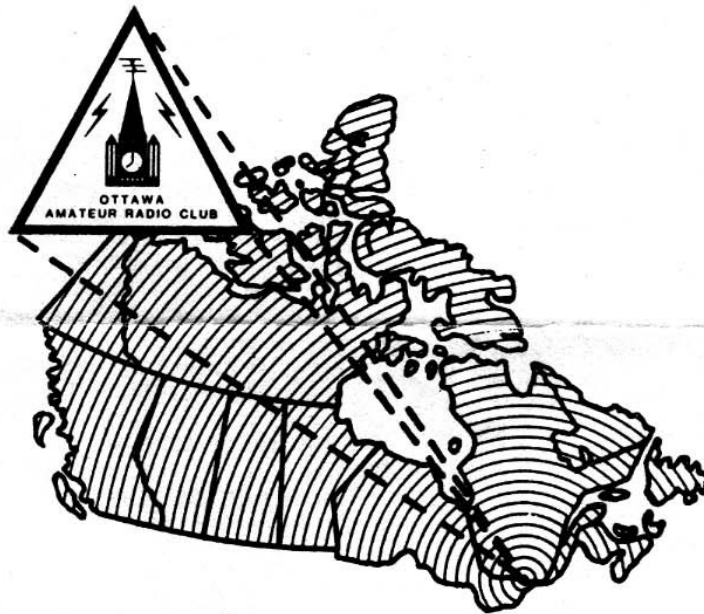


DECEMBER 1987

THE GROUNDWAVE



**NEXT MEETING WILL BE ON
WEDNESDAY, DECEMBER 2**

Club Call VE3RC

Repeater VE2CRA



THE GROUNDWAVE
Official Bulletin of the Ottawa Amateur Radio Club, Inc.

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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) at the National Research Council Auditorium, 100 Sussex Drive, Ottawa, at 2000 hours. A bulletin board is available for posting notices of interest to other members about 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month in the Board Room of CFRA, 150 Isabella St., Ottawa, at 1930 hours. Contact the President to confirm the date of the next meeting.

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. They may get reprinted in far away places; and the family will be proud of you.

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.

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

SAFETY BELTS, 2-METER RIG AND AN ENGRAVING PENCIL are available for loan to club members. The 2-meter rig may be borrowed by members who are hospitalized. 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 member.

A \$100 refundable deposit is required for the belts. Contact the President for the 2-meter rig or the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) or Brian, VE3JKZ, at 523-1535 (East 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.

THE SWAP NET, is a service provided and conducted by Ed Morgan, VE3GX. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Ed Morgan at 733-1721.

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.

MINUTES OF THE OARC GENERAL MEETING OF NOVEMBER 4, 1987

The November general meeting was convened at 2003 hours local by Paul, VE3JLP, the vice-president.

Paul asked for corrections to the minutes: one was noted. The call VE2DZT was reported incorrectly as VE3DZT. The minutes were adopted as amended on a motion by Bill, VE3UD, seconded by Joe, VE2DZT - Carried.

Paul identified the following visitors to the meeting: Serge, Dick VE3FVA, Otto VE3HCD, Adrian IK2VAB, Bill Chapman, Rob VE7ESD, Mike VE7CXU, Wally Booker and Jean Desbiens.

John, VE3NVF, took over for Paul and introduced a new feature to the meetings: short product and/or short technical talks. John then introduced Chris, VE3PAE, to give a short product review of his Yaesu FT23R 2 M handheld.

Chris bought his handheld for about \$400. It features an aluminum/zinc case, out-of-ham-band coverage transceiver, 10 memories, priority scan and 2.5 W RF. Chris uses it for packet radio too.

John then invited Dan, VE3EBI, to read the latest CARF news bulletin. Dan described a new ham video tape, new Quebec CARF directors, a 2 MHz bandwidth 1 MW erp radar on the 440 ham band outside Toronto, USSR/Canadian special event permit for the polar expedition, CARF/DOC discussions on BP23 and VE6KG was closed down due to interference.

