

OTTAWA AMATEUR RADIO CLUB

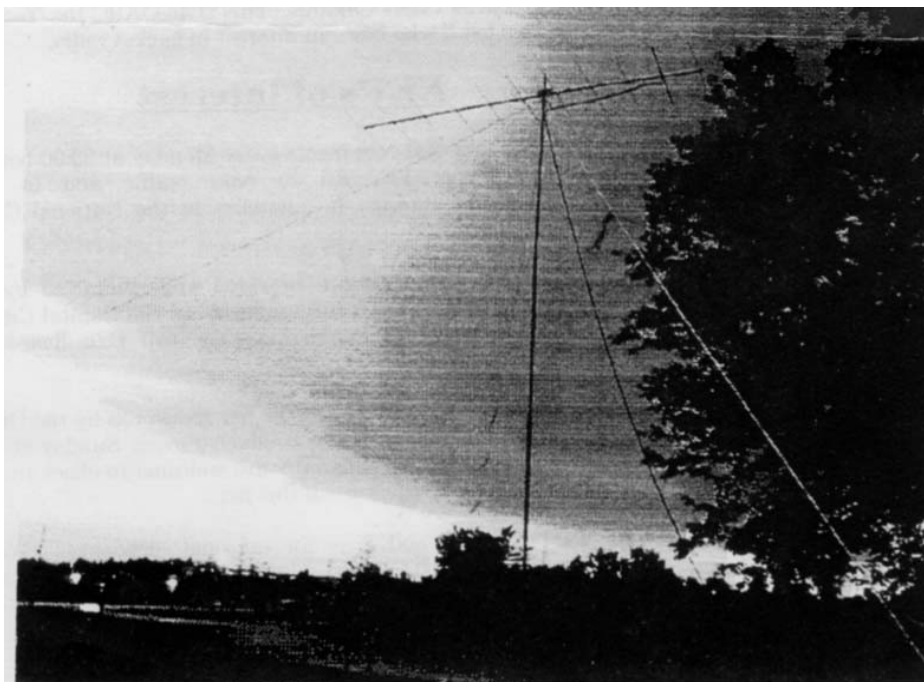


GROUNDWAVE

October 1998

Check out our Web Page: www.oarc.net

Next Meeting... 2.4Ghz on Oct 7, 1998



A storm approaches on Field Day...



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Club Information

The Ottawa Amateur Radio Club, Inc. (OARC). Is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

Regular Meetings of the OARC Inc. are held on the first Wednesday of each month (except July and August) in the Keefer Room (2nd floor of the Old Teacher's College) of the Regional Municipality of Ottawa Carleton Head Quarters complex on Lisgar Street. Meetings commence at approximately 19:30 hours. Further details about each meeting is elsewhere in this publication.

Executive Meetings of the OARC, Inc., are normally held on the second Wednesday of each month at 19:30 hours. Contact the President to confirm the date, time and place of the next meeting.

Packet Radio Meetings will be held at 19:30 hours on the last Thursday of every second month beginning in September, at the Algonquin College - Lees Campus. This is an OARC Inc. Technical meeting open to all who have an interest in packet radio.

NET's of Interest

The Capital City FM Net meets every Monday at 20:00 hours on the club repeater VE2CRA to pass traffic and to make announcements of interest to amateurs in the National Capital Region.

The SWAP Net is a service provided and conducted by Dan Reardon, VE3GUU. This feature appears on the Capital City FM Net. To list items and make inquiries, call Dan Reardon at 836-2633. Fax: 836-5635.

The POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club and is conducted every Sunday at 10:00 hours on 3.760 Mhz. All amateurs are welcome to check in. The SWAP Net is a regular feature of this net.

The POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed Morgan, VE3GX, and meets every Sunday, except during July and August, at 11:00 hours on 3.620 Mhz. to promote interest in CW and CW procedures.

The QCWA Chapter 70 NET every Thursday evening at 2000 hrs local time. Repeater VE3TEL is used, courtesy of the Pioneer Amateur Radio Club. The frequency is 147.03 out, 146.43 Mhz in. The callsign used is VE3QCW. Visiting Hams are invited to check into this Net. You do not have to be a QCWA member to check into this Net.

