

THE 15th ANNUAL CENTRAL ONTARIO AMATEUR RADIO FLEAMARKET

GUELPH AMATEUR
RADIO CLUB

JOINTLY SPONSERED BY:

KITCHENER-WATERLOO AMATEUR
RADIO CLUB

SATURDAY, JUNE 10th, 1989

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

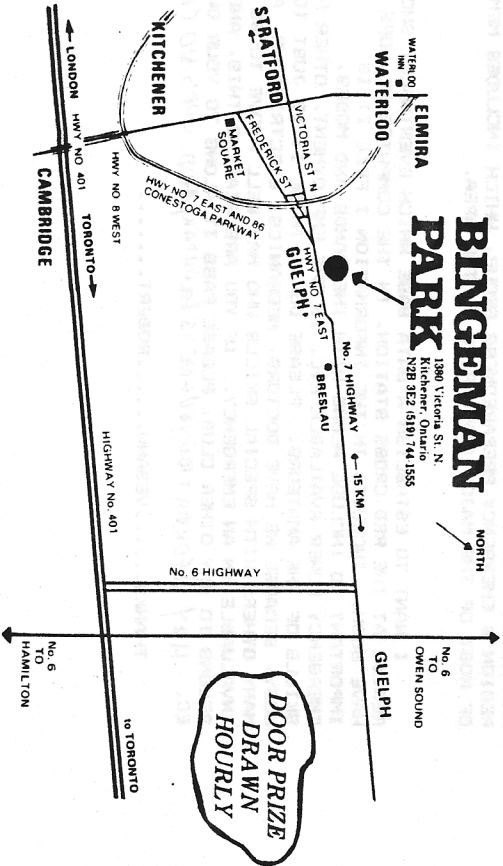
General Admission - - - \$5.00

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 1989
(Established 1932)

CLUB MEETING

17 May 1989

Home Brew Night!

The Crawford Trophy will be awarded to a ham who brings in and describes a goodie that has grown from a fertile "Junk Box"

HARC EXECUTIVE FOR 1989:

PRESIDENT:	VE3HTC	Dave Rypma	689-3014
PAST PRESIDENT:	VE300X	Everett Friglet	578-2458
1st VICE PRESIDENT:	VE3JTO	Michael Spenuk	389-1780
2nd VICE PRESIDENT:	VE3HTF	Paul Fleck	AUTO DI 80
SECRETARY:	VE3LMS	Grant Sewell	335-4034
TREASURER:	VE3SRK	Richard Leash	547-4878
MEMBERSHIP:	VE3JSJ	Gordon Murray	575-3647

HARC COMMITTEE CHAIRPERSONS FOR 1989:

AWARDS & CONTESTS:	VE3AAH	Gordon Barber	383-9161
HISTORIAN:	VE3BLG	George Olenick	383-7338
PROPERTY:	VE3ARX	Bill McCaslin	634-5190
BULLETIN EDITOR:	VE3SON	Jim Walsh	689-6839
EDUCATION:	VE3RHO	Glen Gibson	385-2786
EMERG. COMMUNICATIONS:	VE3NYC	Paul Hazen	664-5247
EMERG. PREPAREDNESS:	VE3LWV	Robert Clarke	AUTO DI 34
FLEA MARKET:	VE3LMS	Grant Sewell	335-4034
HEALTH & WELFARE:	VE3GFE	Stan Boilpruch	528-4002
PROGRAMS:	VE3JTO	Michael Spenuk	389-1760
PUBLIC-SERVICE:	VE3GCP	Fred Robinson	575-5197
PUBLICITY:	VE3GCP	Volunteers needed!	
REFRESHMENTS:	VE3DSP	Glen Simpson	385-9478
REPEATER:	VE3BYM	Ralph Turis	388-6146
SWAP NET CONTROL:	VE3MWH	Mark Gibson	389-4308
TECHNICAL:	VE3HTF	Paul Fleck	Auto DI 80
VE3DC LICENCEE:	VE3FHQ	Glenn Gibson	385-2786
VE3NCF LICENCEE:	VE3DSP	Glenn Simpson	385-8478
VE3RCB LICENCEE:	VE3FDK	John Kassay	385-0422
CODE TESTING:	VE3CIB	Bob Wilson	383-2054
	VE3BK	Norm Smith	385-5661

