



# The Hamilton Amateur

The Hamilton Amateur Radio Club Newsletter – 78 Years of Amateur Radio 1932 - 2010

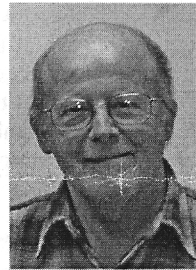
Hamilton Amateur Radio Club,  
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Est. 1932 Inc. 1956  
<http://www.hamiltonarc.ca/>

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## President's Message

by David Bruton  
VE3DWJ



For those who missed the October meeting the following happened. The check-in net has been moved to Sunday evenings at 7:30 P.M. (1930 hrs local) followed by the swap net. Please listen in and let other members know about the change. Members of the executive will be listening on the net for ideas from members to make the club more exciting for members and guests. The executive announced the tickets for the Christmas party were selling well. The party is on Saturday November 20th at the the R.H.L.I. Veterans Association, Unit 57 Canadian Corps 1353 Barton St. E. a few doors east of Kenilworth Ave. There will be a social hour before the 7:00 P.M. buffet. No December meeting is planned for this year. For those members who have not paid membership dues you will not be receiving the news letter soon.

Attendance was conducted by the circulation of the sign-in sheet.

Visitors were introduced and welcomed Dave Hoare, VE3FQJ, and Mike Panopoulos VE3DXF.

Approval of minutes from last meeting.

The minutes of the last meeting as published in the newsletter, were approved with one correction; the call signs of silent key, George Olynick should be changed to VE3BVG and VA3GO. moved by Mike Christmas VE3XMS, seconded by Lorraine MacPherson VA3NZ.

A discussion was initiated by Tom Van Wart VA3TVW, asking members for their decision on the primary meal choice for Nov 20th 2010 Christmas Party. The majority vote was Turkey.

Some information was given to the members about the party details by Tom VA3TVW & Mark VE3RYI ie. to be held at the R.H.L.I. Veterans' Association, Unit 57 Canadian Corps 1353 Barton St. East, a few doors east of Kenilworth Ave.

Dinner dance is open to all friends & family members not just club members.

Wheelchair accessible, ample parking, cash bar, 6pm social, dinner time buffet 7pm, dance to follow. All tickets should be spoken for by November 10th. \$30.00 per person. Contact Tom VA3TVW or Mark VE3RYI for tickets.

## HARC Minutes for October 20 2010

recorded by Secretary  
Jim Sawadski VE3EEZ



Call to order, Dave Bruton VE3DWJ presiding.

Club meetings – 3rd Wednesday each month – 7:30 pm (except July and August) at Hamilton District Christian High School, 92 Glanaster Road, Ancaster, L9G 3K9, corner of Rymal Road (Hwy. #53) and Glanaster Road. Parking on location. Complimentary refreshments.

Email Tom at [ve3twv@hamiltonarc.ca](mailto:ve3twv@hamiltonarc.ca)  
or Mark at [ve3ryi@hamiltonarc.ca](mailto:ve3ryi@hamiltonarc.ca)

Map and all the details on the HARC Home Page [www.hamiltonarc.ca](http://www.hamiltonarc.ca)

A members list was distributed by Mark VE3RYI to enable volunteers, to contact members as a reminder of the Christmas Party for early confirmation of number.

Fred VE3GCP submitted the year-end Treasurer's report current to Oct 20 2010, as he commented on another successful Flea Market that was run on Saturday Oct 16 2010, generating approximately \$1500. profit which was in line with previous years' activity.

Approximately \$534.00 was generated at the HARC flea market table with majority of that being goods donated from Gord Barber's estate VE3AAH.

Fred VE3GCP asked the membership for a volunteer to join him at the York Flea Market Nov 6, 2010, to continue the sale of items left over as Mardy VE3QEE is unable to attend.

Mardy VE3QEE commented on the success of the flea market and the energy of the club volunteers who participated in various capacities to make the flea market as successful as it was. Mardy reminded the members that the next two years has been spoken for at the fairgrounds and the dates are Oct 15, 2011 and Oct 13, 2012.