Club Repeaters

Voice	(VHF)	146.94/146.34 - 100 Hz tone
	(UHF)	443.300/448.300
Packet		147.07(sx) For QSO and Packet BBS.
Packet 56 kbps		220.55/433.55
East of Ottawa		145.69(sx)
Ottawa Centre		145.07(sx)
Hull		145.05(sx)
West of Ottawa		145.03(sx)
South of Ottawa		144.91(sx)
Nepean		145.59(sx)
West Carleton		144.97(sx)

For further information, please contact the Repeater Chair.

OARC Inc. Memberships

- **Individual Membership** is available for \$20.00
- **Family Membership** is available for \$25.00
- **New Hams** just licensed may qualify for free membership, contact the membership Chair.
- **Junior Memberships** - To encourage young people to join the club and to participate in amateur radio, the club is opening a junior class of membership. Dues will be at 50% discount but the junior member must pick up his/her copy of the Groundwave (preferably at the meeting).

September Meeting Minutes

Minutes of the OARC General Meeting - September 2, 1998

The meeting was called to order by the (new) President, Ed (VA3MPY), at 7:30 p.m.

Ed welcomed several guests this evening, including Guy (VA3FZA), John VE3VGI and Elizabeth Duncan, who came to the meeting after checking out the OARC web site (and a fine site it is). Elizabeth is interested in becoming a licensed amateur. (Good luck Elizabeth!)

Reflecting the energy obviously stored up through the summer, Ed set a very business-like tone to the proceedings, maintaining it through-out the evening. Machine-gun like, a rapid series of preliminary announcements were made, including: Dean (VA3CDD) was accepting new/renewed memberships, Brian (VE3ZRK) had brought some 75' cable, in case someone wanted it. Fred (VE3IO) thanked Russ (VE3LOW) for help fixing his broken beam and George (VE3BNO), the OARC Club Historian, was looking for old Club records of days gone by.

Fully aware of what was on everyone's mind and quite prepared to have members savour the moment, Ed showed a deft hand as he allowed the pace to slow when turning to Flea Market organizer Jim (VE3XJ) for an update. Preliminary data (later born out to be true) showed a great deal of vendor interest. As of the meeting, 28 tables were sold, including tables to 6 commercial vendors. Mike (VE3FFK) announced that the next Emergency Measures meeting would be October 3rd at the RMO building.

Ed, adding an announcement of his own, indicated that on November 3rd, on VE3MPC at 7:30 pm, there will be a special net in commemoration of the 125th anniversary of the RCMP. Special certificates and pins would be available to those who check in.

Doug Leach (VE3XK) representing RAC brought a copy of RAC's new operating manual which would be made available from vendors at the Flea Market. Ken (VA3KA) reminded members that the ARRL VHF contest was slated for the Labour Day weekend.

Fred related his problems (and expenses) repairing a computer monitor. Also, Fred continues to offer his Zenith TV to a good home.

Jim explained he was planning to attend a disaster planning session on the West Coast, which would also include amateurs' participation in the Ice Storm. Jim was looking for interesting stories and anecdotes.

Ed again took possession of the floor with an announcement that the Canadian Police College was going to be offering a free radio amateur course this Fall (here you go Elizabeth!) It is slated to start in October and will run to May. Ed also mentioned that there is some thought being given to a Code-only course.

Not to be on the sidelines for long, our new VP Rick (VE3IHI) showed his typical fine form with interesting tid-bits of information of his own. A letter from AMSAT was received, thanking the OARC for its 175 USD donation. Based on preliminary data (yet to be officially confirmed), the West Carleton Club beat out the OARC on Field Day (3110 vs 2912 points). The WCC unashamedly capitalized on an OARC computer failure, occurring in the middle of the night, to squeak ahead. In a nutshell, this means that there will be no pies this year. Rick read out a letter received from Bytown Marine announcing that an anonymous donation in the amount of \$2,500 has been made to the OARC, to be held in an account by Bytown. (The entire text of the letter was reprinted in the September edition of the Groundwave.) (Note from your Minute Taker: On behalf of all the members, we sincerely thank the donor and Bytown Marine for this extraordinary generosity.) Rick reported that based on his discussions with other clubs who had met with Industry Canada on their licensing proposal, this is a fruitless exercise, and in his opinion, not worth exploring. Rick indicated that he is always open to guest speaker ideas from the members.

