

The

Hamilton Amateur

October 1990

(Established 1932)

CHML - West Hamilton

Tour of CHML Radio's Studios and Transmitter Site

View the studio production facilities and the transmitter site and antennas. See the note inside for directions to our *changed meeting place*. Note that start time is 1900! (7:00 PM)

Meeting: 17 October 1990

HARC EXECUTIVE FOR SEPTEMBER 1990:

PRESIDENT: VE3SON Jim Walsh VICE PRESIDENT: VE3JTQ Mike Spenuk 389-1760 VICE PRESIDENT OPNS: VE3JTQ Keith Johnson 529-1603 VICE PRESIDENT ADMIN: VE3TJL Clift Tooher 547-5801 SECRETARY: VE3SMF Stuart Fedak 628-4131 TREASURER: VE3VFR Norm Sanger 348-2940 MEMBERSHIP: VE3WWO Ron Hallas 647-1968

HARC COMMITTEE CHAIRPERSONS FOR 1990:

WARDS & CONTESTS:	VE3AAH	Gordon Barber	383-9161	
ISTORIAN:	VE3BLG	George Olenick	383-7338	
ROPERTY:	VE3VFR	Norm Sanger	388-2940	
ULLETIN EDITOR:	VE3SON	Jim Walsh	689-6839	
DUCATION:	VE3EKY	Bernie Granby	527-7175	
MERGENCY COORD:	VE3NYC	Paul Hazen	664-5247	
IELD DAY COORDINATOR:	VE3TJL	Cliff Tooher	547-5801	
LEA MARKET:	VE3NYC	Paul Hazen	664-5247	
EALTH & WELFARE:	VE3GFE	Stan Bollbruch	528-4002	
ROGRAMS:	VE3DKJ	Keith Johnson	560-1960	
UBLIC LIASON:	VE3GCP	Fred Robinson	575-5197	
OSPITALITY COORD:	SWL	Gerald Crawshaw	385-2789	
HRISTMAS DINNER PLAN:	VE30QG	Flori Manga	560-6329	
WAP NET CONTROL:	VE3DKJ	Kelth Johnson	529-1603	
EPEATER:	VE3JTQ	Michael Spenuk	389-1760	
ECHNICAL:	VE30CY	Don Graziano	560-1960	
E3DC LICENCEE:	VE3FHQ	Glen Gibson	385-2786	
E3NCF LICENCEE:	VE30CY	Don Graziano	560-1960	
E3RCB LICENCEE:	VE3NYC	Paul Hazen	664-5247	
CENCE TESTING:	VE3BFF	Jim Filmtoff	549-7441	

CASSARSOTERTERSES

FROM THE BULLETIN BOARDS - 5

The DOC has issued an update of the document "Immunity of Electrical/Electronic Equipment Intended to Operate in the Canadian Radio Environment. (.010 to 10,000 MHz)

This 15 page technical document known as EMCAB 1, Issue 3, is available from DOC, 300 Slater Street, OTTAWA, K1A 0C8, attention DOS-PP, or from Regional DOC offices across Canada.

de VE3VCA Steve VE3GRS at the keyboard

President's Message

mean to us. He included some interesting anecdotes on his paricipation for many years. At his request, the honorarium we usually givenspeakers will be sent to the WARC Defense Fund. At the September meeting, Noel Eaton VESGJ gave an interesting and informative talk on Amateur involvement in previous WARC meetings and what the 1992 meeting can

We are still looking for an instructor or a team of instructors to run a course on Amateur Radio. The Burlington Club has one going at the M. M. Robinson High School. For info call Wayne Lockie, VEJFMN at 639-0106.

We are also looking for examiners to conduct Amateur examinations on behalf of Communications Canada. Individuals must possess an Amateur Radio Operator Advanced Certificate with preference to those involved in related training programs at the instructor level or who possess extensive background in amateur radio operations.
An individual recommended by the Club will have an interview with Communications Canada to explain in detail the procedures.

