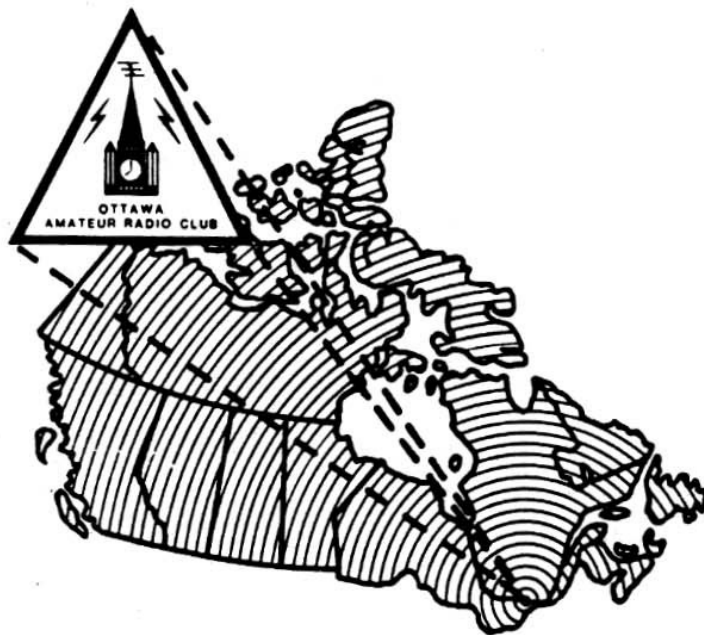


SEPTEMBER-OCTOBER 1996

# THE GROUNDWAVE



NEXT MEETING WILL BE HELD  
WEDNESDAY, OCTOBER 2, 1996

Club Call VE3RC

Repeater VE2CRA



Official Bulletin of the Ottawa Amateur Radio Club, Inc.

The Ottawa Amateur Radio Club, Inc., Box 8873, Ottawa, Ont., K1G 3J2

President	Richard Hagemeyer, VE3UNW	225-3275	781-0621
Vice-President	Ed Strange, VA3CEJ		
Secretary			
Treasurer	George Roach, VE3BNO	234-0885	738-2372
Past-President	Roger Swickis, VE3BZR	234-9836	228-6310
Directors	John Connor, VE3TG	727-5808	951-6202
	Rick Furniss, VE3IHI	224-2604	
	Dave Parkes, VE3AV	225-1206	993-7259
Packet Group Chair	Norm Rashleigh, VE3LC	837-1733	998-7334
Repeater Chair	Harrie Jones, VE3HYS	739-9365	738-2372
Net Manager	Wayne Greenough, VE3JSQ	836-5320	724-5464
EMI Committee Chair	Ralph Cameron, VE3BBM	825-1634	225-2850
Membership Chair	Clayton Jenkins, VA3CBJ	820-0463	998-8653
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	Mike Kelly, VE3FFK		788-2600
Coffee Guy	Mike Kostiuk, VE3KOY		

THE OTTAWA AMATEUR RADIO CLUB, INC. 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 RMOC HQ complex on Lisgar St., Ottawa, at 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month at 1930 hours. Contact the President to confirm the date of the next meeting.

PACKET RADIO MEETINGS will be held at 7:30 p.m. on the last Thursday of every 2nd month, starting September 1993, at the Museum of Science and Technology. This is an OARC technical meeting open to all who have an interest in packet radio.

DEADLINE FOR COPY is the second Wednesday of each month. Make yourself better known to fellow members and other amateurs, too, by giving us an article, technical or otherwise, relative to our hobby.

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

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 a 50% discount but the junior member must pick up his/her copy of the Groundwave (preferably at the meeting).

RADIO AMATEUR CALL BOOKS are available at many local libraries. Ask at the information desk.

SAFETY BELTS AND AN ENGRAVING PENCIL are available for loan to club members. The engraving pencil (to mark valuables for identification in case of loss or theft) and the safety belts with pole straps are available to any members. For the belts, a refundable deposit

consisting of a cheque equal to the replacement value of the belts is required. Contact the President for the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) for the belts.

THE CAPITAL CITY NET meets every Monday at 2000 hours on the Club Repeater VE2CRA (146.34/.94) to pass traffic and to make announcements of interest to amateurs in the National Capital Region.

PACKET RADIO VOICE NET meets following the Capital City Net on VE2CRA at 2040 hours. This is an informal net to answer questions about packet radio, pass along operating hints and provide information for future packet operators.

