

# THE HAMILTON AMATEUR

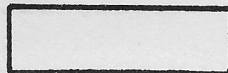
HAMILTON AMATEUR RADIO CLUB INC.  
P.O. BOX 253  
HAMILTON, ONTARIO  
L8N 3T8

FIRST  
CLASS



GERRY GOLDBERG  
17 COTRILL,  
HAMILTON, ONT.

VE3HL  
L8N 3T8



THE HAMILTON AMATEUR RADIO CLUB INC.

Club Station . . . . . VE3DC, VE3RCB

2 Meter Repeater .. VE3DRW . . . . . Input: 146.160 Mhz.  
Output: 146.760 Mhz.

1978 OFFICERS AND DIRECTORS

<u>PRESIDENT.</u>	STAN BOLIBRUCH VE3GFE	8 Rutherford Ave. Hamilton, Ont. L8M 1Y4.	528-4002
<u>PAST PRESIDENT</u>	JOHN DYKSTRA VE3BOY	14 Talbot St. Cayuga, Ont. N0A 1E0.	772-5372
<u>VICE PRESIDENT</u>	PETER GOODSON VE3DOU	28 Riverdale Drive, Hamilton, Ont. L8E 1J8.	561-1659
<u>SECRETARY</u>	NORM FREIDIN VE3CZI	42 Lester Street, Hamilton, Ont. L8V 4P5.	388-9813
<u>TREASURER</u>	GERRY GOLDBERG VE3HLI	17 Cottrill Street, Hamilton, Ont. L8S 3L5	528-7688
<u>EDITOR AND PUBLISHER</u>	JOHN DOUGLAS VE3EYC	26 Skyline Drive, Dundas, Ont. L9H 3S5.	627-4727

COMMITTEE CHAIRMEN

Club Station Licensee	(VE3DC)	VE3BKM	Vern Huckle	388-6989
Red Cross Stn. Licensee	(VE3RCB)	VE3FHQ	Glenn A. Gibson	385-2786
Repeater Licensee	(VE3DRW)	VE3CFM	Bob Miller	529-2950
Health and Welfare		VE3EJD	Gino DiGennaro	692-3341
Membership		VE3EKY	Bern Granby	527-7175
Public Service		VE3FHQ	Glenn A. Gibson	385-2786
Technical		VE3DVV	John VanDenBerg	692-3802
Refreshments		VE3ARX	Bill McCaslin	634-5190
Refreshments		VE3AHB	Irwin Merritt	634-3197
CARF Representative		VE3GCP	Fred Robinson	388-1976

Membership Year .. January 1st to the following December 31st each year.

Membership Fees .. \$10.00 per year (all classifications).

PLEASE ADDRESS ALL CORRESPONDENCE TO:

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



NEXT MEETING

Date: TUESDAY, OCTOBER, 17, 1978

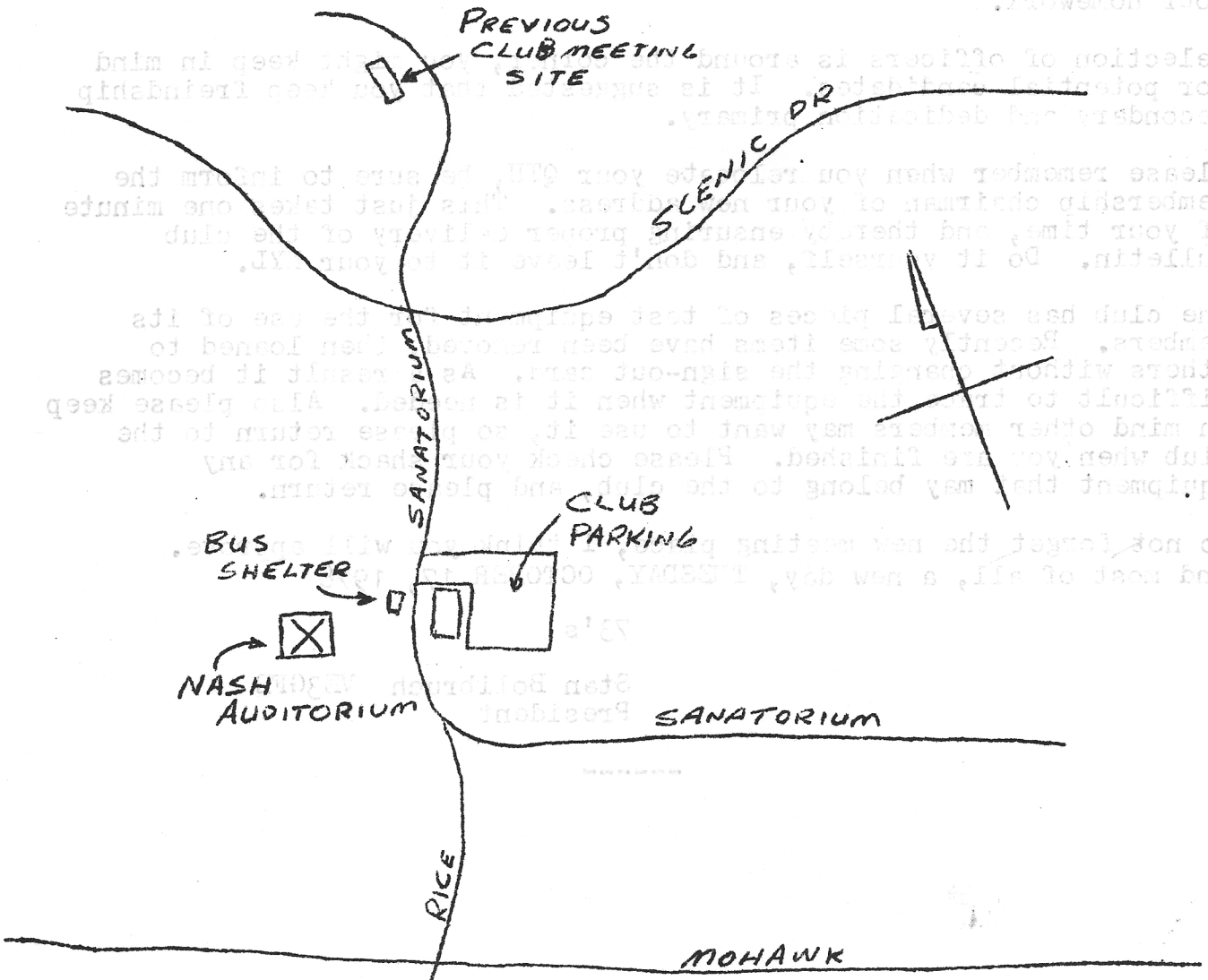
Time: 8:00 P.M.

