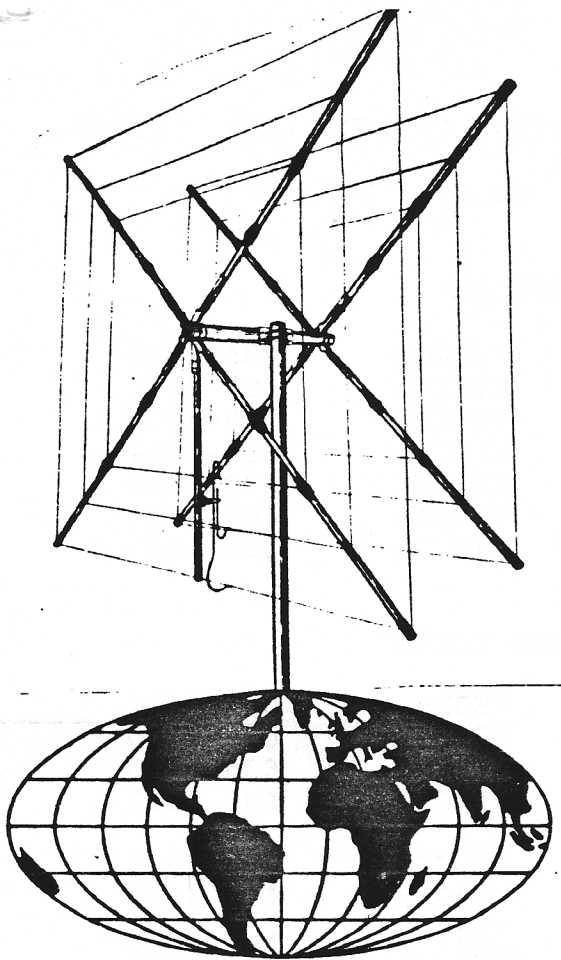
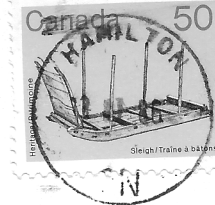


NOV. / 86



THE HAMILTON AMATEUR

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



RICK DANBY
6 CLINTON ST
HAMILTON, ONT
L8L 3J8

THE HAMILTON AMATEUR RADIO CLUB INC.

Established 1932

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

1986 OFFICERS & DIRECTORS

PRESIDENT	:	Glenn Gibson	VE3FHQ	385-2786
PAST PRESIDENT	:	Fred Spring	VE3ITQ	627-3375
1st VICE-PRESIDENT	:	Boris Auguste	VE3ITY	388-6200
2nd VICE-PRESIDENT	:	Robert Wilson	VE3CIB	383-2054
SECRETARY	:	Everet Englert	VE3OQX	578-2458
TREASURER	:	Gordon Barber	VE3AAH	383-9161
MEMBERSHIP	:	Michael Spenuk	VE3JTQ	389-1760

COMMITTEE CHAIRMEN & ASSOCIATES

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CLUB HISTORIAN	:	Ed Charlesworth	VE3ZF	634-5190
CLUB PROPERTY	:	Bill McCaslin	VE3ARX	634-5190
EDITOR	:	Philip King	VE3OII	545-9232
EDUCATION	:			
EMERGENCY SERVICES	:	Jack Heywood	VE3JTR	689-4406
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PROGRAMS	:	Boris Auguste	VE3ITY	388-6200
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TECHNICAL	:	Mark Gibson	VE3MWH	389-4308
VE3DC LICENCEE	:	Glenn Gibson	VE3FHQ	385-2786
VE3NCF 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.

NOVEMBER 1986 MEETING
THE HAMILTON AMATEUR RADIO CLUB

DATE: Wednesday, November 19, 1986
TIME: 8 o'clock P.M.
PLACE: Nash Auditorium, Chedoke Hospital
SPEAKER: S. Ribee, District Manager
TOPIC: Department of Communications

THE PRESIDENT'S MESSAGE

We had a good turnout for our October meeting to hear Paul Fleck speak on cellular radio-telephone. Good show, Paul! Hope you soon have the amateur exams behind you.

The 440 MHz VE3RPT link crystal and the power supply built by Don OCY are now on hand for installation on VE3NCF. We appreciate Don's building job and materials to help improve operations.

