHN, 416 774 6867 DUNNVILLE
o FT23R MICRO, TTP, FNB10 BATT PACK, WALL CHARGER, CTCSS, EXTENDED
FREQUENCY MOD DONE \$350

VE3DHB JOHN, 847 7957 OAKVILLE
o VISUAL 55 TERMINAL FOR PAC RADIO WITH DETACHABLE KEYBOARD,
PROGRAMMABLE FUNCTION KEYS, AUTOBLA SCREEN, RS232 INTERFACE,
OP+SERVICE MANUALS MINT \$100

FROM THE BULLETIN BOARDS - 4

Durham Region (ON) Fleamarket April 7
 Ottawa Valley Mobile RC Spring Fleamarket April 21
 CRRL QST QSO Party phone April 21-22
 Dayton Hamvention April 27-29
 CRRL QST QSO Party CW April 28-29
 Winnipeg Spring Fleamarket April 29

73 DE VE3GRO CRRL, BOX 7009, STATION E, LONDON, ONT, N5Y 4J9

CARF News Bulletin 03-90

1 February 1990 issued at CARF Headquarters
 P.O. Box 356, Kingsion, Ontario, K7L 4W2
 Editor: B.H. Burdshall, VE3NB

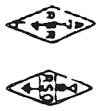
Selected Packet Bulletin Items (edited by VE3HTC):

ITEM 2: LAST MINUTE AMATEUR LICENCE FEE INCREASE ANNOUNCED. In December 89, Canada Gazette Part II carried a DOC item revising the licence fee schedules for many radio services including the Amateur Radio Service. While fees for many other services were increased the Amateur licence fees were left untouched. Since Part II notices report Government decisions rather than proposals, we took this as final for the year 1990-91 and reported that Amateur licence fees would not be raised. In a January item in Canada Gazette Part I, DOC, acting on instructions, has just proposed for the year 1990-91 to raise the Amateur renewal licence fee to \$22.00 and the issuance fee to \$29.00. The short term fees will be increased accordingly. Many other radio licence fees are to be increased too, a few as much as 250%. Some allowances will be made for the lateness of the Gazette notice. Since the last Amateur licence fee increase was in 1984 and this amounts to an annual increase of much less than the cost of living, DOC is not expecting much reaction from Amateurs.

ITEM 3: AMATEUR RADIO COMMUNICATIONS FOR FIT-TREK BOGGED DOWN IN THE SOVIET UNION. We have been trying to obtain the name of an Amateur in the Soviet Union, his callsign, preferred operating frequency and times, who could act as a coordinator for their end of the Amateur Communications in support of Fitness Canada/Goscomsport winter exercises, described in an earlier CARF bulletin, #2-90, Item 1. We have just been told by Fitness Canada that the efforts of Goscomsport and Soviet Amateurs have bogged down. Goscomsport has recently been made self-financing. The Soviet Ministry of Communications now says that the Ski-Trek arrangement is no longer a precedent and is trying to make Goscomsport pay for all their communications. We will keep you informed regarding efforts made to get things going.

ITEM 5: The CARF Directory of Canadian Repeaters is now available. Check out the new look at the CARF table at your favourite hamfest or fleamarket.

THE HAMILTON AMATEUR RADIO CLUB, INC.



VE3RCB VE3DC VE3ANCE VE3MBR
 P.O. Box 253
 Main Post Office
 Hamilton, Ont.
 L8N 3C8



FINANCIAL STATEMENT
 For the year ended December 31, 1989

RECEIPTS:

Carried forward from 1988	\$1,535.65
Revenue 1989	4,400.73
TOTAL	\$5,936.38

DISBURSEMENTS:

Health & Welfare	\$ 10.00
Awards & Trophies	46.89
Refreshments	144.73
Promotion & Advertising	16.17
Miscellaneous	20.61
Field Day	80.00
Club Equipment (towers)	170.00
Licences	60.00
Bulletin	885.03
Office Supplies	54.50
Red Cross Building Supplies	6.27
Postage	456.91
Telephone	113.76
Bank Charges	30.60
Insurance	608.00
C.R.R.L. Manuals (reimbursed 1/10/90)	119.00
Repeater Site Rent	150.00
Repeater Maintenance (link control card)	420.12
Postal Box Rental	26.20
Education	91.00
Christmas Party (1988 balance)	5.06
TOTAL	3,514.85

BALANCE ON HAND

Bank Balance as of January 1, 1990	\$2,421.53
TOTAL	\$2,421.53

Auditor's Report - February 15, 1990

Deposit slips, bank statements and account books have been compared and all monies accounted for. I believe this report accurately reflects the Club's financial picture.....BERNARD GRANBY, VE3BXY.

