

# THE HAMILTON AMATEUR

HAMILTON AMATEUR RADIO CLUB INC. P.O. BOX 253 HAMILTON, ONTARIO L8N 3C8

VE30ZY

Rick Danby (M8712)
6 Clinton Street,
Hamilton, ONTARIO,
L&L 3J8.

# THE HAMILTON AMATEUR RADIO CLUB INC.

Established 1932

P.O. Box 253, Hamilton, Ontario, Canada. L8N 3C8

# 1987 OFFICERS & DIRECTORS

PRESIDENT	:	Gordon Barber	VЕЗААН	383-9161
PAST PRESIDENT	:	Glenn Gibson	VE3FHQ	385 2786
1st VICE-PRESIDENT	:	Everet Englert	VE30QX	578-2458
2nd VICE-PRESIDENT	:	Peter Goodson	VE3DOU	387-2585
SECRETARY	:	Wayne Staat	VE3LWD	561-2253
TREASURER	:	Bob Wilson	VE3CIB	383-2054
MEMBERSHIP	:	George Olenick	VE3BLG	383-7338

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CLUB PROPERTY		Bill McCaslin	VE3ARX	634-5190
EDITOR EDUCATION	:	Jim Walsh	VE3PON	689 6839
EMERGENCY SERVICES	:	Jack Heywood	VE3JTR	689-4406
HEALTH & WELFARE	:	Stan Bolibruch	VE3GFE	528-4002
PROGRAMS	:	Everet Englert	VE30QX	578-2458
PUBLIC SERVICE	:	Fiore Manga	VE30QG	560-6329
PUBLICITY				
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REPEATER	:	Glenn Simpson	VE3DSP	385-8478
SWAP NET CONTROL	:	Ralph Tufts	VE3BYM	388-6146
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TECHNICAL	:	Paul Fleck	VE3HTF	383-1101
VE3DC LICENCEE	•	Glenn Gibson	VE3FHQ	385-2786
VESNCF LICENCEE	:	Ed Charlesworth	VE3ZF	634-2520
VE3RCB LICENCEE		John Kassay	VE3FDK	385-0422

The Hamilton Amateur Radio Club meets at 8:00 pm on the 3rd Wednesday of each month except July & August. The location is the Nash Auditorium, in the Chedoke Hospital grounds, Hamilton. Non-members & friends are welcome.

Membership fees are \$20.00 per annum with a common renewal date of January 1st. Included is a subscription to the club bulletin. Family memberships are available at \$1.00 for each additional person.

VE3NCF Repeater is owned and operated by The Hamilton Amateur Radio Club. It is located on the Hamilton escarpment and is available for use by any amateur within range. Input is 146.160 MHz Output is 146.760 MHz

The swap net is held on VE3NCF every Tuesday at 8.00 pm except during July & August.

# APRIL 1987 MEETING THE HAMILTON AMATEUR RADIO CLUB

Wednesday, April 15, 1987 DATE:

8 O'clock P.M. TIME:

Nash Auditorium, Chedoke Hospital PLACE:

SPEAKER: John Summach VE3MFA

Radio Frequency Interference. TOPIC:

# THE PRESIDENTS MESSAGE

A couple of years ago the H.A.R.C. big project was a new I44 MHz repeater installation with bells, whistles and gongs.

The big project this year is the Red Cross amateur station installation. It involves equipments and antennae for UHF and I44 MHz operation. Initially the equipment is that owned by H.A.R.C. Eventually it is possible that the Red Cross will obtain funds

to purchase more modern equipment.

The Hamilton Red Cross is very interested in amateur radio as a means of communication when an emergency occurs. At such times the regular sources of information are not totally satisfactory. This year on July Ist it has been proposed that H.A.R.C. set up an amateur station in Gage Park. Operations will be on UHF and

144 MHz. It will be an excellent opportunity to demonstrate amateur radio station operation to a large group of people. Informationsheets could be given to those who show interest, on how to go about obtaining an amateur operator; s station license.