John Kassey VE3FDK volunteered to notify RAC, ONTARS, OSS, and various clubs to make sure that our date of future flea markets are well known and publicized for the purpose of not having more than one flea market on those dates.

Adam VE3BAU volunteered to notify the Ancaster Agricultural Society to make sure that our event gets put on their calendar.

New business.

50 / 50 Draw will take place at the general meetings 50 % going to the winner and 50% going to the club.

Winner this week, J Kassey with a personal windfall of \$18.00.

Lorraine VA3NZ notified members that on Nov 5th a "mock" Emergency will be initiated at City Hall. Stations VE3RFI & VE3 TVI will be used and all persons wishing to take part by checking in should do so to show support for that effort.

A discussion was brought about by Mark VE3RYI about moving the Tuesday night Net to Sundays at 7:30 pm. Motion to accept by Lorraine VA3NZ seconded by Mike Christmas VE3XMS. The members agreed to give it a try and see if there is more Net participation.

Discussion led by Mark VE3RYI about the need for the club to initiate activities that perhaps newer members can experience. Mark was calling on all members to give ideas ie. Fox Hunt, set up at Festival of Friends, Volunteer. The executives are looking for ideas anyone may have to enhance interest in the club.

Tom VA3TVW and Mark VE3RYI informed members of their experience working with Girl Guides "On The Air" recently, a pleasant experience and urged members to get involved.

Tom VA3TVW informed the members present that a new club general meeting place is being sought by the executive members to re-locate the meeting place more central to Hamilton, where bus service is available and where the prospect of enticing younger hams would be more productive ie. schools, community complex, library etc. Mardy VE3QEE said the present location is paid up until the end of this year.

Health & Welfare  
Mary VE3OGQ reported Silent Key Albert Bakyta VE3BHK Aug 20 2010, a sympathy card was sent to the funeral home, to his wife Mary. Albert was once a CHCH TV Technician as per J Kassey VE3FDK.

Mike Krebbs VE3WXS was sent a get well card to his mother's residence. Mike is staying at the Oakville

## HARC 2009-2010 Executive

### President

David Bruton VE3DWJ  
905-383-9808  
<[ve3dwj@hamiltonarc.ca](mailto:ve3dwj@hamiltonarc.ca)>

### Past President

Mike Krebs VA3WXS  
905-523-9005  
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### First Vice President

Tom VanWort, VA3TVW  
905 308 7538  
<[va3twv@hamiltonarc.ca](mailto:va3twv@hamiltonarc.ca)>

### Second Vice President

Mike Christmas, VE3XMS  
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<[ve3xms@hamiltonarc.ca](mailto:ve3xms@hamiltonarc.ca)>

### Secretary

Jim Sawadski, VE3EEZ  
905 664 3198  
<[ve3eez@hamiltonarc.ca](mailto:ve3eez@hamiltonarc.ca)>

### Treasurer

Mark Proctor, VE3RYI  
<[ve3ryi@hamiltonarc.ca](mailto:ve3ryi@hamiltonarc.ca)>

### Director

Mardy Eedson VE3QEE  
905-648-0187  
<[ve3qee@hamiltonarc.ca](mailto:ve3qee@hamiltonarc.ca)>

Trafalgar hospital until mid week Oct 26 2010. Mike suffered an upper level stroke and is working on his return home.

Membership  
Sherry VE3DCU reported paid memberships at 62 with 53 primary members. On track with previous years.

Education  
Mardy VE3QEE reported a possible Advanced Class to start up in January 2011 with a few students ready to upgrade their licence. Mardy is looking for assistance with the teaching duties and has a possible

acceptance from visitor David Hoare VE3FQJ who recently moved to the Beamsville area.

There are presently no Basic classes in the schedule. Once again Mardy is looking to the membership to assist with the education.

#### Contest

Rick VE3BK presented awards to the contest group for their participation in the 2010 Ontario QSO Party contest.

Rick announced the upcoming 48 hr World Wide CQ Contest beginning Oct 30 2010.

