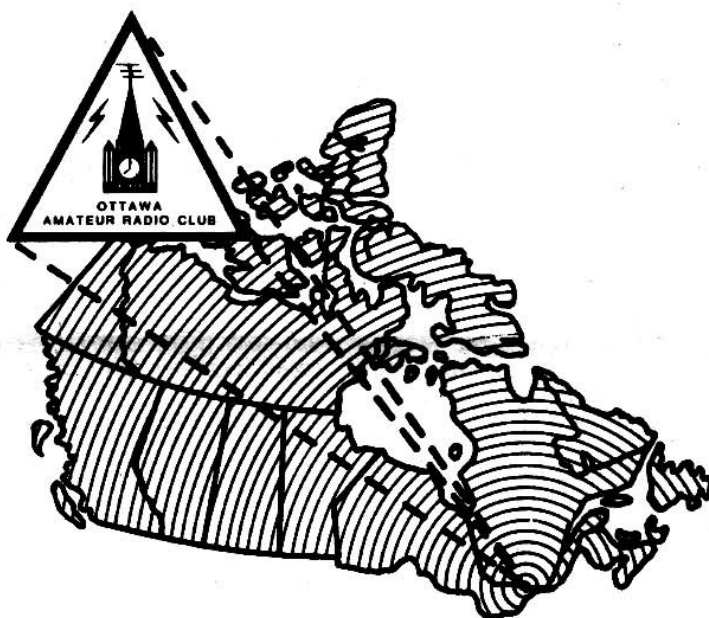


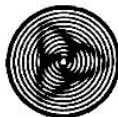
MARCH 1987

THE GROUNDWAVE



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 FEBRUARY 4, 1987

The meeting was convened at 2004 hours by the president, John, VE3NVF. John welcomed visitors Mike McDermot and Jean Desbiens with an invitation to help themselves to a free coffee and Groundwave during the coffee break.

John asked members present if there were any corrections to the minutes. Merve, VE3CV, noted that there are about 40 amateurs and 20 repeaters linked in Quebec, and the CRRA is only considering upping its dues. Mailes, VE3AP, clarified the CRRL/CARF situation: talks are going on at the President/Vice-president level and no name has been decided yet. With these considerations, Mark, VE3OWL, and Bill, VE3KEB, seconded.

Roy, VE3FN, then stood to tell members that Ralph, VE3BBM, another member, had been chosen by the CRRL to receive the prestigious Amateur of the Year Award. The award especially recognizes Ralph's work with Jack, VE3SR, and the Jack Ravenscroft Susceptibility Defence Fund. Ralph stood, received his plaque, beamed and thanked members and the nominating committee for their work and support.

Harrie, VE3HYS, then came down to the front of the auditorium to talk a bit about the Ski Marathon on February 7-8. Communications will start off with repeaters VE2RM and VE2RBA, moving to VE2CRA by Sunday. Ski sweeps will use 146.520 simplex to accommodate crystal radios. Also, next weekend is the Gatineau 55.

Merv, VE3CV, stood to talk about RSO. He was in Kingston a week ago Saturday and RSO is having economic and membership problems. Although there was no convention last year, they are hoping to hold one this year with the Newmarket fleamarket. RSO hopes to coordinate clubs and act as a

liaison. Clubs are asked to send copies of their newsletters, there is an award drawn annually. RSO is also trying to coordinate and publish a packet repeater directory. Apparently RSO lost membership data last year due to a computer problem.

Dave, VE3JTZ, described the results of this month's monthly code exam: of the two applicants, one passed his advanced and the other almost passed his basic. Congratulations to Paul and see-you-in-March to Tim.

Mike, VE3PDE, told members he had brought in old copies of other clubs' bulletins and members were free to take home those they wanted.

John had to pass on Paul's regrets - no DX tips this month - and introduced our guest speaker.

Dr. Ted Hayes, VE3EQV, G4XUM, took the stage and gave a presentation on Search And Rescue Satellites (SARSAT).

The SARSAT program began in 1972 with DOC's research into better locating techniques for distress signals. Oscar 6 was used to demonstrate a polar orbiting satellite could determine the location of a special 2m beacon within several Km.