Fred VE3GCP had some P had some more information about the Labatt Brierare expected to purchase a uniform at \$100 each to a minimum of 30 hours,

Initial report says that our Flea Market was the successful yet. A round of thanks to Paul VE3NYC committee for a job very well done.

Notes from HARC

AN OPEN LETTER TO THE EXECUTIVE AND FRIENDS OF H.A.R.C.

I would like to express my sincere thanks to those attending the 8th Flea Market. This was a new concept that I thought would add fun and a financial boost to the club. I hope future efforts will be better supported by club members as this has been a tremendous effort of less than two dozen people - raising better than half the club's

the most financially sucessful flea market ever I take my hat off to those who were so dedicated to take the time and effort to make this

Sincerely, Paul VE3NYC.

DON'T MISS THE OCTOBER GENERAL MEETING!!

OF CHML RADIO

Be sure to attend the October 17 General Meeting of the Hamilton Amateur Radio Club. Planned is a tour of the studios and transmitter site of radio station CHML. It should be a fascinating evening. The transmitter features 50 KW state of the art equipment.

the west (Longwood) side of the plaza. Instead of meeting at the usual place, we will meet at 7:00 p.m. at the CHML studios, the corner of Longwood and Main Streets, in West Hamilton. There is ample parking on

DIRECTIONS: From the 403 highway, either direction, it is best to exit at Aberdeen Avenue. Then take a left (north) at the first lights onto Longwood Road. The studios are in the new plaza on the south-east corner of Longwood and Main.

If you are coming from downtown on King St., take the jog on Paradise Rd, and as

soon as you hit Main St, left (south) into the plaza.
If you are coming from the west on Main St., you know where it is.

If you still don't know how to get there, there is a map elsewhere in this bulletin.

At the studios, we will split up into two groups. Group A will drive to the transmitter site for a 7:30 to 8:30 tour. Maps will be provided. 8:30 to 9:00 is Group A's driving time back to the studios for a 9:00 to 10:00 tour. Group B will tour the studios from 7:00 to 8:00, drive to Valens from 8:00 to 8:30 for an 8:30 to 9:30 transmitter site tour. Please double, triple or quadruple up when driving to the transmitter site. Limited maps are available, and gas is up 20% from a month ago.

Savoy, Senior Technician, at the transmitter site. Our guides will be Ted Townsend, Chief Engineer, at the studios, and Jean Claude

SEE YOU THERE - WEDNESDAY OCTOBER 17, 7:00 P.M., CHML/CKDS

FROM THE BULLETIN BOARDS - 3

Why deregulation? Deregulation will allow amateurs to use new technologies as soon as they become available, without waiting for DOC regulations changes that can take up to four years. However, deregulation will require Canadian amateurs to exercise considerable restraint to avoid causing problems for amateurs outside of Canada. Please, even though it's legal, don't fire up your phone signal near someone's CW net. Don't run data in the traditional phone band. As much as possible, until voluntary band plans consistent with IARU-recommended band plans are developed, continue to observe the traditional subbands.

tem 3

DOC giveth, but the DOC also taketh away. During the final week of September, CRRL received a copy of CPC (Client Procedures Circular) 2-0-03, Issue 1, dated September 1 but not yet officially released by DOC. The procedure outlined in CPC 2-0-03, the procedure that will become mandatory within weeks, is a potential nightmare for Canadian amateurs. Before erecting antennas or antenna supporting structures, amateurs will have to file forms with their municipal authorities and try to receive municipal approval, either in the form of a building permit or other written authorization. If a municipality objects to an antenna or antenna supporting structure, DOC district personnel will become involved. If a consensus cannot reached, DOC will render a final decision.

It is not believed that DOC will deny any amateur a reasonable antenna system. Licensed radio stations remain under federal jurisdiction, and stations must have antennas to operate. But amateurs may be pressured to comply with unreasonable standards set by some municipalities, and there is a potential for an uninformed public concerned with aesthetics, possible radiation hazards, interference and the like, to make considerable trouble for an amateur who wants to erect even a modest antenna system. More later.

Item 4:

The London (Ontario) Fleamarket will be held on October 14, not October 13 as listed in Bulletin 25/26.