Rick announced a contest for a new QSL card for 2011 as the old card is dated and new cards are needed. Rick called on all members to get creative and design something new for the club cards. Prize will be awarded to the winning design to be voted on sometime in January 2011

EQSL "Lifetime Membership" was discussed for the club to upgrade from "Silver" as opposed to paying a yearly fee. This was agreed to by the members.

Refreshment Break – 20:42 – 21:00

#### Treasures Report

Fred VE3GCP announce his final transactions and meeting with Mark VE3RYI a few weeks ago. Fred briefly outlined the clubs financial standings as of 10/20/2010 while Mark is getting organized in his new role.

#### Repeater

John VE3DVV reported that testing is ongoing and that a faulty pass transistor in the power supply found with assistance of Mark Gibson VE3MWH on the UHF station. The 40 watt machine was found putting out over 60 watts. John is working on getting that unit back in operation. John is requesting any members who are using the 2 meter station to note the time that any flaws appear on the VE3NCF 2 meter unit so that they may be investigated. A discussion regarding the old 2 meter station ensued with John stating that the old machine would not be able to support Auto Patch, which was a

request from the members. A longer "Time out" code can be made available for those members in need of an extended conversation via the repeater "Phone patch". Contact John for those details. Presently set for approximately 3 minutes.

#### Adjournment

Dave Bruton VE3DWJ adjourned the meeting at 20:25.

## Amateur Radio Operators Provide Communications Support During Chilean Mine Rescue

*The following news was reported in the ARRL weekly e-mail bulletin to members.*

10/14/2010

As the last of the 33 miners who were trapped 2300 feet deep inside (and 3 miles from the mine entrance) the San José Mine -- located about 27 miles from the Chilean town of Copiapó in the Atacama Desert -- rose to the surface at 0055 UTC on October 14, the world cheered in unison. The miners, who were underground for 69 days -- the longest time ever for miners to be trapped and survive -- all emerged relatively healthy.

According to the Radio Club de Chile (RCCH) -- that country's IARU Member-Society -- amateurs with the Radio Club Copiapó, CEI CPI, provided communication support between the authorities and emergency equipment operators inside the San Jose Mine complex, as well as with family of the trapped miners in the complex and authorities in Copiapó. "There are no other means of communication at the scene," said Radio Club Copiapó President Jose Maldonado Lazo, CEIRXY. "The group is working in the area of the mine with three phones, while amateurs in Copiapó "are covering all the needs of SENCO [a construction company],

### HARC 2010-2011 Chairs

Awards Chairman  
Casey VanBroekhoven VE3CVP  
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Contesting Manager/Property  
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Hamfest. Coordinator  
Mardy Eedson  
<ve3qee@hamiltonarc.ca>

Volunteer Examiners  
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Roger Pimm, VE3UFZ, 905-560-2628  
<ve3ufz@hamiltonarc.ca>

Field Day Co-ordinator  
Dan Martinak VA3DJ  
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<va3dj@hamiltonarc.ca>

Repeater Chairman  
John Vandenberg VE3DVV  
905-692-3802  
<ve3dvv@hamiltonarc.ca>

Health & Welfare Chairperson  
Mary Urbanski VE3OGQ  
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Membership Chair Sherry Goeller  
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Communication  
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Web Master  
Anita Thomas VA3ANI,  
<va3ani@hamiltonarc.ca> and  
Emsley Mitchell VE3JAI / VA3QI  
<ve3jai@hamiltonarc.ca>