THE SWAP NET is a service provided and conducted by Dan Reardon, VE3GUU. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Dan Reardon at 836-2633.

POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club, and conducted every Sunday at 1000 hours on 3.760 Mhz. All amateurs are welcome to check in. The Swap-Net is a regular feature.

POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed, VE3GX, and meeting every Sunday, except during July and August, at 1100 hours on 3.620 Mhz, to promote interest in CW and CW procedures.

REPEATERS

VE2CRA	Voice	146.94/34 443.300/448.300
VE3OCR	Packet	145.01(sx) Inter city links
VE3OCR	Packet	145.07(sx) Local Area net for QSO and Packet BBS.
56 kbps	Packet	220.55/433.55
VE3XDX	Packet	145.11(SX)

For further information, please contact repeater chairman.

OARC WWW Home Page:  
<http://www.worldlink.ca/oarc>.

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OCTOBER MEETING: October 2, 7:30 pm,  
 Keefer Room, at RMO, 111 Lisgar St,  
 Ottawa.

MINUTES OF THE OARC MEETING  
JUNE 12, 1996

The meeting was called to order by the  
 President, Richard, VE3UNW at  
 approximately 19:40.

Richard started the meeting by announcing  
 that bids for the Heathkit HW-8 were  
 closed and that it would be sold to the  
 highest bidder. After the bids were  
 reviewed Carl, VA3CGM, was the highest  
 bidder with a bid of \$106.

Richard then informed the members that  
 the majority of executive members had  
 agreed to sit on the executive for  
 another term. The vacant positions were  
 secretary and director; no nominations  
 were received for the position of  
 secretary. John Connor VE3TG, Rick  
 Furniss VE3IHI, Dave Parkes VE3AV and  
 Gord Philips VE3XGP were nominated for

the position of director. Gord declined  
 the nomination. John, Dave and Rick were  
 elected. The 1996/97 executive are as  
 follows: President, Richard VE3UNW; Vice  
 President, Ed Strange, VA3CEJ, Treasurer,  
 George Roach VE3BNO; Secretary vacant,  
 Repeater Chair, Harrie Jones VE3HYS;  
 Groundwave Editor, Ed Sieb VA3ES;  
 Repeater Group Chair, Norm Rashleigh  
 VE3LC; Directors: Peter Hafichuk VE3LBW,  
 John Connor VE3TG, Dave Parkes, VE3AV,  
 and Rick Furniss VE3IHI.

The proposed increase in membership fees  
 as earlier announced in the May issue of  
 the Groundwave was put to a motion and  
 seconded by Andy, VE3FJ. The motion  
 passed to increase the yearly dues from  
 \$15 to \$20.

Richard announced that at a previous  
 executive meeting it was decided that in  
 order to allow more amateurs to apply for  
 the Joe Norton Award that the award, now  
 fixed at \$500 will now be made in  
 December. Paul Coverdale VE3ICV will be  
 coordinating field day activities with a  
 small group of amateurs at Novotel. Paul  
 announced that they were looking for a  
 satellite operator. Brian Summers VE3JKZ  
 is moving to Calgary; Brian was  
 responsible for the National Capital  
 Award. The OARC flea market is  
 tentatively scheduled for the same  
 weekend as the QCWA convention. Dave  
 VE3AV announced that the St. Lawrence  
 Valley Repeater Council will hold their  
 next meeting in Ottawa on October 20th at  
 13:30.

Peter VE3LBW showed a video which was  
 originally aired on CBC's Marketplace  
 last winter. The file identified EMI  
 problems and consequences to all types of  
 medical equipment from electric  
 wheelchairs to equipment in operating  
 rooms. The video showed one example of  
 a Calgary man whose wheelchair went out  
 of control and went over an embankment.  
 The source of the EMI was later traced to  
 a local radio tower. In the United  
 States there are over 100 documented  
 cases of accidents and 5 deaths

attributable to EMI. After the video a short discussion ensued concerning liability and insurance. Richard noted that he took out an umbrella policy which provides third party protection at a cost of \$100 annually.

The 50/50 draw was won by Dean VA3DNX. Richard closed the meeting at 20:45, followed by a ragchew and coffee.

#### EDITOR'S THOUGHTS...

Welcome back! I hope you all had a pleasant summer and enjoyable flea-market season. I did particularly well this summer, having acquired several new boat-anchors, parts and new test equipment. The flea-market/hamfest season is starting to wind down as we head towards the Fall; a list of events for the 1996 Fall season is in this issue. Please don't forget the **QCWA International Convention** here in Ottawa, October 4 & 5. Please take a look at the notice in this issue of **GROUNDWAVE**.