Ray, VE3FN, was then invited to give the latest CRRL bulletin. Ray reiterated comments about the radar Dan mentioned, noting that it had only come up in the past few weeks. Ray also noted that several senior hams had tried to scuttle the USSR/Canada agreement.

Harrie, VE3HYS, was proud to announce a new repeater controller has been placed on VE2CRA 440. It has a few bells and whistles and Harrie invited members to try it out - the repeater output is 443.3 MHz and input is 448.3 Mhz. A round of applause was given to Harrie and Gord, VE3PPE, for their continuing efforts.

Fred, VE3IO, described a problem he was having with power line noise on the HF bands. Initially it was pinpointed as a power substation but that was proven not to be the source. The source proved to be in Fred's neighbour's house. After many weeks Fred found the culprit: the timer switch in the clothes dryer had worn and was not turning completely off!

Gord, VE3PPE, described the October 31st flea market as a success. Ticket counts showed about 340 people attended and there were over 60 full tables rented.

George, VE3NJV, described his financial analysis of the flea market: \$950 was brought in, leaving a net profit of \$530.88. Also, \$92 was collected in sales tax.

John invited Paul to present his DX tips to members. Paul announced that he'd participated in the creation of a new 2 M repeater for the promulgation of DX information. It is called VE3XDX, located in Metcalfe, output on 145.11 Mhz, running 20 W and has a 30 second timeout. As it is in a test phase now, Paul is soliciting signal reports.

(continued on next page)

* Speaker for December 2nd Meeting *
* Gerry King, VE3GK *
* on *
* Antennas *
* *

Gerry, VE3GK, showed a number of slides of his 2 delta loop antenna system.

John declared coffee break at 2100 hours. Paul resumed the meeting at 2124 hours and introduced our feature speaker, Jim, VE3JPC.

Jim was recently down in Senegal demonstrating radio communications (in particular packet). He was introduced to the idea by Richard Curr, during a demonstration of AMTOR.

Dakar has 1 million people, in a city twice the size of Ottawa, with only two (2) public phones. The land is very dry and only where it is irrigated will things grow. A 1.6 KW solar electric plant was put in one place to power an electric motor to irrigate 40 hectares, but it was insufficient and now they use diesel engines.

The Reseau Africain pour le Developpement Integre or RADI was especially interested in communications that would link outlying posts to the main city. Computer links have the advantage of store and forward, accuracy of received/transmitted data and simplicity of set-up.

RADI wishes to install 9 stations, including a mobile and bulletin board station.

Those interested in this project can contact Jim.

The meeting was adjourned at 2207 hours on a motion by Chris, seconded by Ralph, VE3GG - Carried.

New Hams - get your application ready for the Joe Norton Award - more information in later issues.

P.O. Box 8873

It is unlikely that you have ever wondered about how we came to get such an appropriate post office box number. Well this is a little bit of trivia that a lot of the younger fellers will have no inkling about.

A number of years ago there was a post office on Besserer St. and we had Box 204 there. Well, as it came to pass that Post Office became redundant and was going to be torn down. So what was going to happen to our Box 204.

At about that time I was arranging for another Post Office box in the Central Terminal and the one that was assigned was 8872. I just casually inquired if 8873 might be free and by golly it was. I felt that this was the best compromise we could have because 7388 was long gone. Anyway it was sort of appropriate because Penny, VE3ERO, was president at that time.

So I made a tentative reservation for the box and had a quick consultation with Penny. So it was decided that since we had to get another box anyway, this was the time, and this was a good choice. So now you know whether you wanted to or not! And woe betide the Club Secretary or Treasurer who neglects to pay the box rental on time and loses that box number. Great QRN will rain down on you.

73, Gord, VE3DY

TECHNICAL FEATURE AT
DECEMBER 2nd MEETING

5 Minute Technical Talk - Harrie Jones, VE3HYS, on Modulation

5 Minute Technical Review - Gord Dey, VE3PPE, on the Yaesu 727 Handheld

RMOC AND EMARG

The Regional Municipality of Ottawa Carleton and the Emergency Measures Amateur Radio Group have a continuing relationship. When the Emergency Measures Organization (EMO) was disbanded as a separate organization in 1985, emergency planning changed hands a few times eventually ending up with the Transportation Department of RMOC. I took over coordination of EMARG at the beginning of 1986.