a report by treasurer, Mark Proctor VE3RYI



# H.A.R.C

## Month End Report Financial Statement

Carry over from Sept 30

**\$ 1,547.96**

	Withdraws	Deposits	
Xmas Party	\$ 285.50		\$ 1,552.91
COMM PLUS FEE	\$ 4.95		\$ 1,547.96
Hamfest	\$ 1,017.00		\$ 530.96
Hamfest		\$ 94.00	\$ 624.96
Hamfest		\$ 16.00	\$ 640.96
BELL CANADA	\$ 24.29		\$ 616.67
Hamfest		\$ 16.00	\$ 632.67
TELLER ERROR		\$ 100.00	\$ 732.67
Hamfest		\$ 50.00	\$ 782.67
Memberships		\$ 25.00	\$ 807.67
GIC #1 accounts		\$ 1,000.00	\$ 1,807.67
Hamfest	\$ 68.36		\$ 1,739.31
Bulletins	\$ 174.19		\$ 1,565.12
Memberships		\$ 25.00	\$ 1,590.12
Hamfest		\$ 534.00	\$ 2,124.12
2010 Hamfest		\$ 2,647.50	\$ 4,771.62
Hamfest	\$ 630.00		\$ 4,141.62
Memberships		\$ 907.00	\$ 5,048.62
COMM PLUS FEE	\$ 4.95		\$ 5,043.67

\$ 5,043.67

\$ 3,000.00

**\$ 8,043.67**

GIC. Accounts

CLOSING BANK BALANCE

Report done, Oct 31 2010

All Deposit slips, Back statements and account books have been compared and all monies accounted for.

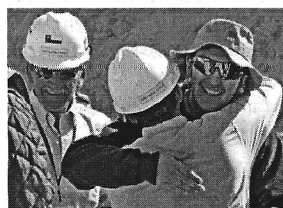
**Treasurer** Mark Proctor,  
VE3RYI

SAMU [ambulance and EMT], the Interior Administration and the fire and police departments. We do this gladly and hope that this has a happy ending."

According to Erico José Andrade, CE2EPB, Radio Club Copiapó has a lot of equipment, enabling the club to cover almost all of the Atacama Region: "This helped effectively from the outset after the accident, because the mine complex where the emergency occurred did not have contact with ordinary phones that could coordinate the rescue effort in the shortest time possible."

Some of the 80 members of Radio Club Copiapó installed amateur

equipment in the mine complex, and volunteers from the club have, from the moment the mine collapse first occurred on August 5, have taken shifts to provide communication support. "This, together with additional mobile police stations, hospitals and fire battalions, kept everyone abreast of all the needs and urgent requirements," Andrade explained. -rescued miner – news photo from the web.



## Important Points

### Executive Meetings

HARC Executive committee meets each month, except July and August. Members are invited to attend. The meetings are on the Wednesday following the club General Meeting each month. Ask an executive member for the location.

### VE3NCF 146.760 - & 444.075 + using tone 131.8

HARC operates VE3NCF repeater, located atop the Niagara Escarpment. It's open for use by all Amateurs. Special features are a privilege of membership.

### Nets

HARC "check-in net" is held every Tuesday evening at 7:30 p.m. HARC "swap net" follows at 8 p.m. All contacts are welcome.

### Examinations

Amateur radio license examinations are conducted the second Wednesday of each month, except July and August. Contact the voluntary examiners to make an appointment. There will be a fee for each examination.

### Membership Information

Club membership, including all privileges, is \$25 per person, per year, Sept 1 to Aug 31. Additional membership, for immediate family living in the same home, is \$1 per person. One newsletter sent to each address.

### The Hamilton Amateur

The Hamilton Amateur is published ten times each year (not in July or August). Deadline for article submission is the last Saturday of the month for the next month's issue. Preferred format is .txt file. Articles will be checked for spelling and grammar, but the author is responsible for factual content. E-mail submissions to Editor, Mardy Eedson, VE3QEE, <ve3qee@hamiltonarc.ca>

Then and Now. Thanks to Mark VE3RYI for sending this item. I was doing some reading in a 1992 issue of The Canadian Amateur magazine and came across this on THE FAMILY PAGE.



Bernard Granby VE3EKY writes that the Hamilton ARC has just completed its second class under the restructured Radio Act, and is about to embark on a third. To date, 50 students have taken the course, 41 are now licensed. The pass rate for the first class, January 91, was 97%. Our motto is: "If you don't give up, we won't".

Here are four of the people who passed recently: Left to right: Kelvin Mangaroo VE3KSN, Yohan Calpu VE3YOH, Surujdae (Sue) Calpu VE3KSC, and Odile Mangaroo VE3OCM. Kelvin's father is Ken VE3NCM.

