

NOT A LOAFER'S CLUB

We started the year with a bang. Right after the Island-On-The-Air expedition on the Ottawa River, we've participated in an International Space Station contact. That was in January.

In February, we've heard many mobiles reporting into the weekend nets. Amateurs had signed up for the Satellite Communications Course provided at VE3JW and many have graduated. Several Amateurs have tried out different gear and have built experimental antennas. Some have been pedestrian mobile in the thick of the freeze up. Amateur Radio in the Park was the fun thing to try during winter. At Home Brew Night we saw many original projects, electronic units, home made antennas, superior in quantity and diversity ever seen at the Club.

Then at the thaw, the Ontario QSO Party using the Emergency Preparedness Communications Trailer and followed by Amateur Radio on rail from a 100 year old railroad car. I can't list them all, but there were many activities. Here are some more activities OVMRC members have been active in during the month of May.

OVMRC 2 METER SIMPLEX CONTEST

On May 5, VE3JW was acting as a Club Station for the OVMRC 2m Simplex Contest. We received many calls since the contact was worth 5 points for participants. We knew that the second Club Station was a Rambler, (roamer, rover, whatever term you may choose) and difficult to pin down. So we decided to operate two radios on the simplex frequencies to give a better chance to all participants to make the contact.

We had the 14-element beam pointing to the West for those far away wards, and the vertical Anli for the wards in the East. The farthest contact we managed was in ward 23, Kanata, about 25 kilometers. We do not have the totals for all participants, Alan will sort that out, but Paul, VE3CPH, had gathered quite a count and is in line for possibly first place in the mobile category. If you missed it, you can start preparing your equipment for next year, whether mobile or fixed, and join in the fun.



Nortel Tour communications set-up at the 70K turn-around.

Photo courtesy: Maurice-André Vigneault, VE3VIG

NORTEL TOUR

On May 6, more than 20 Radio Amateurs from the region joined in to help make a success of the 2007 Nortel Tour, a yearly event put on by Nortel to help CHEO. As a volunteer participant contributing to the communications facilities on the Tour, I found that it was well organized and well conducted.

At Radio Net Control we had Bob, VA3QV. I was affected to Control Point #2 along with Paul, VE3CPH. We each had our mobile set-up, Paul reporting to Net Control through the 146.880 MHz repeater and myself monitoring the simplex frequency on 146.580 MHz. Paul was using his 5/8 wave mobile antenna, doing a good job into the repeater.

I was using a 4-element VHF beam mounted on a pole through the sunroof of my vehicle. This allowed me to copy all the Control Points dispersed along the route, all the way to Dunrobin and Baskin's Beach, even though I was at a 20db disadvantage by having set the beam in the horizontal plane.

I got to my post a little late and I reported to Net Control explaining that I was the victim of a slight medical incident. After the Tour, one concerned, charitable soul inquired about my medical incident. I replied that I had suffered from a "sleep disorder".... enough said, hi. (actually, my biological clock was running on Hawaiian time...)

At CP2, we only looked on bikers in the 30 and 70 kilometers runs. Things ran along smoothly, I only had to report to Net Control on their hourly checkups. We talked to bikers as they were awaiting the green light at our CP2 and only one incident was reported to Net Control.

An elderly biker returning from the 70K run fell off his bike. I quickly moved to help and offered him to rest in my vehicle while awaiting transport back to the start line. He declined preferring to lie down on the sidewalk for a short moment to overcome a cramp in one leg. He said he was in good shape, having prepared sufficiently before the run and having done it before. He got up, shook his leg, mounted his bike and went on his way towards the finish line. We advised Net Control of the incident and asked that CP1 up the road be on the look out for his jersey number and advise us when he reached them.