FROM THE BULLETIN BOARDS

ARRL

An amateur radio station is scheduled to fly aboard the space shuttle in march 1990. Approval for the inclusion of the space shuttle amateur radio experiment called SAREX on the secondary payload list of flight STS 35 has been received from national aeronautics and space administration headquarters. Ron Parise, WA4SIR, a payload specialist for the ASTRO 1 payload to be carried on that flight will operate the station in the orbiting shuttle. Representatives of ARRL and SAREX, cosponsors, the radio amateur satellite corporation, AMSAT, stated that they learned of the approval at a meeting with NASA officials held on March 14 at the Lyndon B Johnson Space Center in Houston. WA4SIR will communicate with amateur operators worldwide using voice and video communications as well as packet radio. The orbit of the shuttle will allow amateurs located between approximately 46 degrees north and 46 degrees south latitudes to communicate directly with the shuttle. The SAREX transmissions from the space shuttle will be such that a standard scanner radio can receive them. The approval for SAREX operation is contingent on final approval by Johnson Space Center of the SAREX hardware and operations plan and on prioritization of secondary payloads for the STS 35 flight.

CARF A new Radio Communication Act, identified as Bill C-6, is almost ready for passage into law. It is the same in substance as the one which died last August when the election was called. The proposal to establish ticket offenses, which may interest amateurs, was introduced in the last act but has been revised to provide more statutory protection to offenders. Otherwise, the changes are minor or editorial and include the splitting of some sections and the re-numbering of most sections. A section-by-section comparison is therefore not possible. Amateurs, listeners and Consumers will benefit from this Act because it will place responsibility for the proper design and construction of "radio-sensitive" electronic equipment on manufacturers where it belongs. Amateurs should follow the passage of this Act through the House and support it with letters to their M.P. in order to forestall any attempts to weaken the Bill and the Government's control of radio susceptible equipment. Copies of the new Act should be available now from DOC Regional Offices. Action on 10 GHz. A group of Ottawa Amateurs will be experimenting on 10 GHz this summer. Government disposal portable units running 25 mw to a self-contained dish antenna. Tunable Klystron. FM modulation. 12 V operation. VE3FN and VE3BBM have QSO'd 5km on first quick tests. CRRL

Once again, FAR, the Foundation for Amateur Radio (ARRL-affiliated, but not to be confused with the ARRL Foundation) is sponsoring scholarships for radio amateurs engaged in full-time studies beyond high school. Canadian amateurs attending Canadian community colleges and universities are eligible for many of the scholarships which range from \$US 500 to \$US 2000. For more information, write to Hugh Turnbull, W3ABC, FAR Scholarships, 6903 Rhode Island Avenue, College Park, Maryland 20740.

There's a new procedure for requesting special amateur call sign prefixes to commemorate anniversaries or promote special events. Requests should now sent to a DOC district office. Decision to grant a special prefix will be made by

Notes on the Patch Box:

1. DOC refers us to Radio Information Circular #25, section titled, "Intercommunication and Technical Experiments", and quotes the Act as follows: "59.(1) The operator of an amateur station shall ensure that (a) communications are exchanged only with other licensed amateur stations; (b) his station is not used to retransmit types A3 or F3 emissions on frequencies below 28 MHz if such emissions are received from a station that is not authorized to use such emissions on frequencies below 28 MHz; (c) communications are limited to messages of a technical nature or of a personal character for which, by reason of their unimportance, recourse to the public telecommunication service is not justified; and (d) no secret code or cipher is used." DOC also would frown upon *radio* use of any equipment in a crossband repeater mode. Be advised.

3. Amateurs must not interfere with other services, including telephone. This device loads their lines much less than one extension; nevertheless Bell is very edgy about disruptions to their impedances, strange traffic on its cables, etc. Ensure that you comply with Part II, Sec. 59, (1)(c) above. Also disconnect when through, otherwise hand audio is present on idle Bell cables.

4. The functions of the transformer are (a) Isolate phone circuits from station ground, excessive audio levels, and undue impedance changes, (b) bring transfer bus signals to the phone line at a suitable level. I used a transformer. I happened to have; do lots of checking of levels before using yours.

5. The 0.47 uf capacitor blocks d.c. present on some mike input circuits, e.g. the ICOM IC-2AT. Anything from .05 up would doubtless do.

6. This box presupposes 8 ohms device outputs; and can provide 100 mv to a mike input - FAR more than you are likely to need. It's up to you to find and measure gain settings to drive your various rigs. Use a dummy antenna when testing. Bell line nominal impedance is 600 ohms; this device shunts an impedance of well over 10,000 ohms, nearly pure resistance, across the Bell line, which is less disturbance than they get from a rainy day. If you change any of the components, be sure you know what you're doing. Tape recorder's have very powerful egs; they'll tolerate a wide range of inputs.

