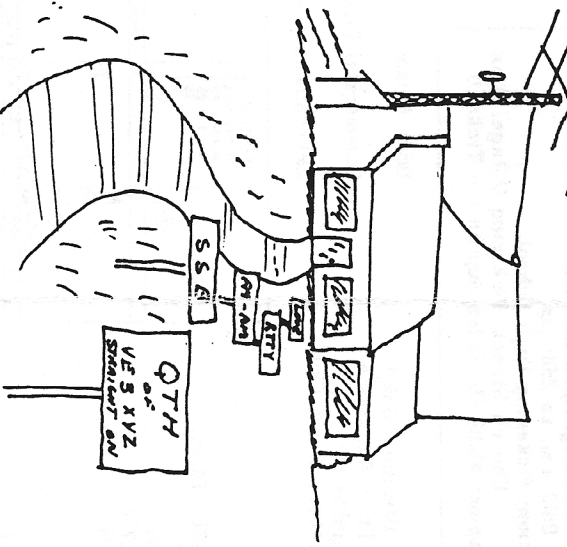


" I will not put the garbage out until after I am called in on the net to say that I have nothing to say!"



The

Hamilton

Amateur

April 1991

(Established 1932)

DX - Outside the Ham Bands!

Come and listen to Steve Canney, VE3FO talk to us about Shortwave Communications - what else is there outside our narrow frequencies. Details inside...

Meeting: 17 April 1991 20:00 hrs

HARC EXECUTIVE FOR SEPTEMBER 1990:

PRESIDENT:	VE3SON	Jim Walsh	689-6839
PAST PRESIDENT:	VE3JTO	Mike Spenuk	529-1603
VICE PRESIDENT OPNS:	VE3DKJ	Keith Johnson	547-5801
VICE PRESIDENT ADMIN:	VE3TJL	Cliff Toohar	628-4131
SECRETARY:	VE3SMF	Stuart Fedak	692-5182
TREASURER:	VE3VER	Norm Sanger	547-1960
MEMBERSHIP:	VE3MWO	Ron Hallas	

HARC COMMITTEE CHAIRPERSONS FOR 1990/91:

AWARDS & CONTESTS:	VE3A:AH	Gordon Barber	383-9161
HISTORIAN:	VE3BLC	George Olenick	383-7338
PROPERTY:	VE3ANB	Richard Leah	547-8192
BULLETIN EDITOR:	VE3SOM	Jim Walsh	689-6839
EDUCATION:	VE3EKY	Bernie Granby	527-7175
EMERGENCY COORD:	VE3NYG	Paul Hazen	383-9724
FIELD DAY COORDINATOR:	VE3TJL	Cliff Toohar	547-5801
FLEA MARKET:	WE NEED YOU!		
HEALTH & WELFARE:	VE3GFE	Stan Bolbruch	528-4002
PROGRAMS:	VE3DKJ	Keith Johnson	529-1603
PUBLIC LIAISON:	VE3GCP	Fred Robinson	575-5197
HOSPITALITY COORD:	SWL	Gerard Robinson	385-2789
CHRISTMAS DINNER PLAN:	VE3O:GG	Flori Mangra	578-1789
SWAP NET CONTROL:	VE3DKJ	Keith Johnson	529-1603
REPEATER:	VE3OCY	Don Graziano	560-1960
TECHNICAL:	VE3OCY	Don Graziano	560-1960
VE3DC LICENCEE:	VE3FHG	Glen Gibson	385-2786
VE3NCF LICENCEE:	VE3OCY	Don Graziano	560-1960
VE3RCB LICENCEE:	VE3NYG	Paul Hazen	500-1960
DESIGNATED EXAMINERS:	VE3E:KY	Don Graziano	560-1960
	VE3DKJ	Bernie Granby	984-4345
	VE3GCP	Keith Johnson	527-7175
	VE3SMF	Fred Robinson	575-5197
	VE3SMF	Stuart Fedak	628-4131