UPCOMING EVENTS:

CQ WW DX Contest - phone	CRRL Fall Sprints - 50 MHz	Scouts Jamboree-on-the-Air	RSGB 21-MHz CW Contest	CRRL Fall Sprints - 144 MHz	RSGB 21/28-MHz SSB Contest	London (Ontario) Fleamarket	ARRL International EME Competition
October 27/28	October 27/28	October 20/21	October 21	October 15/16	October 14	October 14	October 13/14

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

Notes from HARC - 3

perform on that band as well as any other and a QSY to another band after one is familiar with the working operation of the rig takes only about 30 seconds. Remember, these older rigs were the best in their class during their day in the sun.

I found an old speaker knocking about for external use which was very cheap (free), since it was sitting in my basement. As for a morse key, one was GIVEN to me by a good friend, VE3NYJ with good wishes.

Now for the antenna. Well since I wanted to work CW on HF, I decided to go on the air on 20 meters (some say I was crazy since it's a pretty heavy duty type of band, but I always was the type to jump in with both feet). "What was that I read about half wave dipoles?" Oh yes! 468 divided by frequency in MHz. All I needed was a piece of wire 33.13 feet long and a centre feed point which I ended up building out of a piece of plexiglass. Of course I fed it with coax into the shack and my SWR was 1.2:1 DIRECT into the rig.

With great nervous anticipation, I tuned around the CW portion of the band and yes, they were right, The CW here is fast and I got scared. Not giving up that easily I heard a good signal emitting the call sign N4PNX calling CQ at about 15 wpm and taking the opportunity of my regained courage I answered. My goodness, he heard me....HELP! Now what do I do? To make a long story short, I asked him to please QRS which he kindly did and he was as thrilled as I realising that he was my very first contact.

This is great! Now for me to go on another band, all I need do is sling together another one of these easy to make half wave dipoles. I quickly went to work and put one together for 15 meters. And so it goes on.

Today I have 3 horizontal half wave dipoles for 10, 15 and 20, two sloping dipoles for 10 and 20 (all home brew) and I eventually picked up a G5RV "all bander" that I use for 40 and 80. These dipoles have also broken many a pile-up using 100 watts.

I still use the TS520SE, I still have no external power supply, still no 3 element yagi and yet, I have worked DXCC (180 countries to be exact), 138 Russian Oblasts, and all but one CQ zone since being licensed in March of 1988. Don't let ANYONE tell you that dipole antennas are just "OK". They can be, and are very effective and one can be built from scraps lying about the basement.

	Total cost of getting on the air?	
TOTAL	Rig TS520SE Morse key SWR meter Home brew antenna Coax Ground rod	
\$415.00	\$350.00 free free 35.00 5.00 25.00	

FROM THE BULLETIN BOARDS - 1

HR BULLETIN 26 FROM CRRL, LONDON, ONT., 1990 SEPTEMBER 23

Many amateurs are still not aware that, on 1991 January 01, the federal government's new Goods and Services Tax (GST) will be applied to all magazines, including Amateur Radio magazines published in the US and Canada. Last May, to minimize the impact on CRRL members, the CRRL Board separated CRRL membership from subscription costs for QST and QST Canada. This means that CRRL members will have to to pay tax only on the magazines they receive, not on the combined cost of magazines and membership. Of course, CRRL members can avoid the tax completely by renewing now. Use the coupon in October or November QST Canada.

A reminder about Canada's Defence of Amateur Radio Fund (DARF), set up to help IARU defend our amateur frequencies at WARC-92 and WARC-93. Many amateurs have been generous and there is now over \$7000 in this fund, but much more money is needed. Please send your cheque to DARF, c/o Tim Ellam, VE6SH, 107 Strathearn Rise SW, Calgary, Alberta T3H 1R5.