So far, I have not heard much from the other OVMRC participants, nothing drastic to report, all was smooth as per Steve, VE3SBC at CP4. Doug, VE3DLJ, and Matthew, VA3MHB, were up towards the far end at CP5, monitoring the 70k part of the run. Ken, VE3SRS, was at the entrance of the tour. I imagine that was the busiest Check Point followed by CP7 at the turn-around point for the 70K.

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OVMRC Executive 2006-2007

President	VACANT
Vice-President	Jean Crepeau VA3JCN 613-
Treasurer	Robert Plante VA3SHO 613-
Secretary	Jacques Choquette VE3TSC

Standing Committee Chairpersons

Amateur Radio Exhibit
[Maurice-André Vigneault](#)
VE3VIG, 613-749-9010

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VE3ZQN

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VE3SBC

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Webmaster
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VE3EKZ

*Note: all e-mail addresses are:
[callsign at rac dot ca](mailto:callsign@rac.ca)*

Sponsors

The OVMRC acknowledges the following organizations for their support of our activities:

- **Acceptable Storage**, Ottawa, ON
- **Bytown Marine**, Ottawa, ON
- **Elkel Ltee.**, Trois-Rivières, QC
- **Kenwood Electronics Canada Inc.**, Mississauga, ON
- **Ottawa Camping Trailers Ltd.**, Ottawa, ON
- **Travel-Mor Trailer Sales**, Ottawa, ON

The *Rambler* is produced using **Corel's Ventura™ 8** software.

The club's web site is hosted by **Magma Communications Ltd.**

www.ovmrc.on.ca

OVMRC Life Members

Maurice-André Vigneault, VE3VIG

Ralph Cameron, VE3BBM

Doug Carswell, VE3ATY

Doreen Morgan, VE3CGO

Ed Morgan, VE3GX

Bill Wilson, VE3NR

OVMRC Repeaters

147.300 MHz(+)

444.200 MHz(+)

Amateur Radio Exhibit

VE3JW

Web site:

<http://ve3jw.tripod.com>

Canada Science & Technology
Museum

The *Rambler* is the official newsletter of the Ottawa Valley Mobile Radio Club Inc. And is published 11 times a year (monthly, except for July). Opinions expressed in the *Rambler* are those of the authors and not necessarily those of the OVMRC Inc., it's officers or it's members. Permission is granted to republish the contents in whole or in part, providing the source is acknowledged. Commercial use of the contents is expressly prohibited. Submit articles to the editor or by e-mail to: va3wmh@rac.ca.

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All in all, it was a nice outing in perfect weather and all went well. Think about it for next year. It's a fun thing.

CARLETON STUDENTS RETURN TO VE3JW

On May 10, we were hosting, for the second time, students from the Computer Science Course at Carleton. Led by their professor, Michel Barbeau, VE2BPM, this new group was introduced to VE3JW, presented with the history of the station, its purpose, and its make up.

We then proceeded to make contacts in whatever mode was available at the time. Propagation was not good, so we had limited success on HF. The two-hour time span that the students spent with us did not present any opportunity for satellite contacts.

However, Larry, VE3WEH, who was assisting yours truly, (and taking photos) had good contacts via IRLP. A gentleman in Indianapolis entertained the students for a while talking about the special event station W9IMS (International Motor Speedway) which is at the Speedway. After the usual group photo, the students went on for lunch and to think about Amateur Radio. Till next year!

OVMRC SHOW AND TELL, MOBILES AND PORTABLES

On May 17, many of us gathered in the Museum's front parking lot for the annual Show and Tell Mobiles and Portables. I want to share a couple of pictures with you and talk about the fun I had putting my mobile on the list. For those who did not have a chance to read my list on the right side rear window here it is:

VA2MA MOBILE

All Modes: AM-FM-SSB-CW
 HF: Voice, Morse, Digital (PSK31, SSTV)
 VHF: Voice, Packet, APRS, Satellites
 UHF: Voice, SSTV, Satellites

RADIOS:

4 VHF - FT-100D, FT-90, TH-D7Ag, HTX202 (DF)

3 UHF - FT-100D, FT-90, TH-D7Ag

2 HF - FT-100D, TS-570D

Scanner 30 to 900+ MHz

ANTENNAS:

Mag Sticks - 10-20-40-80 (double for dipoles)

ATAS-120A - 40 to 440 MHz (Automatic tuning)



Carleton Computer Science Class.