A big thank-you to VE3NKW John and the Committee for the fine job on the flea market, also to all who helped in the operation on the big day to make it a success. We have reserved Merrit Hall for 1987 again as we received several compliments on the good parking, etc. Congratulations to Pete. VE3FEZ who won the major surprise, a hand held.

VE3ZF Ed will be our liason with Chedoke Hospital and will help maintain our presence and continued use of the Nash Auditorium.

The version 3 software for our RC 850 controller is now installed. We will have its full use when we also obtain an IC to enlarge our mail box and autodial capabilities.

Check 14.121 MHz at 11:45 UTC for the Maritime Net from Mississauga.

Hope to see a good turnout to hear Mr. S. Ribee, District Manager of the D.O.C. speaking at our November General Meeting. Get your questions ready! At this meeting we elect our new executive for 1987. Don OCY is our election chairman.

New mailbox/autodial numbers: 74 JSJ Gord
76 LWD Wayne

73's Glenn, VE3FHQ

SUPPORT THE ADVERTISERS -- THEY HAVE SUPPORTED YOUR CLUB

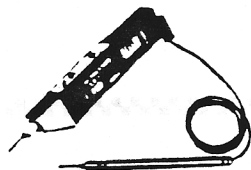
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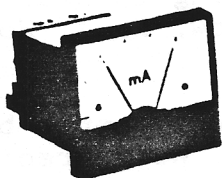
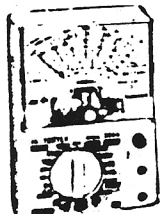
PENCIL IN TESTER



DIGITAL IN TESTER



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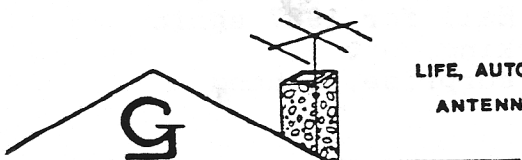


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MANY THANKS TO BORIS VE3ITY
 FOR GETTING THE ADS

NEWS & EVENTS

The Ontario Division CNIB Amateur Radio Program is requesting your club's support in promoting Amateur Radio for the blind. They are looking for volunteers to render assistance to new, sightless amateurs to get his or her station on the air. In response to the Ontario Division's request, the HARC has written to the Hamilton CNIB office asking them to forward a list of those people who may be interested. Your executive will decide what action to take when they hear back from them.

GO TO SIR JOHN A TUE OR THURS AFTER DEC. 2

Bob Sinclair VE3DFS will be the instructor on the Amateur Radio course for the Board of Education starting in January. Help is needed to spread the word as the class will be dependent upon a minimum of 12 students. If enough people are enrolled, the class will be held at John A. McDonald highschool on Tuesday evenings. Candidates should apply to the Board of Education at 527-5092. \$30.00

Julius VE3FYY has been monitoring 14.275 MHz following the El Salvador disaster. Julius can be reached at 945-3244 (Grimsby) Any others? The person to contact in Hamilton for traffic is Jose at 523-7356.

The appeal hearing date for the Jack Ravenscroft case should be announced any day now. A verdict should be reached sometime next summer. The importance a case such as this one and the ramifications for all licensed transmitter owners may well cause a considerable delay to final judgement. Both lawyers will have a day and a half to argue their case before 3 Appeal Court judges in Osgoode Hall in Toronto.

Current total donations to the JRSD Fund approximate \$55,000. and have come from almost 1300 separate donors. Response to an editorial in QST and numerous volunteer efforts at flea markets and commercial raffles have resulted in donations and letters from all across the U.S.A., Australia, Finland, Sweden, Holland and the U.K.

-CARF News Service

FROM CRRL NEWS:

Here are the top ten Canadian scores in this years Field Day, courtesy of ARRL:

	points		points
1 VE3NAR Nortown ARC	13720	6 VE7SAR Surrey ARC	5300
2 VE3SPC S. Pickering ARC	7694	7 VE2CBS Sorel-Tracy ARC	5050
3 VE3LON London ARC	6108	8 VE7CVA Cowichan ARC	4722
4 VE3XD Colgan-BramleaARC	5830	9 VE1ND Fredricton ARC	3904
5 VE3VM Niagara Pen. ARC	5634	10 VE6NQ N Alberta ARC	3720
		10 VE3RC Ottawa ARC	3720

FROM CRRL NEWS (cont.)