According to Westlink Report and the Radio Nederlands "Media Network" program, "negotiators for amateur interests" have reached an agreement on a possible realignment of the 40-metre band, to 6.95-7.25 MHz, AMATEUR exclusive on a worldwide basis. If this were to happen, shortwave broadcasters would move up to 7.25-7.75 MHz, also exclusive on a worldwide basis. The identity of the "negotiators" was not revealed, nor was a time frame suggested for the change. At present, much of the 40-metre amateur band is shared with broadcasters.

On October 1, ARRL will initiate a user fee for DXCC. After October 1, every first-time applicant for DXCC will be charged US \$10. ARRL and CRRL members will be allowed, free-of-charge, one submission per calendar year. This submission may include any number of QSLs, any number of DXCC awards and any combination of new and endorsement applications. ARRL and CRRL members who submit more than once per calendar year will be charged US \$10 for each submission after the first. This fee structure is being implemented to encourage DXCC participants to make fewer submissions for DXCC, and to provide better service for those who do submit. AR

TO ALL RADIO AMATEURS BT HR BULLETIN 27 (PACKET CRLE027), FROM CRRL, 1990 SEPTEMBER 30

Item 1:

On Wednesday, September 26, representatives of CRRL and CARF met with officials of DOC Ottawa by conference telephone call to discuss final details of DOC's Restructuring of the Canadian Amateur Service. Restructuring will take effect on Monday, October 1. Beginning October 1, DOC will issue a single certificate, the Amateur Radio Operator's Certificate, with up to four levels of qualification: the Basic

The Swap Shop: For Sale - 1

To list items: VE3NCF (146.76) Tuesdays 8 pm,

OR Call Ralph (VE3BYM) 388-6146 or Keith VE3DKJ (autodial 19), OR leave message on the VE3DC Packet BBS (145.590 MHz)

VE3CIY JOHN, 628 4814

0 TV ROTATOR, IN GOOD SHAPE \$20

VE3DKJ KEITH, 529 1603

- 0 2M ANT \$FREE
- 00 BOX OF LAMP CORDS WITH ENDS, SOME TELEPHONE HOOKUP WIRE \$FREE CABLE TV ADVICE \$FREE TOH.A.R.C. MEMBERS

VE3DOU PETER, 333 0714

0 TR4C TRANSCEIVER WITH VFO, MANUAL \$400

VE3MWD SERAFINO, 662 4526 OR PACKET 145.590

- YAESU FT209RH WITH CHARGER, MANUAL ORIG OWNER MINT \$250
- "PC COMBO" SOFTWARE FOR KANTRONICS INTERFACES, RTTY, CW, PACKET WEFAX, WITH MANUAL \$25

0 VE3LJY VICTOR, 765 4510 CALEDONIA

o 65' CUSTOM MADE SELF SUPPORT TOWER \$NEG

VE3HOD BILL, 578 0432

- 0 0 ALINCO DJ100T 2M RIG, DUCK \$250 JOHNSON MATCHBOX \$50

VE3ITA LARRY, 549 7393

- HEATHKIT HM102 SWR/PWR METER 1.8-30 MHZ, 2000W \$50
- HEATHKIT VHF SWR/PWR METER HM2102 50-160 MHZ, 250W \$50
- BRAND NEW LARSEN DUAL BAND ANTENNA DUPLEXER/COUPLER AD-2/70 \$65

VE3KYO JOHN, 774 6867 DUNNVILLE

YAESU FT470 DUAL BAND HANDIE 140-174+430-450 MHZ WITH FNB10 BATT PACK, DUCK, CTCSS, MANUAL, ORIGINAL BOX \$550

LLOYD, 774 6827 DUNNVILLE

- 0 REGENCY ACT T 720A 16CH DIGITAL FLIGHT SCANNER \$150
- 40CH GRS RCA CO-PILOT SSB CB \$170

VE3ABH JOE, 416 835 5665 PT COLBORNE

- 0 34PNB NOISE BLANKER FOR DRAKE TR4, TR4C NEW WITH INSTR \$75NEG

The Swap Shop: For Sale - 2

- MFJ 959B RECEIVER/TUNER PREAMP LIKE NEW \$50 LO-PASS FILTER, JOHNSON 1KW \$25
- 0 TAYLOR RSO TUNEABLE FILTER, HI PWR \$25
- HOMEMADE 4-EL 2M QUAGGI \$15
 HALLICRAFTERS SR2000 HURRICANE XCEIVER, 2KW WITH HA20 EXTERNAL VFO(ALLOWS DUAL RECEIVE), PS2000, SPARE FINALS, TUBES, PARTS 80-10M SSB,CW, TURNER +3 AMPLIFIED MIKE \$650 OR \$600 NO MIKE