Place: Nash Auditorium (Chedoke Hospital Complex)

Subject: Chuck Wilson, Hamilton Fire Department,  
"Fire Department at Work"  
(including a slide presentation)

Don't Forget

NEW LOCATION



THE PRESIDENTS MESSAGE

During our last general meeting, it was a rather warm evening, both in room temperature and topics. To make it easier for the group to think items over from now on, new proposals will be submitted to the secretary in writing prior to the executive meeting, and then will be published in the bulletin. This way meetings will be shorter and much more straight forward and enjoyable. If any items require a quick response, it will be taken into consideration.

Another reminder that the DOC are accepting appointments for examinations for November 15/78. Time available will be at 9am, 10.30am, 1pm, 3.30pm, and 6.30pm. To make an appointment, be sure to ask for Dave Thomas or Jim Bouwhuis at 523-2301, 9am to 4.30pm.

Several months ago it was suggested for those who had their Advance Ticket and were interested, might sponsor a White Caner. Again for those interested, please contact either Stan, VE3GFE or Fred, VE3GCP. By being a sponsor, you will have a good idea how well you have done your homework.

Selection of officers is around the corner, you might keep in mind for potential candidates. It is suggested that you keep freindship secondary and dedication primary.

Please remember when you relocate your QTH, be sure to inform the membership chairman of your new address. This just takes one minute of your time, and thereby ensuring proper delivery of the club bulletin. Do it yourself, and don't leave it to your MYL.

The club has several pieces of test equipment for the use of its members. Recently some items have been removed, then loaned to others without changing the sign-out card. As a result it becomes difficult to trace the equipment when it is needed. Also please keep in mind other members may want to use it, so please return to the club when you are finished. Please check your shack for any equipment that may belong to the club, and please return.

Do not forget the new meeting place, I think you will approve. And most of all, a new day, TUESDAY, OCTOBER 17, 1978

73's

Stan Bolibruch VE3GFE  
President

VICE

MEMBER



AMATEUR RADIO EMERGENCY SERVICE

After 4½ years of service, I have decided to retire as the local Emergency Co-Ordinator for the Hamilton Area. I would like to announce that the A.R.E.S. will now come under the direction of Bob Richards, VE3FCU.

I trust all concerned will give Bob a hand on continuing the A.R.E.S. as they have with me over the years.

I would like to thank all those who have participated and assisted my efforts over the years.

In particular, I would like to thank the assistant Emergency Co-Ordinators whose help and good work helped make our events a success.

73's

Glenn Gibson  
VE3FHQ

CARF UPDATE

On September 30, 1978, Canadian Amateur Radio Federation held a symposium in Calgary, Alta. It was attended by 80 people representing virtually every amateur interest in Canada.

The following are the main points of interest in point form, an official release will be available October 5, 1978, with details in The Canadian Amateur, and reported on CARF news stations.

- 1) Re-affirmation of "NO-NOVICE"
- 2) Possible Phone Band expansion on 40 metres
- 3) Abolition of mobile log keeping
- 4) Re-consideration of the 220 MHz band plan which had been put forward by MOT.
- 5) Further specifications of Packet Modes and experimentation parameters.

Fred VE3GCP  
Ontario Director, CARF.

MEMBERSHIP CHAIRMAN'S REPORT FOR OCTOBER

The roll call of members stands at 211.

Welcome to the following new members:

- |                    |   |
|--------------------|---|
| Ernesto Estrabillo | VE3JUL                                      |
| Jim Friend         | VE3KTS                                      |
| Bob Dyer           | VE3NTY                                      |
| Les Sharman        | VE3KTT                                      |
| Les Blain          | VE3KTH                                      |
| Fred Towner        | VE3DNW (Fred is the Vice President of CARE) |

Family Membership

At a recent executive meeting it was proposed and passed to create a new class of membership. Effective January 1, 1979 paid-up members of H.A.R.C. will be able to enroll other members of their family as family members. The dues for this class of membership will be \$1.00 per person. In general this class is open to family members who are living at the same address. The family member will have all the normal privileges of the club except they will not receive the bulletin.

1979 Dues

The registration forms for next years dues will be printed in the November bulletin. This form is printed each year for the members convenience. This pre-registration also gives us a chance to up-date our files. It would be a big help if the members use the form and remit by cheque.

I hope to see everyone at the meeting in our beautiful new club room - Nash Hall

Tnx agn as always I enjoyed this QSO.

73's

Bern VE3EKY



QRZ DX??

Due to numerous reasons, neither VE3HLC or VE3HBX, has been very active on the DX bands during the past month. However, here are a few tidbits that we were able to scrape together.

1. St. Lucia and Anguilla: VP2LFL and VP2ECW were worked on 1Ø metres fone and CW respectively. VP2LFL (QSL via WB8ZRV), VP2ECW (QSL via WB4BQZ).
2. 4S7EA (Sri Lanka, formerly Ceylon): worked on 15 metres SSB early afternoon local time. HS1WR, Bangkok, Thailand could be heard working a pile up down a few KHz. 4S7EA (QSL via WB90QU).
3. 4X3ØJU: Israel is using this weird prefix to commemorate 30th anniversary of the State of Israel. QSL via 4X4JU.
4. 4U1UN: UN Building, N.Y. City - the ARRL is going to count this as a "new country" and will accept cards for credit after Nov. 1, 1978. The station shows up irregularly but was worked by both HLC and HBX on 3802 kHz at 7:30 p.m. local time on 22 Sept.
5. S79MC: Larry, VE3ITA, reports this QSO with the Seychelles Islands in the Indian Ocean on about 28,506 kHz (2 p.m. local time). QSL is via N4NW.
6. 7X2BK: This Algerian station was worked on 28540 kHz about 3 p.m. local time with QSL's being handled by WA3HUP. (credit - VE3ITA).