CRRL has become concerned about a new radionavigation system operating from the west end of Lake Ontario on or about 432 MHz. The frequency assignment appears to be legal. Amateurs use the 430-450 MHz band on a secondary basis. However, the assignment appears to have been made without due regard for potential interference. The wideband nature of the system's signals threatens weak-signal terrestrial and EME communications near 432 MHz and satellite communications near 435 MHz. Also, amateur signals could inadvertently interfere with the system, creating possible danger for ships that rely on it. CRRL is pursuing the matter closely.

Here's a challenge. Try working robot station IY4M on 28.196 MHz CW. When the beacon stops, send your call twice. If the robot hears you, you'll be rewarded with a signal report and greetings in English or one of several other languages.

CRRL and CARF will jointly sponsor the National Amateur Radio Symposium to be held in Saskatoon next year in conjunction with the 1987 Saskatchewan Hamfest.

The FCC has proposed that all transmitters in the United States, including amateur transmitters, be fitted with automatic identifiers that will send encoded callsigns whenever the transmitters are keyed. The Senate Judiciary Committee has approved an Electronic Communications Privacy Act that will make it illegal to monitor cellular radio, carphones, pagers and certain other radio signals.

Jim DeZorzi VE3ZK, is organizing a cross-Canada packet radio network to assist with the distribution of the CRRL bulletins. If you'd like to be part of this network, contact Jim by packet radio, VE3ZK via VE3GYQ or write to him at 1047 Prince George Road, London Ontario N6H 4E2.

In case you missed the change, the Honourable Flora McDonald is now Minister of Communications, replacing the Honourable Marcel Masse.

.....

COME ON OUT TO VOTE

H. A. R. C. ELECTION '86

.....

MEMBERSHIP CHAIRMAN'S REPORT

As of 1st October 1986 the H.A.R.C. consists of 112 members. A warm welcome to the following new members:

VE3ACA Jerry Hoblak	VE3BKQ Ed Mohammed
VE3JTC Hal Niles	VE3MVO Cecil Hayward
VE3POP Jim Walsh	VE3PRM Don Dawson
VE3S JL Nick Spanjevic	SWL Shane Watson

Finally, a late apology to our Secretary, Ev VE3OQX. Our computer decided not to include Ev in the membership list.

73 & gl, Mike, VE3JTQ.

AWARDS & CONTESTS CHAIRMAN'S REPORT

Home brew night brought out two interesting entries. Bill VE3OIZ and Ken VE3OIN both submitted adjustable and regulated power supplies that show remarkable resourcefulness in scrounging for parts at flea markets and elsewhere. It was difficult to make a decision on the winner as both items were very well thought out. The slight edge went to Bill VE3OIZ. Many thanks to both of you for demonstrating that the ham ingenuity is still around.

Thank you to the three judges who came forth willingly. These were Ralph VE3BYM, Don VE3OCY and Fiori VE3OQG.

Two other items were shown but were not entered in the contest. One was a CW paddle made from plastic and relay contacts and built using only a drill and a file and it worked well. This was shown by VE3FTD. The second item was a holder and charger for a hand held transceiver made from an electric shaver charger and used some springs from a ball point pen, a few adjustments with some resistors and it was ready to go. This was made up by Don VE3OCY, Thanks for bringing these in Don.

Don't forget your Art Ferguson Trophy nomination. The award will be presented at the November meeting. The nomination form from last month's bulletin must be in to the executive no later than November 19, 1986