The location technique involves analysing the slope and zero-crossing of the doppler-shifted beacon as the satellite receives it.

The first practical use of the SARSAT system happened only 9 days after testing began, in the fall of 1982 - three people were rescued from a plane crash in northern B.C.

Now the SARSAT program has the cooperation of USA, USSR and France too. Sensitivity is 0.5 mW at 121.5 MHz and 3.0 mW at 406 MHz. Sensitivity has led to detection of ELTs in postal stations, trains, a

voyageur bus and even an antenna-less unit in a pilot's basement!

A new frequency, 406 MHz, is being planned for future ELTs. The ELTs will operate in a 1% duty cycle burst mode and digitally encode information such as vehicle type (airplane, boat), registration, etc.

Ted brought in several samples of ELTs and answered many questions before the coffee break, which was declared by John at 2150 hours.

At 2210 hours the meeting resumed long enough to have a motion by Mark, VE3OWL, seconded by Mailes, VE3AP, to adjourn the meeting. All seemed in favour - CARRIED.

DO YOU KNOW WHERE YOUR
2 METER MIKE IS?

All parent hams, please check your 2 meter rigs. A 12-14 year old boy has been heard on VE2CRA and simplex - apparently without a license.

ALL BUROS SLOW

When I got my Novice Ticket, my four youngsters were fascinated by my new hobby. They would gather in the radio shack, hang over my shoulder and try to puzzle out what I was copying. I encouraged their interest, knowing they would learn quite a bit of geography and maybe even a little code.

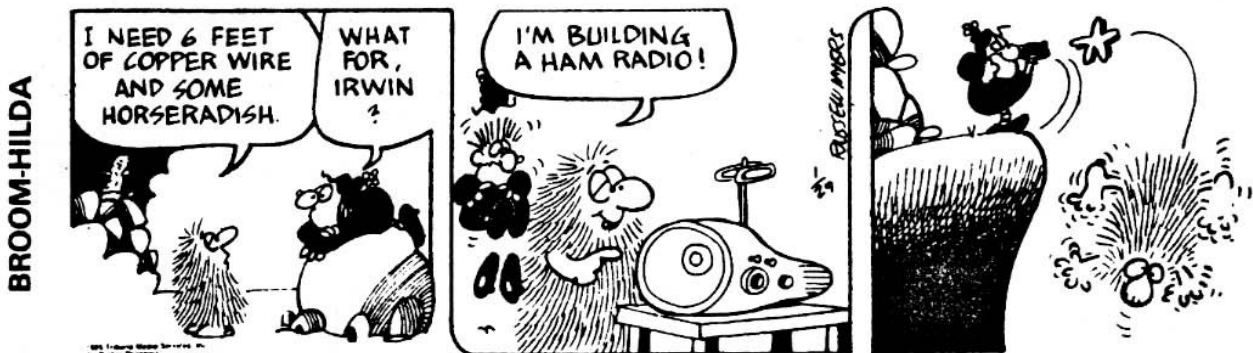
After a QSO I would explain what the abbreviations and peculiar spellings meant. Someone should have explained ONE of them to me...

My first DX contact was an XE, and the kids were as excited as I was. They waited quietly during the whole contact. Finally I copied "...if ur gud in book will QSL via buro..."

After I signed, my oldest exclaimed, "Oh, boy, Mexico! Is he going to send you a card, Mom?"

"You bet he is," I assured him. "But it's going to take awhile. He's sending it by burro."

de The Ground Wave,
the Bulletin of the Saint
Paul Radio Club Inc.



de The Kilowatter,
Bulletin of the Kitchener-
Waterloo Amateur Radio Club Inc.