> H.A.R.C 1987 President Gordon Barber VE3AAH

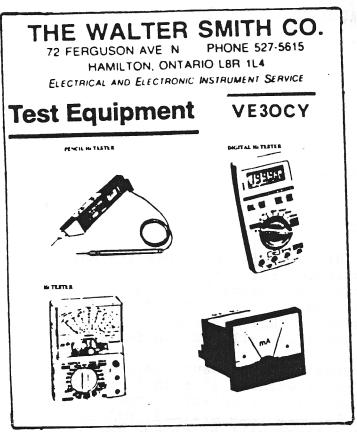
The Auditor's report for 1986 has been accepted and will be included in the bulletin next month. Thanks to Gerry Goldberg VE3HLI and Bernie Granby VE3EKY.

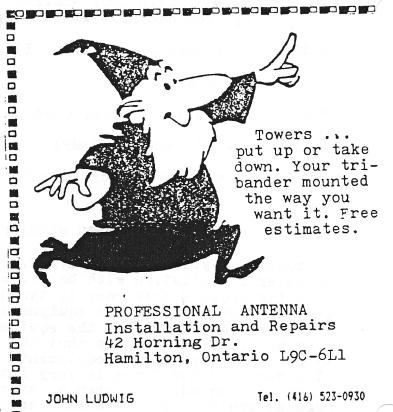
Dates to remember April II Durham Regional Flea Market, Pickering High School, Ajax. May II The Amstel Marathon.

June 6 Central Ontario Flea Market, Guelph & Kitchener-Waterloo ARCs, Bingeman Park, Kitchener.

At the April 15th meeting we will be honoring the Recipients of the "Order Of Merit" and the Certificates will be given out at this time. These members are: Mike Spenuk VE3JTQ, Fiore Manga VE30QG and Ralph Tufts VE3BYM. Please try to be on hand to personally give your thanks to these members for their work on your behalf in helping to keep the club running smoothly.

> NORM





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# The Canadian Red Cross Society

# SOUTHERN REGIONAL OFFICE

# La Société canadienne de la Croix-Rouge

% King Street East, Hamilton, Ontario L8N 1C3 (416) 522-8485



March 3, 1987,

Mr. Bill McCaslin, 704 Cedar Avenue, BURLINGTON, Ontario, L7T 2R7.

### Dear Bill:

This letter is to recap our conversation today about the possibility of recruiting volunteers from your Amateur Radio Club who would be willing to help us out in the day-time in case of minor emergencies.

In the event of a fire in the city of Hamilton during the day time, if a person or family is burned out and has no place to stay, the Red Cross will provide emergency help for a period of up to 72 hours after the fire. We have arrangements set up in place to provide food, shelter and clothing for the fire victims.

In the event of a fire occurring during the day time, the Fire Department would contact the name of a volunteer on the day roster list (provided to them by the Red Cross), and request that assistance be given to the person/family. The volunteer would then drive a Red Cross wagon to the address given by the Fire Department and arrange to pick up the person/ family and take them to the motel we use to house people during a minor disaster (Town Manor Motel, Main and Caroline Streets in Hamilton). The volunteer would then assess the immediate needs of the family - such as whether an emergency supply of clothing is needed. If it is, the volunteer would then take the family to Eatons Basement and help the family purchase some basic clothing items. During the 72 hours that the Red Cross looks after fire victims, it becomes the family or person's responsibility to find new accommodation or work with their social worker/home care worker etc. Our responsibility is to provide immediate temporary relief for 72 hours.

The volunteers would not find themselves called out often as hopefully fires will not occur regularly. However, we do need to be covered during the day time, in order to be able to respond to this important need. Those volunteering would be given an orientation session by the Red Cross and provided with the necessary kit bag/forms etc.

The day time volunteers would be on call from 8.30 a.m. - 5.00 p.m. Having six volunteers on the list should ensure that someone is at home to receive a call and cover for vacations etc.

We would welcome any of your members who could see their way to volunteering for this worthwhile duty. Fire is a very frightening event and none of us know when we might be a victim. It's comforting and regarding to know that there is a system in place through the Red Cross that can help people out during a tragic time. The hours would not be onerous and it may be (hopefully) that the day-time volunteers would not get a call in months but we must be ready to act when called upon.

We would appreciate it if you could make mention of this at your next meeting of the Club and if an item could be placed in your newsletter.

Any help any of your members can give us would be sincerely appreciated. Thanks for your help with this project, Bill.