NOTE:

Ten metres should really come alive with signals from all over the world during the next 2 months so don't neglect this part of the spectrum.

Don't forget that the last weekend in October is the phone portion of "CQ Worldwide" contest. Even if you're not much of a big time DXer, get in on the fun and test out your equipment. There should be lots of good stuff to work for everyone.

One of the best publications going for "VE" DXers, is the "Long Skip" Bulletin put out by the Canadian DX Association (Canad-x). Annual dues are \$10 which includes an outgoing QSL Bureau service in addition to the 12 issues of "Long Skip".

Hope to see everyone out at the October meeting for the initiation of our new QTH for club meetings.

73 & DX

Dan VE3HLC  
Steve VE3HBX

SOCIAL EVENT

Plans have now been finalized for the Clubs Fall Social Event. I think you will all approve.

- DATE: October 27, 1978
- TIME: 6:30 p.m.
- QTH: Hillcrest Restaurant - Park in rear
- MEAL: "Beef Eaters Special"  
(Buffet including roast beef)
- ENTERTAINMENT: Music supplied by Professional D.J. Service
- PRICE: \$10.00 per person

IMPORTANT NOTE

Money must be paid by October 20, 1978 to one of the following:  
Ron Bradshaw VE3IUU, Stan Bolibruch VE3GFE, Gerry Goldberg VE3HLI,  
Norm Freidin VE3CZI.

Will look for you there.

73's

Ron VE3IUU

CHALLENGE

The D.F. Hunters of the Hamilton Amateur Radio Club have been challenged by the Peel Amateur Radio Club to participate in their ever popular transmitter hunt.

The HUNT will start at the Bramalea City Centre Parking Lot (Dixie Road and Highway 7), 12.30 PM, to register and proceed.

Date of Event: Sunday, October 29, 1978.

If interested, contact the Editor for rules and other info.

The receive frequency will be 146.880 MHz.

73 & DX  
Dan VE3BUC  
Steve VE3RER



PAST PRESIDENT'S TROPHY

Since the Past Presidents are presenting this award, it was decided to tie this event to "The Order of the Gavel". Therefore it seems natural to call it "The Order of the Gavel CW Operating Award".

As announced in the June bulletin, this contest for this year will end on November 30, 1978. Further details next month. The trophy will be awarded at the December 1978 meeting. The certificate will be presented to the winner next year when he relinquishes the trophy. Wait tillyou see the trophy! The Past Presidents have really done it. Good luck.

Bern, VE3EKY

CW TOPICS

The writer of this column reports he has been so busy with work he has not been able to put a column together for this issue.

He reports he will be back in business for the next issue of The Hamilton Amateur.

NOTE: HEATHKIT OWNERS

A number of owners of Heathkit HW and SB series rigs have reported problems with final circuits when they have replaced the original 6146 tubes with 6146B tubes. Tipped off by Glen McMichael, VE3CGU about his problems and those of others when trying to get rid of a parasitic in the final tank circuit of HW-100 and SB-101 equipment, and by advice from Heathkit, CARF passes on the information that 6146 type and not 6146 B type tubes should be used as a replacement in these rigs.

(Credit: The Canadian Amateur)

# INDUSTRIAL & BROADCAST TUBES

0A2	813	5762	8134
0A3	833A	5814A	8156
0A4G	866A	5823	8165
0B2	872A	5881	8166
0C3A	917	5963	8239
0D3	922	GL6011/710	8438
0G3	2050A	GL6012	8480
1G3GT	4490	6014/C1K	8507A
2D21	4491	6076A	8541
2E26	4532H	6080	8791/V1
3CX3000F1	4532AH	6084	8844
4-65A	4809-03	6146A	
4X150A	4809B-03	6146B	
4-250A	4810	6159B	
4CX250B	4811	6201	
4-400A	4820A	6202	
4-1000A	4833	6360A	
5D22	4861	6550A	
5UP1	4863	6883B	
6AU6A	GL5550	6922	
6DJ8	GL5551A	7056	
6GV8	GL5552A	7203	
12AT7	5632	7735	
12AU7A	5651	7984	
12AX7A	5692	8008	
807	5693	8032	
810	5726	8056	
811A	5727	8072	
812A	5751	8106	



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OPEN LETTER TO THE CLUB

At the recent General Membership meeting, Fred, VE3GCP took the club meeting floor and brought forth a motion to establish a committee, to establish a policy regarding club involment with public service activities, and to set up terms under which we would get involved.

The uproar that resulted is now history, and has left many members, and potential members, with a bad taste in their mouth as to general meeting procedures, for this, I sincerly hope the Club Exectutive shall endeavour to avoid occurring again.

The "motion" was presented due to the recent activities of various members of our club to bring Amateur Radio awareness to various aspects of our community. Since activities of this nature are best presented through an organization, as opposed to an individual approach, the H.A.R.C. Executive has allowed these members to carry on their endeavours in the best interest of the Amateur Radio Fraternity. They were representative of the HARC, of no other organization, and it is for this kind of involvement that this motion for guidelines be presented.

If an organization requests communication assistance from the Amateurs of the Hamilton area, they usually contact H.A.R.C. intially; the request is then turned over to our Hamilton E.C., Glen VE3FHQ who co-ordinates the A.R.E.S., which is a completely seperate organization, NOT connected with the Hamilton Amateur Radio Club.

Glen, VE3FHQ sits in on club executive meetings to keep all advised of the Public Service activities that are being run by the A.R.E.S. on behalf of the Amateur Radio Fraternity in the Hamilton area.

When you sign up for the A.R.E.S., you are not committed to any participation in any Public Service Activity. When an activity arises you are contacted and if you see fit, can get involved, if not; no problem! However, it is hoped that as many people as possible can be available to participate in these activities which are a reflection upon the Amateur Radio Fraternity and not upon the Hamilton Amateur Radio Club.