The Canadian Amateur Radio Magazine - April 1992 9

## New DXCC Countries Announced.

*This article appeared in the ARRL e-mail bulletin for 7th Oct. 2010*

On Sunday, October 10, five islands in the Caribbean are all changing their governmental status at the same time: Saba, St Eustatius, Bonaire, St Maarten and Curacao. Known collectively as the Netherlands Antilles, these islands have up to now been an autonomous part of the Kingdom of the Netherlands. Some will remain within the Netherlands as "special municipalities" and some will become independent nations within the Kingdom of the Netherlands, just as the island nation of Aruba did back in 1986. What this means for the HF bands is a lot of interference as the new DXCC entities are born: Two DXCC entities (the island pair of Bonaire & Curacao and the three-island group of St Maarten, Saba and St Eustatius) will be deleted from the DXCC list of active entities and be replaced by up to five new entities!

If you use software to log contests watch for updates to the DXCC list.

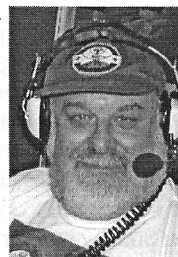
## Contest Corner

*Chairman Rick Danby VE3BK reporting results of: the 2010 CQWW DX Contest*

Dan VA3DJ and myself (Rick VE3BK) went out to our contest site on

Friday afternoon October 29<sup>th</sup> to setup our radios for a M2 operation. Dan was setting up the main station and I set up the secondary radio. In the multi-two category we are allowed 2 radios as long as they are not on the same band at the same time. We were joined by Mike VA3FS after supper time and ready to be on the air for 8pm.

We were on the air on time and had fun trying to find a spot to operate as a calling station. Dan had no trouble as he banged off the contacts on 80m left and right. Mike gave us both a break until he left later that evening. Dan decided to go home at 2am and just as I was still getting ready to pack it in for some sleep I heard a knock at the door. It was Mike VE3ATX about 2:30am. I got him started on 40m (it was hopping) and went to bed. Seemed like I just got there and Murphy struck with a



oments later the lights came back on. When Mike awakened me I had to show him how to bring the contest program back up on the computer network so both computers would log his calling. Back to bed for me but not for long, the same scenario happened again, twice while I was there to witness it. We thought it was in the transformer outside on the hydro pole. Mike went out with a big flashlight to look. Couldn't see anything, power was back so on the air he goes, Rick goes back to bed. I wake up again around 5am and there is a light shining into the room I am sleeping in, no Mike and no other lights, everything dead on one side of the shack. Mike had left me a note saying the power was out again and wasn't coming back on. I was worried about losing all the information in the log because of the repeated power failures so I used an extension cord to bring up the computer where Mike had been operating. No video, oh no, hope we can bring it back because the computer at the other station did not log all the contacts that Mike had worked. I tried twice to get the computer working but it came up with no video both times, so I shut it down and took the flashlight to see if I could see anything on the outside transformer. Couldn't see anything, back to the computer, it came up this

time and I was able to merge the logs. Whew, one problem solved. I resolved to call the Hydro company in the morning, and went back to bed....not sure of the time.

Sleep at last, just started to dream when a knock came at the door.....it was Mardy, gung-ho to setup his Flex Radio, early on Saturday morning. We got out the extension cord to bring power to the dead side of the shack. No amps could be used this time, because we had only 120 volts available and our amps are wired for 240 volts but that's OK, because we can still work many stations with 100 watts, especially with the good filtering on the Flex Radio. Since it was daylight I decided to go check out the hydro at the main box with Mardy's help. Everything was OK outside. We looked in the trailer panel next. Here I noticed a loose screw on the main breaker and the breaker was showing signs of running hot. When we looked closely we discovered the breaker itself had blown. There would be no need to call the Hydro company after all. I installed a spare breaker to get us running and made sure the connections were tight. Everything came back on with no problems, we had power. All computers and both amplifiers were back up and running.