With that last announcement, Rick introduced the guest speakers of the evening, Paul Cooper (VE3JLP) and David George (VE3UOL), who spoke on the activities of the newly formed Capital DX Club. The next meeting was scheduled for Monday, September 14th at 7:30 pm in the Board Room of CFRA. Additional information may be obtained from Paul (pcooper@fox.nstn.ca) or Dave (ve3uol@rac.ca).

Resuming the chair, Ed indicated that our outgoing Treasurer, George, is looking for someone to audit his books before they are passed to the new Treasurer, Elizabeth Johnson (VA3ELB). On a sad note, Ed advised everyone of the passing of a long standing member Doug Burrill (VE3CDC). Our sincere condolences to Doug's family and friends.

Ken related to members an article he read reviewing a new transceiver with built-in modem and GPS, and that will multiplex voice and data. (We'd all want one of those under our Xmas trees, Ken.) Keeping it in the family, Anne (VE3TSB) won the evening's 50/50 draw. On that note, Ed ended what was a very full meeting at 9:20 pm with members retiring to coffee and swapping tails of their summer adventures.

Radio Amateurs of Canada

All News below is received from Radio Amateurs of Canada (RAC) bulletin service. Readers may subscribe to this service, visit the RAC website at www.rac.ca for more information.

From: RAC HQ

Date: Sept. 2, 1998

Subject: Patrick Doherty, VE3PD, President-Elect of RAC

Pat Doherty, VE3PD, Ontario North Director for Radio Amateurs of Canada, has been elected President of RAC by the Board of Directors to succeed Farrell "Hoppy" Hopwood, VE7RD, effective January 1, 1999.

In addition to Mr. Doherty, RAC Vice-President and General Counsel Tim Ellam, VE6SH, was also in the running. Both candidates were duly nominated in advance of the August 15 deadline.

The August 30 election was held to fill the unexpired term of President and Chair of the Board of Directors Farrell Hopwood, VE7RD, whose resignation becomes effective on December 31, 1998.

The election was conducted in strict conformity to the applicable sections of RAC's By-Laws by an Election Committee consisting of Chair Robert Kirkpatrick, VE1VAR, and RAC Secretary Joe MacPherson, VE1CH, who acted as Election Committee Secretary. The seven elected Regional Directors on the RAC Board were polled for their vote.

An Amateur since 1974, Pat, of Murillo, Ontario, near Thunder Bay, brings considerable experience and skills to the post. He has been Ontario North Director since July 1, 1996, enjoys DX and satellite work, is Net Manager of the Northwestern Ontario ARES Net, and has served as RAC HF Band Plan Coordinator. Over the past two years, he has also served on various RAC committees and working groups.

In his professional life, Pat was employed for 38 years by N.M. Paterson & Sons Limited, a grain elevator and steamship company, retiring as Vice-President and General Manager of the Steamship Division in 1991.

From: RAC HQ

Date: Sept. 14, 1998

Subject: New RAC Operating Manual

RAC is proud to present the new 200 page RAC Operating Manual.

Edited by Doug Leach, VE3XK, this is a complete survival guide with sections covering all aspects of Amateur Radio operation in Canada:

The Amateur Radio Service the national and international perspective Licensing the Canadian structure and how it works Privileges and Restrictions what you can and can't do Operating the Amateur Radio Station procedures and hints Amateur Radio Station Equipment what you need to know Specialized Communications the digital modes, television, satellites Propagation what to expect on the HF, VHF, and UHF bands. For more information, visit the RAC website at: www.rac.ca

From: RAC HQ

Date: Sept 4, 1998

Subject: RAC Director Elections

On Tuesday September 2, 1998, the RAC Committee of Tellers formed by VE3BNO, VA3FZA, and VE3REL met at RAC HQ under the supervision of 1st Vice-President, VE3XK, and reports the following:

Atlantic Region: Mr. William Gillis, VE1WG, re-elected by acclamation.

Mid-West Region: Mr. Richard Lord, VE4OV, re-elected by acclamation.

Pacific Region: Mr. Denis Livesey, VE7DK, re-elected by acclamation.