73, Frank, VE3DPC.

FROM THE BULLETIN BOARDS (Cont'd)

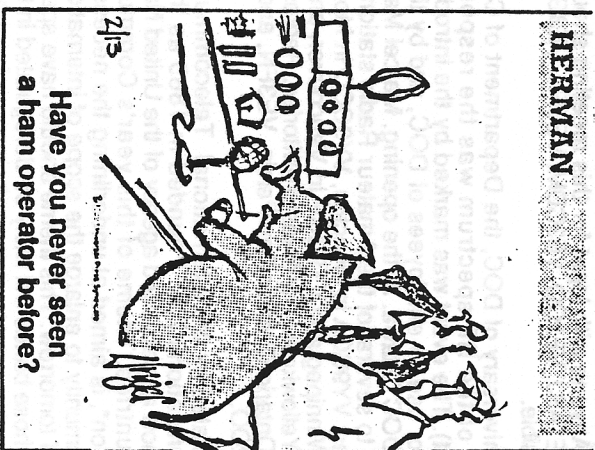
around the world: co-operation, by voluntarily following band plans worked out through the representative mechanisms of IARU, the International Amateur Radio Union.

It's not too early to make plans to attend the CRRL National Convention, to be held in Winnipeg, Manitoba, on August 18-20. The theme, "Amateur Radio at the Crossroads", is particularly appropriate, given the many changes coming to the Canadian Amateur Service in the near future. And keynote speakers, world-famous globe-trotting DXers Irs and Lloyd Colvin, promise a lively presentation. Be there! For more information, write to Winnipeg ARC, Box 352, Winnipeg, MB R3C 2H6, AR.

A special ARRL committee has released a report recommending creation of a no-code licence in the US. (CRRL President Tom Atkins, VE3CDM, served on this committee as a consultant.) The committee favours a new class of licence with a written test somewhat more comprehensive than that for the present US Technician-class licence. Holders of the new licence would operate above 30 MHz, on all frequencies and with all privileges presently available to US Technicians, except that 2-metre operation would be limited to digital modes between 144.9 and 145.1 MHz. Full text will appear in May QST.

FUTURE EVENTS

2304-MHz Sprint - May 18 Namao AB Northern Alberta Hamfest - May 26-28 Hallfax NS Fleamarket - May 27 ARRL 50-MHz Sprint - May 27-28 CQ WW WPX Contest - CW - May 27-28 Sorel PQ Quebec Provincial Hamfest - May 28 Kitchener ON Central Ontario Fleamarket - June 10 ARRL VHF QSO Party - June 10-12 Red Deer AB Picnic - June 16-18 ARRL Field Day - June 24-25 73.



EMERGENCY COMMUNICATIONS

Some club members have received their first Emergency Red Cross phone list. Many thanks to the present and future volunteers.

Here is how the phone list works:

Level-one personnel will contact the next four persons in a vertical row i.e. HTC, JSJ, LWD and FHQ. Level-two personnel will then attempt to contact the next person available in a horizontal pattern.

Upon receiving an alert, please QSY to VE3NCF repeater and check in. In the event of a repeater failure the output frequency 146.760 will be used simple. You will be advised of the situation and where to report.

Any ham in the region may be a volunteer. If you wish to help please phone me at 664-5247. Existing members are requested to provide work or alternate contact numbers which will be held in strict confidence at VE3RCB station.

There will be one announced practice and an unannounced practice check-in. Please keep the date of May 16th. in mind.

73 Paul Hazen, VE3NYC.

73 Paul Hazen VE3NYC.

MEMBERSHIP REPORT

I am glad to report that membership for 1989 stands at 113 compared to 116 this time last year. In view of the dues increase from \$20 to \$25, this is very encouraging. On behalf of the H.A.R.C. Executive I want to thank you for this. We have made an excellent start in 1989, and look forward to the rest of the year as we explore Amateur Radio and welcome NEW HAMMS to the Club.

73's Gordon, VE3JSJ (Membership Chairperson).

FIELD DAY JUNE 24 & 25 1989

At the executive meeting Paul, VE3HTF reported on plans for field day. He noted that ARRL had made some modifications to the rules giving bonus points for various aspects of public relations.