VE3NCK BILL, 545 3579

- 2M PWR AMP HEATHKIT, 5W IN/45W OUT \$50
- 0 **SHURE 444 MIKE \$50**

0

2M SKY POLE (LIKE RINGO RANGER) \$40

VE3RPS RICK, 383 2321

- 0 HW-8 QRP RIG 80/40/20 \$135 5/8 440MHZ MAG MOUNT \$35
- 00 VHF MAG MOUNT \$40

VE3NYX RENZO, 521 1064

- 00 11EL 2M ANTENNA (CUSHCRAFT) \$65
- **CW BUG \$30**

KEN WARD, 526 7029

0 HEATHKIT PACKAGE: HW101 SSB XCEIVER, SB600 PS+SPEAKER,HM102 METER ONLY-NO GUTS, SB610 OSCILLOSCOPE, HD15 TELEPHONE PATCH, FL30M RADIO FILTER, TWO DESK MIKES \$295 OR B.O.

VE3TJL CLIFF, 547 5801

"PANORAMIC" SPA1 SPECTRUM ANALYZER, NO MANUAL \$250

VE3AEJ ANDY, 416 221 1381 WILLOWDALE

0 AMERITRON AL80A LINEAR AMP 10-160, STILL UNDER WARRANTY \$1200

JOHN, 575 0784

- 0
- UNIDEN HR2600 10M XCEIVER \$350NEG UNIDEN HR2510 10M XCEIVER \$350 NEG

BILL, 416 849 8506 OAKVILLE

0 PRO-34 200CH HANDHELD SCANNER (BOUGHT OCT89 \$499) \$220 WILL SHIP

0 S IF FOUND TW4000A KENWOOD WITH VOICE SYNTH SER. #3121349 CONTACT VE3UIJ RON

TOLEN ********************

The Swap Shop: Wanted - 3

To list items: VE3NCF (146.76) Tuesdays 8 pm,

OR Call Ralph (VE3BYM) 388-6146 or Keith VE3DKJ (autodial OR leave message on the VE3DC Packet BBS (145.590 MHz) <u>19</u>

VE3WEM ED DISSETTE, 416-888-1532 STOUVILLE

0

O FORMING A CLUB FOR GRADUATES OF #1 WIRELESS SCHOOL IN MONTREAL, WHICH MOVED TO MOUNT HOPE. LOOKING FOR WEM'S (WIRELESS ELECTRICAL MECHANICS) OR WM'S (WIRELESS MECHANICS).

VE3CIY JOHN, 628-4814

FOUR ELEMENT 20M MONOBEAM ROTOR SUITABLE FOR SAME

JERRY, 544-7770

- 0 CRYSTALS, EG 142.485, 154.830, 150.695, 154.250 OR OTHER HAMILTON POLICE, FIRE, EMERGENCY
- TO BORROW, CASSETTE DRIVE FOR COMPUTER, HAVE VOLKER-CRAIG COMPUTER WITH KEYBOARD AND MONITOR, PORTS WANT TO SEE IF WORKS OR WILL SELL FOR \$100 VERY NEGOTIABLE

VE3DJ JOCK, 648-4900

SATELITE TRACKING SOFTWARE FOR ATARI OR APPLE II

VE3FYG BERNIE, ST KITTS, NO PHONE # AVAIL.