I sincerely hope this letter shows the intention of the "motion" and perhaps indicate a misconception of many as to the role of the Amateur Radio Emergency Service in our community.

If anyone wishes to participate in this committee, please contact Stan, VE3GFE.



DIODES, ZENERS				CONNECTORS				TRANSISTORS			
1N914	100v	10mA	.05	6-pin pcb	.20	ww	.35	2N2222	NPN (2N2222 Plastic)	1.01	.15
1N4005	600v	1A	.08	14-pin pcb	.20	ww	.40	2N2907	PNP	.16	.16
1N4007	1000v	1A	.15	14-pin pcb	.20	ww	.40	2N3906	PNP (Plastic - Unmarked)	.10	.10
1N4148	75v	10mA	.05	18-pin pcb	.25	ww	.75	2N3904	NPN (Plastic - Unmarked)	.10	.10
1N4733	5.1v	1 W Zener	.25	22-pin pcb	.35	ww	.95	2N3054	NPN	.35	.35
1N753A	6.2v	500 mW Zener	.25	24-pin pcb	.35	ww	.95	2N3055	NPN 15A 60v	.50	.50
1N758A	10v	"	.25	28-pin pcb	.45	ww	1.25	TIP125	PNP Darlington	.35	.35
1N759A	12v	"	.25	40-pin pcb	.50	ww	1.25	LED Green, Red, Clear, Yellow		.15	.15
1N5243	13v	"	.25	Molex pins .01	To-3 Sockets		.25	D.L.747	7 seg 5/8" High com-anode	1.95	1.95
1N5244B	14v	"	.25	2 Amp Bridge	100-prv		.95	MAN72	7 seg com-anode (Red)	1.25	1.25
1N5245B	15v	"	.25	25 Amp Bridge	200-prv		1.95	MAN3810	7 seg com-anode (Orange)	1.25	1.25
								MAN82A	7 seg com-anode (Yellow)	1.25	1.25
								MAN74A	7 seg com-cathode (Red)	1.50	1.50
								FND350	7 seg com-cathode (Red)	1.25	1.25

C MOS				- T T L -							
4000	.15	7400	.10	7473	.25	74176	.85	74H72	.35	74S133	.40
4001	.15	7401	.15	7474	.30	74180	.55	74H101	.75	74S140	.55
4002	.20	7402	.15	7475	.35	74181	2.25	74H103	.55	74S151	.30
4004	3.95	7403	.15	7476	.40	74182	.75	74H106	.95	74S153	.35
4006	.95	7404	.10	7478	.55	74190	1.25			74S157	.75
4007	.20	7405	.25	7481	.75	74191	.95	74L00	.25	74S158	.30
4008	.75	7406	.25	7483	.75	74192	.75	74L02	.20	74S194	1.05
4009	.35	7407	.55	7485	.55	74193	.85	74L03	.25	74S257 (8123)	1.05
4010	.35	7408	.15	7486	.25	74194	.95	74L04	.30		
4011	.20	7409	.15	7489	1.05	74195	.95	74L10	.20	74LS00	.20
4012	.20	7410	.15	7490	.45	74196	.95	74L20	.35	74LS01	.20
4013	.40	7411	.25	7491	.70	74197	.95	74L30	.45	74LS02	.20
4014	.75	7412	.25	7492	.45	74198	1.45	74L47	1.95	74LS04	.20
4015	.75	7413	.25	7493	.35	74221	1.00	74L51	.45	74LS05	.25
4016	.35	7414	.75	7494	.75	74357	.75	74L55	.65	74LS08	.25
4017	.75	7416	.25	7495	.50			74L72	.45	74LS09	.25
4018	.75	7417	.40	7498	.80	75108A	.35	74L73	.40	74LS10	.25
4019	.35	7420	.15	74100	1.15	75491	.50	74L74	.45	74LS11	.25
4020	.85	7426	.25	74107	.25	75492	.50	74L75	.55	74LS20	.20
4021	.75	7427	.25	74121	.35			74L93	.55	74LS21	.25
4022	.75	7430	.15	74122	.55			74L123	.85	74LS22	.25
4023	.20	7432	.20	74123	.35	74H00	.15			74LS32	.25
4024	.75	7437	.20	74125	.45	74H01	.20	74S00	.35	74LS37	.25
4025	.20	7438	.20	74126	.35	74H04	.20	74S02	.35	74LS38	.35
4026	1.95	7440	.20	74132	.75	74H05	.20	74S03	.25	74LS40	.30
4027	.35	7441	1.15	74141	.90	74H08	.35	74S04	.25	74LS42	.65
4028	.75	7442	.45	74150	.85	74H10	.35	74S05	.35	74LS51	.35
4030	.35	7443	.45	74151	.65	74H11	.25	74S08	.35	74LS74	.35
4033	1.50	7444	.45	74153	.75	74H15	.45	74S10	.35	74LS86	.35
4034	2.45	7446	.65	74154	.95	74H20	.25	74S11	.35	74LS90	.55
4035	.75	7446	.70	74156	.70	74H21	.25	74S20	.25	74LS93	.55
4040	.75	7447	.70	74157	.65	74H22	.40	74S40	.20	74LS107	.40
4041	.69	7448	.50	74161	.55	74H30	.20	74S50	.20	74LS123	1.00
4042	.65	7450	.25	74163	.85	74H40	.25	74S51	.25	74LS151	.75
4043	.50	7451	.25	74164	.60	74H50	.25	74S64	.15	74LS153	.75
4044	.65	7453	.20	74165	1.10	74H51	.25	74S74	.35	74LS157	.75
4046	1.25	7454	.25	74166	1.25	74H52	.15	74S112	.60	74LS164	1.00
4049	.45	7460	.40	74175	.80	74H53J	.25	74S114	.65	74LS193	.95
4050	.45	7470	.45			74H55	.20			74LS367	.75
4066	.55	7472	.40							74LS368	.65
4069/74C04	.25										
4071	.25										
4081	.30										
4082	.30										
MC 14409	14.50										
MC 14419	4.85										
4511	.95										
74C151	1.90										