FROM THE BULLETIN BOARDS - 2

- 3 Plan to participate in this year's Bermuda Contest, 0001 UTC March 18 to 2400 UTC March 19. Participation is limited to amateur stations in Canada, the US, the UK, West Germany and Bermuda. Actual operation is limited to 36 hours. Canadian and US stations exchange reports (RS or RST plus province or state) with UK, West Germany and Bermuda stations only. Each completed contact counts for five points. A station contacted on both phone and CW may be counted twice if the contacts are at least 30 minutes apart. Multiplier is the total of the number of Bermuda stations worked on each band. Winners in each country including Canada will receive all-expense paid trips to Bermuda in October to pick up their trophies. For complete rules, see March QST Canada.
- 4 Two notes from all over: Australia's volunteer examining system is now in place. Australian amateurs hope the new system will alleviate slow growth in their Amateur Service of about one half percent a year. ICOM has installed a toll-free literature request hot line for its retail customers. Call 1-800-999-9877 and give your name, address and literature request which will be mailed to you on the next business day.

BULLETIN 6 CRRL 1990 FEBRUARY 18

- 1 Prefix hunters, take note: To publicize Sault Ste-Marie, Ontario, as the Forestry Capital of Canada, amateurs in Sault Ste-Marie may use the special prefix CF3 from 1990 June 15 to 1990 June 24.
- 2 There's a new Japanese Amateur Radio satellite in orbit. JAS-1b, also known as Fuji 2 or FUJI OSCAR 20 (FO-20), was launched from the Tanagashima Space Centre on February 7. At press time, the satellite's signals were strong and stable and JARL, the Japanese Amateur Radio League, had announced that if tests were successful, the satellite would be available for general use within two weeks. In the meantime, you can receive the satellite's CW telemetry, on 435.795 MHz, plus or minus 9 kHz for Doppler shift.
- 3 In other news from Japan, to promote use of the 10-, 18- and 24-MHz bands, JARL has announced a new WARC '79 Award. To qualify, contact a total of 79 Japanese stations -- at least one in each of Japan's ten call areas on the 10-, 18- and 24-MHz bands. Only contacts from 1989 July 01 to 1990 December 31 will count, and you must have QSL cards as proof of contact. However, the cards need not be sent to Japan. Possession of the cards may simply be verified by two licensed amateurs, or the awards manager of the IARU-member Amateur Radio society in a particular country. In Canada, that would be CRRL Awards Manager Garry Hammond, VE3XN.
- 5 Once again, the Washington, DC-based Foundation for Amateur Radio (FAR) is offering thirty-three scholarships for licensed radio amateurs engaged in full-time studies beyond secondary school. Canadian amateurs are eligible for these scholarships which may be applied to tuition for Canadian universities and community colleges. For more information and application forms, write to FAR Scholarships, 6903 Rhode Island Avenue, College Park, Maryland 20740.

Treasurer's Report to Feb 1, 1990.

Jan 1 Balance	\$2421.53
Income in January	1089.00
Lisbursements January	3510.53
Balance Feb 1, 1990	1420.45
	2090.08

Lisbursements were as follows

Bulletin (Jan & Lec)	\$300.94
Phone (Nov Lec & Jan)	39.79
Post Office	3.24
Awards	10.40
Refreshments	37.97
Repeater	865.41
Postage	19.50
Christmas Party	143.20
	1420.45

Paul Hazen, VE3NWC, HARC Treasurer.

SNAP NETS ON THE AIR

Day	Time (Local)	Frequency	Area	Op
Monday	7:00 pm	147.165 Mhz	Niagra	ve3bxy
	8:00 pm	147.375 Mhz	Oshawa	VE3
Tuesday	7:30 pm	146.985 Mhz	Toronto	VE3BER
	8:00 pm	146.760 Mhz	Hamilton	VE3DKJ
Wednesday	7:00 pm	147.060 Mhz	Toronto	VE30OU
	7:30 pm	146.790 Mhz	Kitchener	VE3NXV
Friday	8:00 pm	3.898 Mhz	USA	
Saturday	10:00 am	7.055 Mhz	Ontario	VE3TUR
Sunday	12:00 pm	3.750 Mhz	Ontario	VE3EWO
	1:00 pm	147.210 Mhz	Burlington	VE3DUF
	7:00 pm	3.755 Mhz	Ontario	VE3DID

Hope this will keep all you fellow JUNK collectors busy
73 Don VE3OCY

THE HAMILTON AMATEUR RADIO CLUB

BOX 253 Hamilton Ontario Canada L8N 3G8.