Look forward to meeting you again when you are next down at the Red Cross.

Yours sincerely,

Fenella Townsend, Manager, Community Services.

P.S. I would estimate that each fire emergency call for the volunteer would take between 2-3 hours, so we are not talking about a big time investment.

# CALL SIGN BOXES (March 17

## PA.R.C. MAIL BOXES (March 17 / 6 | CALL SILM | Solve | 10 | KB6AW Bill | Allen VE3HNG 66 | KB6AW 10 Bill | 11 | VE3ZF Edd | Allen VE3HNG 66 | KB6AW 10 Bill | 11 | VE3ZF Edd | Barnard VE3HNG 66 | CALL SILM | Solve | CALL SILM | CAL

1, Jalan Kantan (RS1) Taman Uda Jaya 68000 Ampang Selangor, MALAYSIA 24 February 1987

Dear Glenn and family (and fellow Hams in Hamilton and area),

This letter has been in the planning and thinking process far too long, but I thought I should get some Malaysian operating experience under my belt before I sent you some of the details. Well it's been some months now since I fired up the old FT301D for the first time on the 10th of October 1986. Sad to report, conditions from this side of the world for the equipment and antenna I'm using are not conducive to contacting anyone on the North American continent. I've only hear a few - several W6's, one London and one Ottawa VE3. Those guys were all running large linears with superb antennas; I couldn't get any of them. Conditions in this part of the world have been OK, though. I've managed to work Europe regularly, Africa, USSR, China, Australia, Borneo, Diego Garcia, Christmas Island, etc. That list sure is different from what you would expect to see in Hamilton from a modest station during the lowest of lows in the sunspot cycle. I did manage to talk to George Collins (VE3FXT/7P8BE) in Africa a couple of times. Hope to do so again; it's kind of nice to find someone out there in the ether who's a familiar voice.

My station is barely able to put out about 70 to 80 watts with a rebuilt PA on the FT301D (some of you may remember me showing you those blown final transistors during my Amateur Radio classes in years past). The antenna is so far a piece of wire strung to a pole in the front yard — a reasonable end-fed, but only about 25 feet off the ground. That setup really needs the tuner I'm using. I can load that noodle up on 40, 20, 15 and 10 meters (although 10 doesn't appear to have much activity when I've tried it — no locals). Forty meters here is a bit of a disappointment because we only have 100 KHz to 7.1 MHz and even that part is loaded with commercial junk in the top half. I still have plans to put up a better wire beam antenna in future, but time seems to be one thing in about supply here there were that I should do next the bound of the time to do it (both in my work and hobbies).

Some of you who are equipped with IBM-compatible PC's may be interested in a logging program I have written over the past few months; it records 300 characters of information (or less if you either don't like typing or you want to pound out the contacts as fast as you can) on each contact with a minimum of repeat input, supports keyed access by call, date, mode and frequency, allows you to mark contact groups for such things as contest and other special operating events, has comprehensive reporting capabilities and is configurable to the tastes of (I hope) most hams. This program allows you to query your contact file while you are on the air and drag up any previous contacts you may have had with the same call in the past as well as log the contact on the fly - more operating time and less (none?) paper work. The program requires a 256K PC and is written in Pascal. Any of you who are interested can get a copy from me at no charge (you supply the diskette).

I had hopes of getting on the air here with Color SSTV using the Ribbit scan converter, but parts are just too hard to come by so that project will have to await my return to Canada in July; after all, I will need scanting to do when the snow flies again next winter (I can tell you, I'm not looking forward to it after two years of tropical conditions!!).

There are currently about 200 Amateur Radio operators in Malaysia, many of whom I have heard on the air; there certainly isn't any reason why any active ham shouldn't have a 9M2 card on the wall. Kuala Lumpur also has its own 2 meter repeater to serve the area, although it's one of only two in the country. I haven't used the ICO2AT much here; interference to the repeater can sometimes be quite severe and you require a separate license to use the radio in the car.

Well, hope I've answered some of your questions about ham radio in Malaysia and I hope to see all of you again this summer in Hamilton and surroundings.

Incidentally, I would like to take this opportunity to thank those of you who attended the get-together at the Plainsman last summer; my wife and I both enjoyed and appreciated it.