Photo courtesy of: Maurice-André Vigneault, VE3VIG



VA2MA Mobile

Photos courtesy of Maurice-André Vigneault, VE3VIG

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Arrow 4-element beam for VHF
Diamond mobile vertical VHF-UHF
(supergain)

Dual band mini for APRS

Scanner - 30-900MHz with TX on 6m, 2m,
70cm

GPS antenna (Icom IC-22)

UHF 3-element handheld
Handi-Finder for DF

LAPTOP:

IBM ThinkPad for PSK31, SSTV, Sat tracking

POWER SUPPLIES:

Vehicle battery

2 Power Packs 7.5AH

Now, you might think, that's more than one shack. Indeed, when I was busted, at the apartment, (neighbours with brand new 50-inch flat panel HDTV) I had to forego all means of radio communications from there. That's when I decided I would set up mobile, something I always wanted to do, a mobile shack.

Acquiring the proper vehicle was first on the list and my Jeep dealer down the street had just the right item. One key selling appointment was the right passenger seat folding flat. I use it as a laptop table when operating from the front seat, and as a radio table when operating from the back seat. See pictures.

For the Show and Tell, I was glad to have the opening roof. This allowed me to dream up an impressive array of antennas, which can be put into place while parking somewhere. Using an extendable aluminium painter's pole held in position by bungee cords inside the cabin and resting in a cup holder, I mounted a 4-element VHF beam about 2 feet above the roof. Horizontally polarized, it is used for SSB operation, and for transmitter hunting (DF).

On the extended part, at about the 15-foot level, I used a dual HF mobile-stick mount accommodating two base-loaded whips forming a dipole. These are difficult to tune properly, but with patience and repeated adjustments you can get close enough. Immediately on top of this mount, I used an upright mount for a base-loaded whip in the vertical position.

The dipole has two functions. It can be used as a normal dipole for a given band (I have many sticks), and when I ground the active element of the dipole I now have two ground-base radials for the vertical antenna. In this latter configuration, I had a 20-minute contact with a station in Norway on SSB.

The FT-100D is the main radio and the faceplate is mounted in a recess in the centre console. It controls the ATAS-120A screw-driver antenna from Yeasu. I can easily connect this radio to any antenna mounted on the vehicle.

So far, what I have enjoyed the most is mobile CW contacts and mobile (stationary) PSK31. Thanks for awarding me first prize for my entry.

An interesting element of the Show and Tell was Jake's, VE2TQX, hand-made base-loaded antenna with a coil diameter of about 9 inches by 10 inches high. The picture shows Jake while he was working RTTY from his mobile. Jake took second prize in the category.

In the portable category, Ken, VE3SRS, showed a multi component vest, or rather several flexible-materiel containers hooked together forming a wearable kit containing radio, battery, first aid, and accessories. See Ken's portable in the picture. That brought him second prize. Steve, VE3SBC took home the first prize in this category with his portable FT-817 all-band, his homemade antenna tuner, a gel-cell and a long wire. You have seen his rig in last month's Rambler.

Wonder what we'll all dream up for next year?

BUNNY HUNT!