We were hoping to have an update on the on-going "Little-LEO" issue. Our understanding is that RAC had already submitted it's brief to the Canadian Government on this matter. Though it seems highly unlikely now that the Amateurs will lose the existing VHF or UHF bands it will never-the-less be interesting to see what new developments have taken place since last June. We'll have more news on this in the November issue of **GROUNDWAVE**.

We have a new slate of executives this year. Fortunately it is the same as old slate, so the club will save thousands of dollars in not having to print up new stationary! Seriously, we have an empty slot in the executive roster: secretary. If you feel you might be able to contribute to the club through your talents, please see any of the new (old) executive at the club meeting. Your club needs you.

#### NEW SCHEDULE FOR O.A.R.C. GENERAL MEETINGS

The Ottawa Amateur Radio Club has shuffled it's normal meeting night for general meetings. Starting October 2, 1996, we will be conducting our regular meetings on the **first Wednesday** of each month, (with Executive meetings on the following Wednesday). We'll be maintaining this new schedule until further notice. Please mark your calendars accordingly.

#### O.A.R.C. FLEAMARKET ANNOUNCED

Please mark your calendars for Sunday, October 27, 1996. Our Fleamarket crew is hard at work planning and getting everything ready. Location is the Cumberland Community Centre, (R.J. Kennedy Community Centre). Take Highway 17 east to Cameron; turn south on Cameron, go to Queen St; turn east on Queen, and continue Dunning. Turn south. The Community Center is up the hill. Watch for signs. Vendors 9 AM, Doors open to the public at 11 AM. Nominal hours are 11 AM to 3 PM. For info, call Richard VE3UNW, at 225-3275. Raffle Prize is a Kenwood TM-251, supplied by Kenwood and Bytown Communications.

#### 1996 JOE NORTON AWARD

The competition for the 1996 Joe Norton Award is announced. This year's prize is \$500. Submissions deadline is November 6, 1996, and the winner will be announced in December. Additional details may be found on page 10 of this Groundwave.

RAC HEADQUARTERS MOVES TO OTTAWA

Radio Amateurs of/du Canada is re-locating its administrative offices to Ottawa in October 1996.

From Monday, October 7, through Friday, October 18, the administrative office will be "dormant" while the telephone services and computer systems are transferred from the Kingston location to the new Ottawa facilities. The physical move will also be ongoing during that same period.

Clubs requiring study materials for fall classes are "strongly" encouraged to get orders into the Kingston office early, to avoid shipping delays.

Please note the new address, but **NOT BEFORE** October 15, 1996:

Radio Amateurs of/du Canada  
Administrative Office  
720 Belfast Road, Suite 217  
Ottawa, ON, K1G 0Z5  
The new telephone (613) 244-4367, after  
October 18.  
The new fax number (613) 244-4369, after  
October 18.

COMING EVENTS FOR THE FALL SEASON

SEPTEMBER 28, 96, **Junk-In-The-Trunk:**  
Open Trunk 'n Tailgate Sale, Ottawa,  
Ontario, South Parking lot, next to the  
Science Museum. 8 a.m.- 2 p.m. Info:  
Larry Wilcox VE3WEH, 747-5565 or monitor  
repeaters around Ottawa.

SEPTEMBER 28, 1996, DRUMMONDVILLE QC  
Hamfest, TI: 146.625 -  
College St. Bernard, 25 Ave Des Freres,  
DRUMMONDVILLE QC  
INFO: CLAUDE VENDETTE (819) 848 2595,  
packet: VE2CVJ@VE2CSC.#MTL.QC.CAN.NOAM  
OR GILLES VE2GDG@VE2TRP.

OCTOBER 4 & 5, Ottawa, Ontario. QCWA  
International Convention -  
Citadel Hotel & Convention Centre, 101  
Lyon St., Ottawa. Advanced registrations  
should be received by September 16.  
Registration forms can be found at the  
QCWA Home Page (Internet):  
<<http://www.efn.org/~qcwa>> or by phone:  
1-800-481-4649, or 613-826-2426. You can  
also e-mail at: bo075@freenet.carleton.ca