MISCELLANEOUS

1. The Joe Norton Award is being run again. Note that eligibility now extends over the past 2 years - this is to allow a new ham more time to get oriented in the pastime.
2. The April meeting will host home-brew night. Try to call Paul Cooper (VE3JLP) at 821-2167 in advance if you are entering (but if you have some last-minute home-brew marvel, bring it along anyway).
3. A "problem forum" will be introduced experimentally at the March meeting. This will give you a chance to find someone with the answer to your (ham) problems. If it is successful, it will become a permanent feature.
4. Ralph Cameron received an award - Ham of the Year - from the CRRL for his work on EMI and the JRSF Fund. Congratulations and thanks Ralph.
5. Ben Tolley, VE3MPD, from the Remote Control Club will be talking about radio controlled models at a future meeting (probably May).

MEMBERSHIP SURVEY

Are you interested in what other members of the OARC are doing? Since the membership form contains a questionnaire it wasn't too hard to find out - except that 40 very private individuals didn't fill in the stats section. Well, too bad for them - they are left out and not included in the percentages.

<u>Total Membership</u>	165	
<u>Number of responses</u>	125	100%
2m band users (most popular band)	90	72%
Having portable 2m rig	78	62%
20m users (most popular HF band)	79	63%
40m users	75	60%
80m users	71	57%
6m users (least popular band)	31	12%
<u>Interested in:</u>		
UHF	86	69%
VHF	72	58%
Antennas	34	27%
Homebrewing	32	26%
Satellites	17	14%
Contesting	15	12%
<u>Mode:</u>		
CW	80	64%
SSB	78	62%
FM	74	59%
Packet	15	12%
RTTY	7	6%
SSTV	3	2%
FSTV	2	1%
<u>Affiliations:</u>		
CARF	70	56%
CRRL	49	39%
RSO	19	15%
AMSAT	10	8%
RAQI	6	5%
EMO	29	23%
WIA		1-write-in
ARRL		2-write-in

CB VIOLENCE

An 11 meter CB transceiver in La Habra, California, has been shot to death by an armed intruder. According to the Orange County Register, Dennis Garrico was talking on his CB set after midnight when he sensed he was no longer alone. Garrico turned and saw a stranger with a gun standing over him. The gunman ordered him to turn off the CB and move away from it. Garrico obeyed, after which the visitor shot the CB three times and quietly left. Garrico was not harmed, but his \$500 transceiver was destroyed. Police theorize that the attack was in retaliation for TVI.

Tnx ARRL Newsletter and the RARA Rag published by Rochester Amateur Radio Association, Inc.

IN OUR SHACK

Our ham shack is a lousy pit,
 But, that's where we always seem
 to fit,
 Our filaments are always lit
 Our XYL is sometimes in a twit.
 In QSO we are quite a wit
 But oftentimes we throw a snit.
 At our rig we sit and sit
 If no DX, then we could spit.
 Guess we should up the power a bit;
 One thing is sure--we'll never quit.

by Charly Vorderberg, WOCCT
 via ARNS Bulletin

de Bulletin of the Saint
 Paul Radio Club

SKI MARATHON

February 7 and 8 was the weekend the Canadian ski marathon took place. This year there were 36 amateurs out on the marathon to provide safety and administrative communications. The net started operation about 6 p.m. Friday. Saturday's weather was excellent and as Sunday developed into a nasty blizzard the net didn't shut down until after 8 p.m. Sunday.

I would like to thank all those who gave up all or part of their weekend to be a part of the marathon communications this year.

I hope I have not forgotten anyone. Those who participated are:

John VE3MPF, Souly VE2FFS, Fred VE3OAF, Mel VE3OJN, Bill VE3IDC, Harrie VE3HYS, Arline VE3KMR, Arlyn VE3AOE, Dave VE3KRV, Brice VE3EDR, Chuck VE3PAP, Andy VE3KIZ, Bill VE3WSN, Verna VE3ASM, Sydney VE3GVI, Carl VE3BYX, Barb XYL/VE3BYX, Mark VE3OWL, Dave VE3JTZ, George VE3NPN, Chris VE3PAE, Art VE3ZS, Dave VE3JBX, Dave VE3GSA, John VE2VQ, Keith VE3GFI, Mike VE3FFK, Rick VE3HVA, Eric VE3KIH, Doug VE3OSL, Ed VE3HCA, Henry VE3OMU, Rene VE3LOT, Peter VE3LBW, Dave VE3JSD, Garth VE3EOF and Stan VE3OWK.