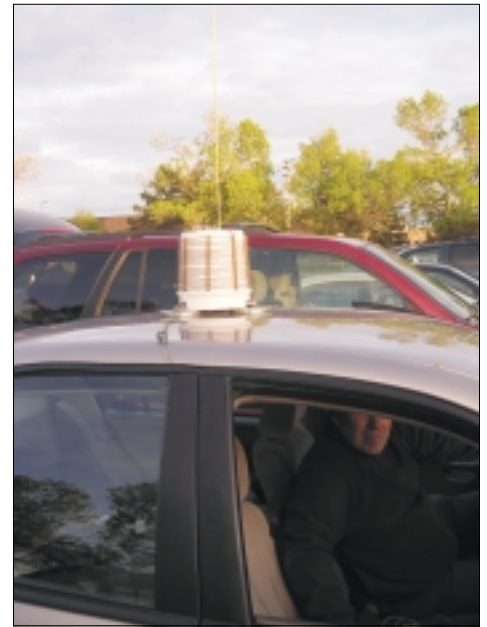
What a gorgeous day in May! Ideal for an outing with a purpose. On Saturday May 26, we were out for a transmitter hunt. Actually, I was surprised not to see all of the almost 2,000 Radio Amateurs in this area out for a ride and a hunt for the elusive bunny.

Well, not so elusive for some. Roy, VA3CKD only covered 14 kilometres to get First Prize. The bunny was hidden 12 kilometres away from the start point. A hand-held with a rubber ducky was all he required to home in, using his body to shield the signal.

Second to show up was Steve, VE3SBC, with his son Mike. He lost the use of his nice Ramsey Finder due to battery failure. He relied only on a scanner and strength of signal as detected by ... his ear.

Five vehicles in all, eight hunters, the rest of them were all loaded for bears. Make that 4 cars and one bicycle. Mike, VE3ZY, mounted his Ramsey detector on the handlebars of his bike. He got very close but no horseshoe. Larry, VE3WEH with Patrick, VA3CMD, and Matthew, VA3MHB, with his father, also got very close.

As for the last guy, hardly worth mentioning. He started with the others, although a bit



Jake Guertin's, VE2TQX, hand-made base-loaded antenna.

Photo courtesy of: Maurice-André Vigneault, VE3VIG



Ken Halcrow's, VE3SRS, multi component vest



Bunny Hunt winner Roy, VA3CKD

Photo Courtesy of: Larry Wilcox, VA3WEH



The Bunny Hunters.

Photo courtesy of: Larry Wilcox, VE3WEH

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late, after hurriedly attaching a cable to his 4-element beam sitting on a pole protruding from his sunroof. This guy was loaded, I mean overloaded. With equipment that is.

3 radios, 4 antennas, several maps, and a laptop to use APRS as a tracker. The butterfly antenna was to be used with the Handi-Finder, a TDOA (Time Difference Of Arrival) unit. His '7db-for-7bucks' 3-element Yagi was also left unused because he was sporting the Arrow 4-element on the roof, and it looked so nice, there is no possibility he could miss with it.

So, this was the only antenna he used. But, it was not working so well for results. Handicapped by the detection of a clue at the start of the hunt, he was doomed. Mark had told Mike that he would not have to go far with his bicycle. He also knew that the bunny signal was going to be very low power most of the times.

By the time he was ready, the high power signals at the beginning of the hunt had ended and he was left to chase for the low power signal. A run at the Experimental Farm produced nothing. A run on Riverside to Vanier Parkway produced nothing. Tracking back, a faint signal was heard at Vincent Massey Park, but no direction could be obtained from it due to its intermittency.

Suspecting some abnormalities, he stopped in a small park to assess the situation. He realized then that the stub coming out of the radio on the floor was the only thing trying to pull in the signal, as the 4-el was not connected to it. So went the first hour.

He started to receive some signal, at times loud enough to tell him he was getting near, but plagued again with an intermittent condition. A replacement of the coax from the antenna to the radio restored things to normal but by then the hunt was over. We all



Photo courtesy of: Larry Wilcox, VE3WEH

gathered at Tim's to congratulate the winner who was not loaded for bears, just for rabbits.

73 and enjoy radio whatever way.