CLUB MEETINGS:
8:00pm on the 3rd Wednesday of each month except for July & August (special arrangements are often made for the December meeting as well), in the Nash Auditorium, Chedoke Hospital. Non-members & friends are welcome - coffee and donuts on the house!

EXECUTIVE:
Meets at 1930 on the fourth Wednesday of the month, except June & July, in the Radio Room, Red Cross, 400 King Street East.

STATION:
An emergency radio station is maintained in the RED CROSS, HAMILTON BRANCH (400 King East).

MEMBERSHIP:
\$25.00 per year with a common renewal date of January 1. Included is a subscription to the club bulletin. Additional Family Memberships (no bulletin) \$1.

EDUCATION:
Informal meetings may be held in the Radio Room, Red Cross Building 400 King St East to help those who want to take their Amateur Licensing tests. Call Glen, VE3FHQ (416-385-2786 in Hamilton) for more information.

REPEATER:
VE3NCF. Located on the Hamilton escarpment it is available for use by any amateur. Input: 146.16 Mhz. Output: 146.76 MHz. Part of the VE3RPT Link system. Contact a member of the Club Executive for information concerning Emergency use, Autopatch, Mail-boxes, Links etc.

FIELD-DAY:
HARC operates a multi-station site during Field-Day. Contact for information will be announced as soon as the chairman is appointed.

SWAP-NET:
Every Tuesday at 8.00 pm on VE3NCF (146.76/16) except during July & August. Contact Keith, VE3DKJ if you have items to buy or sell.

FLEA-MARKET:
Held during October each year (Thanksgiving Day Weekend). Watch for a change!!

BULLETIN:
"The Hamilton Amateur", the official news bulletin of the club, is published 10 times a year and sent to all full club members (family members share a bulletin) during the first 2 weeks of the month (except July and August). Most bulletin material is also available on the club's packet bulletin board station, VE3DC operated by VE3JSJ, on 145.590 FM.

From The Hitchener Waterloo ARC Bulletin

A PRAYER OF THANKFULNESS, WITH APOLOGIES TO KING DAVID.

Dear Lord of Hosts, Amateur Radio as thou knowest is my hobby. It leadeth me into green pastures and I shall not want. Removing me from the wiles of YLs and XYLs, It takes me joyful to lands of DX far away. It restores my soul with certificates and QSL cards, And because of DCC, it leads me to obey the Law.

Even though I walk through gloom because of Woody Woodpecker I fear no ill For my crusty filters are with me always to support me While CRRL with QSTs so good and Contests so exciting They comfort me.

Even as a boy with coherer, crystal crude and stumbling key Thou preparest me for those future joys. As did my glowing spark with long lost smell of ozone pure To cause my cup of happiness to overflow.

Thus when with lightning flashes you beset me And Murphy's Law caused me to be disturbed, As Job in ancient times when sore distressed, suffered with patience until with thy forgiveness Conditions changed. May I suffer with like patience and for my raving Crave thy pardon, Dear Lord.

Those countless years spent midst toil and strife abroad, Then as now, my wireless sets sustaineth me. And when, O Mighty One, in your own good time Oer foaming seas and billowing waves, you brought me With my faithful spouse and two young sons To this fair land of Canuck VEE EEE THREE, I thank you Lord.

As peace now prevails and radio friends abound My transmitter and lofty aerial comfort me daily, And when each June FD comes around once more to cheer my heart, I count the time well spent when with Manna aplenty You give me strength to overcome my friendly foes I get another gong, For all these blessings, I humbly give you thanks.

As Tempus Fugit takes its toll and I wax old in years, And to my failing senses signals seem so much weaker, Surely, Dear Lord, Flea Markets and Club Banquets shall continue to follow me, All the days of my life, Until in thy radio shack above, I shall dwell for evermore.