

THE 17th ANNUAL  
**CENTRAL ONTARIO  
 AMATEUR RADIO FLEA MARKET**

JOINTLY SPONSORED BY:

GUELPH AMATEUR  
 RADIO CLUB

KITCHENER-WATERLOO AMATEUR  
 RADIO CLUB

**SATURDAY, JUNE 1st, 1991**

8:00 A.M. to 2:00 P.M.

DOORS OPEN TO VENDORS ONLY FROM 6:00 A.M.

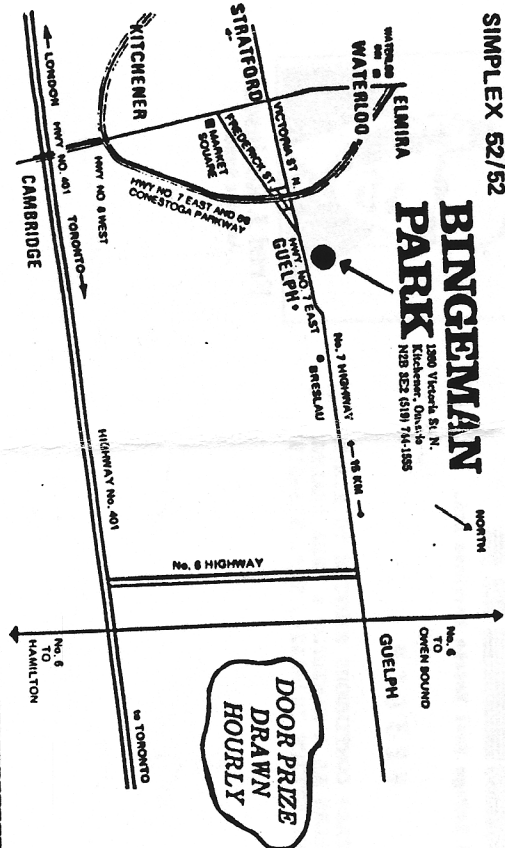
AT  
**"BINGEMAN PARK"**  
 1380 VICTORIA STREET NORTH - KITCHENER, ONTARIO

General Admission - - - \$5.00  
 Table Rental for Vendors - \$8.00 per 8 ft. space  
 (NO OUTSIDE VENDORS)

(Children 12 Years and Under - FREE)

Talk in Frequency  
 KSR - 146.37 - 146.97  
 ZMG - 144.61 - 145.21  
 SIMPLEX 52/52

Admission Ticket Includes  
 ticket for Grand Draws



*The*

*Hamilton*

*Amateur*

*May 1991*

(Established 1932)

HARC EXECUTIVE FOR SEPTEMBER 1990:

PRESIDENT:	VE3SON	Jim Walsh	689-6839
PAST PRESIDENT:	VE3DJO	Klita Sparnuk	
VICE PRESIDENT OPNS:	VE3DKJ	Keith Johnson	529-1603
VICE PRESIDENT ADMIN:	VE3T-L	Cliff Toother	547-6801
SECRETARY:	VE3SMF	Stuart Fedak	628-4131
TREASURER:	VE3VFR	Norm Sanger	692-5182
MEMBERSHIP:	VE3MWO	Ron Hallas	547-1960

HARC COMMITTEE CHAIRPERSONS FOR 1990/91:

AWARDS & CONTESTS:	VE3AAH	Gordon Barber	383-6161
HISTORIAN:	VE3BLG	George Olenick	383-7338
PROPERTY:	VE3ANB	Richard Leah	547-8192
BULLETIN EDITOR:	VE3SON	Jim Walsh	689-6839
EDUCATION:	VE3EKY	Bernie Granby	527-7175
EMERGENCY COORD:	VE3NYC	Paul Hazen	383-4724
FIELD DAY COORDINATOR:	VE3JIL	Cliff Toother	547-5901
HEALTH & WELFARE:	WE NEED YOU!		
PUBLIC LIASON:	VE3GFE	Stan Bollbruch	528-4002
HOSPITALITY COORD:	VE3DKJ	Keith Johnson	529-1603
CHRISTMAS DINNER PLAN:	VE3OOK	Fred Robinson	575-5197
SWAP NET CONTROL:	WE NEED YOU!		
REPEATER:	VE3DJK	Florent Menga	578-1789
TECHNICAL:	VE3OCY	Don Johnson	529-1603
VE3DC LICENCEE:	VE3OCY	Don Graziano	560-1960
VE3NCF LICENCEE:	VE3FHQ	Glen Gibson	385-2786
VE3RCB LICENCEE:	VE3OCY	Don Graziano	560-1960
DESIGNATED EXAMINERS:	VE3NYC	Paul Hazen	527-7175
	VE3EKY	Bernie Granby	529-1603
	VE3DKJ	Keith Johnson	575-5197
	VE3GCP	Fred Robinson	528-4131
	VE3SMF	Stuart Fedak	

**Home Brew Night!**

**It's Crawford  
 Trophy Time**

Bring your special project with you. Take home the Trophy! Win a prize! Further details inside...

Meeting: 15 May 1991 - 20:00 hrs

Nash Auditorium - Hamilton

MAY MEETING - HOMEBREW

The May General Meeting, 15 May 1991, 8:00 pm, Nash Auditorium Chedoke Hospital Grounds will feature Homebrew Night.

Traditionally, the May meeting is an old-style get together where members show their recent homebrew projects. All entries are welcomed, from the simplest to the most complex.

There will be prizes and a trophy for the best project, the Crawford Trophy.

If you don't have a project, you can still get in on the fun with the "Design the Club QSL" contest, which will be judged at the May meeting. The club needs a new QSL card and where better to go for ideas than its members? The prize for the winning entry will be a \$25 certificate to be applied to club dues in a subsequent year.

Homebrew Rules are:

The 1991 'Homebrew Night' Competition  
Wednesday 15 May 1991

The Crawford Trophy is awarded annually for the best home made device for use in amateur radio.

The name "home brew" portrays the idea that the device was constructed in the home workshop; thereby requiring skill and patience in producing a product of quality. It also suggests that the device was made at home during leisure hours.

Purpose:

To encourage Radio Amateurs to build their own equipment. The prime purpose for making a device would be for improved amateur radio communications, and/or for testing of amateur radio equipment.

Rules:

1. The device submitted shall have been completed in the 12 months prior to presentation night (May 15, 1991)
2. Although a limited number of operations in the fabrication of the device may be processed outside the home workshop, the majority of the work shall have been done in the contestant's own workshop, or that of a friend, during leisure hours.
3. A contestant cannot act as a judge for this competition.
4. Each contestant is to be given an opportunity to explain the purpose and operation of the device, and any other details he may deem helpful about the construction.