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9309	.35	9601	.20	903B	3.95	LM320T12	1.55	LM340K18	1.25	LM725N	2.50
9322	.65	9602	.45	LM201	.75	LM320T15	1.65	LM340K24	1.25	LM739	1.50
				LM301	.45	LM324N	1.25	78L05	.75	LM741 (8-14)	.25
				LM308 (mini)	.95	LM339	.75	78L12	.75	LM747	1.10
				LM309H	.65	7805 (340T5)	.95	78L15	.75	LM1307	1.25
				LM309K (340K-5)	.85	LM340T12	.95	78M05	.75	LM1458	.65
				LM310	.85	LM340T15	.95	LM373	2.95	LM3900	.50
				LM3110 (mini)	.75	LM340T18	.95	LM380 (2-14 PIN)	.95	LM75451	.95
				LM318 (mini)	1.75	LM340T24	.95	LM709 (8, 14 PIN)	.25	NE555	.35
				LM320K (7905)	1.65	LM340K12	1.25	LM711	.45	NE556	.85
				LM320K12	1.65					NE558	.95
										NE566	1.2L
										NE567	.95

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AIR DISASTER

As you are all aware by now, the combined groups consisting of the Regions Fire, Police and Hospitals staged a simulated disaster on October 4 to see how the various groups would react under a disaster situation. This was the first time such an event of this size was tried in the Hamilton area. General consensus is the exercise as a whole was a disaster on its own with confusion and disorganization. Two groups of amateurs participated, on request, of which one group your editor took part.

Group 1

Located in the Red Cross Building to assist in communications for the Red Cross. The following participated:

- VE3SG - Stu Graves - Base
- VE3RW and VE3CKH - John and Jean Card - airport
- VE3GTE - Stan Bolibruch - standby
- SWL - Bob Magee - standby.
- VE3BLT - George Pierce - Spare.

The function of this group was to assist in arranging for blankets and stretchers.

Group 2

Located at the Sherman Avenue Police Station (to assist the Regional Police Auxiliary as requested.) The following participated:

Command Vehicle 1 (disaster site)

- VE3FCU - Bob Richards, Emergency Co-Ordinator
- VE3BJN - Bob Marshall
- VE3FMG - Mike Patrick - site assistant
- VE3JUF - Norm Rickards - Mountain Brow Relay  
& SWL Brian

Command Vehicle 2 (Sherman Avenue)

- VE3ITA - Larry Langs
- SWL - Marlene Langs.

Hospitals:

- Henderson General VE3BLT - George Pierce
- Chedoke VE3HBX - Steve Babcock
- McMaster Medical Center VE3CFM - Bob Miller
- St. Joseph's VE3JTX - Pat Pattison
- Hamilton General VE3FCU - Bob Richards (transferred from the site)
- Joseph Brant VE3EYC - John Douglas

The function of this group was to participate as requested by the Police Auxiliary. Shortly after the start of the exercise the communication system of the Auxiliary Police failed, and our services were used.

Reports from some of the fellows at the Hospital locations showed the administrative people in emergency were very impressed how our people with a hand held portable could stand next to the admitting desk and communicate with the disaster site. This was used to inform the various hospitals of the number of people arriving at the hospitals.

Special thanks to the group for the excellent support and assistance supplied in organizing this effort with the police.

Bob, VE3FCU passes the following comments:

"I feel this exercise was a Ham success for the following reasons:

1. No breakdown in our system.
2. All communications were carried on simplex frequencies.
3. All communications were brief.
4. All Hospitals were effectively covered.
5. Back-up operators, equipment and supplies were readily available.
6. Excellent intermediate relay site with operator, VE3JUF.

I trust I will have the solid backing of the Amateurs of the Hamilton Area for future events."

-----

Municipal Election Exercise

Stan, VE3GFE reports that Vic, VE3HPD has cancelled this Exercise.

Reason; lack of response.

-----

NOTE

Please change the phone number listed for Larry Langs VE3ITA as published in the last bulletin. The party at the listed number will no longer accept his calls.

ITA's number should be: 549-7393

If any other numbers were listed incorrectly, please inform Bernie, VE3EKY.

REPORT ON THE SECOND  
HAMILTON A.R.C. REPEATER

Call: VE3MBR

Licensee: Norm Freidin, VE3CZI

Frequency: Input: 147.105 MHz  
Output: 147.705 MHz

This repeater is based around a Motorola Micor Repeater package, and will be located at 196 Mountain Park Ave., overlooking Hamilton and points East. It will Transmit with approximately 100 watts, E.R.P. and has a Receiver Sensitivity of 0.35 micro-volts for 20Db quieting. Coverage of VE3MBR shall be approximately 50% of that experienced with VE3DRW.

The repeater operation will be exactly like VE3DRW, ie; Carrier Operated Squelch, and will be accessible to all mobiles that are "on frequency". Plans are to use a microprocessor for logic control, at which time, mobiles with Touch-Tone Pads may access the repeater to control various functions.

The repeater will, transmit CW Code Practice each evening, from 7 PM to 8 PM, retransmitting the code practice sent by Lloyd VE3BZF via VE3RSO in Orangeville.

It is hoped that Technically Oriented Roundtables will be started every two weeks, discussing various technical topics of interest to Amateur Radio Enthusiasts, and although you may not actually participate, hopefully, you will learn something by listening.

The repeater will be on full Battery Standby Power, with automatic switchover, upon loss of Hydro, and a built-in charger to bring the battery back up to full charge, hopefully, VE3MBR will be used as an alternate repeater for ARES activities, as portable-portable operation will be excellent in the downtown area of Hamilton.

All of this should go into operation approximately one month upon approval of the executive.



CODE A CALL

- A practical accessory for every proud possessive radio amateur.
- Your Call transmitted in clear precise Code each time your transmitter is keyed.
- Your rig is identified no matter who keys the transmitter.
- Small enough to fit inside most rigs. Size approx. 2"x 25/8"x 3/8"
- It is connected to the mike circuite and has an adjustable level control.
- Pre-programmed with your call at time of purchase. Connecting leads and full instructions included with each unit.
- Uses 8 - 16 VDC Negative Ground.
- 90 Days warranty, repair or replacement.
- Costs only \$39.95 Cdn.