73 Norm VE3BK

CURRENTLY ASSIGNED MAILBOXES

00:ALL OPERATORS	20:VE3ITY Boris	40:VE3ARX Bill	60:VE3ITJ Aranus
01:reserved	21:VE3JUC Tom	41:VE3GFE Stan	61:VE3JTQ Mike
02:reserved	22:VE3BOY John	42:VE3FDM Pete	62:VE3IUD Jack
03:reserved	23:VE3FMS Jack	43:VE3NYC Paul	63:VE3JTC Hal
04:reserved	24:VE3OIZ Bill	44:VE3NKZ Ted	64:VE3DVV John
05:reserved	25:VE3OCD Joe	45:VE3BK Norm	65:VE3CYC John
06:reserved	26:VE3OCW Ted	46:VE3DSP Glenn	66:VE3HNG Al
07:reserved	27:	47:VE3FHB Ken	67:VE3DOU Peter
08:reserved	28:VE3OIN Ken	48:VE3FMT Jim	68:VE3S JL Nick
09:reserved	29:VE3BYM Ralph	49:VE3FEZ Pete	69:VE3BLG George
10:	30:VE3OCQ Bob	50:VE3OQG Fiori	70:VE3FDK John
11:VE3ZF Ed	31:VE3EGT Les	51:VE3OCT Doug	71:VE3FBU Jim
12:VE3ITQ Fred	32:VE3NCN Bert	52:VE3FHQ Glenn	72:VE3MMH Bob
13:VE3NKW John	33:VE3MWH Mark	53:VE3OZY Rick	73:VE3GCP Fred
14:VE3OZG Hugh	34:VE3ANW Robert	54:VE3PLI Paul	74:VE3JSJ Gord
15:VE3CNF John	35:VE3JUR Dave	55:VE3FMG Mike	75:VE3OCY Don
16:VE3AAH Gordon	36:VE3OII Philip	56:VE3HTC Dave	76:VE3LWD Wayne
17:VE3OQX Ev	37:VE3RW John	57:VE3EGL Ken	77:VE3JTR Jack
18:	38:	58:VE3HLI Gerry	78:reserved
19:VE3EHL Ed	39:VE3EKY Bernie	59:VE3IM Tom	79:reserved

Here's a clip-and-save chart that will save you lots of time while helping you to put up a variety of antennas.

An Antenna Length Chart

BY GEORGE I. WAGNER*, K5KG

In the past few years I have had several opportunities to operate from a number of DX locations. In doing so, I have learned the importance of taking along the proper collection of tools, connectors, gadgets, and reference information to be able to make a quick repair or string up a needed antenna in an unfamiliar shack. Conversely, I have also learned the agony of lugging too much along, only to find it completely unnecessary and unused at the end of the trip.

The antenna length chart, which is the subject of this article, arose out of the need to have a convenient and ready reference, other than a weighty handbook, for measuring antenna lengths. This results from a number of experiences in trying to find a calculator, or a paper and pencil (typical in the dark and late at night), inevitable debates over what constants to use in the calculations, and finally the need to convert from feet to meters when only a meter tape was available, or vice versa. On two separate occasions I have discovered 160 meter dipoles of totally wrong lengths, and on an expedition to OJ0 in 1982, OH0RJ and I spent many hours calculating, cutting, and erecting 40 and 15 meter delta loops. This chart would have been a valuable asset in those circumstances.

This chart was developed after a brief reference to the various antenna handbooks in the shack, and a quick refresher on the current amateur frequencies, especially in the new 12, 15, and 30 meter WARC bands. The formulas used in the calculations, shown at the bottom of the chart, are based upon standard assumptions for wire antennas supported by end insulators.

The chart was developed using Visicalc (a registered trademark of VisiCorp), an electronic "spreadsheet" program on an Apple II+ computer. However, any spreadsheet program on a personal computer could have been used to do the job.