- VE3FUI RON, 519-623-2577 CAMBRIDGE
  - o HEATHKIT APACHE XMITTER, AM+CW 160-10, MANUAL \$75
  - o TWO ARCS COMMAND XMITTERS, 7-9.1 MHz AND 4-5.3 MHz \$5 ea
  - o 29B 220 MHz XMITTER/RECEIVER \$5
  - o AIRCRAFT TUBE TYPE RECEIVER \$5
- ESTATE SALE, contact PETER BRAUN 416-297-1696
  - o ICOM IC-730 MOBILE XCEIVER \$800
  - o AZDEN PCS-2000 2 METER MOBILE \$300
  - o KENWOOD TS-520 BASE TRANSCEIVER \$500
  - o YBASU LANDLINER PHONE PATCH \$100
  - o USDC SPEECH PROCESSOR \$50
  - o BEARCAT 8 CH VHF SCANNER \$50
  - o ALL ABOVE IN GOOD CONDITION
- VE3XPV LARRY, 659-1204
  - o YAESU FT-209 RH WITH SOFTCASE, WALL CHARGER, 10 MEMS, FNB-4 PACK, 5W ASKING \$275
  - o DAIFA I.A.-2035R 2 M LINEAR AMPLIFIER FM/SSB 1-5 WATTS IN, 30 OUT, HAS BUILT-IN GASSET PREAMP, 4 MO OLD \$150 FIRM
  - o PYE AIR BAND PORTABLE XCEIVER, 6CH XTAL CONTROLLED, NO MIKE, SOLID STATE, 12V, ASKING \$40
- VE3HPD VIC, 385-2662
  - o CDE45 ROTOR AND CONTROL \$100
  - o TRIBAND 3-EL BEAM, MP33, HANDLE 2 KW \$300
- VE3CZN RAE, 632-0344
  - o 140W VHF LINEAR AMP, WITH WARRANTY \$225
  - o PCS 2000 2M XCEIVER, 8 MEM, 25W OUT \$175
  - o TOSHIBA T1000 LAPTOP COMPUTER, 512K, 3.5" 720K DRIVE, LIKE NEW \$799
- VE3NKU HAROLD, 388-3117
  - o WESTERN ELECTRIC 5" RACK MOUNT OSCILLOSCOPE \$50 NEG
- VE3WJW J BILL, AD27 or 544-6563
  - o HW202 HEATH 2M MOBILE AMP, 50W FROM 10W DRIVE, MANUAL, LIKE NEW \$75
- VE3JIS JACK, 648-6443
  - o MEI 949D CROSS NEEDLE TUNER WITH DUMMY LOAD, 300W, BRAND NEW \$175
  - o MEI 949C TUNER, 300W \$90
  - o 20A CANADIAN MADE P.S., 6 MO OLD \$90

**ITEM CARE 10:**

**SATURDAY 1 JUNE 91:** Central Ontario Amateur Radio Flea Market, Bingeman Park, Kitchener, ON. 0800-1400, Admission \$5. Talk-in 525X, 146.37/97, 144.61/145.21. Info: Ray Jennings, VE3CZE, 61 Ottawa Crescent, Guelph, ON, N1E 2A8 (519) 822-8342.

73 de VE3VCA Steve VE3GRS at the keyboard!

**HR BULLETIN 13 (PACKET CRLE013) FROM CRRL, LONDON, ONTARIO**

**Item CRRL 1:**

A reminder that nominations are open for CRRL Section Manager in Ontario. This is a reappointment, as no nominations were received last fall. For details see April QST Canada.

**Item CRRL 2:**

ARRL is calling for papers for the 10th Computer Networking Conference being hosted by the Northern California Packet Association and held in the San Francisco area on September 26-27. Those wishing to submit papers should contact Lori Weinberg, ARRL Headquarters, 225 Main Street, Newington, Connecticut 06111. The 9th Computer Networking Conference was hosted by CRRL and attracted over 130 packet radio enthusiasts from North America and Europe.

**Item CRRL 3:**

As reported in February QST Canada, DOC may be considering reallocating the Canadian 220-225-MHz amateur band to a commercial service. DOC is expected to give official indication in its 30-890-MHz spectrum policy paper, to be released later this year. CRRL is strongly opposed to any such reallocation. DOC recently released an updated version of RIC-17, Electromagnetic Immunity (Radio Sensitive Equipment). Only two manufacturers, Matsushita and Toshiba, supplied information on how to contact company officials to solve EMI problems.

**Item CRRL 5:**

The R. L. Drake Company, well known in the 1960s and 70s for its high-quality amateur equipment, is about to re-enter the shortwave market. The R-8 receiver, to be shown at this year's Dayton Hamvention, will feature synchronous selectable sidebands, five IF filters, and a dynamic range of 100 dB. No word yet on whether a TR-8 amateur transceiver will follow. AR

**COMING EVENTS TO ACCOMPANY 1991 BULLETIN 13:**

- Rochester (NY) Hamfest May 17-18
- Quebec Hamfest May 25-26
- Edmonton Hamfest May 24-26
- Downeast (Halifax) Fleamarket May 25
- Central Ontario (Kitchener) Fleamarket June 1
- Maple Ridge (BC) Fleamarket June 9
- International Peace Gardens (MB/ND) Hamfest July 12-14

73, DE VE3GRO @ VE3GYQ, CRRL, BOX 7009, STATION E, LONDON, ON N5Y 4J9

Because of Gerry's integrity he sometimes was asked to audit the Club's books. For a period of time he had been the Treasurer of the Hamilton Amateur Radio Club, as well as other important posts.