Some band captains are still needed, for information call Robert Clarke, VE3ANW at 383-9083. He would also like to hear from those who plan to participate in any other activity. If we can get a group for each band we can do even better than last year.

Let's go!

Paul, VE3HTF (Field-Day Coordinator)

P.S. The Club Banner has been found..

FROM THE BULLETIN BOARDS (Cont'd)

staff at a DOC regional office rather than by DOC, Ottawa.

Travelling this summer? If you are planning a trip to any foreign country other than the United States, you must apply for a licence, even if Canada has reciprocal operating privileges with that country. It's wise to apply early. CRRL has information and application forms for most countries. Write to CRRL, Box 7009, Station E, London, ON N5Y 4J9.

There's hope on the horizon for Canadian Amateur Radio operators and other users of the radio spectrum who are plagued by radiation from cable television systems. Ted Rogers of Rogers Cable Television, Western Cablevision, etc, is quoted in Peter C Newman's "Business Watch Column" in 1989 March 20 Maclean's magazine as saying: "We're going to rebuild our systems with fibre optics". A subsequent report in the London Free Press indicates that London, Ontario, may be one of the first cities in Canada where cable television will switch to this new technology.

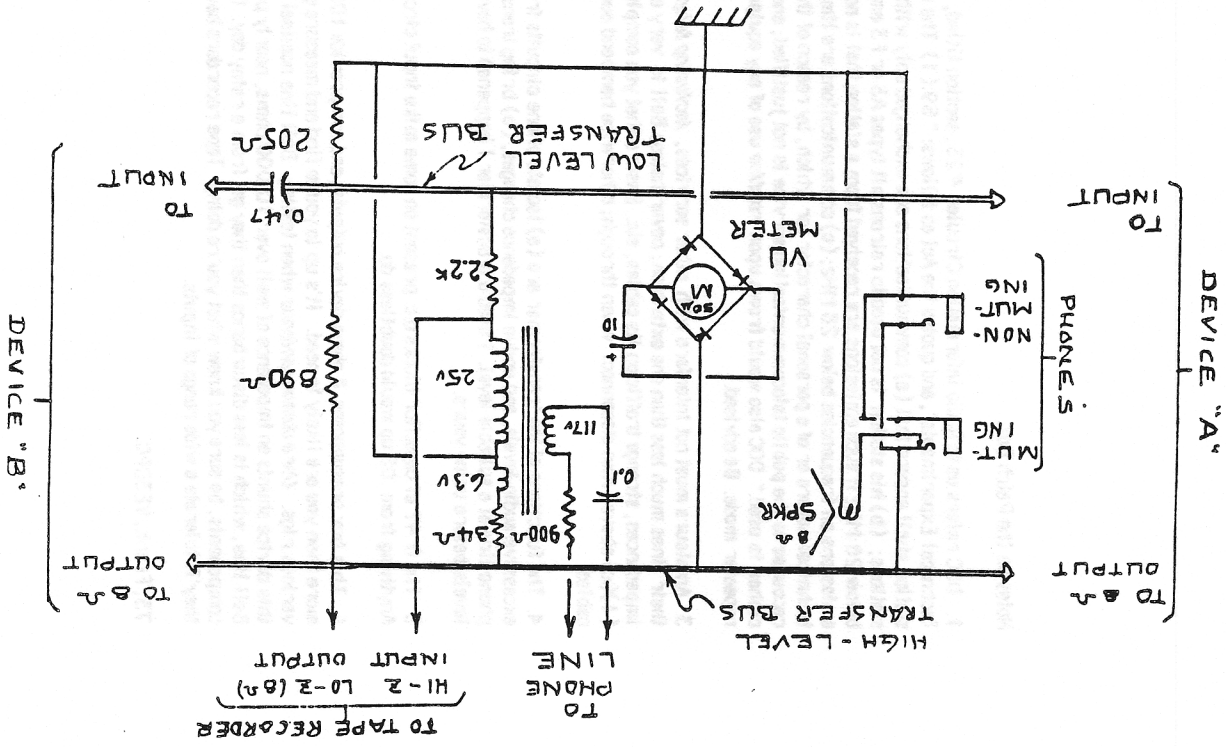
Who's going where? Fred Hammond, VE3HC, well known to most Canadian amateurs, will be main speaker at the OCWA Banquet in this year's Dayton (Ohio) Hamvention. Topic: the Polar Skitrek Expedition in which Fred played an important behind-the-scenes role. And CRRL President Tom Atkins, VE3CDM, will participate as an observer at the IARU Region 1 (Europe and Africa) Executive Committee Meeting, to be held in Torremolinos, Spain, at the end of this month.