*P.O. Box 4312, Houston, TX 77001

* ANTENNA LENGTH CHART BY K5KG *

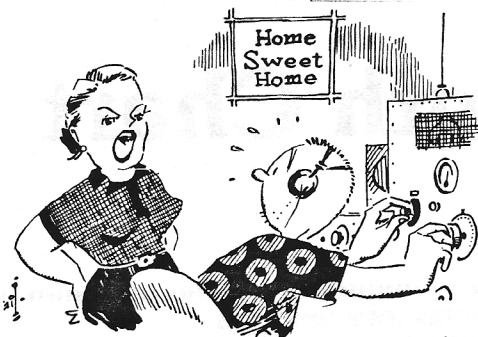
* FREQUENCY * (MHZ)	* WAVELENGTH - FEET				* WAVELENGTH - METERS			
	1/4	1/2	1/2+5%	FULL	1/4	1/2	1/2+5%	FULL
* 1.8	129.87	259.75	272.73	519.49	39.58	79.17	83.12	158.33
* 1.825	128.09	256.19	269.00	512.38	39.04	78.08	81.99	156.16
* 1.85	126.36	252.73	265.36	505.45	38.51	77.03	80.88	154.05
* 1.9	123.04	246.08	258.38	492.15	37.50	75.00	78.75	150.00
* 3.5	66.79	133.58	140.26	267.17	20.36	40.71	42.75	81.43
* 3.6	64.94	129.87	136.37	259.75	19.79	39.58	41.56	79.17
* 3.7	63.18	126.36	132.68	252.73	19.26	38.51	40.44	77.03
* 3.8	61.52	123.04	129.19	246.08	18.75	37.50	39.38	75.00
* 3.9	59.94	119.88	125.88	239.77	18.27	36.54	38.37	73.08
* 4	58.44	116.89	122.73	233.77	17.81	35.63	37.41	71.25
* 7	33.40	66.79	70.13	133.58	10.18	20.36	21.37	40.71
* 7.05	33.16	66.32	69.63	132.64	10.11	20.21	21.22	40.43
* 7.1	32.93	65.85	69.14	131.70	10.04	20.07	21.07	40.14
* 7.2	32.47	64.94	68.18	129.87	9.90	19.79	20.78	39.58
* 7.3	32.02	64.05	67.25	128.09	9.76	19.52	20.50	39.04
* 10	23.38	46.75	49.09	93.51	7.13	14.25	14.96	28.50
* 10.5	22.26	44.53	46.75	89.06	6.79	13.57	14.25	27.14
* 14	16.70	33.40	35.07	66.79	5.09	10.18	10.69	20.36
* 14.1	16.58	33.16	34.82	66.32	5.05	10.11	10.61	20.21
* 14.2	16.46	32.93	34.57	65.85	5.02	10.04	10.54	20.07
* 14.35	16.29	32.58	34.21	65.16	4.97	9.93	10.43	19.86
* 18	12.99	25.97	27.27	51.95	3.96	7.92	8.31	15.83
* 18.5	12.64	25.27	26.54	50.55	3.85	7.70	8.09	15.41
* 21	11.13	22.26	23.38	44.53	3.39	6.79	7.12	13.57
* 21.1	11.08	22.16	23.27	44.32	3.38	6.75	7.09	13.51
* 21.25	11.00	22.00	23.10	44.00	3.35	6.71	7.04	13.41
* 21.45	10.90	21.80	22.89	43.59	3.32	6.64	6.98	13.29
* 24.89	9.39	18.78	19.72	37.57	2.86	5.73	6.01	11.45
* 24.93	9.38	18.75	19.69	37.51	2.86	5.72	6.00	11.43
* 24.99	9.35	18.71	19.64	37.42	2.85	5.70	5.99	11.40
* 28	8.35	16.70	17.53	33.40	2.54	5.09	5.34	10.18
* 28.5	8.20	16.41	17.23	32.81	2.50	5.00	5.25	10.00
* 29	8.06	16.12	16.93	32.24	2.46	4.91	5.16	9.83

* FORMULAS USED *

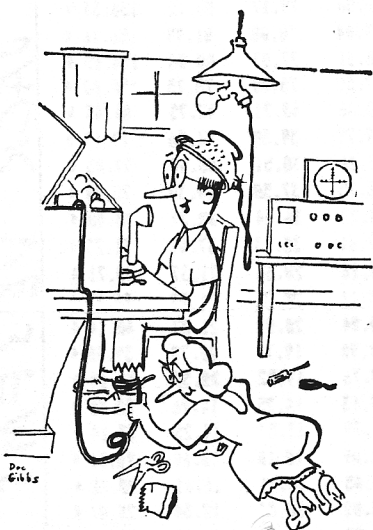
* 1 METER = 3.281 FEET *
* LENGTH OF 1/2 WAVELENGTH ANTENNA (METERS) = *
* (300 * .95 * .5) / FREQ (MHZ) = 142.50 / FREQ (MHZ) *
* LENGTH OF 1/2 WAVELENGTH ANTENNA (FEET) = *
* (300 * .95 * .5 * 3.281 / FT) / FREQ (MHZ) *
* = 467.54 / FREQ (MHZ) *
* NOTE: 1/2 WAVELENGTH + 5% IS USED FOR INVERTED VEE ANTENNAS *