Gerry was a quiet man... full of principle... with a desire to help out wherever he could.

"Though we all miss you Gerry, we are assured this is not the end of the road."

"73"

Bill McCaslin VE3ARX

On behalf of the Hamilton Amateur Radio Club

**TESTING REPORT**

Congratulations to Bernie Granby VE3EKY and his students on their phenomenal success rate.

Bernie's course is finished now, and out of the thirty or so who took the course, most have their certification.

While not all have been tested yet, there is already a 90% success rate!!

Please welcome the following new hams into the hobby, and congratulate the upgrades:

Mark Hill	BASIC	Peter Blackland VE3DTV	BASIC +
Paul Webb VE3PNW	BASIC +	David Forsyth	ADVANCED
Gary Noto VE3TTO	ADVANCED	Mary Urbanski	BASIC
Fred Raminelli	BASIC	Lynda Ormerod	BASIC
Jim Raminelli	BASIC	Frank Krstulic	BASIC
Bob Komarniski VE3RKK	BASIC	Matt Kumanyi VE3MJK	BASIC
Harry Savage	BASIC	Art Verhoog VE3VEH	BASIC
Joe Muller	BASIC	Rich Apleyard VE3YAG	BASIC
Mary Graziano VE3YOC	BASIC		
James Ormond	BASIC	and:	
James Miller	BASIC	Bill Court VE3WVC	5 WPM
Doug Scherer	BASIC	Stanley Owens	BASIC
James Thomas	BASIC	James Beddow VE3BEJ	BASIC
Emsley Mitchell VE3IAI	BASIC +	David Langs VE3DLE	5 WPM
	ADVANCED	Gail Townsend VE3GKT	BASIC
	BASIC	Ruth Hawkes VE3RBH	BASIC
Norman Dinka	BASIC	Dave McDougall VE3RMX	BASIC
Robert James	BASIC		



We should be hearing quite a few new calls on the repeaters soon. Let's not forget how we felt when we first held a mike, and treat the new amateurs with understanding and warmth.

de VE3DKJ

### SPECIAL THANKS TO VE3FQ

A special thanks goes out to Stephen Canney VE3FQ for driving in from Willowdale to speak at our April General Meeting. Stephen spoke for over an hour on the efforts of the Ontario DX Association to spread the enjoyment of the hobby of Short Wave Listening. As a ham and an SWL, he was especially capable to answer our many questions about what there is to listen to between the ham bands. The box full of DX ONTARIO digests he brought was quickly gobbled up. I'm sure this excellent magazine will be read and referred to over the coming month by all of us - there's just too much information to be absorbed in one sitting.

Listen in and participate in the ODXA net on Sundays at noon, 7.068 MHz, and share your interesting loggings.

### FROM LONDON ARC BULLETIN

#### EVOLUTION OF HAM RADIO

*(reprinted from the Ford Amateur Radio League newsletter)*

4 Billion B.C. - Earth is a swirling ball of flaming gas. Propagation is extremely poor.  
1 Billion B.C. - First dryland appears. It is divided up into squares. County hunters club is formed.  
500 Million B.C. - Second patch of land appears. First DXpedition. Credit disallowed because of questionable licensing agreement.  
400 Million B.C. - Flowering plants and grasses evolve. First beam antenna is invented but sales are slow because of lack of suitable structures.  
300 Million B.C. - First tree appears. It is cut down, stripped of branches, placed in a concrete base and named "telephone pole". First beam is sold.  
200 Million B.C. - Second beam is sold. Installer falls

from top of pole. First safety belt is sold.

100 Million B.C. - First mountain appears. Repeater invented.

50 Million B.C. - It is decided by the WARC that "seek you" is too cumbersome to send on CW. Abbreviation "Q?" is invented.