Two valid nominations were received for Ontario North: Mr. Larry Thivierge, VE3GT, and Mr. Mike Rousseau, VE3MER. An election is called for the region.

Balloting of all eligible RAC members residing in Ontario North (postal code areas "K" and "P") will take place on or before October 1, 1998.

From: RAC HQ

Date: Sept 13, 1998

Subject: RAC encouraged by CARAB discussions

Radio Amateurs of Canada met with Industry Canada officials at a meeting of the Canadian Amateur Radio Advisory Board on September 11th, and discussed several issues of concern to Canadian Amateurs.

Prominent among the matters on the table was a proposal for the streamlining of the Authorization process by Industry Canada in which the Department would drop the requirement of a station licence, and eliminate the annual renewal fee of \$24.

RAC raised a number of concerns related to the maintenance of a database of addresses of amateurs, the portability of call signs and the ability and willingness of the department to monitor and enforce the application of the Radio Regulations.

RAC representatives were encouraged by the positive response received from IC officials and it is their sincere expectation that many of the concerns expressed by amateurs are being taken seriously and hopefully will be addressed in a manner which will be mutually satisfactory.

From: RAC HQ

Date: Sept 4, 1998

Subject: Swiss Air Crash - Radio Amateurs Respond

Within approximately 2 hours after the Swiss Air crash, the Emergency Measures Co-ordinator, for Halifax Regional Municipality Barry Manuel initiated a call-out to members of the HRM - EMO Amateur Radio Group. The call was initiated through Dave George (VE1AJP) who is the contact for EMO and RAC ARES Coordinator for the Halifax area. The Director of the Nova Scotia Region, Canadian Red Cross, John Byrne activated the Disaster Response Team (DRT) including the Telecoms Officer (VE1CH) and directed us to report to the site and join the ERV at that location.

Amateurs were dispatched to the Command bus at Peggy's Cove and were asked to establish telecommunications between the site and a net control station downtown. Amateurs were also sent to CFS Shearwater and to several other staging areas which were subsequently moved or closed down as more accurate information filtered in. Our emergency ID cards and vehicle identification cards were IMPERATIVE to gain access to both the outer and inner perimeter.

As Telecommunications Officer for the Canadian Red Cross, VE1CH called in members of the Senior Amateur Radio Association to activate the communications centre at the Canadian Red Cross Headquarters in downtown Halifax and also set up telecommunications links (amateur and other) between the on site Emergency Response Vehicle (ERV) of the Red Cross, the Command Post, Red Cross HQ and the net control station.

Amateurs at the Command Post were kept very busy interfacing between the on-site commander, the military and just about everyone else who the site commander needed to talk to. Approximately 20 amateurs made

themselves available and a shift roster was set up for twenty-four hour operation by the network control station. Two repeaters were used in the operation, one for traffic handling, the other for personnel coordination and assignment.

Amateur operators were also asked to provide emergency HF links to the military and naval ships engaged in the search and were also asked to establish communications on marine emergency frequency of 156.8 Mhz.

The response was both fast and efficient considering the hour and the number of people needed. The entire operation was moved from the Blanford area near Hubbards, to Peggy's Cove when the exact position of the debris field became known.

the extensive training provided to members of the HRM-EMO team over the past year really paid off. Radio procedures were excellent and I heard MANY reports from senior officials at the site how well the amateurs performed.

(From a report by Joe MacPherson, VE1CH)

Words-Sep 15/98

Looks like summer is really over now, so I will soon have to go back to "indoor" hamming. It seems to be getting to be more and more of a hassle to switch rigs on the bike between 2m and 30m. Another two weeks and I will need that D.C. for the headlight.

Last weekends (Sep 12/13) VHF/UHF QSO party was probably the last of the field day type operations we will be doing for a while. We (EPB FFK GRQ and ZTU) had fun running the VE3ZY callsign from a tent down at GRQ's place in FN15. Contacts were well up from last years effort, but every time we do one of these things, we come back to wanting to get that kilowatt on the air. Since we hear far more than we work, we think another 20dB of RF would make a big difference in the fun quotient. - another winter project.

Speaking of winter, I hear there are a bunch of 5kW generators being auctioned off at the plowing match near Kingston just now. I wonder how many of them will end up in the garages of the hams down there?