THANK YOU JACK VE3EM5

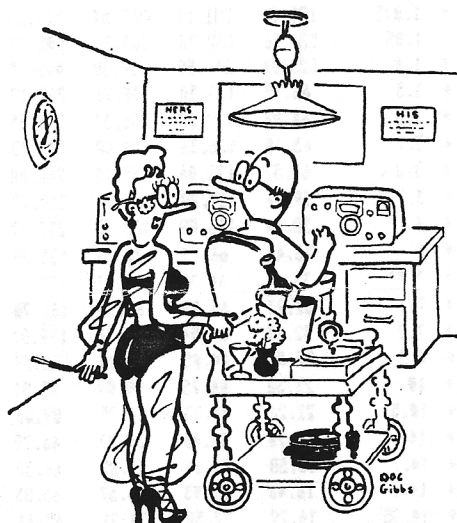
KEEPING UP WITH THE GIRLS
 TNX BACK ISSUES CQ QST



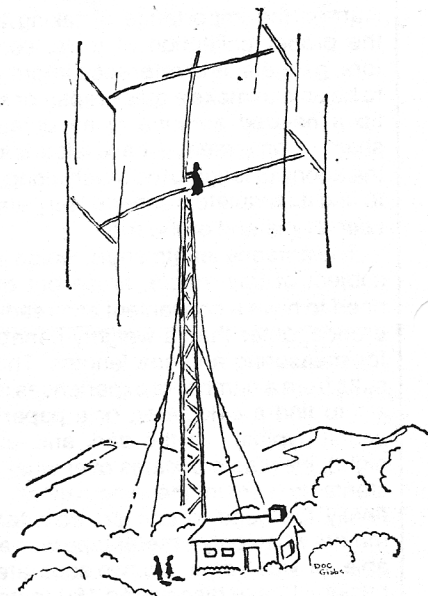
"FOR THE TENTH TIME, YOU TUNE FOR A DIP!"



"And, Fred, you'll never guess who's finally got the bug and is working on some big secret project."



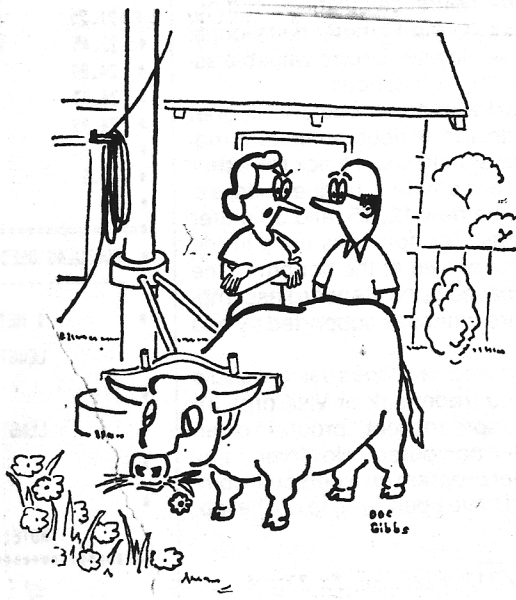
"Would you QRT, dear? It's time for my Paris sched with Raoul."



"Sometimes I almost wished he drank or chased women like other men."



"Well, Fred, I can't remember when I've had a more enjoyable QSO."



"Your rotator is eating my hyacinths again."