OCTOBER 12, 96: Hamilton, Ont. Flea  
Market 96, TI: 146.760 -  
9:00 AM, Marrit Hall (Ancaster Fair  
Grounds) on Hwy# 53.  
Between Southcote Rd. and Kittymurry  
Lane. Contact: Hamilton ARC, C/O 13  
Puritan Crt.,  
Stoney Creek, Ont. L8E4K9 or Fax  
905-664-2801 or at Web site:  
[www.networx.on.ca/~wcourt/flea.htm](http://www.networx.on.ca/~wcourt/flea.htm)

OCTOBER 19, 96: Belleville, Ont.  
Fleamarket TI: 146.985 -  
9:00 - 14:00 Veterans Hall, Elmwood Dr.,  
Belleville.  
More Info. Contact: VE3DQN Don Dalrymple,  
31 Cedar St.,  
Belleville, Ont. K8P3L9

OCTOBER 19, 96: Montreal, Que.  
(Cartierville) TI: 146.910-  
West Island ARC Auction & Fleamarket,  
Transfiguration of our Lord Church,  
Filion, Corner Dudemaine, Cartierville,  
Montreal, Que. Contact: VE2SAI Arnie  
Silverman 514-626-1889

OCTOBER 26, 96: Montreal, Que.  
(Longueuil) TI: 145.390-  
Montreal South Shore ARC Fleamarket: Just  
off of the southern exit of the  
Jacques-Cartier Bridge.  
Contact: Micheline Simard VE2MML, 87  
Barthelemy #2, Longueuil, Que. J4J 1M1  
or Francois, VE2FDA @  
VE2RKY.#MTL.PQ.CAN.NOAM. E-Mail:  
fradrien@ulix.net#

**KIT BUILDING AND WORKMANSHIP**

by Jerry Proc, VE3FAB,  
via Skywide ARC

How many of you have been to a flea-market and contemplated the purchase of a Heathkit or any other "kit" type radio? Are you concerned about the quality of workmanship of the piece and will you have to correct someone else's problems? The answer will surprise you. Paul Bock, K4MSG, a former Heath technician who specialised in "customer service", helping customers get faulty kits to work reiterates his experiences.

"The worst kit assemblers were adults who were electronics engineers. Typically they DID NOT follow the instructions because they thought they "knew a better way". Some of the mistakes were so ludicrous that a standing phrase around Heath was 'a trained chimp could have done it better'.

"Another group which sometimes presented problems of their own doing were technicians who liked to take short cuts. Good technicians were smart enough to faithfully follow the Heath instructions exactly as written. Many mistakes were made by kids or teenagers because they tended to be in a hurry to "make it play", which is typical of younger people who expect instant results and instant gratification.

"The BEST assemblers were adults who had NO electronics background and who saw themselves in a "learning mode". In closing, the best advice that could be dispensed when purchasing ANY piece of gear is to physically inspect the unit and ensure that it's in operational order before purchasing it."

**HOW BOATANCHORS ARE BORN**

by Jerry Proc, VE3FAB, via Skywide ARC

Ever wonder how surplus electronic equipment (herein called Boatanchors) makes the transition from being a government asset, to finally finding it's way into your hands? The following humorous and somewhat true account of how the process happens in the U.S. comes to us from Dave Stinson, AB5S/7. It wouldn't be too farfetched to believe the same process takes place in our own government bureaucracy, here in Canada.

Typically, an engineer gets all excited about the latest "Whiz-bang" box with all the available bells and whistles. Bids are solicited, the new "toy" procured, and an already existing, operational, fully functional and perfectly serviceable (and most likely in excellent condition) unit is replaced and declared surplus. Thus begins the carefully planned ageing and curing process that ferments a valuable taxpayer asset into a fine hamfest Boatanchor.

First, the working unit is retired to a dark, hidden shelf for a few years so the capacitors can ripen properly. One dreadful day, "Da Boss" comes through the shop and brays: "We gotta clean up dis place! Da Division Head is comin' in fer da inspechun! Get dis junk OUTTAHERE!" The poor harried technicians quickly stack the ripened gear on a pallet, (typically called a "lot") along with many other items which are completely unrelated. Careful planning ensures that relevant accessories and cables for the proper Boatanchors end up in a different lot - typically one containing 4,000 used cafeteria trays, 200 empty 16mm movie reels, and assorted fire-hose nozzles. The Division Head never shows up. The "lot" sits on the loading dock for another 18 months while the paperwork mill grinds away. This permits the junked gear to become comfortable with the broken florescent light fixtures, and several IBM typewriters (with missing type-balls).