In addition, George VE3BNO, Bob VE3CDG, Brett VE3JLG and Hugo VE3KTN provided equipment for the weekend.

Thank you for volunteering and I hope you all had a good time.

73,
 Harrie

AMATEUR SUSCEPTIBILITY

The past year has brought to light many solveable cases of appliance electromagnetic incompatibility. While many of these cases relate to Amateur transmissions, almost as many do not. Data for these statistics are difficult to find. Again, the problem does not exist if it is not discussed openly. It will not be discussed openly until reasonable options are available to assist the resolution of the problem. Amateurs are not alone. All licensed transmitter services are prone to interact with electronic appliances in the immediate area of the antenna. Amateurs as well as the General Radio Service users are more intimately placed in the environment and in fact, are often but a few feet from susceptible appliances.

The closer one examines the enigma of lack of immunity and its alter ego susceptibility, the more one appreciates the frustration a newcomer to Amateur Radio must accept. Operation in an urban environment is a fact of life - most of us have grown with the expansion of subdivisions and highrises. A reality, apparent today, is the close proximity of neighbours. Real estate is expensive, housing lots are smaller, condominiums and apartments are the accommodations of a transient city workforce.

The proliferation of entertainment devices is the choice of today - they're also big business, in spite of the fact they are made in the Far East and carry Canadian labels. CSA labelling is probably one of the most stringent requirements an off shore manufacturer can meet, if he is going to guarantee the best safety.

Where safety is concerned most manufacturers understand legal liability. It is difficult to rationalize that almost all electronic appliances lack any form of built in

immunity. At the present time transmitter owners and owners of non immune appliances have a conflict - how serious that conflict is depends on proximity. Is relief in sight?

Amateurs have a legal responsibility as well as a moral one to respect the electromagnetic environment - just as much as any other user who shares the spectrum. To assist in the resolution of the problem caused by lack of immunity perhaps, the time has come to reduce the maximum power permitted the Amateur Service. The notion of using less power is not an unreasonable one when the advances in communication technology are considered. Whatever happened to the Amateur credo of, "minimum power required to maintain communication"?

In this day and age of close neighbours there is no reasonable excuse to "boil the paint off his roof" with excessive power levels. We may soon find such practice is indeed detrimental to one's health. Studies are presently being undertaken to this effect in the United States.

I for one, subscribe to sensible operating practices and keeping peace with one's neighbours - many, many Amateurs similarly accept this aspect of our hobby. As responsible Amateurs we should be sensitive to the needs of other spectrum users and this includes neighbours. This concern should be paramount above any selfish interest high power might engender. The concern is that those not privileged to use transmitting equipment should be guaranteed safety from its effects. To expect any less is to not be a compatible Amateur.

By following judicious use of the spectrum and with reasonable power levels we can expect to earn the respect of those who are attempting to resolve this electronic blight called susceptibility.

The argument is often made that we need kilowatts to battle kilowatts, south of the border. Wouldn't it be wonderful if we decided collectively to put some skill back into this challenging and changing, all consuming endeavour and limit our power to the antenna to normal transceiver outputs. Think of how it would help the spectral pollution we now experience. It's time to overhaul our approach to practical problems, with practical solutions. I'm for being compatible and I hope you are too.

73,

Ralph Cameron, VE3BBM
30 St. Remy Dr.
Nepean, Ontario, K2J 1A3

NET INFORMATION?

Interested in having a list of VHF and HF nets which may be joined from the Ottawa area? If anyone knows of or operates on any, please provide the name of the net, frequency and schedule to Mike James, VE3PDE, at the general meeting or call him at 728-8867.

A sense of humour is what makes you laugh at something which would make you mad if it happened to you.

de Bulletin of the Peel
Amateur Radio Club Inc.