At home the HF antennas are still standing, at least for now. With my luck, by the time I am off the bike and ready to put some time into hamming from home, they will be down again. I'll wait and see. While they are up there, maybe I should try to see if that new net on 28.505 is making a go of it locally. How long has it been since there was a local net on 10m? It must go back to at least before the introduction Radio Shack HTX 100.

Coming up is a transmitter hunt on Sep 19, which somehow got designated as "Amateur Radio Day". The Emergency Measures Radio Group is meeting on Oct 3, with an exercise pencilled in for Nov 7. Add the odd contest into the mix and there is no shortage of things to do. So what happens to the lawn if I don't rake the leaves? Will it be a better or worse ground plane?

73. & remember, its not sloth. its inner directed industry.

mk VE3FFK

Letters to the Editor

Since I first heard of it, I've been thinking of the fund set up for promoting and improving the state of amateur radio around here.

I would like to propose the following use for some of the funds:

Purchase the microfiche back catalogue of the following amateur radio magazines (prices in US Dollars from Buckmaster Publishing):

- Ham Radio+Ham Radio Horizons \$245.00 (no longer published)
- 73 Amateur Radio Today \$325.00
- CQ Magazine \$395.00

Shipping \$10/set. Annual updates \$10/set (where still in publication). Lost fiches are replaced free of charge by the publisher.

By the time it lands here I expect it to cost around \$2000 CDN to do this.

I would further like to propose that the OARC ask the Ottawa Public Library to accept these documents as a gift from us, and added to their reference holdings for public access. This means anyone would be able to use them in the library, make photocopies, etc., but they would not circulate. This gift should be acknowledged in some small way, such as a note on the box holding the documents.

I think this proposal fulfills several of the objectives of the fund originator, specifically the following.

- promote interest in amateur radio communications"
- promote the advancement and achievement of club members
- build infrastructure
- revitalize membership in the club through club activity..."

I see it as a lasting addition to the amateur radio community in the area. In addition to its obvious technical assistance to the builders and historians among us, it would give "unconnected" individuals" interested in amateur radio and related fields a link to the wider amateur community, as well as an awareness that the OARC exists.

I am interested in hearing what the membership thinks of the proposal, as well as what other ideas the membership has for the use of the anonymous donors generous gift.

I would also like to get a feeling for what the membership thinks would be an appropriate process for bringing ideas forward for consideration. Is a letter such as this one the best way to start? Should ideas go to executive first, to weed out proposals that are too far out in left field? Should financial input of the proposer be a factor in the considerations? ie Should a person proposing an idea be required or requested to put some amount into the fund if their proposal is accepted?

What do you think?

Mike Kelly, VE3FFK

LETTER TO THE EDITOR

I've discussed the state of packet radio with some of the packet working group people and particularly Barry McLarnon and we have decided that with the current lack of critical mass of interest for packet radio and related projects in the region, we wish to cease hosting regular packet meetings for the present time. Barry has thus posted the following on the hydra web site page:

<http://hydra.carleton.ca/info/meeting.html>

To quote:

"Our meetings are no longer at the Museum of Science and Technology. The new location is Algonquin College (Lees Ave campus), Room A131.

However, due to the decline in interest in packet radio in the area over the past year or two, we are finding it very unrewarding to continue putting on these meetings. At the present time, we have not scheduled any meetings for the remainder of 1998. We will reconsider if we get sufficient expressions of interest (and suggestions for meeting topics). If you have any comments, please contact the OARC PWG chairman, Norm Rashleigh. ve3lc@hydra.carleton.ca"

Thanks and 73

Norm

HamFests and Flea Markets

Items below are from the X-files on the Radio Amateurs of Canada (RAC) web site. Readers may browse www.rac.ca for more information.

ODXA Radio Fest '98

Ontario DX Association (ODXA)

Friday, October 2, 1998

Hamilton ON

Hamilton Hamfest '98

Hamilton ARC

Saturday, October 17, 1998 - 9:00am

Marritt Hall (Ancaster Fair Grounds)

Hwy. 53 between Southcote Rd. and Kitmurry Lane.