Part I THE HAMILTON AMATEUR RADIO CLUB SWAP SHOP with Ralph VE3BYM

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	Yaesu FT208R with charger & case-		325.00
	NC-8 Desk charger.		75.00
VE3GFE-	Stan- 528-4002- Hamilton.		
	Multi 7 2 meter xcvr.		100.00
SWL-	Mrs. Wilson 385-4271. Hamilton		
	KW 2000B with operating manual		350.00
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	IC228 syn. xcvr. with manual. (as is)		75.00
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	SX-190 receiver		160.00
VE3OCO-	Bob- 681-0400. Burlington.		
	FRI01 Digital rcvr. with 2 meter band.		400.00
VE3JTQ-	Mike- 389-1760 Hamilton.		
	MIRIGE B108 2M. All mode, Amp. 80 out (built in preamp.		235.00
VE3IQL-	Terry- 648-3116. Burlington.		
	Contrak B/W video monitor- 100.00, SB610 monitor scope		150.00
	DIAWA CN630 swr/pwr. meter 140 to 450 mhz.		130.00
	INFO-TECH N500 asr teletype cw unit keyboard & man.		500.00
VE3ITJ-	Arunas- 388-8658 Hamilton.-Hewitt Packard pulse gen.		45.00
	TERMINET Model I200 with RS232 interface & man.		160.00
VE3BGH-	Len- 416-734-6541 Welland.		
	RS232 switch RS26-I499 & manual		125.00
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	ASR teletype built in mode		50.00
VE3NKW-	John- 416-563-5046. Beamsville.		
	FT501 with pwr. supply and manual.		525.00
	PANASONIC rcvr. Model 4900, all band, all mode		500.00
VE3MAH-	Tom- 519-653-9315. Cambridge.		
	ISOPOLE AEAI44 2meter vertical antenna		75.00
	HMI02 swr/watt meter 200-2000.		30.00
VE3CHM-	Paul- 519-579-3057 Cambridge.		
	Irma board- IBM terminal eliminator Model 3278-3		600.00
	KW Easymatch tuner-\$50.00, SSB filter		25.00
	PARTS- SB401 & 402. and LMO		50.00
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	KENWOOD TS930s with AM filter & mike		1800.00
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	YAESU CAT980 xcvr with MDI-scan. desk mike, FIF232C,		
	interface unit, 980 gen. cover., 1.8-30mhz. kit.		
	Model FRB-1 relay box.-Cost 4000.00 All for -		2500.00
VE4BBN/3-	Bill- 689-9528. Burlington.		
	YAESU 207R with dc/ac adaptor & converter.		250.00
VE3FTD-	Glenn-692-3809. Binbrook.		
	MODEL 10 high gain pwr. ant.- 40 ch. am cb rig		100.00
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8BM11,9002,6BQ7A,12AT7,9003,12BE6,6CL6,12BA6,12BF6,956,0B2,50C5,9006,

6V6,6AX4,6K7G2A6,5Y4,VR100, VT 232, 24, OC3, 1G3GT, 1B3GT, VT 118, 5U4G,
6V7, 1B3GT, 35L6, 50L6, OC#, OC3, 35Z5, 41, 6SN7G, 3A3C, 44, 5Z3, 53,

6AC7, OZ4, 12A6, 12SK7, 6F6, 6J7, 1, 6K7, 6AK7, 6AG7, 6H6, 12A6, 6C5,
5Z4, 6K7, 6A8, 6F5, 12SA7, 6F5, 12SA7, 6SK7, 6C5, 6N7, 6K7, 80, 6SF5,

6X5, 6BQ6, 35L6, 1626, 2576, 832, 5U4G, 6DQ6, 5u4, 6AX4, 6K6, 12SN7, 6SN7, 2C43,
35Z5, 25L6, 1629, 6W4, 12DQ6, 25W4, 6K6, 12SN8, 6JG6, 5V4G, VT 118, 25BQ6, 12BA6,
12Ax4, 12V6, 6W6,

12SN7, 956, 6AB7, 6W4, 12B06, 5Z4, 12SQ7, 6SN7, 6V6, 35L6, 12AX4, 80, VR105, 2A3,
6SQ7, 6K6, 6X5, 6BQ6, 5V4, 5Y4, 5Z3, 6Q7, 6F7, VR150, 6SF5, E1148, 6SA7, 25BQ6, E1148
6T8, 6ER5, 6R8, 6X4, 6CM7, 6AL5, 12AX7, 6AT8, 12AT8, 2D21, 50B5, 12BH7, 6Av6,
12AU7, 5CG*, 12AT7, 6BC5, 6BZ7, 12AX4, 6360, 12AX7, 12BA7, 12AD6, 6BN6, 12X4,
6CB6, 6CL6, 3BZ6, 6HS8, 12AU7A, 6AK5, 6X8, 6J6, 6AS5, 6AG5, 6AU8, 6S4, 3S4, 5763, 2E26.
E1148, 25L6, 6H6, 6AL5, 6AV6, 1R5, 1U4, 3CB6, 6BQ7A,

RK39, 47, 866A, 1625, 807, 6G6, VR150, 24, 2C44, 878A, 815, 2E26, E1148, 83, 2A3,
66, VR105, 25A6G, 1629, 1625.

6146A, 6146, 814, 5763, 5U4GB, 820B, 829B, 5u4GB,

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