IBM IEEE INTERFACE CARD

0 VE3CRB JOHN, 244-1292 DOWNSVIEW **DUAL BANDER \$REASONABLE**

0 VE3EGT LES, 547-2717 TUBE TESTER

o 2 POSITION COAX SWITCH

00 CW SOFTWARE FOR VIC-20

0 VE3ABH JOE, 416-835-5665 PT. COL 1969 JULY CO MAGAZINE TO PHOTO-STAT ARTICLE BORNE

0 VE3NCK BILL, 545-3579

MOUNTING BRACKET FOR WOOD 2M 7950 OR 800 OR 850

VE3NDK DON, 632-5236

0 MENTS COMPUTER USERS GROUP

VE3TJL CLIFF, 547-5801

0 INFO ON DATACOM 300 TRANS CANADA TEL SYSTEM TELETYPE

VE3WAK CHRIS, 681-8890

O HEATHKIT HID1418 ACTIVE AUDIO FILTER

JOHN, 575-0784

0 2M ALL MODE XCEIVER, PREFER BASE STATION

/E3TJB TED, 578-9266

0 KENWOOD MC46 MIKE WITH TTP FOR 7950

0 *VE3RTB JIM*, 423-4781 TORONTO BATTERY PACK BP70 FOR IC02AT

Notes from HARC - 4

You should be able to pass THAT by the XYL. Or of course, you can buy all the fancy gear for \$2000.00 plus and take your chances.

Just a note, please don't think | wouldn't like the TH6 antenna, self support tower, a TS950 or IC781 with all the bells and whistles, I will have that kind of equipment eventually, I'm merely assuring you that you can have a VERY EFFECTIVE Amateur Radio Station at a very nominal cost, in fact you can probably put something together even cheaper than the example given here.

Let's make it clear to our aspiring hams that it need not cost a small fortune to enjoy what all of us would agree to be the world's greatest hobby.

Good hamming! es vy 73.

Richard K Leah

NOTE: Details of the changes to Amateur Radio are noted in this month's CRRL and CARF bulletins. Please take a few moments to review them so that you are well informed about the updated regulations and requirements. Who knows, you may be asked by a prospective Ham about the new requirements.

Dave, VE3HTC

The Hamilton Amateur Advertizing Rates - 1990

\$150.00	\$25.00	ull Page
\$100.00	\$20.00	/2 Page
\$75.00	\$15.00	/4 Page
Year	Issue	

Sizes are based on an 8.5 x 11 inch page reduced to 4.25 x 5.5 inches (approx). Arrangements can be made to produce your artwork or you can provide camera-ready copy. Note that there will be extra charges if you provide the paper (Originals are photo-reduced and printed as part of the Bulletin).

One year is 10 issues (January to June and September to December).

FROM THE BULLETIN BOARDS - 2

qualification which gives 250-watt all-mode privileges on VHF/UHF after passing a written examination on theory, operating procedures and regulations; the Morse Code (5 wpm) qualification which adds 250-watt all mode privileges on 80 and 160 metres; the Morse Code (12 wpm) qualification which adds 250-watt all-mode privileges on remaining HF bands; and the Advanced qualification which allows the holder to use maximum legal power and homebuilt transmitting equipment (not allowed without the Advanced qualification), and to sponsor and operate club, repeater and remote base stations.

On October 1, amateurs who hold the present (soon to become "old") Amateur or Advanced Amateur certificates will be deemed to hold the equivalent of the new Amateur Operator's Certificate with all four levels of qualification. Amateurs who hold the Digital certificate will be deemed to hold the equivalent of the new Amateur Operator's Certificate will be deemed to hold the equivalent of the new Amateur Operator's Certificate will not be issuing new certificates for those who hold "old" certificates. Also, holders of "old" certificates do not need to contact DOC in order to begin using their new privileges. On October 1, holders of the "old" Amateur certificate may just plug in their microphones, data terminals or whatever, and operate. Candidates for the "old" Amateur certificate who passed some of the tests for that certificate will receive credit towards the new. Candidates who passed the "old" theory and regs will, upon request, be granted the new certificate with the Basic qualification. Candidates who passed only one of the "old" theory or regs will have one year from the time they wrote to retry the test they missed. (This represents a change in DOC's originally stated intention, which was to allow no credit if a candidate passed only one of the "old" theory or regs.) Those who passed the 10 wpm code test will receive credit towards the Norse Code (5 wpm) qualification.