4 Million B.C. - Human replaced swine as the dominant species. However the name "Ham Operator" remains.

3 Million B.C. - Dug-out canoe is invented. Maritime Mobile NET is formed on 14.313 Mhz.

2 Million B.C. to 800 A.D. - Not much happens for a long time.

900 A.D. - Chinese invent gun powder. BY1AA, is first "big gun" DX'er.

1790 A.D. - Ben Franklin invents the long wire receiving antenna. The ground switch is also invented.

1961 A.D. - Second repeater erected. First frequency coordinator appointed.

1990 A.D. - Amateur Radio humour sinks to new low.

### FROM THE BULLETIN BOARDS - 1

15 Apr 1991, Issued at CARF Headquarters, P.O. Box 356, Kingston, ON, K7L 4W2

Editor: Bernard H. Burdsall VE3NB

#### ITEM CARF 1.

Some Amateurs have noticed that their 1991-2 licence shows their class of licence as "AMATEUR" rather than "LAND" or "LAND STATION". This change was made as a result of CARF representations about the problem some Amateurs had who had moved and were not allowed by DOC District Offices to operate at their new locations because they had not checked out their antenna with their municipality.

While the Regulations were amended in 1988 to establish the Amateur class of station, DOC never got around to making the changes on Amateur licences. The result was that a few District Offices applied the new policy to Amateurs as if they had had land station licences, refusing to allow operation at the new address until municipal consultation had been completed. It did not take long for DOC Headquarters to straighten this out. Only Amateurs are granted station licences before consulting municipalities.

#### ITEM CARF 3.

VE3CNE Amateur Radio display in the Arts and Craft Building of the Toronto Canadian National Exhibition is scheduled to have a "Y" day to look after the booth on 27 August 91, 10:00am - 10:00pm. Audrey VE3CCO would like to have as many YLs as possible contact her and work out a time that YOU can give a helping hand. You don't need to be a member of a YL club. There are several YLs in every club and VE3CNE needs all the help it can get. Audrey VE3CCO tel: (416) 293-0194. This year at the "EX" is "COMMUNICATIONS YEAR".

#### ITEM CARF 4.

INTERNATIONAL MARCONI DAY: The Cornish Radio Amateur Club is coordinating INTERNATIONAL MARCONI DAY, which will be celebrated 27 April from 0000Z to 2400Z. This year's International Marconi Day, which will be celebrated 27 April from 0000Z to 2400Z. This year's event will be bigger than ever. Listen for 14 or 15 stations representing Marconi communication sites around the world. The North American sites are VE1IMD, VO1IMD and K1VY/IMD. Most site stations will use the suffix IMD or /IMD.

A certificate modelled after an actual Marconi stock certificate is offered to those who work most Marconi sites (number will be announced on the air). More details on the award will be given by site stations.

All modes may be used this year, so stations may be found on CW, RTTY, SSB and packet. Info: Cornish Amateur Radio Club, P.O. Box 100, Turo, TR1 1RX, Cornwall, England. Credit World Radio.

#### Item CARF 5.

4 May 1991 "Per Ardua Ad Astra" The Canadian Warplane Heritage Museum, Mount Hope airport, Hamilton, ON, will operate X13CWHM to commemorate the 50th Anniversary of the first flight of the famous Lancaster bomber of WW II. 0900-1700 EDST. Frequencies 7,150, 14,250, 21,350, 28,450. Info: Bob Fugard VE3DJF.



FIELD DAY IS JUST AROUND THE CORNER

Cliff, VE3TJL is putting out a call for Band Captains...

As of writing, ALL of the bands and modes are open except 40M SSB.

Get in on the ground floor and you have your pick of bands.

Cliff also needs an Assistant Field Day Coordinator, and "grunts" are always needed.

If you are interested or can help, call Cliff 547 5801.

TO OUR FRIEND...GERALD CRAWSHAW...SWL

It is with sadness that we learned of the sudden passing of Gerald Crawshaw on Sat. April 6/91. Gerry, earlier in the year had a stroke... and we were of the opinion he was coming along alright... but such was not to be. Many of you will remember Gerry welcoming you at the door, when you attended HARC meetings. You will miss his presence at the refreshment table, where he supplied coffee and donuts. Gerry was a simple man whose only goal was to help others enjoy life, and to encourage others in the rewards of Amateur Radio.