The Saturday's activities are a little foggy to me as I was going with about an hour's sleep, but Andy VE3RIA, Scott VE3QU, Sherry VE3DCU brought Tim Bits and coffee and also John VE3DVV showed up a little later. Mike VA3FS showed up sometime on Saturday too, not sure what time and later Tom VA3TVW, Mark VE3RYI and Mike VE3ATX came back. Mardy got his Flex Radio working good and Sherry logged for him and I know that Mike VA3FS was impressed by it.

Early Sunday morning, everyone had gone home and it was just Scott and I operating on 40m working all kinds of DX and multipliers. We had a visit by an Engineer from CHCH TV who was on his way home and noticed cars parked at the site. Past history at our Club shows that quite a few of the Engineers from the TV station

have been hams that belonged to the Hamilton Amateur Radio Club. He had toyed with becoming a ham in the 60's and his son did become a ham. Scott and I had a good visit with David the engineer. On Sunday, his son Bill VE6VWJ (back from Calgary for about 6 months) came over and met with Mardy, Scott and I.

Scott and I had a great time working DX in the wee hours but by 5:30 or was it 6:30am, we decided we better get some sleep. Knock knock at the door.....it was Mike at ten minutes to 7 (am) with MacDonald's breakfast for us and coffee. Thanks for the breakfast Mike. I ate mine and went right back to sleep.....whoops up again.....Mike VA3FS wants to change radios or antennas or something. I had put him on 40m (our bread and butter band for Sunday mornings where we work many US stations to get the numbers) a very important band to be on for the US operators on Sunday morning (pileup time), but Mike was thinking that he wanted to be on 20m and working all the good DX like he had the night before. Sorry Mike, the bands are only open at certain times and we need to work as many of the US stations as we can on Sunday mornings after daybreak when the gray line disappears. The Americans always give us many contacts (even single operators that are not participating in the contest) but recognize VE3DC from previous years. This is why we do 40m on Sunday mornings, this is great public relations for our club.

Finally getting some sleep, I woke up about 2-3 hours later, Mike VA3FS had left and Scott and I were just waking up, no-one was left working on the radios. It wasn't long before someone was there.....not sure but I think it was Mardy VE3QEE. John VE3DVV also came to help. At some point Mike VA3FS came back too and helped us increase our log. Dan VA3DJ came back to help us finish the contest, calling CQ and racking up the points to help us get a bigger score than last year. Not sure who else was there on Sunday as I was running on little sleep hi hi. Hope I didn't leave anyone out. This reminds

me of Field Day, where we go with little sleep as well. We finally began packing up a little early to get out of the shack by 8:30pm. The contest ends at 8pm a total of 48 hours which is a long haul. The contest was a lot of fun but afterwards it felt good to be getting back home.

Another great effort by everyone that participated. I want to thank everyone that made it successful and fun for all. Thanks to everyone that worked us.....many members from the club gave us contacts from home, as well as numerous US stations and the fantastic DX. Great contest for those that like working all those rare contacts.

Here are the results:

Operators: VE3ATX; VE3BK;  
VE3DCU; VE3DVV; VA3DJ; VA3FS;  
VE3QEE; VE3QU; VE3RIA; VE3RYI;  
VA3TVW.

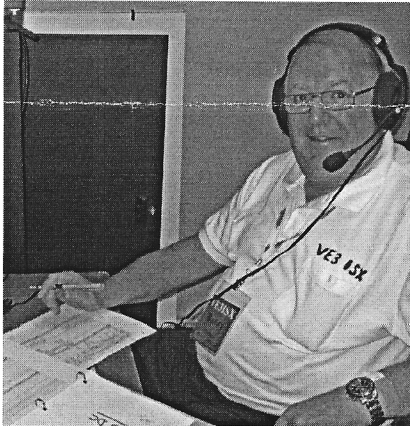
Class: M/2 HP Assisted (two radios using amplifiers)

Band	QSOs	points	Zones	Countries
160m:	61	114	6	7
80m:	524	1013	12	17
40m:	430	852	16	29
20m:	457	1142	14	47
15m:	238	553	19	42
10m:	38	108	6	13
Totals:	1748	QSOs		
	3782	points		
	228	multipliers		
	862296	claimed score		