THE 17th ANNUAL
CENTRAL ONTARIO
AMATEUR RADIO FLEA MARKET

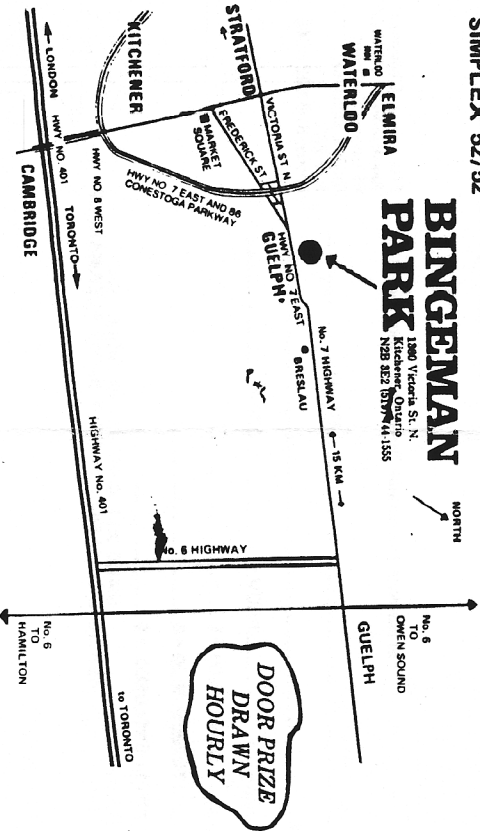
SATURDAY, JUNE 1st, 1991

GUELPH AMATEUR RADIO CLUB
 JOINTLY SPONSORED BY: KITCHENER-WATERLOO AMATEUR RADIO CLUB
 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)

Talk in Frequency
 KSR - 146.37 - 146.97
 ZMG - 144.61 - 145.21
 SIMPLEX 52/52
 Admission Ticket Includes
 ticket for Grand Draws
 (Children 12 Years and Under - FREE)



PRESIDENT'S MESSAGE

We have had several successful events recently. Jim Wilson gave a very interesting talk on QRP operation. I think he has some converts. The trip to the Hammond Museum and the Round the Bay Race are reported elsewhere.

Three of our students have passed their Basic. They are Ruth Hawkes VE3RBH, Gail Townsend VE3GKT and Richard Appleyard VE3YAG. As well Pat VE3EIK passed the 5 WPM.

We have an interesting speaker for the April meeting but we also have two events coming up that need more membership participation. The Nomination Committee will be looking for candidates so it can present a good selection in its report to the May meeting. Cliff VE3TJL is still looking for participants in the Field Day in June. Give him a call at 547 5801.

Club success depends on membership support of club activities.

A recent meeting with the Red Cross has clarified access to the club room.

During Red Cross business hours, any club member can have access to the club room, including the library but not the equipment room, as follows:

- 1) In advance, phone the Red Cross receptionist at 522 8485 and advise expected time of arrival
- 2) Obtain a key from the receptionist by showing your club membership card
- 3) On the attendance board by the receptionist, move the marker to show that the club room is occupied
- 4) If any literature is borrowed from the library, show this in the equipment loan book on the desk
- 5) On leaving, move the marker on the attendance board to show that the club room is not occupied and return the key to the receptionist

Access outside business hours, and to the equipment room is available to the President, Vice-President Operations, Emergency Coordinator, Property Chairman and Education Chairman.

Jim, VE3SON

- VE3GTE JOHN, 519-753-1137 BRANTFORD
- o "TELEQUIPMENT" SOLID STATE OSCILLOSCOPE S54A, TRIGGERED SWEEP, 5MHz BANDWIDTH \$125firm
- VE3JIS JACK, 648-6443 ANCASTER
 - o TS120 \$635
 - o MC50 MIKE \$80
 - o TS130 \$750
- VE3MMV EMMANUEL, 519-753-1456
 - o YAESU FTDX400 5 BAND XCEIVER, WITH SPEAKER, MANUAL, SPARE TUBES, \$325 OR B.O.
- VE3LWM MIKE, 772-3292 CANFIELD
 - o C64 COMPUTER, PS, OWNERS MANUAL, 1541 D.D., MANUAL \$250
 - o TOUCH TONE DIALER (HANDHELD) \$10
- VE3NCK BILL, 545-3579
 - o BEARCAT 210 5 BAND SCANNER \$100
- VE3FJC WALTER, 416-263-2338
 - o YAESU 757GX SS XCEIVER, MATCHING 757HD PS, SPEAKER, U/D MIKE, RELAY BOX, DC CORN, BUILT-IN KEYS, GENERAL COVERAGE \$1200
- VE3ANB RICH, 547-8192
 - o COMPLETE COMPUTER SYSTEM: IBM CLONE AT286, 40MEG HARD-DRIVE, 1.2MEG 5.25 DISK DRIVE, MONOCHROME MONITOR, PR9101 PRINTER, 2400 BAUD MODEM WITH TELIX PROGRAM, WP 5.0, DOS, STACKS OF HAM PROGRAMS, UTILITIES PROGRAMS, MANY OTHERS ASKING \$1350 COMPLETE
 - o TRC451 40ch CITIZENS BAND SSB RADIO, WITH MIKE ASKING \$85
- VE3CIB BOB, 383-2054
 - o HEATHKIT VTVM \$10
 - o HEATHKIT SB200 LINEAR, WITH MANUAL \$300
- VE3HNG AL, 527-1475
 - o 160 MHz XCEIVERS, SURPLUS \$150 each
- VE3WAK CHRIS, 847-0090
 - o TANDY DWP 230 DAISY WHEEL PRINTER WITH MANUAL \$150