Gerry was deeply involved with his church, and we are told that he was Sunday School Superintendent for 35 years! Quite a record. As his church had no Sunday evening services, he would often visit my church to hear the gospel message... and we would afterwards fellowship at "Tim Hortons".

But Gerry's one great desire was to become a licensed Radio Operator, and though he tackled the books many times, other venues, more important in his life, took over, and he would abandon his studies. He was deeply involved with the Masonic Order, with his job at Westinghouse, and as I have already mentioned, with his church, and there just wasn't enough hours in the day, to do all, efficiently.

Back in the Seventies, I first became aware of Gerry, at our Annual Field Day exercises. At Rattlesnake Point Conservation Park we set up a tent city... and it was a sight to behold at night with lights glistening all around the park... and the sounds of communications waiting on the breezes.

Gerry loved to log the calls answering our "VE3DC" and longed to have his own station. Some years ago, I helped him lay out a small radio room in his basement... wired in special circuits... a telephone outlet... and a feedline of RG8 coaxial cable to a 10-80 meter vertical antenna in his yard. He spent many happy hours practising his listening skills... and dreaming of someday... DX!

Gerry loved the fellowship of the radio "barn" fraternity he would meet at the various radio " flea markets". One time, he won a 2 meter beam antenna. He presented it to me, as a gift to the club, to be installed at our club radio station located at the Hamilton Red Cross Building. It's purpose was to relay messages to powerful remote base stations and thus eliminate H.F. saturation in the surrounding high-rise offices and apartment buildings.

The Swap Shop: For Sale - 1

To list items:

- VE3NCF (146.76) Tuesdays 8 pm, OR Call Keith (VE3DKJ) 529-1603 or Ralph (VE3BYM) 388-6146 or Rich (VE3ANB) 547-8192,
- OR leave message on the VE3DC Packet BBS (145.590 MHz) or via modem on BBS at 575-4745 (pick your password) to Keith Johnson.

Items accepted should be related to the enjoyment of our common hobby, Amateur Radio - this has been interpreted to include also computer equipment, C.B. and other electronic gear that can be used or converted to Amateur Radio use. Listings are read over the air for four weeks, published once in The Hamilton Amateur, and posted on the packet and computer BBS VE3DC (sysoop VE3JSJ Gard) 145.590 and 575-4745. The Swap Shop meets every Tuesday evening, except the summer months at 8:00 p.m. on VE3NCF 146.760. During the swap shop, a telephone number is usually provided for those without 2 meter capabilities (SWL's, new hams) to provide access to the net.

- VE3RMX DAVE, 957-7137 SMITHVILLE
- o ICOM R71A GENERAL COVERAGE RECEIVER, 2.1 KHz SSB FILTER, COVERS 500K-30MC, OP MANUAL, APPROX 1 YR OLD \$950
- VE3KTO JOHN, 416-774-6867
- o YAESU 770RH UHF MOBILE RIG, 30W, 10 MEMORIES, MEM SCAN, BAND SCAN, U/D/T/T MIKE, VOICE SYNTH \$325
- VE3MKR MIKE, 574-7374
- o TRAM D201 CB RIG, 23CH TUBE RIG SSB BASE UNIT \$300
- VE3SEP RON, 637-1203
- o KENWOOD TR7730 2M MOBILE RIG, DIGITAL READ OUT, QUICK RELEASE MOBILE BRACKET, 525W OUT, 5 MEMORIES \$250
- VE3TMM BOB, 519-756-0291 BRANTFORD
- o ICOM O2AT WITH SP MIKE, 2 EXTRA BATTERIES, 5W OUT, MC35 FAST CHGR, IBC16 WALL CHGR, CP11 12V BATT ADAPTOR, 35W LINEAR AMP, DUCK, 5/8 MAG MOUNT ANT, EXT SPEAKER, WITH CASE \$500
- VE3NXX RENZO, 521-1064
- o EXTERNAL VFO FV700DM FOR YAESU 707 OR 77, WORK SPLIT, OR WITH TT MIKE, FULLY SYNTH, 12 MEM, MANUAL, \$200 NEG
- o FREQUENCY COUNTER, EURO MADE, UP TO 500 MHz, NEEDS 12V, MANUAL \$50
- o ICOM IC-2-AT WITH TTP, WALL CHGR, EXTERNAL SPKR MIKE, EXTRA BATTERY PACK BP2 (7.2V 500mAh) \$250
- VE3TWW TONY, 526-6154
- o SONY AN-1 ACTIVE ANTENNA \$75
- VE3RKB RANDY, 945-3002
- o BENCHER PADDLE, MFT KEYS <1YR OLD \$170
- o 2M AMP "POLIDON" 1-2W IN/50W OUT \$175
- o RADIO SHACK PRO 2005 25-1300 MHz INCLUDING 800 BAND \$475