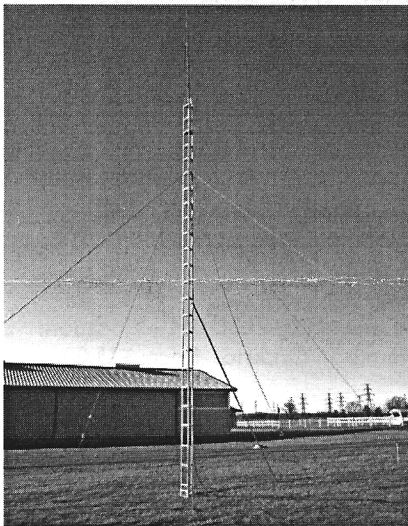
Band conditions were great. We did better than last year logging 300 QSOs more. We all had fun working DX as usual and many wanted to know where that unusual callsign was located. The map on the wall helped. Murphy struck with power going up and down on us but it didn't put a damper on the operations. One of the beams was stuck in one direction, but the op using it said we had a direct line into South Africa on 15m. Thanks to all that worked us and those that put us on the DX Cluster....see you next time.  
73 Rick VE3BK

# Harbour Boat Cruise

You may want to bring your cheque book to the Christmas party where organizers will be conducting a silent auction for a harbour boat cruise for four people valued at \$150. Cruise goes to the highest bidder. Proceeds accrue to the Club. The cruise has been generously donated by Laurel and Murray Thompson.

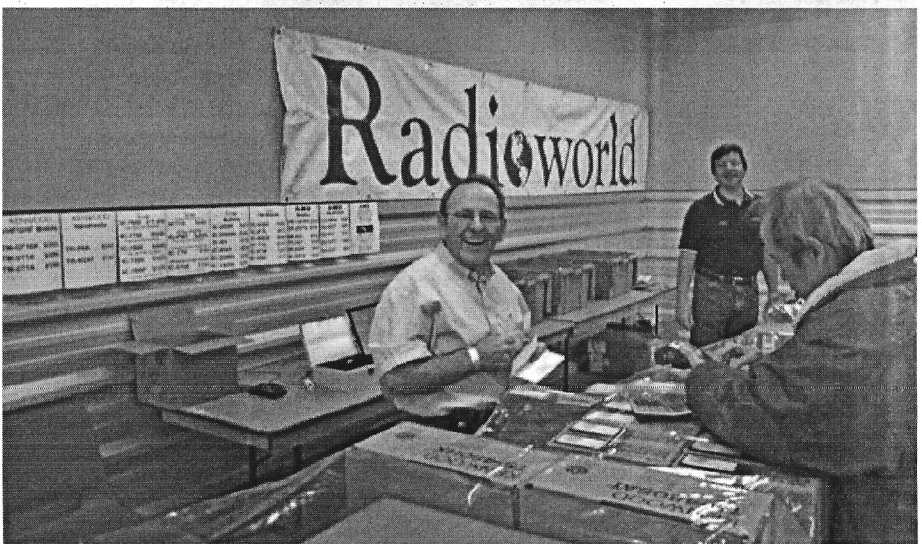
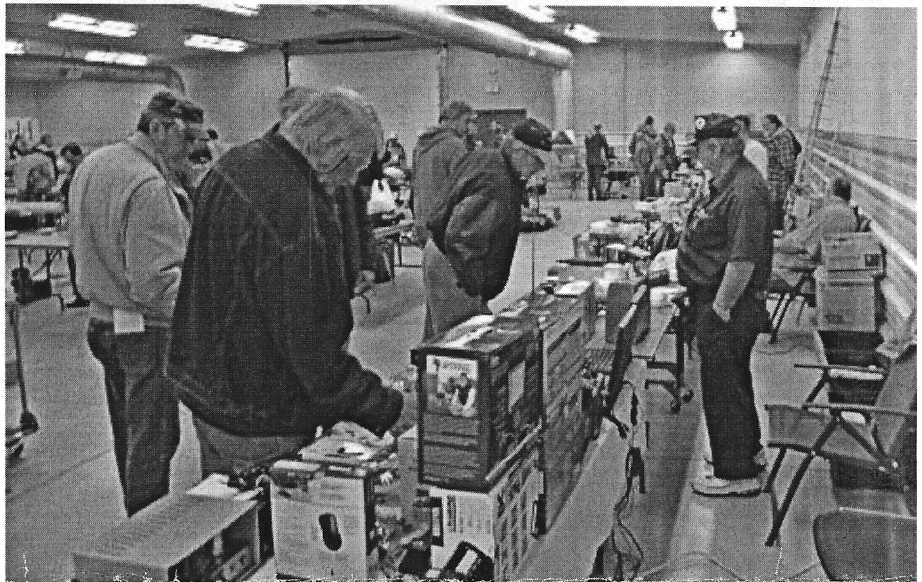