A detailed look at the new Restructured Amateur Service appears in 1990 October QST Canada.

Item 2:

Deregulation of Mode Subbands was not supposed to be implemented until next year. It was supposed to be held up at the Privy Council Office where everyone was preoccupied with the Goods and Services Tax. However, in a surprise move, DOC announced that Deregulation of Mode Subbands will also take place on October 1, the same date as for Restructuring the Amateur Service. On October 1, the subbands that Canadian amateurs use for phone, RTTY, ATV and the like will disappear. Canadian amateurs will be able to use any mode on any frequency within their amateur bands, subject only to the following bandwidth restrictions:

1.8-2.0, 3.5-4.0, 7.0-7.3, 14.0-14.35, 18.068-18.168, 21.0-21.45, 24.89-24.99 MHz: 6 kHz 10.1-10.15 MHz: 1 kHz 28.0-29.7 MHz: 20 kHz 20.5-54 and 144-148 MHz: 30 kHz 220-225 MHz: 100 kHz 430-450 and 902-928 MHz: 12 MHz All other amateur bands: not specified

Notes from HARC - 2

THE COST OF GETTING ON THE AIR by Richard Leah VE3ANB

As I was working in my back yard attempting raise into the tree a home brew delta loop for 15 meters, a gentleman called out in an inquisitive manner, "What band is that for?". Abandoning the project momentarily, I approached him and replied "With any luck, 15, are you a ham?" He stated that he hoped to be very soon and only had the CW to go. During the course of our pleasant eyeball QSO, he stated that it must cost a lot of money to get into the hobby to which I tried to eliminate his unjustified fears by stating that provided he be willing to pick up some good used gear, the cost could be extremely and pleasantly surprising. My comments to him essentially are as follows.

Of course, you've been browsing through the many publications catering to the ham community and you've been dazzled by all those nice fancy rigs with a million buttons and dials, just like the ones your long time ham friends have. BUT THE COST !!

A power supply? "I thought that was included in the price" Oh no!! another \$350.00 and you haven't even looked at antennas yet, your afraid to, even though you'll probably find out they are in the range of \$350.00 for a new 3 element tribander. Tower? "Never even thought about that. Oh my goodness, who said rotor?". You need a key, (If you can't scrounge an old morse key from someone, I'll be VERY surprised).

All of a sudden you feel lost and so far away from making that very first contact that you've worked so very hard for, what with studying the theory and code. Your XYL will NEVER let you have a station at these prices unless you wish to communicate with her through her lawyer.

Today, with the advance of technology, the rigs and other sundry amateur gear produced today have made being a ham a real pleasure due to the fact that operation has been automated to some extent however, with this fact in mind, it has at the same time, produced a new breed of ham that could well be defined as "appliance operators". Functions such as tuning an antenna, checking SWR, reading the operating frequency on a digital display, producing CW using computer and QSYing, to mention but a few, have become so simple by the mere push of a button. Anybody can operate an appliance but a HAM can do more, or at least he should be able to. After all, he's done enough studying.

As I was saying, the solution to getting on the air at a reasonable price is to put your knowledge to work for you and actually feel pretty darned proud of your accomplishments.

In my personal experience, I picked up a used, and what is considered by the new fellows on the block (not to be confused with the rock group out of Boston), "old rig", namely a Kenwood TS520SE for \$350.00. Just think, I don't need that expensive power supply now because it hooks right in to my AC line. So what! I spend a few minutes tuning the rig up manually, checking the ALC, plate current, SWR etc. I actually find it strangely satisfying to perform this function manually. Once tuned up, my rig will

FROM THE BULLETIN BOARDS - 4

15 September 1990 Issued at CARF Headquarters

ITEM 1. INFORMATION ON THE NEW AMATEUR OPERATOR'S CERTIFICATE
On the 1st October 1990 existing Amateurs who hold the Amateur Radio Operator's
Certificate or the Amateur Radio operator's Advanced Certificate are deemed by
regulation to hold the Basic, Morse Code (12 WPM) and Advanced levels of
qualification.