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Comelco Canada  
P.O. Box 25, Beaconsfield Postal Station  
Beaconsfield, P.Q. H9W 5T6

Enclosed \$..... for .....CODE A CALL(S)  
(please print)

Call Sign (s) ..... to be programmed.

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NIGHT (416) 486-0101

JACK VE3GNT

# LENGTH OF 80 METER ANTENNA SYSTEM, 3500 KC TO 4000 KC

(DECIMAL TO FRACTION CONVERSION INFORMATION ON REVERSE SIDE)

KC	FT.	IN.	KC	FT.	IN.	KC	FT.	IN.	KC	FT.	IN.	KC	FT.	IN.	KC	FT.	IN.
3500	133	8.57	3600	130	0.00	3700	126	5.83	3800	123	1.89	3900	120	0.00			
3505	133	6.28	3605	129	9.83	3705	126	3.78	3805	122	11.95	3905	119	10.15			
3510	133	3.99	3610	129	7.67	3710	126	1.74	3810	122	10.01	3910	119	8.31			
3515	133	1.72	3615	129	5.52	3715	125	11.70	3815	122	8.08	3915	119	6.48			
3520	132	11.45	3620	129	3.38	3720	125	9.67	3820	122	6.15	3920	119	4.65			
3525	132	9.19	3625	129	1.24	3725	125	7.65	3825	122	4.23	3925	119	2.82			
3530	132	6.93	3630	128	11.10	3730	125	5.62	3830	122	2.31	3930	119	1.00			
3535	132	4.68	3635	128	8.97	3735	125	3.61	3835	122	0.40	3935	118	11.19			
3540	132	2.43	3640	128	6.85	3740	125	1.60	3840	121	10.50	3940	118	9.38			
3545	132	2.02	3645	128	4.74	3745	124	11.59	3845	121	8.59	3945	118	7.57			
3550	131	9.97	3650	128	2.62	3750	124	9.60	3850	121	6.70	3950	118	5.77			
3555	131	7.75	3655	128	0.52	3755	124	7.60	3855	121	4.80	3955	118	3.97			
3560	131	5.52	3660	127	10.42	3760	124	5.61	3860	121	2.92	3960	118	2.18			
3565	131	3.31	3665	127	8.33	3765	124	3.63	3865	121	1.03	3965	118	0.39			
3570	131	1.10	3670	127	6.24	3770	124	1.65	3870	120	11.16	3970	117	10.60			
3575	130	10.90	3675	127	4.16	3775	123	11.68	3875	120	9.28	3975	117	8.82			
3580	130	8.71	3680	127	2.08	3780	123	9.71	3880	120	7.42	3980	117	7.05			
3585	130	6.52	3685	127	0.00	3785	123	7.75	3885	120	5.55	3985	117	5.28			
3590	130	4.34	3690	126	9.95	3790	123	5.79	3890	120	3.70	3990	117	3.51			
3595	130	2.16	3695	126	7.89	3795	123	3.84	3895	120	1.84	3995	117	1.75			
												4000	117	0.00			

468090 = FREQUENCY LENGTH IN FEET AND INCHES.

VE3HC  
HAMMOND MANUFACTURING COMPANY LIMITED  
GUELPH ONTARIO CANADA

# LENGTH OF 40 METER ANTENNA SYSTEM, 7000 KC TO 7300 KC

KC	FT.	IN.	KC	FT.	IN.	KC	FT.	IN.	KC	FT.	IN.	DECIMALS OF AN INCH	FRACTIONS OF AN INCH	DECIMALS OF AN INCH	FRACTIONS OF AN INCH
7000	66	10.20	7100	65	10.92	7200	65	0.00	0.015	1/64	0.515	33/64			
7005	66	9.60	7105	65	10.32	7205	64	11.40	0.031	1/32	0.531	17/32			
7010	66	9.12	7110	65	9.84	7210	64	10.80	0.046	3/64	0.546	35/64			
7015	66	8.52	7115	65	9.24	7215	64	10.32	0.062	1/16	0.562	9/16			
7020	66	7.92	7120	65	8.76	7220	64	9.72	0.078	5/64	0.578	37/64			
7025	66	7.32	7125	65	8.16	7225	64	9.24	0.093	3/32	0.593	19/32			
7030	66	6.84	7130	65	7.56	7230	64	8.76	0.109	7/64	0.609	39/64			
7035	66	6.24	7135	65	7.08	7235	64	8.16	0.125	1/8	0.625	5/8			
7040	66	5.64	7140	65	6.48	7240	64	7.68	0.140	9/64	0.640	41/64			
7045	66	5.16	7145	65	6.00	7245	64	7.08	0.156	5/32	0.656	21/32			
7050	66	4.56	7150	65	5.40	7250	64	6.60	0.171	11/64	0.671	43/64			
7055	66	3.96	7155	65	4.80	7255	64	6.00	0.187	3/16	0.687	11/16			
7060	66	3.36	7160	65	4.32	7260	64	5.52	0.203	13/64	0.703	45/64			
7065	66	2.88	7165	65	3.72	7265	64	4.92	0.218	7/32	0.718	23/32			
7070	66	2.28	7170	65	3.24	7270	64	4.44	0.234	15/64	0.734	47/64			
7075	66	1.68	7175	65	2.64	7275	64	3.84	0.250	1/4	0.750	3/4			
7080	66	1.20	7180	65	2.16	7280	64	3.36	0.265	17/64	0.765	49/64			
7085	66	0.60	7185	65	1.56	7285	64	2.88	0.281	9/32	0.781	25/32			
7090	66	0.00	7190	65	1.08	7290	64	2.28	0.296	19/64	0.796	51/64			
7095	65	11.52	7195	65	0.48	7295	64	1.80	0.312	5/16	0.812	13/16			
						7300	64	1.20	0.328	21/64	0.828	53/64			
									0.343	11/32	0.843	27/32			
									0.359	23/64	0.859	55/64			
									0.375	3/8	0.875	7/8			
									0.390	25/64	0.890	57/64			
									0.406	13/32	0.906	29/32			
									0.421	27/64	0.921	59/64			
									0.437	7/16	0.937	15/16			
									0.453	29/64	0.953	61/64			
									0.468	15/32	0.968	31/32			
									0.484	31/64	0.984	63/64			
									0.500	1/2	1.000				

468000 = LENGTH IN FEET AND INCHES. VERBIC HAMMOND MANUFACTURING COMPANY LIMITED GUELPH ONTARIO CANADA

DOC PUBLISHES DETAILS OF NEW "NO-CODE" "DIGITAL" CERTIFICATE

Changes to the Radio Regulations featuring the long-awaited details of the new "no-code" certificate known up to now as the "experimenter's" certificate and "packet radio" were made public on September 14. These changes came into effect September 30, 1978.