MORSE CODE SIMULATOR

The following program is a Morse Code Simulator for the TRS-80 Model 100. It accepts input of letters, numbers and ".". The last letter must be an invalid sign.

```

10 '
20 'MORSE
30 '
40 CLEAR300:CLS:DIMA$(90)
50 FORX=46TO57:READA$(X):NEXT
60 FORX=65TO90:READA$(X):NEXT
70 INPUT"SPEED (WPM)";V
80 V=1/V:V=V*350
90 LINEINPUT"MESSAGE: ";M$:L=LEN(M$)
100 FOR X=1TOL
110 '
120 'TRADUCTION DU MESSAGE EN MORSE
130 '
140 B$=MID$(M$,X,1):C=ASC(B$):IFC>90
    THENC=C-32
150 IFC=32THEN GOSUB290:X=X+1:GOTO140
160 FORY=1TOLEN(A$(C))
170 C$=MID$(A$(C),Y,1)
180 IFC$="s"THEN SOUND2000,3:GOSUB270
190 IFC$="1"THEN SOUND2000,9:GOSUB270
200 IFX=L THEN GOSUB290
210 NEXTY:GOSUB280:NEXTX:GOTO90
220 '
230 'ROUTINE DE CODAGE DES CARACTERES
    ET DE DELAI
250 DATAslslsl,1ssls,11111,s1111,
    ss111,sss11,ssss1,sssss,1ssss,
    1lsss,111ss,1111s,s1,lsss,sls,
    lss,s,ssls,1ls,ssss
260 DATAss,s111,ls1,slss,11,ls,111,
    s11s,11s1,sls,sss,1,ssl,sssl,s11,
    lss1,ls11,1lss,1lss11
270 FORZ=1TOV:NEXT:RETURN
280 FORZ=1TOV*3:NEXT:RETURN
290 FORZ=1TOV*7:NEXT:RETURN
340 REM

```

from Hobbytronix - tnx
to Jean Desbiens

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 \$800.00.

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 the Department of Communications during the period April 1, 1985, to April 1, 1987;
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 April 1, 1987. 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 August 1st.
9. The winner will notify the Ottawa Amateur Radio Club Inc. of his or her acceptance of the award no later than August 15th.
10. The award will be made during the regular club meeting in the month of September.
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 APRIL 1, 1987, TO:

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



<u>The Ottawa Amateur Radio Club, Inc. Box 8873, Ottawa, Ont. K1G 3J2</u>			
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	VE3NVF	Ottawa, Ont., K1Y 3R8	952-1904
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Secretary	VE3JLP	Metcalfe, Ont., KOA 2P0	
	Gord Dey	49 Stable Way	592-0680
	VE3PPE	Kanata, Ont., K2M 1A8	726-5219
Treasurer	George Caskey	19 Argue Drive	224-6415
	VE3NJV	Nepean, Ont., K2E 6S2	
Past- President	Dan Holms	33 Crownhill Street	746-0968
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	David Anderson	299A Craig Henry Avenue	225-0886
	VE3JTZ	Nepean, Ont., K2G 4E9	592-2122
	Mark Farey	26 Naismith Crescent	592-2522
	VE3OWL	Kanata, Ont., K2L 2K8	592-2122
	Ralph Thomas	2180 Benjamin Ave.	729-9252
	VE3GG	Ottawa, Ont., K2A 1P4	
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	VE3JBO	Nepean, Ont., K2J 2J5	
Repeater Chairman	Harrie Jones	2-147 Arlington Avenue	237-6427
	VE3HYS	Ottawa, Ont., K1R 5S6	233-6241
Net Manager	Bruce Lauer	10 Winlock Crescent	829-9471
	VE3MJV	Nepean, Ont., K2G 3X4	957-1825
Emergency Coordinator	Ken Kendall	777B Springland Drive	731-0892
	VE3IHX	Ottawa, Ont., K1V 6L9	
EMI Committee Chairman	Ralph Cameron	30 St. Remy Drive	825-1634
	VE3BBM	Nepean, Ont., K2J 1A3	225-2850
Membership Chairman	Peter Hafichuk	118 Ivy Crescent	745-0608
	VE3LBW	Ottawa, Ont., K1M 1X6	993-1740
National Cap. Award Manager	Brian Summers	2231 Hillary Avenue	523-1535
	VE3JKZ	Ottawa, Ont., K1H 7H7	