An important ritual right-of-passage happens at this point in time. At least once a month, the "lot" is inventoried. Why anybody should need to "inventory" something that's been declared scrap is unknown. When taking inventory of fledgling Boatanchors, it's standard practice to mark them in some way so they won't be recounted more than once in the same week. The most effective method of ensuring that equipment won't be recounted, is to mark the gear with a drippy, runny splat of spray paint. Hitting the front panel is an absolute requirement. Inexorably burying the dial markings in thick paint can mean an extra coffee or tea break in the afternoon. Covering the tuning dials, the panel markings and binding up the tuning shafts with a thick resilient coating of paint is known as a "grand slam" and can earn the perpetrator an annual salary increase. Obliterating the makers symbols and emblems such as Collins, Hammarlund, Racal or TMC is another favorite game and requires particularly careful aiming of the spray nozzle. This practice is guaranteed to score those extra "brownie" points with "Da Boss".

After this first ageing and refining process, our Boatanchor-to-be faces a perilous journey through the remainder of the system until it reaches it's final destination - you the purchaser. No gear, regardless of quality, can truly become a Boatanchor without passing through the final "curing" process. After several seasons of being stored outside, and being baked in 35 degree summer heat, buried in six foot snow banks and being used as a home for field mice, your future treasure finally reaches that bleached-out, plastic-rotted, dead capacitor, seized control state we know and love called BOATANCHORHOOD. It usually takes the paper pushers only one or two more years to finally get this "lot" on the sale list and out to the marketplace. Good luck to all you Boatanchor aficionados. (And see you at the Thursday sales! ed.)

### TELECOMMUNICATIONS IN THE R.C.M.P

by Fred Hart, VE2LSQ  
from M.A.R.C. Marcogram

Telecommunications Services is responsible for the direction and coordination of all units formed for the purpose of providing telecommunications systems and services in support of the services and activities of the Royal Canadian Mounted Police.

Included in these systems are: communications centres, (administrative and operational); mobile radio services; telephone and data security, integrity and availability; Rapid Fax; the Canadian Police Information Centre (CPIC) and other many others.

Systems are basically regional in scope (such as the Southwestern Ontario Communications System (SOCS), the Province of Alberta Communications System (PACS), the Embassy Patrol Communications System with the National Capital Region, the Interior of B.C. Communication System (IBCCS), and many others.

#### History of Telecommunications in the R.C.M.P

In the early years, telegraph systems were used; however, telephone service was soon adopted when that technology became available.

In 1938, an agreement was reached with regional Radio Station CKCK to broadcast police bulletins. This marked the official beginning of radio as a means of communications within the Force.

1939 marked the installation of the first base to car radio system at St. Charles Manitoba.

In 1947, installations in Manitoba were enlarged to create a communications network that covered all three Prairie provinces.

Communications were gradually expanded until two-way radio became standard equipment in most police cars, ships, aircraft, detachments and other establishments maintained by the R.C.M.P. throughout the country.

Appointed as the Canadian representative to Interpol in 1949, the Force established communications with police organizations world-wide.

The early 1950's saw the installation of Telex equipment to the R.C.M.P.'s growing communications system and in 1967 wirephoto facsimile was also added. A document fax system was also added in the mid-'80's. Because the latest additions to the modern telecommunications equipment to the Forces growing communications facilities, Telex use is now minimal.

#### R.C.M.P. Communications Today

Wirephoto and document fax allow the reproduction of photos, fingerprints, and documents to be transmitted across the country. This network has kept pace with technology and now reaches all subdivisions and detachments across Canada.

The total number of persons Forces-wide engaged in communications activities exceeds 1,000. The Force's telecommunications network is reported to be the largest non-military mobile communications system in the world. It comprises approximately 7,000 mobile radios, 7,000 portable radios, 1,021 detachment base stations, 520 repeaters, 55 communications centres and 50 workshops.

#### GROUNDWAVE SWAP SHOP

This space is available free to members to post their "ads". If you'd like to post a sale or want item, you can reach me, Ed, VA3ES, at the club meetings, or you can call it in: Telephone: 738-8924, packet: VA3ES@VE3KYT.#EON.ON.CA.NA.