Holders of the new ticket, now called the "Amateur Digital Radio Operator's Certificate" will be permitted operation on two metres and above using various modes of operation, including pulse modes. They may obtain an Advanced certificate after a year's operation and passing a 15 w.p.m. code test.

Advanced Amateurs may use pulse modes after passing the relevant portion of the new exam. The new exams for all three classes of certificate will start November 15 this year.

Packet radio will be permitted to all three classes in certain parts of the 220 MHz band. Along with other modes it may be used from 220.1 to 220.5 MHz. An exclusive two megahertz slot for packet radio only is allowed from 221.0 to 223.0 MHz. There are no other changes in the 220 band which affect Amateur and Advanced class operators.

Another exclusive packet radio slot is shown from 433.0 to 434.0 MHz. Packet will also be permitted on 24.0 to 24.01 gigahertz.

For identification purposes, packet headers will carry an ASCII mapping of the call sign. Secret codes and ciphers are not permitted. Modulation techniques and emissions for packet radio will be determined by experiments undertaken by Amateurs themselves.

Pulse modes P0 and P1 are permitted on two metres between 145.5 MHz and 145.8 MHz and P0, P1, P2 and P3 are allowed from 434.0 to 434.5 MHz, with P4, P5 and P9 being added in the 1215.0 to 1300 MHz slot and in bands from 2300 MHz on up.

Further changes to the Regulations note that for all classes of certificates, exams will be held four times annually, normally in October, January, April and July. Separate credits for code exams are good for one year. Multiple choice questions will remain for the Regulations portion, with narrative type questions for the theory.

Details of the new regulations and the examination requirements for all three classes of certificates are contained in the new DOC bulletins, TRC 24, effective October 1, 1978 and TFC 25, effective September 30, 1978. These may be obtained from the Department of Communications Regional offices in Vancouver, Winnipeg, Toronto, Montreal or Moncton, or from the Telecommunication Regulatory Service at DOC HQ, 300 Slater Street, Ottawa, Ont. K1A 0C8.

(Credit: CARF News Service)



SWAP SHOPAntennas

- VE3BKQ Ed see VE3DOU at 561-1659  
 - 5 element 20 metre mono beam \$350  
 VE3COV Les 662-8783  
 - 2 metre 10 element beam. Best offer.

Test Equipment

- VE3FMT Jim 231-8701 T.O.  
 - Variac c/w metre \$15.  
 - VTVM Model 152 \$25.  
 VE3IUI Robin 335-5892  
 - Cossor 304H Scope, 10 KHz bandwidth, c/w manual \$25.  
 VE3FAC Richard 863-6480 T.O.  
 - Tektronics 535 scope, dual trace, 18 MHz bandwidth, c/w manual \$400.  
 VE3DSS Dana 431-0786 T.O.  
 - Tektronics 545 scope with Type CA plug in, 25 MHz bandwidth, c/w manual \$475.

Misc. Parts

- VE3BEY Ed 247-0152  
 - 5 crystals for Ultra-Com 25: .34Tx; .94Rx; .76Tx; .94Tx; .76Rx.  
 All for \$15.  
 VE3FAC Richard 863-6480 T.O.  
 - Power xfmr, 6 KV C.T. @ 750 ma \$30  
 - Pair 4-250 tubes Best Offer

V.H.F. Equipment

- VE3DAA Pete 691-3354 T.O.  
 - Qty of 3 G.E. Prog-Line VHF Xcvrs, 2 chan, unconverted, \$15 ea.  
 - Qty of 3 Rx strips for G.E. prog-line \$5. each.  
 VE3HBX Steve 648-6078  
 - TR-2200A Xcvr, carrying case, rubber ducky,  $\frac{1}{4}$  wave ant., 7 sets  
 Xtals \$220.  
 VE3FHQ Glen 385-2786  
 - Motorola 43GGV xcvr, c/w accessories, non converted \$18.  
 VE3IQL Terry 388-3893  
 - TR-2200A xcvr, c/w Drake mic with T.T. Pad, 11 sets Xtals \$275.  
 VE3GUV Bob 734-3565 Welland  
 - Yaseau FT-2F xcvr, 1W & 10W, 7 sets xtals, 12 channel unit c/w KSR  
 10A Pwr Supply \$175.  
 VE3JTX Pat 549-0213  
 - KP-202 portable c/w 6 sets xtals and charger \$175  
 VE3IUI Robin 335-5892  
 - Kenwood TR-7200 2 meter xcvr \$500

VE3FAC Richard 863-6480 T.O.

- TR-2200 2 meter xcvr, c/w 6 sets xtals \$175

VE3DOU Peter 549-7393

- Aerotron 2 meter Base xcvr c/w DRW crystals, 12 watts o/p, no mike \$60.

### H.F. Equipment

VE3BLG George 383-7338

- Hallicrafters SX-101A Rx

- Hallicrafters HT-32A Tx

- Package \$325.

VE3FE Jasper 845-1850

- KW - 2000A c/w spkr and pwr supply \$350.

VE3CHW Paul 544-2878 (354-8224 Niagara Falls)

- World Radio Labs, DUO\*BANDER xcvr, 300 watts input, SSB only, covers American phone band only, AC & DC pwr supplys \$225

VE3ESS Roy 274-8203 Mississauga

- FT-200 5 band Xcvr c/w spkr & pwr supply Best offer.