Maurice-André
VE3VIG

MINUTES OF THE OVMRC GENERAL MEETING 17 MAY 2007

HELD IN THE AUDITORIUM OF THE CANADA MUSEUM OF SCIENCE AND TECHNOLOGY

Prepared by Ken Halcrow, VE3SRS

BEST MOBILE AND BEST PORTABLE SETUP

The format for meeting was slightly different with the "Best Mobile and Best Portable Setup" contest being conducted in the main parking lot of the museum at 7:30PM sharp. The contest judges Ed Morgan VE3GX and Roy Parsons VE3CKD did a fine but difficult job due to the quality of the demonstrations. Maurice Andre VE3VIG's demonstration was outstanding with an amateur radio equipment setup incorporating every conceivable piece of equipment one could wish for. Maurice-Andre won hands down 1st prize for the Mobile category. The close second in the mobile category was VE2TQX Jake Guertin. The Portable category 1st prize winner was VE3SBC Steve Cochran with Ken Halcrow VE3SRS winning 2nd prize.

The regular program commenced shortly after the above contest with Larry Wilcox VE3WEH doing a fine job of filling in once again for our VP Jean Crepeau who was unable to attend due to work commitments.

VISITING AMATEURS AND GUESTS:

- Ken Asmus VA3KA
- Thane Brown VA3TTM
- Richard Ferch VE3KI
- Dave Green VE3TLY
- Jim Hatch VE7CIJ
- Matt Lange VA3MWL
- Doug Leach VE3XK
- Alex Milne VE3KIY
- Cameron Milne VA3FO
- Reg Mustill VA3REG
- Al Oldfield VE3ANO
- Paul Sowden VA3PAN
- Croft Taylor VE3CT
- Duane Avery VA3ODD

D-STAR

The highlight of the evening was the PowerPoint presentation of "D-Star by

Doug Leach VE3XK and Ken Asmus VA3KA of the Ottawa Amateur Radio Digital Group (OARDG). The goal of the OARDG is to encourage and stimulate the migration of mobile communications to modern digital repeaters and digital radios in the Ottawa, Canada area.

The proven, FM technology repeaters used on VHF and UHF frequencies, will be around for several years yet. However it is an opportune time to start to explore the benefits of higher frequencies, digital technology, and the new applications that are possible for our hobby.

OTTAWA D-STAR PRELIMINARY CONFIGURATION

The latest D-Star system configuration in Ottawa calls for single digital VHF and digital UHF repeaters, as well as a digital voice repeater on 23cm and simplex high speed data module on 23cm. The single site will be located as high as possible on a central building in the city. This placement plan may be altered as the OARDG moves along in this project.

In later phases, and only if warranted, additional 23cm repeaters may be added to improve saturated coverage throughout the Ottawa/Gatineau area.

It is believed that this configuration will provide very high signal quality through our most of the Ottawa area.

The OARDG consists of two teams. The Ottawa Amateur Radio Seniors (OARS) team is a group of radio amateurs responsible for the marketing, funding, procurement and promotion of digital technology in the Ottawa area. The Ottawa Amateur Radio Technical (OART) team is a group of radio amateur who are responsible for technical arrangements, deployment, integration and operation of the digital systems in the Ottawa area.

Planned repeater site with 1.2Ghz only.

Planned repeater site with full VHF/UHF/1.2Ghz

OTTAWA D-STAR CURRENT STATUS

The equipment is installed and operational on VHF and UHF. Dale did an excellent job of getting antenna stands set up, the cabinet in place, all the conduit and antenna cables installed and the grounding in place. The work groups included Dale (VE3XZT) and several of his helpers, Ken (VA3KA), Doug

(VE3XK) and Rick (VE3CVG). Remote testers included Tom (VA3NFA) and Manfred (VA3WK).

Performance on VHF and UHF is acceptable but we are exploring methods to improve repeater receiver performance.

23cm equipment is in place but not operational yet.

The gateway equipment will be placed, but not turned up, on March 24/07.