was used to coordinate the arrival of a runner with hypothermia in one of the vans. He was immediately transferred by the St. Johns Ambulance personnel to the field hospital. The field hospital had been briefed by the net control station to indicate that the exhausted runner would be arriving. The transfer went very smoothly and the runner was treated with intravenous fluids.

As net control, I was very pleased with the operation of the net, and all the operators should be congratulated. The team consisted of some veterans and some rookies who had been licensed only two weeks. All performed to the occasion. The transmissions were kept brief and to the point. There was limited interference from operators not involved in the immediate net operation.

I find that the Around The Bay Race provides an excellent opportunity for a combination of public service work and an excellent emergency preparedness exercise. The H.A.R.C. interacts with the race director and race committee, Canadian Armed Forces, St John's Ambulance, physicians and nurses and numerous volunteers, not to mention the 1300 runners and their families and friends. In my mind, this provides as very valuable service to the community.

de VE3SMF

HAMMOND TOUR REPORT

On Saturday March 23, Fred Hammond, VE3HC hosted the Hamilton Amateur Radio Club at his Museum of Radio, 95 Curtis Drive, Guelph. I counted 30 visitors. Fred started showing early arrivals around at about 10:30 am, then at noon provided a very satisfying lunch of egg-salad, ham and cheese, turkey and roast beef sandwiches with pop, juices and deserts. Fred also provided ten eight-outlet Hammond power bars which were distributed by chance as door prizes. After lunch, most visitors took another look upstairs at the museum. Fred's brother Roy was also on hand and gave us a very personal insight into the Hammond company's early products, such as the "B eliminator", which obviated the need for expensive B batteries by using new 25 Hz generated house current.

Much of the company's early manufacturing was innovative - machines and materials were adapted as required - transformer winding machines, wire coatings, even tube socket bases drilled by hand out of bakelite. A room off the main museum held a modern full-featured amateur radio station, with Sandy Sanderson's station VE3AHW fully preserved beside it.

The two hours we had to view the museum was not enough to take in one tenth of what was there to see. Behind the main displays were photographs and certificates.. under the tables, displayed on shelves, were old meters, test equipment, QST's, and more radios and equipment... between the rows were all manner of tubes, lit up with a warm glow... on shelves up to the ceiling were radios, most of which had original manuals under the lids. In a corner were older microphones, the elements suspended with springs or leather, and speakers looking like an "His Master's Voice" advertisement. In

Item 4:
Some short notes from all over. As of March 12, the Defence of Amateur Radio Fund (DARF), established to help IARU defend our amateur frequencies at WARC-92, stood at \$12,435.41. If you have not yet contributed, please mail your cheque to DARF, c/o Tim Eliam, VE6SH, 107 Strathern Rise SW, Calgary, AB T3H 1R5. Work is under way to have a tribute to Brit Fader, VE1FQ, placed in the Signals Museum in Kingston, Ontario. Brit, a stalwart member of CFARS, the Canadian Forces Affiliated Radio Service, passed away last year at the age of 78. To celebrate the birthday of Samuel F. B. Morse, inventor of the Morse code, Winnipeg Amateur Radio Club will operate special-event station VE4SFBM on the weekend of April 27. That will be on CW, of course. AR

COMING EVENTS TO ACCOMPANY 1991 BULLETIN 11:

- | | |
|------------------------------------|-------------|
| Ottawa Valley Mobile RC Fleamarket | April 20 |
| QST OSO Award Party - phone | April 20-21 |
| ARRL Spring Sprints - 432 MHz | April 24 |
| Dayton Ohio Hamvention | April 26-28 |
| QST OSO Award Party - CW | April 27-28 |
| VE4SFBM Operation | May 4 |
| Smiths Falls (ON) Fleamarket | May 4 |
| Skywide (Toronto) Fleamarket | May 7 |

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



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VE3GCP

25 YEARS CONTINUOUS SERVICE TO H.A.R.C.,
18 YEARS AS A HAMILTON & AREA REALTOR
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Fred J. Robinson
Associate Broker

**STEPHEN CANNEY, VE3FQ TO SPEAK
TO THE GENERAL MEETING**

This month, we are privileged to have Stephen Canney speak to our General Meeting.

Steve is President of Shortwave Communications Services, and a director of the Ontario DX Association. He is responsible for starting the ODXA amateur radio station VE3ODX, which holds a net on 7.068 Sundays at noon.

He has been seen on CKCO TV and heard on a twice-monthly SW Radio feature on CKO, which he produced. KUSW, the Salt Lake City superstation called on Steve for live interviews during the ODXA annual convention. He has been published extensively and through his Shortwave Communications Services, been consulted regularly by the media. His recent teaching and speaking engagements are too numerous to list.

Anyone who has read the ODXA newsletter, or listened to their net will realize what a quality effort has gone into them.

Come out to the meeting and find out what there is to hear just outside our narrow ham bands. This would be an excellent opportunity to get your SWL friends out to a meeting, too.

April 17, Nash Auditorium, Chedoke Hospital Grounds 8:00 p.m.



by Rich Regent, K9GDF

(From HRNS Ser 31) & Spark-Gap Oct 89

15 Mar 1991. Issued at CARF Headquarters, P.O. Box 356, Kingston, ON, K7L 4W2
Editor: Bernard H. Burdsall VE3NB

ITEM 3. To scan or not to scan, that is the question. Canadians travelling through the United States should be aware of the State and Local "scanner" laws that forbid citizens from having radios in cars that can pick up police, fire, or other government transmissions. For example, New Jersey requires police-issued short wave radio permits, while Kentucky law authorizes officials to immediately seize and destroy radio equipment capable of receiving police signals. A Michigan statute exempts some licensed Amateurs. The objective is to make it difficult for criminals to become aware of detection by police. Be forewarned. Thanks to WYSI Report.

ITEM 12. 20 APRIL 91. H.A.R.C. Radio Auction Flea Market, 0900 hrs, auction, 1000 hrs, Harwood Community Centre, north of Cobourg, ON. Info: Barry Coleman VE3AAR P.O. Box 65, Grafton, ON, K0K 2G0. Talk-in VE3RTR 145.15. Visit the CARF table. (Had to leave this one in! Another HARC - bet ours is the older! de VE3HTC)

1 Mar 1991. Issued at CARF Headquarters

ITEM 1. DOC has released a new printing of Radio Information Circular RIC-17, entitled Electro Magnetic Immunity (Radio Sensitive Equipment). Of the hundreds of suppliers of domestic electronics equipment included in their survey only two, Matsushita and Toshiba responded by detailing where, who, and how to contact company personnel to resolve EMI related problems. Get a copy of RIC-17 from your local DOC office. If concerned with potential EMI problems recommend a supplier who follows the principle of Repair, Replace, or Refund.

ITEM 9. BANNED COUNTRY LIST: The September 1990 issue of The Canadian Amateur magazine published a copy of the DOC RIC-3 which included a list of countries that forbid radio communications with Amateur stations under their jurisdiction. They are the following: Angola, Burma, Ethiopia, Ghana, Iraq, Saudi Arabia, Suriname, Thailand, Zaire. While we may think that the Amateurs of these banned countries should assume total responsibility for not answering our calls, the following letter recently received at CARF HQ forcibly illustrates what can happen. I quote from the letter. "Everyone now and then we hear one of those 'rare ones' and rush to get our QSO and subsequent QSL card. There's a bit of Eve and the forbidden fruit in every one of us, including yours truly, who had a prohibited QSO with a station several years ago. At the time, I was pleased with myself for having gotten this rare catch. "Last week I got a letter from the Ham whom I had contacted. Life is different now and his letter explained what happened after our QSO. As a result of our QSO, the club station he was using was 'administratively removed'. He didn't (and doesn't) have any money to buy his own equipment. Next he was fired from his very desirable job and spent several years working in a lower position. He still hasn't been permitted to return to his previous level. "I gloated over my contact then, now I feel like an irresponsible well-known Biblical beast of burden. That QSL wasn't worth it." Name and call sign withheld.