#### FOR SALE

- Assorted panel meters: round, square, 2" to 4", for your homebrew or restoration projects. Ammeters, voltmeters, milliameters, etc. You name it, I got it! Prices vary from \$2.-\$10.
- Beautiful enclosed 6 foot rack, Motorola, with locking front and rear doors. Perfect for repeater or similar. Perfect condition, in classic grey and tan Motorola colors, with meter panel and speaker. \$50.
- Assorted transformers, can-type electrolytic caps (new-stock), parts, original hardware, etc., etc. If you have a tough restoration project or are looking for distinctive, classic hardware and parts, I have it!
- 10,000 tubes. From the most mundane 6AU6 to that rare #224, I got it!
- Very fine Tektronix and Hewlett-Packard 'scopes. General Radio type 1163A frequency synthesizer. High quality, heavy duty, solid state military power supplies (+12 VDC, -15VDC, -100VDC), regulated and metered. Also heavy duty power supplies (+12VDC, -15VDC, -30VDC).
- Eddystone receiver modules for model EC958/3 receiver: LP3272 100Khz Cal., LP3055A 935 Khz IF, LP3045 1 Mhz Osc. All new spares.
- Large power supplies, with very heavy duty Hammond components. 160 VDC, 750 VDC, filament supply, chokes, etc. Transformers are 1500 VAC center-tapped. Perfect for large power supply projects, or linear.

As prices vary on many of these items, please inquire about what you need.  
Contact: Carl Morin, VA3CGM, 613-523-8792

**FOR SALE**

4-400A, pulls, low hours \$40. ea.  
 4-250A, new, \$45. ea.  
 4-250A, pulls, low hours \$35. ea.  
 Vacuum Variable capacitor, 1000pF/7.5 KV  
 \$75.  
 H.V Xformer, 2500VCT@900 mA \$30.  
 Other plate transformers suitable for 1  
 KW linears available.  
 Contact: Ed Sieb, VA3ES, 613-738-8924

**1996 QCWA INTERNATIONAL CONVENTION****"A Capital Idea"****The National Capital Chapter****No. 70**

Quarter Century Wireless  
 Association  
 (QCWA)

**WELCOMES YOU**

to the

**1996 QCWA  
 International Convention**

**4-5 October, 1996**

at the  
 Citadel Inn,  
 101 Lyon St., Ottawa,  
 Ontario, Canada

**RAC LOGO CALL SIGN LICENCE  
 PLATES TO PROCEED IN ONTARIO**

**Ontario Amateurs:** As a result of your support and interest, the RAC call sign licence plate project, a part of Ontario's "Express Yourself" program, is proceeding.

By the end of September, you will be able to order licence plates imprinted with the red, black and white RAC logo.

To obtain your set:

- 1) Send a cheque payable to RAC, in the amount of \$52.10 to the RAC Administrative Office, 614 Norris Court, Unit 6, Kingston ON K7P 2R9 (sorry, no credit cards on this project).
- 2) In return, you will be sent a gift certificate to redeem at the nearest Ministry of Transportation Ontario (MTO) Driver and Vehicle Licence Issuing Office.
- 3) Provide the Ministry office with proof of your Amateur Radio licence.
- 4) Remember, because the plates must be imprinted with your unique call letter, they will not be available immediately. Delivery of the plates will be within four to six weeks of placing your order with the MTO.

It will also be possible to have the RAC logo put on existing personalized plates and for the same \$52.10 your vehicle will sport the RAC logo too. The gift certificates available from RAC are also redeemable for these upgrades.

Customers will continue to be able to place orders for personalized and colour graphic plates by visiting any MTO Driver and Vehicle Licence Issuing Office, calling the toll-free number 1-800-AUTO-PL8 (1-800-288-6758), or by accessing one of the Ministry's ServiceOntario Kiosks.

de TCA Canadian Amateur

**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 the award this year 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 Communications Canada during the period June 1, 1994, to June 1, 1996;
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/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 November 6, 1996. No entries received after that date will be considered.
2. The club will send acknowledgement 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 submitted before the deadline.
4. Finalists may be interviewed by members of the Executive of the Ottawa Amateur Radio Club Inc. or the panel of judges or both.

5. Submissions will not be returned unless accompanied by a self addressed stamped envelope.

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 Fund to be awarded in subsequent years.

7. The decision of the Executive of the Ottawa Amateur Radio Club Inc. in the selection of a recipient of this award is final.

8. The winner will be notified on or before November 13, 1996.

9. The winner will notify the Ottawa Amateur Radio Club Inc. of his or her acceptance of the award no later than November 20, 1996.

10. The award will be made during the regular club meeting in the month of December 1996.

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

**SEND YOUR ENTRY, TO BE RECEIVED NO LATER THAN NOVEMBER 6, 1996, TO:**

The Joe Norton Trust  
Award for Amateur Radio  
The Ottawa Amateur Radio Club  
P.O. Box 8873  
Ottawa, Ontario  
K1G 3J2