The gateway administrator names John (VE3IAO) and Alan (VA3STL) have been submitted for course registration.

For further information on D-Star technology and related equipment check out the following web sites:

www.wcarc.on.ca/oardg/projdes.htm

www.icomamerica.com/amateur/dstar/

CITY OF OTTAWA ANTENNA BY-LAW UPDATE

The current status and impact on the 2nd draft of the proposed by-law under Part 5 – Residential Provisions - Accessory Satellite Dish or Accessory Tower Antenna in Residential Zones (Section 120) was presented by Dave Goodwin VE3AAQ RAC Ontario North/East.

During the last few months representatives of the Amateur Radio community have provided technical counsel to the committee and at the same time expressed a number of their concerns. It appears that this wise counsel has been taken into consideration with the 2nd draft. Further meetings with the city are required to fine tune the amendment with the next meeting on 8 June. Gerry Trottier VA3GLT is representing the OVMRC. If you have any particular concerns contact Gerry and/or attend the By-Law amendment meetings.

It is highly recommended that all amateurs in the Ottawa region review the proposed amendment which can be found at the following web site.

ottawa.ca/residents/bylaw/zoning/bylaw/full_bylaw/pt_05/radio_en.html

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REPORTS FROM CHAIRS

A.President: No volunteer for this position as of yet.

B.Treasurer: Robert Plante VA3SHO – OVMRC financial update presented.

C.Amateur Radio Exhibit VE3JW: Maurice-Andre Vigneult VE3VIG – Absent

D.Amateur Radio Training: Ernie Jury VE3EJJ – Nil activity to report.

E.Field Day: George Steeves VE3ZQH – 3 stations planned to date. Needs BBQ and coolers. Contact George if you can provide assistance or want to participate in the Field Day 2007.

F.Membership: Gerry Trottier VA3GLT – 41 attendees at the meeting and 82 are paid up members in the Club.

G.Publicity & Programs: Steve Cochran VE3SBC – Bob Cooke VPFS will be the guest speaker in June. All local clubs have been invited. The Lighthouse contest is slated for August.

H.Radio Operations: Mathew Hall VA3MHB – Thanked all net control operators that had assisted recently and also noted that additional Net Controllers are needed.

I.HF Radio Operations: Patrick Tunney VA3CMD – Absent.

J.Technical: Jake Guertin VA3TQX/VE2TQX – Due to many commitments Jake has tendered his resignation and was roundly praised for his contributions to the OVMRC over the years. VA3FO and VA3KIY have volunteered to assist a new chairman.

K.Emergency Preparedness: Ken Halcrow VE3SRS – The Champion Generator has been repaired. The trailer will be used for FD with 2, possibly 3 positions available. Members are encouraged to bring their own HF transceiver equipment.

L.Historical: Larry Wilcox VE3WEH – The OVMRC will be celebrating its 50th birthday in November, 2007. The Executive is planning to make this a special event and is looking for ideas from the members.

NOMINATING COMMITTEE – No volunteers as of yet.

DOOR PRIZES AND 50/50 DRAW – Ernie Jury VE3EJJ won the 50/50 draw and donated the money to the club. Jake VE3TQX won the flashlight and Brian Cooke VE3QN won a LED pointer and Mathew VE3MHB won a book.

EXECUTIVE MEETING – Thursday 24 May at 7Pm.

NEXT GENERAL MEETING AND ELECTIONS – 21 June 2007

MEETING ADJOURNED AT 10PM.

Note:

During the Executive Meeting held on May 24, 2007, your Executive have decided to delay the Election of Officers and Chairs to the OVMRC, until our General Meeting, September 20, 2007. This decision was made because we currently have not had any members volunteer to fill the President's and Secretary's positions.