73 de VE3VCA Steve VE3GRS at the keyboard

HR BULLETIN 10 (PACKET CRLE010) FROM CRRL, LONDON, ONTARIO 1991 MARCH 17, TO ALL RADIO AMATEURS BT

Item 1:
The CRRL Committee of Tellers met in London, Ontario, on March 16 to count ballots in the election for Director, CRRL Ontario South Region. Results: George Gorsline, VE3YV: 537 votes; William Lefler, VE3BMW: 271 votes. George Gorsline was declared elected, to serve the remainder of the two-year term that commenced on 1991 January 1.

Item 4:
With the Dayton Hamvention approaching, the following numbers should be helpful to customs persons establishing the tariff on Amateur Radio items imported into Canada. Remember that if you have been out of Canada 48 hours, you may bring back CDN \$100 duty and tax exempt; if you have been out of Canada for 7 days, you may bring back CDN \$300 duty and tax exempt.

8525.20.10: transmission apparatus incorporating reception apparatus for use on amateur bands (transceivers, linears, etc.)--no duty but 7% GST.

8529.90.10: receivers for amateur bands--no duty but 7% GST.

8529.10.90: aereals, antennas and parts for antennas--3.8% duty plus 7% GST.

8471.91.00: digital processing units (computers, TNCs, etc.) as stand alone units, or in a unitized housing such as storage units, input units, output units--no duty if US-made, 3.9% duty if made elsewhere, plus 7% GST.

Note that the 7% GST has resulted in a saving on Amateur Radio equipment imported into Canada. In the past, this equipment was subject to the 13.5% Manufacturers Sales Tax.

HR BULLETIN 11 (PACKET CRLE011) FROM CRRL 1991 MARCH 24

Item 1:
CRRL sponsors the Worked All QST Award--available to any amateur who makes phone, CW or mixed contacts with eight of CRRL's twelve "QST" stations located across Canada. You'll find these stations active throughout the year, in contests and especially on Field Day, but the easiest time to contact them is during the spring and fall QST QSO Award parties. The spring party, phone portion, will be held on April 21-22 and the CW portion will be held on April 27-28, at 1400-2200 UTC each of the four days. On phone, look for QST stations on 14.13 and 21.25 MHz. They'll also be on frequencies on other bands if conditions permit. On CW, look for QST stations near the lower edge of all HF bands. To receive your Worked All QST Award, send a copy of your log with an SASE to CRRL Headquarters, Box 56, Arva, Ontario N0M 1C0.

another corner was a transmitting tube at least four feet long, encircled by plumbing for cooling. There were receivers with galena crystals mounted on them with a cat's whisker adjusted to find the sweet spot. There was also a mechanical television with a spinning disk which had to be adjusted to get the phase right. When Fred CQ'ed on the Spark Transmitter, I'll bet all the automatic garage doors in Guelph were going up and down.

The opportunity to view the displays Fred has lovingly presented was a treat of a lifetime, made all the more pleasurable by Fred's personal stories and explanations of the equipment.

I'm sure I speak for all in saying we were completely overwhelmed by his hospitality and generosity.

The museum is open during normal business hours. If you missed the tour, and have a sunny day free, spend it with the past in a world-class museum on our back doorstep.

95 Curtis Drive, Guelph, very near Highway 7 and Hanton Parkway.

IF YOU WERE ONE OF THE THIRTY PRESENT, PLEASE GET HOLD OF KEITH VE3DKJ TO SIGN A LETTER OF THANKS TO FRED.

de VE3DKJ

**DESIGN THE CLUB QSL CARD
 CONTEST**

This is your chance to let your artistic talents bloom! The Hamilton Amateur Radio Club needs a new QSL card, and we know that there are some very esthetically inclined members out there.

The winning entry will receive a \$25 credit note applicable towards membership dues in HARC.