Best of luck to you and the Hamilton Amateur Radio Club during the coming months.

Dave Rytma

9MZHT

# CONCERNING PROBLEMS OF INTERFERENCE

In view of the apparently deliberate interference which we have been experiencing recently on our repeater VE3NCF, I was interested to read the following instructions given to control operators on the VE3ULR repeater and associated link system.

Control operators are instructed to close down repeater VE3ULR and associated links for the following reasons only:-

- 1. Profane or abusive language.
- Use of the Repeater system for calls with a commercial content.
- Any discussion or complaining whatsoever about deliberate interference on VE3ULR or on any other repeater.

The reasoning behind item #3 is that the person or persons causing the deliberate interference get their jollies from from the frustration they cause to responsible users. If denied the satisfaction of hearing how frustrated we become, they will seek their kicks somewhere else.

I know how incredibly difficult it is to refrain from comment whenever an autopatch call is prematurely terminated by some idiot. There is however a technique, available to users, which makes it impossible for anyone other than the legitimate initiator, to terminate the call.

I also share with you all the concern about possible unfavorable reaction from the police forces in our area when the emergency numbers are dialed and disconnected whenever the number is answered. Perhaps it will be necessary to have a roster of repeator 'watch-dogs' who would terminate such calls unless legitimate I.D. is given.

However, the place to discuss these details is at club-meetings and with members of the executive, but not on the air.

So, next time some idiot interferes with your use of VE3NCF or any other repeater, make no comment just try again. And if at the last you don't succeed, sign off on some *other* pretext and try again later.

Submitted by VE3JSJ - Gordon.

P.S. I'm now on Packet - Slow-Scan next year!

THE SWAP Snor by halph VE3BYM	
VE3JL- Dave- 383-9888 amilton. Kenwood 7500 with 3.5 amp. power supply and manual.	\$200.00
VE30ZB- John- 536-2531 Burlington. Butternut HF6 Vertical with 160 meter coil. Alpha 76CA HF amp. 10 to 160 meters (uses 8874's).	175.00 2000.00
VE3FMN- wayne- 639-0106 Burlington.  Kantronics NPC2 Packet 300-1200 No n.F v.H.F. Yaesu 102 Hr xcvr 160-10 meters & warc, 300 watts.	<b>250.</b> @ 800 <b>.</b> 00
VE3JuR- Dave- 689-6671 Waterdown. Green monitor for computer.	100.00
E3NCN- Dert- 1-416-627-0573 West Flamborough.  2011 color T.V. pix tube replaced, would make a good mon	itor.1 <b>5</b> 0.00
VE3NWO- Serasino 662-4526 Stoney Greek. 17" Zenith color T.V.	100.00
VE3UIG- lom- 1-416-227-1522	
Sanyo 911 black and white used as a computer monitor 12/	120V. 50.00
SWL- Jack- 1-519-443-8802. Waterford.  18ADT Vertical Antenna.  Hallicrafter "World Wide Rovr. 6 Amateur SW xtals for the Drake RH series.	rm 50.00 115.00 30.00
vE3ISZ- Fred- 827-6824 wakville. Sig. Gen. 160 khz. to 112 mhz. \$20.00- marker Gen. CA Whot Bar Gen. WR64B-\$25.00- wacumn Desoldering station. Beckman #3020 Digital LCD readout volt meter 2-Power supplies 5 Volts 20 amps. 12 volts at 1 amp. 1- Power supply 5 Volts at 10 amp., 20 Volts at 1 amp. 1CE 2 meter xcvr 3 ch. 5 watts, 110 or 12 volts wid xts	100.00 50.00 20.00 20.00
VE3HOA- shil- 628-4290 Lundas. 450 mhz, FM xcvr. no manual.	125.00
VE3CBG- D- 1-416-682-8950 st. Catharines. 2AU 1 to balun - \$15.00 - T 16 voice syn.(Icom)2 mtr.	xcvr.60.00
VE3EMS- Peter- 1-416-774-8766  Yaesu FT726R All mode xcvr. 6,2,Mr, CW filter, spkr, mil	ke, man. \$1500.
VE3LWD- wayne- 561-2253 Hamilton Cushcrart ATB (A-4) 3 Element beam.  WANTS	200,00
W A N T S  VE30QG- Fiorie- 560-6329 Hamilton  Desk mike with lock for Yaesu (4 pin)	
VE30IG- Paul- 1-416-227-1522 St. Catharines.  2 meter all mode xcvr.	73 Polnh
VE3JUA- Sieb- 637-6266 Burlington. 1986 73 Magazine.	Ralph VE3BYM
VE3ISZ- Fred- Schematic #8K-2AFSK for keyer (827-6824) board for RTTY modem.	ilton Mountain