The 1989 Annual Meeting of the CRRL Board of Directors will be held in Rexdale, Ontario, on May 20-21. Anyone with input for this meeting should contact their nearest CRRL Director, VE1ASJ, VE2QO, VE3CDM, VE3FN, VE3GRO, VESAFO or VE7EWI, as soon as possible.

April 3 was the 20th Anniversary of DOC, the Department of Communications (before, management of the RF spectrum was the responsibility of the Department of Transport). The event was marked by the introduction of a new block of calls -- VE9 -- for use by employees of DOC, and by the opening of a club station, VY9CC, at DOC Ottawa. At the opening, Marcel Masse, Minister of Communications, spoke to several of the Amateur Radio stations now set up at DOC's five regional offices: VY9CCA in Moncton, VY9CCQ in Montreal, VY9CCO in Toronto, VY9CCC in Winnipeg and VY9CCP in Vancouver, and to VY9CYK at the DOC district office in Yellowknife, Northwest Territories. Representing CRRL at the celebrations: CRRL Ontario Director Ray Perrin, VE3FN, and CRRL Quebec Director Bruce Balla, VE2QO.

May 17 has been designated by the International Telecommunications Union (ITU) as World Communications Day. Founded in 1865 as the International Telegraph Union, ITU is now a specialized agency of the United Nations, and has a membership of 166 countries. "Theme of this year's Communications Day, "International Cooperation", is aimed at underlining the necessity of the world telecommunications community to enlarge the scope of international cooperation to meet the challenges of tomorrow. This theme should have special significance for Canadian amateurs whose bands will likely be deregulated in the coming year, technically allowing them to operate any mode on any frequency within their bands. Key to Canadian amateurs maintaining the respect of their counterparts

ALL DEVICE CONNECTIONS ARE VIA SHIELDED FLEX CABLE WITH SUITABLE PLUGS AND ADAPTORS AS REQ'D.
 THE "PATCH ANYTHING TO ANYTHING" BOX VE3DPC *Frank* DEC. '88



DEVICE "A"

DEVICE "B"

Bibliography (partial)

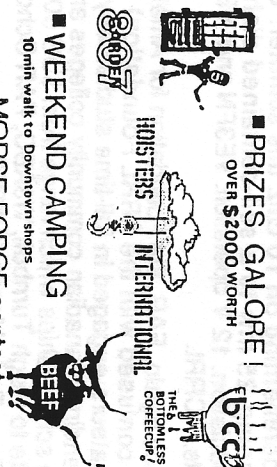
Overview	GST 1985 July	p 14	"What's All This Packet About Packet?"
For Beginners	Ham Radio 1989 Mar p 96		Elmer's Notebook: "Packet Radio for the First-timer"
	GST 1986 Oct	p 64	Online: "More Packet Radio POPCORN"
	Ham Radio 1987 Oct p100		Elmer's Notebook: "Packet Radio"
	Ham Radio 1985 Dec p 30		"Packet Primer"
TNC Description	GST 1985 Aug	p 17	"A Closer Look at Packet Radio"
Public Service	GST 1986 Sept	p 53	"Packet Radio in Emergency Communications"
Other	Ham Radio 1988 Aug p 10		"HAPN 4800 bd Modern"
	Ham Radio 1986 Aug p 10		"HAPN TNC Board"
	Ham Radio 1988 Feb p 33		"Amateur Packet Networking and Protocols" (3 parts)
	1988 Mar p 56		
	1988 Apr p 41		
	Ham Radio 1987 Apr p 24		"Conference Bridge"

The above is by no means an exhaustive list and covers articles from only two of the Amateur Radio magazines on the market. Look around and you will find many books as well as other articles on this most fascinating of modes.
 Dave Rypma VE3HTC

FIFTEENTH ANNUAL ONTARIO HAMFEST®

MILTON FAIRGROUNDS
 Saturday, JULY 8 1989

- PRIZES GALORE! OVER \$2000 WORTH
- WEEKEND CAMPING 10min walk to Downtown shops
- SUPERPRIZE II COMPLETE OUTFIT
- MORSE FORCE contest



THE HAMILTON AMATEUR RADIO CLUB

BOX 253 Hamilton Ontario Canada L8N 3C8.

CLUB MEETINGS:

8:00pm on the 3rd Wednesday of each month except for July & August, in the Nash Auditorium, Chedoke Hospital. Non-members & friends are welcome - coffee and donuts on the house!