The Region then appointed me Emergency Planning Officer - Communications. In this position, I am responsible for organizing auxiliary emergency communications, coordinating frequency use during an emergency, and advising primary services on emergency communications. The Region has set up HF and VHF stations at the Emergency Operations Center at 222 Queen Street. These stations operate under the call sign VE3OCE (Ottawa-Carleton Emergency). New VHF gear has been purchased for the Regional Mobile Emergency Command Vehicle. We were consulted on the selection of gear for the vehicle to be used by the primary services (police, fire, ambulance/hospital). An emergency plan was written by the region and passed to us for review. We prepared an emergency communications plan to be published on completion of callout procedure. Two voice pagers have been issued to EMARG to allow quick activation of the callout tree. EMARG has participated in various exercises and training efforts. Various members have participated in providing communications for emergency training courses at the Emergency Preparedness Training College run by Emergency Planning Canada in Arnprior.

The Region and the Province have agreed to fund the connection to the provincial voice linking system coordinated by Harrie, VE3HYS. This system will allow Ottawa and Valley amateurs to link on VHF to many other

areas of the province. This system provided communications at the time of the Barrie tornado. There is a continuing requirement to keep our emergency participant list current. If you are on the list and don't want to be or are not on the list and wish to be, please call me.

In summary, EMARG is alive and well. I would like to thank VE3KMV, VE3PAE, VE3KKU, VE3PAP and many others for their active participation. Please help us by participating in the exercises being planned.

David Goldsmith
Emergency Planning Officer
Communications, RMOC

THINGS THAT GO BUMP IN THE NIGHT

Morris, VE3DEO, had a lengthy but colourful story in NORTOPICS, the bulletin of Nortown Amateur Radio Club, Willowdale, of interference that no one else could hear but which conveniently dropped out when the radio inspector came around. Morris described his tormentor variously as "armaments of the space age, video game arcade tweedle tweedle...zap", 24 hours a day all the way to 30 MHz, a rushing and thumping on 2 metres.

Eventually Morris did what he admits he should have done earlier. He ran around inside the house with his hand held two metre and located the culprit, a TV with a converter that contained an electric digital clock. Two RF chokes and two bypass capacitors installed inside the converter cleared that problem. My Bulgarian uncle would have said, "Don't blame the cow for the sour milk." He was a good man on cows but he didn't have much feel for EMI. (Ed.)

ANOTHER POINT OF VIEW

The following letter was received by VE3MR. As head honcho at 'ELECTRO SONIC', it was sent to him under the assumption that he is a manufacturer of home appliances and entertainment equipment.

March 5, 1987
Kanata, Ontario,
Canada, K2K 1X5

Dear Sir or Madame,

RE: District Court of Ontario
Action #1559/85
Houghtby v. Ravenscroft

This letter is being sent to you to advise you of a problem that affects consumers and manufacturers and to request your assistance.

On April 7, 1986, the District Court of Ontario issued a permanent injunction against a Kanata amateur radio operator preventing him from operating his radio in any way that interfered with his neighbours' appliances. His transmissions activated his neighbour's furnace and caused extensive interference with their stereo, electronic organ, televisions and radios. Suppressives filters, shields, toroids and groundings had been added to several of the appliances but did not prevent the interference. Contrary to various press reports the radio operator has not been completely prohibited from operating: he has only been prohibited from operating in a way that causes interference with his neighbours. He has, however, appealed the court's decision and has raised thousands of dollars from the amateur radio fraternity and others to pay for his legal fees. (His neighbours, Tim and Dale Houghtby, belong to no such organization that would help them with their legal fees.)

The suppression devices provided by some manufacturers in this case were ineffective to reject this radio amateur's frequencies and it may be possible that adequate suppression devices do not even exist. If the Court of Appeal agrees with the radio amateur, manufacturers may be held responsible in future for problems of this nature. Correction of these problems will increase the cost of manufacturing appliances. Also, the manufacturers could be subjected to the further cost of rectifying problems occurring in the thousands of appliances which have already been sold to consumers.