Judges are VE3TJL Cliff, VE3MWO Ron and VE3DKJ Keith, each of whose integrity, as we all know, is above reproach. Make sure your entry is submitted by or at the May 15 General Meeting.

Don't forget the **May 15 General Meeting is Homebrew Night**. You could win the Crawford Trophy or a valuable prize, even if your QSL design isn't chosen.

Good Luck!

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 (vsop VE3JSJ Gord) 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.

VE3JUR DAVE, 689-3288
 o HIRES PACKARD-BELL MONITOR ON SWIVEL STAND \$125

VE3RMA RON, 545-1056
 o PYRAMID III P.S., 13.8V, 12A \$50

VE3ITS MIKE, 145.59 PACKET, LANDLINE 560-5546, 560-7065 HOME, 525-7626
 o YAESU FT726R ALL MODE (FM,SSB,CW), 2M/70CM BASE STATION FOR SATEL-LITE OR SSB WORK, WITH REPEATER OFFSETS, 144-148 + 430-440. CAN ADD 440-450, FULL DUPLEX SATELLITE BOARD, 2 OPERATIONAL METERS, DIGITAL DISPLAY, FULLY FEATURED, 3-4 YRS OLD, WITH STOCK MIKE, ASKING \$1100

VE3JSJ GORD, 145.59 PACKET, 575-4745 BBS, OR 575-3647 VOICE
 o 20 MEG SEAGATE 225 HARD DRIVE, ASKING \$150
 o BATTERY BACKUP FOR KANTRONICS ALL MODE PACKET TNC \$20
 o FLOPPY CONTROLLER FOR IBM TYPE COMPUTER, WILL HANDLE TWO 360K, 1.2 M, 1.44 M DRIVES \$20

VE3APT BILL, 416-734-9216 WELLAND
 o SONY 2010 RECEIVER "BRAND NEW"! \$480
 o TURNER +3 DESK MIKE \$45
 o SONY 4" MONITOR \$35
 o WIND DIRECTION METER (REMOTE SENSE) \$35
 o C64 SX1 PORTABLE HAS 6" COLOUR MONITOR, DISK DRIVE, GOOD FOR PACK-ET \$400

VE3BEJ JAMES, AUTODIAL 66
 o HEWLETT PACKARD COMPUTER BOARDS, LOADED WITH CHIPS HD3000 \$make offer

VE3RMX DAVE, 957-7137 SMITHVILLE
 o BARKER+WILLIAMSON FL10 LO PASS FILTER, 1500W \$40
 o UNIDEN 560 XLT 16 CHANNEL MOBILE SCANNER 30-50,136-174,420-512 \$125

**AROUND THE BAY RACE REPORT
VE3SMF STUART**

The Around the Bay Race was held on Sunday, March 24, 1991 in Hamilton. This was the fifth time that I have had the pleasure of helping out at this event, along with many other club members.

VE3DC was established at Sir John A. Macdonald High School at 10:30 on March 24, 1991. The radio communication center is located in the school, in close proximity to the field hospital. The station consisted of an Icom IC-27H transceiver rated at 45 watts and an Astron 12 volt D.C. 12 ampere power supply. The antenna system was 30 feet of RG-58U feeding a 5/8 magnetic mount antenna. The station was also equipped with a 12 volt 26Ah Gelled Cell for emergency backup. This backup facility had to be used when the power source that was being used was blown by one of the commercial radio station broadcasters. In addition, a 12 volt Alinco Model ELH-230D VHF amplifier, suitable for use with a handheld was available for transceiver backup purposes. The communication station had an assortment of repair equipment and connectors available. Signs were placed on the doors to indicate the participation of the Hamilton Amateur Radio Club and to indicate restricted access to the area. This helped cut down on the traffic flow as compared to previous years.

Most operators had been briefed prior to the race day, on the duties to be performed. A written package on the race organization, net operation and functioning of the net control station was prepared. Some of the operators were dispatched with written instructions on net operation and the race mandate the day of the race. This practice was well received.

Three operators were dispatched in mobile vans. They included Stanley (VE3GFE), Barbara (VE3OOD) and Ruth (VE3RBH). They all used 2 meter handheld radios with roof mounted VHF antennas.