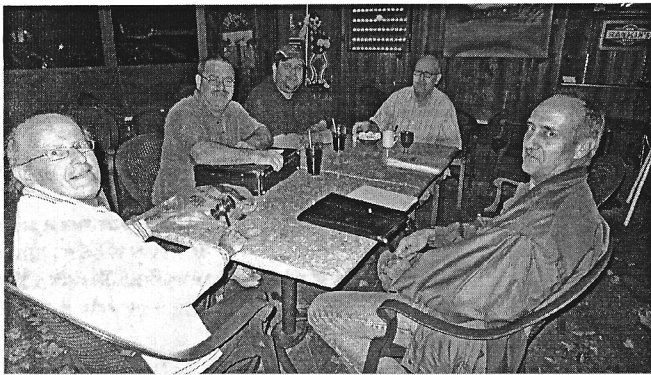
Barry VE3ISX was ONTARS net control at the hamfest aided by an 80 meter dipole up 50 feet.



# HARC Hamfest 2010

Pictures from the HARC Hamfest courtesy of Barry Lisoweski, VE3ISX  
For more pics. see ONTARS web pages at: <http://www.ontars.net/>





Your executive at work. L to R David VE3DWJ, Mark VE3RYI, Tom VE3TVW, Mike VE3XMS, Jim VE3EEZ, (and Mardy taking the picture.)



Rick tuning the amplifier for Mike VE3XMS



Scott VE3QU and Rick VE3BK talk to visitor Bill VE6VW on Sunday at the CQWWSSB



T to B John VE3DVV, Rick VE3BK, and Sherry VE3DCU, getting Writelog up on the Flex radio.

CQWWSSB ops.  
F to B John VE3DVV, Scott VE3QU, Sherry VE3DCU Mike VE3XMS, Rick VE3BK in the back room.

Ad# 123  
Dual Band antenna (10/31/10) -- Workman Model UVS-200 Dual Band Amateur Base Antenna, 1 year old with very little use. ... Submitted by VE3DGH -- Location: Hamilton/Ontario Price: \$25.00

Ad# 124  
Cable (10/31/10) -- 50 Ft. of RG8X 95% used cable. 1 year old and very little use. Complete with original ends. ... Submitted by VE3DGH -- Location: Hamilton/ Price: \$20.00

Ad# 125  
Pyramid Power Supply (10/31/10) -- Regulated power supply. Model: APS-14KX. 1 year old, very little useage. Submitted by VE3DGH -- Location: Hamilton/ Price: \$30.00

## Swapnet Listings

*These are the current listings at time of printing. Contact information can be found using the Swapnet button on the web page at: <hamiltonarc.ca> If you don't have access to the web, call one of the club executive members for help getting the information you need.*

Ad# 121  
Delhi Tower 48 ft (10/17/10) -- 48 ft Delhi tower medium duty. Bottom two sections never used. Slight surface rust on top 4 sections.

Complete with 3 cement stubs and all new bolts and nuts. Now on the ground ...

Submitted by: VE3HTS -- Location: Hamilton/Ontario Price: \$125.00

Ad# 122  
Hygain 6el. Thunderbird (10/17/10) -- 6 element, three band (10,15,20) Bought used but never used myself. Partially assembled and marked for easy assembly ... Submitted by VE3DGH -- Location: Hamilton/Ontario Price: \$125.00