# THE HAMILTON AMATEUR RADIO CLUB

BOX 91215 Effort Square Postal Outlet, Hamilton Ontario Canada L8N 4G4

## 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:

A common renewal date of September 1. Included is a subscription to the club bulletin. Additional Family Memberships (no bulletin) \$1.

## EDUCATION:

Informal classes are being held in the Radio Room. Red Cross Building 400 King St East to help those who want to take their Amateur Licensing tests. Call Bernie (VE3BEKY) or Stan (VE3GPH) for more information. Phone numbers are on the front cover. Licence testing on the 2nd Wednesday of the month (with appointment).

## 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 coordinator Cliff Tooher for information. His number can be found on the front page.

## SWAP-NET:

Every Tuesday at 8.00 pm on VE3NCF (146.76/16) except July & August. Contact Keith, VE3DKJ if you have items to buy or sell. Swap Shop listings are also available on the club's packet bulletin board station VE3DC operated by VE3JSJ on 145.590 FM.

## Flea-MARKET:

Held during September each year at the Ancaster Fair Grounds. Note that the flea market has both indoor and outdoor sales facilities. Call to reserve tables/power.

## 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).

## The Swap Shop: Wanted - 1

### To list items:

VE3NCF (146.76) Tuesdays 8 pm. OR Call Keith (VE3DKJ) 529-1603 or Ralph (VE3BYM) 388-6146 or Rich (VE3ANB) 547-8192. OR leave message on the VE3DC Packet BBS (145.590 MHz) or via modem on BBS at 575-4745 (pick your password) to Keith Johnson.

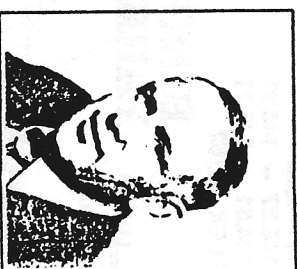
- VE3MOM PETER, 416-484-9292 TORONTO (COLLECT)
- 500W OR BIGGER TUNED INPUT LINEAR AMP FOR SOLID STATE RIG
- SOLID STATE RIG SUCH AS ICOM 735 OR KENWOOD 430
- VE3ZCZ MARK, 787-6220 TORONTO
- 13.8V 20 OR 25 AMP POWER SUPPLY
- VE3TNW TONY, 526-6154
- BOOK ON TOROID DESIGN AND APPLICATION, PREFER BY DOUG DE-MAW
- VE3PNW PAUL, 574-0818
- 2M KENWOOD OR ICOM MOBILE DUAL POWER, WITH TTP
- QUARTER WAVE MOBILE ANTENNA, TRUNK MOUNT
- VE3PKY CHRIS, 547-3169
- QUARTZ CRYSTALS FOR HF HAM BANDS
- 250V WITH 6.3V P.S.
- VE3VEH ARIE, 389-9259
- TO GET ON PACKET: 2M RIG AND KANTRONICS OR SIMILAR FOR C64
- VE3JSJ GORD, 575-3647, BBS 575-4745, PACKET 145.59
- POST HOLE DIGGER FOR ANTENNA INSTALLATION



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