Operators at fixed locations included Fred (VE3GCP) at one mile, Tony (VE3TNW) at 5 kilometers and at Joseph Brant Hospital, Fiore (VE3OOG) at 10 kilometers, Paul (VE3NYC) at the lift bridge, Ron (VE3DNB) at 15 kilometers, Rolly (VE3MWG) and Jerry (VE3ACA) at 20 kilometers, Ken (VE3OIN) and his XYL at 25 kilometers and Jack (VE3JTR) at the Valley Inn Road. Louise (VE3LOI) acted as assistant net control, and Stuart (VE3SMF) was net control operator.

Net operations went very smoothly from the start of the race. All stations were in location and the start of the race was broadcast by Stuart (VE3SMF). This enabled the split timers to get accurate times. At the water stations, the operators reported on the first three male and first three female runners. This was very important to ensure the integrity of the race. Due to weather conditions, there were no wheel chair athletes participating this year.

The cool temperatures ensured that the mobile vans were in high demand for pick up of exhausted runners in the 20 to 25 kilometer stretch of the race. In addition, the radio

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

VE3EKY BERNIE, 527-7175

VHF PWR/SWR METER TO BORROW

VE3OZY RICK, 544-3253

ATARI 1050 DD not DOUBLE DENSITY INFORMATION FOR PACKET USE OF ATARI COMPUTER (Rick - check Mar91 CQ mag)

VE3GVG CAM, 524-0682

TELEGRAPHIC (MORSE) KEYS FOR TEACHING (LEND OR GIVE)

ARIE VERHOOG, 389-9259

1200 BAUD MODEM FOR COMMO-DORE 64

2m OR DUAL BAND HANDHELD

VE3JCY JERRY, 544-7770
CLAMSHELL OR Z-CLAMP BRACKET, 3 PIECE PREFERRED

VE3NCK BILL, 545-3579
ROTATOR AND CONTROL

VE3BEJ JAMES, AUTODIAL 66
INFO ON IBM 5100 PORTABLE

VE3AQG SID, 389-2861
METER FOR HEATHKIT V-7A VTVM

VE3MMV EMMANUEL, 519-753-1456
3el BEAM SUCH AS TA33JR, LIGHT DUTY

VE3FDK JOHN, 385-0422
FT707 SERVICE MANUAL

JIM THOMAS, 544-5886
2m PORTABLE OR MOBILE, OR DUAL BANDER CAPABLE OF XMITTING 160-162MHz, PREFERABLY DUPLEX

For Advance Tickets and Table Confirmations Send To:

Fleamarket Chairman
Ray Jennings, VE3CZE
61 Ottawa Crescent
Guelph, Ontario
N1E 2A8
Phone: 519-822-8342

NAME: CALL:

STREET: CITY: PROV: CODE:

Tickets at \$5.00 = \$

Tickets at \$8.00 = \$

TOTAL ENCLOSED = \$

MAKE ALL CHEQUES PAYABLE TO:
CENTRAL ONTARIO AMATEUR RADIO FLEAMARKET

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:

\$25.00 per year with 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 (VE3EJK) or Stan (VE3GFE) 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 VE3JSD 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).

ANNOUNCING

THE BIGGEST AMATEUR RADIO FLEA MARKET IN CANADA. THE 10TH ANNUAL

DURHAM REGION AMATEUR RADIO AND COMPUTER FLEA MARKET

Organized by: South Pickering A.R.C., VE3SPC
North Shore A.R.C., VE3NSR

Date: Saturday, April 13, 1991

9:00 a.m. to 2:00 pm

Location: Pickering High School,

Church Street, Pickering Village, Ajax

Admission: \$5.00 (Includes Superprize Ticket!)

VENDORS

Doors open 7:30 a.m. (Vendors Only)

Tables \$10.00 (per 6 Ft.) + Admission

Reservations are payable to:

South Pickering Amateur Radio Club

P.O. Box #53

Pickering Ontario

L1V 2R2

INFORMATION AVAILABLE FROM:

Ken Grant VE3PIT

(416) 283-6271

Mike Sherba VE3DKM

(416) 723-7674

TABLE RESERVATIONS:

Ron Brown VE3MZ

(416) 839-3711

TALK IN FREQUENCY

VE3SPA Input 147.975 Output 147.375

VE3OSH Input 147.720 Output 147.120

Door Prizes!
Commercial Displays!
Refreshments Available