Hamilton ON

Admission: \$5. Vendors (Main Hall) \$15+admission. (Junior Hall) \$5+admission. Tailgaters \$5 Talk-in: VE3NCF 146.760(-)

Info: 905-664-2801

<http://www.network.on.ca/~wcourt/flea.htm>

Montréal South Shore Hamfest/Hamfest de la rive-sud de Montréal

Club Radio Amateur de la Rive-Sud de Montréal

Saturday, October 24, 1998 9:00am

Place Desaulniers,

1023 boul. Taschereau,

Longueuil, QC.

Admission: \$5

Talk-in: VE2RSM 145.390(-)

Info: François Drien VE2FDA ph.:514-672-9994

ve2clm@amsat.org

<http://www.cam.org/~ve2clm>

OARC Fleamarket Report

The following are the financial results of the flea market.

The flea market had three sources of income. Those sources of income came from the admission fees, table and tailgating fees and concessions, summarized in the following table:

Sources of Income	Income Received
Admissions	\$1,001.80
Tables and tailgating	\$260.00
Concessions	\$270.50
TOTAL	\$1,532.30

In addition, an advance of \$650 was issued by the Treasurer. However, expenses were \$192.37. These expenses included the soda pop, coffee, condiments, BBQ tools and utensils, ice, sundries and a storage box to store these items for next year. Therefore, a cheque in the amount of \$1,989.93 is being submitted to the club (the result of the total income less my expenses plus the advance).

There were other expenses not included in this report. The advertisement in The Canadian Amateur was \$270. In addition, the hall at the carp Agricultural Society was \$250. Finally, the club owes Rick, VE3IHI, about \$41 for signs. Accordingly, the profit to the club is in the order of \$812. This figure is about nine times greater than the profit made last year.

As result of these figures, we can say that the flea market was a great success this year.

Special thanks to all those who volunteered their time and efforts.

(Editors's note: Recommendations will appear in next month's Groundwave, assuming we can figure out the software by then.)

Joe Norton Award

Joe Norton Trust Award for Amateur Radio

The OTTAWA AMATEUR RADIO CLUB INC. awards annually the Joe Norton Trust Award for the advancement of amateur radio. The amount of this award is approximately \$500

ELIGIBILITY

To be eligible, a candidate must:

1. Be a resident of the National Capital Region as defined by the official federal government map:
2. Have received a Certificate of Proficiency in radio from Industry Canada during the period June 1, 1996 to June 1, 1998:
3. Send a written submission of no less than 600 words and no more than 900 words to the executive of the OTTAWA AMATEUR RADIO CLUB INC., setting out his or her interests, achievements and plans to contribute to the advancement of amateur radio; and
4. Present him/herself for an interview if so requested by the judges.

RULES

1. Entries must be received on or before October 14, 1998. No entries received after that date will be considered.
2. The club will send an acknowledgment in writing upon receipt of an application.
3. A panel of judges appointed by the executive of the OTTAWA AMATEUR RADIO CLUB INC. will evaluate all entries.

4. Finalists may be interviewed by members of the executive of the OTTAWA AMATEUR RADIO CLUB INC., the panel of judges, or both.

5. Submissions will not be returned.

6. If the judges do not select a candidate in any year, no award shall be made in that year and the monies shall return to the trust fund.

7. All decisions of the executive of the OTTAWA AMATEUR RADIO CLUB INC. are final.

8. The winner will be notified on or before October 24, 1998.

9. The winner will notify the OTTAWA AMATEUR RADIO CLUB INC. of his or her acceptance of the award no later than October 31, 1998.

10. The award will be made during the regular meeting of the OTTAWA AMATEUR RADIO CLUB INC. in November.

11. The winner agrees to have his or her name, photograph and address published in club bulletins, trade papers and magazines, and on the airwaves.

Send your entry, to be received no later than October 14, 1998 to: Joe Norton Trust Award

OTTAWA AMATEUR RADIO CLUB INC.
P.O. Box 8873
Ottawa, ON
K1G 3J2

Next Meeting

The Finer Points of Publishing...

Material published herein does not necessarily represent the official OARC viewpoint. Items may be reprinted by Amateur Radio Clubs or other publications provided that proper credit is given to the author and to the OARC, Inc.