Next Meeting

Bob Cooke VE3BDB from Orilla Ontario, Vice-President of Field Services for RAC will be our guest speaker. He will inform us of the expanding role of Field Services. It promises to be a very interesting presentation so this meeting should not be missed. It will be open to all amateurs in the Ottawa region and hopefully, will be attended by many. All Amateur radio clubs are cordially invited to attend. We hope to see a full auditorium at the Canada Science and Technology Museum on June 21, 2007.

There will also be an update regarding this years Field Day by George Steeves VE3ZQH which will take place at the Museum. We hope to see many of our members and the public attend and learn about Amateur Radio in operation in the field.

73

Steve Cochran, VE3SBC
Programs & Publicity Chair

FIELD DAY ! FIELD DAY ! FIELD DAY !

MARK YOUR CALENDAR,
JUNE 23 - 24

The biggest event for OVMRC !!!

George Steeves
Field Day Co-ordinator
VE3ZQH

For Sale

- Kenwood 5W THF6 tri-bander handheld (VHF, UHF, 220), RX 100 kHz to 1300 MHz. Extras - hand mike, lighter DC cable, AA battery pack, case, mini manual (\$100 worth). Radio worth new \$440, asking for all \$375. Item rarely used. For more details on radio, search the Internet.

Freebee

- AEA PK232 TNC - dual port, has all latest hardware upgrades to do multi mode. Requires serial port. Also have (not installed, requires soldering) the audio add-on to use soundcard output for PSK31, RTTY, etc. Extra - manual, cords, software.

For any of the above please contact Jacques VE3TSC at 748-6597 or email ve3tsc@rac.ca.

RAC Bulletin

Special Authorizations for Canadian Amateur Radio Experiments at 135 kHz and 5 MHz to Cease 30 June 2007.

Since 2001, at the request of RAC, Industry Canada has granted a number of special authorizations to some Canadian radio amateurs to conduct experiments in the band 135.7 – 137.8 kHz and at 5 MHz. These experiments have had, as one objective, the provision of data that would support the objectives of RAC and the IARU for possible new allocations to the Amateur Service at these frequencies. In accordance with the agreement between RAC and Industry Canada, all the special authorizations to Canadian radio amateurs will be terminated and transmissions must cease as of 30 June, 2007. Further special authorizations will depend on the outcomes of WRC-2007, scheduled for 22 October - 16 November, at which, on the initiative of Canada, a new, worldwide, secondary allocation to the Amateur Service at 135.7 – 137.8 kHz is on the agenda. A secondary allocation near 5 MHz may also arise at WRC-2007 as a consideration in the review of radio services in the band 4 – 10 MHz. Per the agreement for special authorizations, each experimenter is required to prepare a summary report of his experiments, which may be in the form of an article for TCA.

The Ottawa Amateur Radio Club

is pleased to announce its 11th Annual



Hamfest

Saturday, September 1, 2007 (Labour Day weekend)

Tailgaters Open and Building Vendor setup: 8 am

Building Opens: 10 am until 1 pm

Radio Amateurs of Canada Annual General Meeting, Forum & Technology Update: 1 pm - 4 pm

**Carp Agricultural Fairgrounds
3832 Carp Rd (at Falldown Lane)
Ottawa (Carp), Ontario**

From Ottawa take Highway 417 west to Carp Road exit, 10 km north to the fairgrounds

We are in the Arena, so follow the signs on the site

\$6 general admission
\$12/table (plus admission)
\$5/tailgate (plus admission)

We will once again be offering an excellent door prize. Details will follow.

The OARC is proud to sponsor the RAC Annual General Meeting, Forum and Technology Update. This highly informative event follows immediately after the close of the Hamfest at 1 pm. We are very fortunate to have Dave Goodwin (VE3AAQ), RAC's Ontario North/East Director, as Moderator.

For further information or reservations contact:

Ed Sich (VE3WGO)
Tel: (613) 763-3628

E-mail: fleamarket@oarc.net
Web site: www.oarc.net/fleamarket

Talk-in: VE2CRA 146.940 - MHz