### Batteries!

Lead-acid batteries, being ugly, heavy, and with no moving parts, get ignored or mistreated. But they need TLC, and if given it will last a long time. Hints:

### Ampere Hours

A 50 ampere hour battery should deliver five amps for ten hours or any combination that will multiply to 50. On recharge, it must get fifty ampere hours back, plus extra for losses; e.g. about six amperes for 10 hours. The calculations are often done "at the ten hour rate" (five amps for a 50 AH unit) which leadacid batteries can absorb or deliver without distress. Ampere hour ratings are no longer often given; you have to guess. Most Canadian Tire type batteries are 40 to 60 ampere hours.

# Specific Gravity

Suphuric acid reacts with the lead peroxide active material to form lead sulphate and water, releasing electrical current to a load. Acid is denser than water, so we check the battery by measuring the specific gravity with a hydrometer. 1100 (really 1.1) or lower is "discharged"; most batteries are fully charged at 1275 to 1300.

## Sulphation

Recharging converts lead sulphate back to lead peroxide. But if a battery is left discharged this sulphate becomes permanent. The battery is "sulphated" and has lost capacity. We're told we have **EIGHTEEN HOURS** in which to recharge a dis-charged battery before sulphation starts. The experts have been trying to get around this for 50 years.

# Self Discharge and Trickle Charging

A new 60 ampere hour battery will go flat in 6 months (4400 hours). This is the same as about 14 ma. of continuous load. In the light of the above, a trickle charge should be 20-30 ma for a pretty hefty battery. But even the self-regulating type of charger delivers up to 500 ma - and this, once the battery is charged, dissociates water and runs the battery dry. And unregulated chargers will deliver four of five amps to the fully charged battery which loses water quickly, may well overheat, warping plates and doing other damage. A protective resistor will limit the charge. Start with possibly 20 ohms, half watt.

### Terminals

Terminals react with stray acid, moisture in the air, etc. to develop high resistance. Clean them with a wire battery brush and treat them with anti-corrosion grease. Never use a hammer.

## Safety

Batteries emit flammable hydrogen on recharge. Suphuric acid attacks skin, clothes, and eyes violently; wear glasses and gloves and keep a squirt bottle of bicarbonate of soda water solution ready. Internal resistance is very low; a solid short across a big battery melts tools, watches, finger rings. Carry batteries in a box with handles, and with dry soda in the bottom. Rinse off the battery with hot water now and again.

# Parallelling

Never leave batteries in parallel; their voltages differ slightly, and the higher voltage one will go flat charging the other.

### Cold and Heat

Chemical reactions slow down roughly 50% per 10 deg. C temperature drop. In winter store the battery outdoors; in summer, in a cool basement. But to use the battery, bring it to room temperature, as its capacity falls with temperature.

-end-

Frank VE3DPC

HR BULLETIN 9, FROM CRRL, LONDON, ONTARIO, 1987 MARCH 15, TO ALL RADIO AMATEURS BT

Item 1 DOC has officially informed CRRL and CARF that their Amateur Radio examination questions bank has been stocked with multiple-choice questions for all except the Digital Amateur examination. CRRL and CARF will be given printouts of the questions, and will be consulted before adding or changing questions. DOC is encouraging amateurs to submit changes or new questions through CRRL or CARF. The current practice of scheduling Amateur Radio examinations four times a year will end on June 01. After that, examinations will be scheduled as required, at the discretion of personnel in the DOC District Offices. There will be several different examinations in circulation. Examination papers will be reused. DOC also officially informed CRRL and CARF that it is studying the certification of private examiners. A project, designed to determine the best way of doing this, is currently under way in Ontario and Quebec.