Chuck Wilson 634-2569

- Heathkit GR-78 Gen. Cov. Rx c/w nicad battery pack & manual \$100.

VE3FDM Pete 385-5552

- Hallicrafters SR-160 Dcvr, 80-40-20 meters, AC & DC pwr supply with SWR Bridge \$300.

VE3ALM Bill 632-7693

- TRIO JR-200 Gen Cov. Rcvr \$125.

VE3EWN Paul 822-3822 Guelph

- Heath HA-14 Linear, 1 KW input, \$350.

VE3IUI Robin 335-5892

- Realistic AX-190 Ham Band Rx \$300

- Hallicrafters S-53A Rx and HT-40 Tx with Heath VFO \$60/

VE3FAC Richard 863-6480 T.O.

- Drake 2A Rx \$150

- B & W 5100 B 180 Watt Tx and Heath SB-10 SSB Adapter \$150

- Heathkit DX-60<sup>B</sup> & VFO \$75.

### Accessories

Kitchener-Statford A.R.C.

- KRS Power Supplys; 13.0V at 5 Amps (\$55); 10A (\$72); 10A with meters (\$107); 25 Amp (\$175).

VE3ESS Roy 274-8203 T.O.

- KW Dummy load \$10

- Realistic Phone patch \$30

- Realistic Desk mic with pre-amp \$20

VE3FDK John 385-0422

- Monarch Desk Mike M-18, Hi-Lo Impedance, Dynamic cartridge \$15

VE3COV Les 662-8783

- Homebrew keyer, relay needs repair, Best offer

- ARMACO M131 Hi-Z desk mike Best offer

- VE3JUO Don 648-6839
- Johnson Matchbox, 250 watt version \$65
- Atlas DL-200 Dummy Load \$15
- VE3IUE Eric 632-8734
- MFJ SSB Filter \$25
- Touch Tone pad in box Best offer
- VE3DOU Peter 549-7393
- Matchbox, 250 watts, built-in SWR bridge, T-R Relay, 6 position Ant Switch \$50
- VE3KTP Tom 389-5164
- W2AU 1:1 Balun \$12.

WANTS

- VE3DMF Ernie 640-1618 - 6 meter SSB Xcvr
- VE3IQH Larry 752-3218 - 8 to 11 element 2 meter beam
- VE3IQH Larry 752-3218 - Service manual for EICO 753
- VE3CZI Norm 388-9813 - Heathkit Mohawk Receiver Model RX-1
- VE3IQL Terry 388-3981 - 60 wpm gear for model 14 T.D.
- VE3IQL Terry 388-3981 - TTY green key tops
- VE3GLH Larry 692-4137 - R.F. Deck for 144 MHz to go into motorola Business Dispatcher radio.
- VE3JTY Mel 937-4223 St. Cath. - FV-100 Remote VFO for PTDX-400
- VE3ALM Bill 632-7693 - 23 channel switch similar to GRS channel switch.
- VE3IUD Jack 627-0816 - manual for TH-Hygain Vertical
- VE3HXY Don 639-9067 - Heath speaker cabinet to match SB series.

YOUR EDITOR HAS REDUCED THE SIZE OF THE BULLETIN THIS MONTH IN ORDER TO KEEP THE WEIGHT DOWN SO WE COULD AFFORD TO SEND THIS ISSUE FIRST CLASS MAIL, AND STAY WITHIN BUDGET.

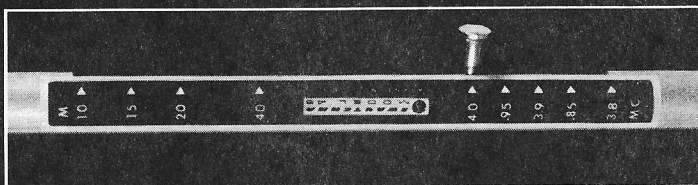
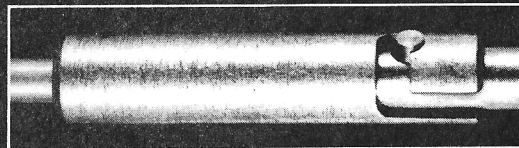
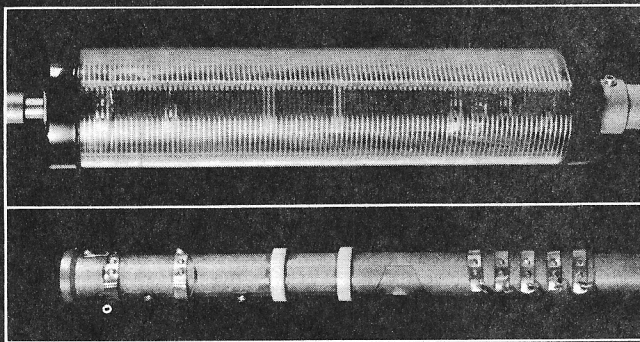
THIS WAS DONE DUE TO THE THREAT OF ANOTHER POSTAL STRIKE LATE NEXT WEEK. WE FEEL THIS BULLETIN IS MOST IMPORTANT AS WE ARE CHANGING BOTH OUR CLUB MEETING PLACE AND MEETING TIME.

HOPEFULLY WE WILL BE BACK TO NORMAL FOR NEXT MONTH.

JOHN EYC

# GETTING OUR STRONG POINTS OUT IN THE OPEN

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**Swan's 5-band Mobile 45**, loaded with high-engineering specs unavailable from any other antenna source today.

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**No more coil changing.** At the flick of the positive-stop switch, skip across all 5 bands freely using our High-Q tapped coil. Nine positions to shift to:

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- five settings on 75 meters
- And gold smooths the way.**

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**All for \$** \_\_\_\_\_, with 1000 watts PEP, and the same extra rugged, heavy duty construction you always count on from Swan.

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Please rush full details for the Swan 5-band Mobile 45 with manual band-switching.

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 Address \_\_\_\_\_  
 City \_\_\_\_\_  
 State \_\_\_\_\_ Zip \_\_\_\_\_

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