EXECUTIVE:

Meets on the fourth Wednesday of the month, except July & Aug, 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 are being held in the Radio Room, Red Cross Building 400 King St East on Thursday evenings at 7:00 to help those who want to take their Amateur Licencing tests. Call Bob, VE3CIB (416-383-2054 in Hamilton) or 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 Paul, VE3HTF for information.

SWAP-NET:

Every Tuesday at 8.00 pm on VE3NCF (146.76/16) except during July & August. Contact Ralph, VE3BYM (388-6146) if you have items to buy or sell.

FLEA-MARKET:

Held during October each year (Thanksgiving Day Weekend).

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 145.030 FM.

FROM THE EMERGENCY PREPAREDNESS CO-ORDINATOR

AT ANY TIME OF THE YEAR THERE IS THE POTENTIAL FOR THE NEED TO HUNT A TRANSMITTER, FROM THE E.L.T. (EMERGENCY LOCATOR TRANSMITTER) IN A DOWNED AIRCRAFT, A HAM FROM OUT OF OUR AREA INVOLVED IN AN ACCIDENT, INTERFERENCE ON OUR OWN FREQUENCIES DURING AN EMERGENCY OR EXERCISE, AND INTERFERENCE FROM COMMERCIAL STATIONS WHICH ARE NOT MAINTAINED PROPERLY, NOT TO MENTION THE EMERGENCY THAT NEITHER YOU OR I HAVE THOUGHT OF YET! SO I AM PROPOSING TO MAKE AVAILABLE AS AN INCENTIVE, ONE OF MY INFAMOUS SWISS QUAD QUAGLES TO BE BUILT IN THE POLARIZATION OF CHOICE BY THE WINNER OF A CONTEST. THE CONTEST IS TO CONSIST OF NOT LESS THAN 4 FOX HUNTS AND PREFERABLY 6 TO BE HELD OVER THE NEXT YEAR. ELIGIBLE HAMS MUST LIVE IN THE AREA COVERED BY, BUT NOT NECESSARILY BE MEMBERS OF, THE HAMILTON AND BURLINGTON AMATEUR RADIO CLUBS. I WOULD LIKE THE JUDGING DONE BY A COMMITTEE OF 3 OR 5 FROM THE EXEC OF BOTH CLUBS AND THEM TO BE NON PARTICIPANTS IN THE HUNTS. PRIZE TO BE AWARDED IN JUNE 1990.

AT THE MOMENT I AM TRYING TO CONTACT GARY OSTOPI, WHO IS WORKING FOR THE REGION IN THE EMERGENCY PREPAREDNESS OFFICE. HOPEFULLY WHEN I DO, WE WILL BE ABLE TO ORGANIZE SOME INPUT FROM THE LOCAL CLUBS TO THE NATIONAL CONFERENCE ON DISASTER MANAGEMENT, TO BE HELD IN THE CONVENTION CENTRE IN HAMILTON, NOVEMBER 22-25, 1989. I ALSO WANT TO ARRANGE FOR PAUL VE3NYC AND MYSELF TO BE ABLE TO ATTEND THE MONTHLY MEETINGS OF THE REGION'S EMERGENCY PREPAREDNESS GROUP, WHICH INCLUDES MEMBERS OF MOST OF THE MAJOR INDUSTRIES IN THE AREA.

I WANT TO ESTABLISH A DATA BASE WHICH EVENTUALLY SHOULD RESIDE AT THE RED CROSS STATION, IN THE COMPUTER WE HOPE TO HAVE SOON. INCLUDED IN THE INFORMATION I FEEL IT IS IMPORTANT TO INCLUDE ALONG WITH THE BANDS AND MODES, EMERGENCY POWER AVAILABLE ETC. IS THE EMPLOYMENT, OTHER HOBBY SKILLS OF THE AMATEURS. PLEASE DON'T THINK IT IS JUST TO BE NOSY, BECAUSE WE HAVE DOCTORS, MECHANICS, ELECTRICIANS, AND MANY OTHERS WITH SPECIAL SKILLS WHO MAY WELL PROVE TO BE INVALUABLE IN AN EMERGENCY. IF YOU ARE READING THIS, AND BELONG TO ANY OTHER CLUB, PLEASE PASS IT ALONG TO YOUR OWN EC. Any information you can give is valuable, AND GODS NO FACT #K.

THANKS.....VE3ANW.....ROBERT.....