October 7, 1998 -- We've heard some cool 2.4GHz stuff will be demonstrated. See you there!

**It's time to renew. Here's a membership form,
don't delay and mail it today.**

Ottawa Amateur Radio Club Inc.

Box 8873
Ottawa, ON
K1G 3J2

Membership Renewal / Application

Callsign(s) _____

First Name _____ Last Name _____

Address _____

City _____ Prov _____ Postal Code _____

Home Phone _____ Work Phone _____ ext _____

Email Address _____ @ _____

Current Qualification: Basic Advanced Grandfathered
5 wpm 12 wpm Year Licensed 19 _____

- Renewal (\$20 single, \$25 family, \$10 junior)
- Newly Licensed ham - \$FREE if licensed in current membership year
- New Single Membership - \$20 (\$15 after February)
- New Family Membership - \$25
- New Junior Membership - \$10



BML Communications

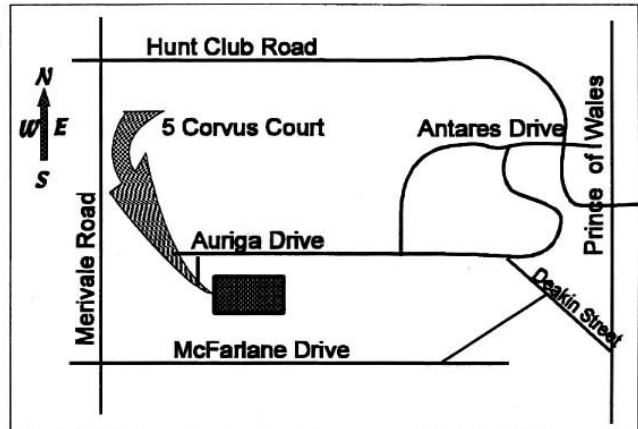
(A Division of Bytown Marine Limited)
5 Corvus Court, Ottawa, ON K2E 7Z4
Tel: (613) 723-8424 Fax: (613) 723-0212
email: gwalker@bml.ca
Web Site: www.bml.ca

TRANSCEIVERS & RECEIVERS BY:

Drake, Icom, JRC, Kenwood, Lowe, Reim, Yaesu

ANTENNAS & ACCESSORIES BY:

AEA, Barker & Williamson, Cushcraft, Daiwa, Diamond, Larsen, JFJ, Hussler, Unadila, Workman, Wintenna, Valor, Proam, Alpha Delta, Telex, Tylon, Nye-Viking, Timewave DSP, Tigertronics, Ameritron, Mirage, Bencher, DCI Filters, ARRL Publications, Sangean and more...



ICOM

IC-706 \$ 1,478.

IC-T2A "new" 2m Handheld \$ 220.

IC-R10 "new" Handheld Receiver
All Mode .5- 1300 MHz \$ 695.

IC-W32A 2m/70cm Handheld \$ 449.

IC-T7A 144/440 MHz
Handheld Transceiver \$ 390.

IC-746 HF, 6m & 2m All Mode
w/DSP \$ 2,550.

PCR-1000 .5-1300 MHz Scanner,
Computer Controlled \$ 825.

YAESU

VX-IR, World's Smallest Dual Band
Handheld Transceiver \$ 450.

FT-920, New HF Transceiver with 6m,
replaces FT-990 \$ 2,900.

FT-847, New HF/50/144/430 MHz All Mode
Transceiver **\$ 2,900.**
Cash - Tax Included

KENWOOD

TH-235A 2m Handheld Transceiver "new" \$ 239.

TM-261A 2m Transceiver
w/Dual Band Receiver \$ 335.

TS-870S HF Transceiver \$ 2,828.

TH-G71A Dual Band Handheld Transceiver \$ 469.

VC-H1 Interactive Visual Communicator \$ 850.

18" UNIDEN DIRECT TV SYSTEMS

UDS-100 Digital Satellite Receiver, w/dish &
mounting bracket \$ 550.

UDS-200 Same as above, more features & RF
Remote \$ 900.

CALLBOOKS

1998 CD ROM \$ 95.

1996 CD ROM \$ 25.
** only a few left **

Offering authorized factory service

Fall/Winter Store Hours Monday thru Friday 10:00 - 6:00 Saturdays 9: - 1:00