This allows phone (A3,F3) operation on all Amateur bands (except 10.1-10.150 MHz) with a maximum of 1 kW DC input. Holders of the Amateur Digital radio operator's Certificate are deemed by regulation to hold the Basic and Advanced qualification which allows operation on all frequencies above 30 MHz with a maximum 1 kW DC input. More information is contained in DOC RIC 24, Issue 2.

CARF suggests the following voluntary band plan, which is in current use, be used by all Canadian Amateurs. This is to avoid needless interference and annoyance to US Amateurs and to users of the many modes of communication other than phone (A3,F3).

Good luck and let's not overmodulate.

	10	12	5	8	30 20	40	80	BAND 160
29.300 - 29.510	24.930 - 24.990 28.000 - 28.200	21.149 - 21.151 21.100 - 21.450 24.890 - 24.930	18.110 - 18.168 21.000 - 21.100	14.100 14.101 - 14.350 18.068 - 18.110	7.150 - 7.300 10.100 - 10.150 14.000 - 14.095 14.095 - 14.099	7.000 - 7.050 7.050 - 7.100 7.100 - 7.150	1.840 - 2.000 3.500 - 3.725 3.725 - 4.000	FREQUENCY 1.800 - 1.840
Phone Satellite downlink (no transmissions here) Phone, FM phone, and repeaters	Phone CW (RTTY 28.070 - 28.150)	Beacons - do not transmit here Phone (SSTV 21.330 - 21.350) CW (RTTY 24.920 - 24.930)	Phone CW (RTTY 21.070 - 21.100)	Beacons - do not transmit here Phone (SSTV 14.225 - 14.235) CW (RTTY 18.100 - 18.110)	Phone (SSTV 7.170 - 7.180) CW (RTTY 10.140 - 10.150) CW (RTTY 14.070 - 14.095) Packet	CW, Phone (RTTY 7.070 - 7.080) CW (the US novice CW lies here)	Phone CW (RTTY 3.600 - 3.645) Phone (SSTV 3.840 - 3.850)	MODES CW (RTTY 1.830 - 1.840)

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 (special arrangements are often made for the December meeting as well), in the Nash Auditorium, Chedoke Hospital. Non-members & friends are welcome - coffee and donuts on the house

EXECUTIVE:

Meets at 1930 on the fourth Wednesday of the month, except June & July, in the Radio Room, Red Cross, 400 King Street East.

STATION

An emergency radio station is maintained in the RED CROSS, HAMILTON BRANCH (400 King East).

MEMBERSHIP:

\$25.00 per year with a common renewal date of September 1. Included is subscription to the club bulletin. Additional Family Memberships (no bulletin) \$1.

EDUCATION:

Informal meetings may be held in the Radio Room, Red Cross Building 400 King St East to help those who want to take their Amateur Licencing tests. Call Bernie, VE3EKY, 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.

HARC operates a multi-station site during Field- Day. Contact chairman Cliff Tooher for information. His number can be found on the front page.

SWAP-NET:

Every Tuesday at 8.00 pm on VE3NCF (146.76/16) except during July & August. Contact Keith, VE3DKJ if you have items to buy or sell. Swap Shop listings are also available on the club's packet bulletin board station VE3DC operated by VE3JSJ on 145.590 FM.

FLEA-MARKET:

Held during September each year at the Ancaster Fair Grounds. The date this year is 15 September. Note that the flea market will be both indoor and outdoor.

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).

13th ANNUAL

LONDON AMATEUR RADIO CLUB INC.



FLEA MARKET

SUNDAY, OCTOBER 14th, 1990 HAMILTON AND GORE ROADS POT O'GOLD BINGO PALACE

ADMISSION ONLY \$4.00

LONDON, ONTARIO

(14 YEARS AND UNDER FREE)

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

(Vendors from 8:00 a.m. — Tables \$5.00)

TALK-IN: **VE3LON** 147.66/147.06



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