The amateur radio fraternity states that this case could cause major commercial operations to be shut down; however, those operations are closely regulated and monitored and rarely cause interference to the extent that this radio operator has caused.

We contend that it is the radio operator's responsibility to control his operation to prevent interference and that the Department of Communications is responsible to enforce the operator's licence, which states that "the Department at a future date may require the licensee to install filters, tone coding devices, reduce the effective radiated power and/or antenna height as appropriate."

The Department of Communications will not act to curtail this radio operator's transmissions and continues to maintain, together with the amateur radio fraternity, that the manufacturers are totally responsible for the problem that has been created. We hope that your company will agree with our stand that preventing interference is the responsibility of the radio operator and not the manufacturer and that you will help us to end this appeal by providing some financial assistance to us.

Appliances manufactured by your company could be among those affected by radio interference and your business could be affected if the radio operator's appeal is successful. We are also sure that you are a manufacturer who has the interests of the consumer at heart.

Please help by sending donations to:

Appeal Fund
P.O. Box 13318
Kanata, Ontario
K2K 1X5

(Receipts will be issued)

Thank you very much for your time and consideration.

Yours Truly,

Tim & Dale Houghtby

de SPARC-GAP, the Bulletin
of the South Pickering
Amateur Radio Club Inc.

(Ed. Note - pre-appeal skirmishes have been completed and the appeal date will be set shortly.)

The Flea Market netted \$530 this year, up about \$200 from last year. See the advantage of a convenient West-end location!

New Printing Process - please bear with us if this issue is not "up to scratch". We are changing our printing method and it may be an issue or two before we get into a good routine.

TREASURES THAT SHOULD BE BURIED

That other GROUND WAVE, the one published by the Saint Paul Radio Club, Inc. was the source of the following piece worthy of serious consideration. "AS I SEE IT - Last month, I, along with another long time club member visited the widow of a local Silent Key to help her determine the worth of the remaining items in the shack. Like many of us, this ham was a collector and prided himself of having a part for anything (built before 1960!). The widow thought she had a veritable gold mine; unfortunately she was disappointed.

The scene repeats itself year in and year out and lays heavily upon us who are called to help liquidate estates. It seems cruel to the widow to have to rent a dumpster to dispose of many of her husband's treasures. I would suggest that all hams, but especially those over 50, take a good look at all that junk they are storing in the basement, attic, or garage and get rid of anything that has not been used in the last 5 years.

If you think something is too valuable to throw out, get the opinion of another, preferably younger amateur. He may help you get a new perspective on things. This would also be a good time to make a log of all your station equipment and what it is worth. I would suggest that the figures be reviewed by another ham for realism. If you don't have the time or the stomach for doing the above, at least think about taking out an extra \$1,000 life insurance policy for the specific purpose of your junk. It's only fair!

(by Ron Jalubowski, K2RJ, via LERC Amateur Radio Club Bulletin.)" To which the Saint Paul GROUND WAVE editor appended a note pointing out that the Saint Paul Club has an appointed position shown in the list of club officers as "Estate Sales Assistance." The incumbent listed is Dick Reichow, WOKMR.

OTAWA AMATEUR RADIO CLUB INCORPORATED

Statement of Income and Expenditures For the
Fiscal Year September 1, 1986-August 31, 1987

Expenditures	
Groundwave (Postage and Publishing)	\$ 1,657.43
Operating (Rentals, Prizes, Licences, Gift)	247.50
Administration (Insurance, P.O. box,)	338.75
Packet Radio	838.91
Advanced Radio Course	375.80
Joe Norton Award	780.00
Field Day Expenses (advance)	200.00
Miscellaneous	41.17
	<u>\$ 4,479.60</u>

Revenue	
Memberships 1986-1987	\$ 1,957.00
Memberships 1987-1988	186.00
Advanced Amateur Radio Course (Registration)	380.00
Flea Market	337.60
Packet Radio	652.74
Directories & Miscellaneous	97.18

Savings Accounts:	
Joe Norton Trust	\$ 780.00
Interest	77.48
Savings Account	54.83
Interest	54.83
	<u>\$ 4,522.81</u>

Excess Revenues over Expenditures for the Year ended August 31, 1987 43.23

[Signature]
Treasurer

OTAWA AMATEUR RADIO CLUB INCORPORATED

Balance sheet as at August 31, 1987

ASSETS	
Cash	
Bank of Nova Scotia Current Account	\$ 1,617.19
Bank of Nova Scotia Savings Account I	1,288.83
Bank of Nova Scotia Savings Account II (Joe Norton Trust Fund)	2,471.24
	<u>\$ 5,297.26</u>
Guaranteed Investment Certificate - 13%	6,000.00
Equipment	1.00
Incorporation Expense	680.00
	<u>\$ 11,978.26</u>

LIABILITIES	
Joe Norton Trust Fund	\$ 8,471.24
Surplus at beginning of the period	\$ 3,472.14
Plus: Excess of Revenue over Expenditures	43.23
Less: Adjustment	8.35
Surplus at the end of the period	<u>3,507.02</u>
	<u>\$ 11,978.26</u>

[Signature]
Treasurer

Mr. George Caskey,
Treasurer
Ottawa Amateur Radio Club Incorporated,
P.O. Box 8873
Ottawa, Ontario.
K1G 3J2

Dear George:

Please consider this the Auditor's Report for the Ottawa Amateur Radio Club for the 12 month period September 1, 1986 - August 31, 1987.

We have examined the Balance Sheet and the Statement of Income and Expenditures of the Ottawa Amateur Radio Club for the above mentioned period.

As a consequence, we are of the opinion that these financial statements present fairly the position of the Club as at August 31, 1987 and the results of its operations for the 12 month period then ended, in accordance with generally-accepted accounting principles.

Ottawa, Ontario,
October 19, 1987.

M.F. Lemke *Wm. D. Hanson*
M.F. Lemke Wm. D. Hanson





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

President	John Drajewicz	38 Fuller Street	722-1854
	VE3NVF	Ottawa, Ont., K1Y 3R8	952-1904
Vice-	Paul Cooper	R. R. 2,	821-2167
President	VE3JLP	Metcalf, Ont., KOA 2P0	
Secretary	Gord Dey	49 Stable Way	592-0680
	VE3PPE	Kanata, Ont., K2M 1A8	726-5219
Treasurer	George Caskey	19 Argue Drive	224-6415
	VE3NJN	Nepean, Ont., K2E 6S2	
Past-	Dan Holmes	33 Crownhill Street	746-0968
President	VE3EBI	Gloucester, Ont., K1J 7K5	
Directors	David Anderson	299A Craig Henry Avenue	225-0886
	VE3JTZ	Nepean, Ont., K2G 4E9	592-2122
	Bill Neil	1476-E Heatherington Rd.	521-4966
	VE3WEN	Ottawa, Ont., K1V 6S1	990-0724
	Ralph Thomas	2180 Benjamin Ave.	729-9252
	VE3GG	Ottawa, Ont., K2A 1P4	
Packet Group	Dick Atkinson	20 Mancil Drive	825-5619
Chairman	VE3JBO	Nepean, Ont., K2J 2J5	
Repeater	Harrie Jones	2-147 Arlington Avenue	237-6427
Chairman	VE3HYS	Ottawa, Ont., K1E 5S6	233-6241
Net Manager	Wayne Greenough	5 Summer Street	836-5320
	VE3JSQ	Kanata, Ont., K2L 2L3	724-5464
Emergency	Ken Kendall	777B Springland Drive	731-0892
Coordinator	VE3IHX	Ottawa, Ont., K1V 6L9	
EMI Committee	Ralph Cameron	30 St. Remy Drive	825-1634
Chairman	VE3BBM	Nepean, Ont., K2J 1A3	225-2850
Membership	Peter Hafichuk	118 Ivy Crescent	745-0608
Chairman	VE3LBW	Ottawa, Ont., K1M 1X6	993-1740
National Cap.	Brian Summers	2231 Hillary Avenue	523-1535
Award Manager	VE3JKZ	Ottawa, Ont., K1E 7H7	996-7885