

NOVEMBER 1979

# THE GROUNDWAVE



The Official Bulletin of the  
**OTTAWA AMATEUR RADIO CLUB**  
p.o. box 8873 Ottawa, Ont. K1G 3J2

*The Ottawa Amateur Radio Club is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio Communications in the Ottawa regional area and the advancement of the technical competence and achievement of Club members.*



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OTTAWA AMATEUR RADIO CLUB

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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 Ottawa regional area and to promote the advancement of the technical competence and achievement of Club members.

THE REGULAR MEETINGS of the Ottawa Amateur Radio Club Inc. are held on the first Wednesday of every month except July and August. Meetings are held in the National Research Council Auditorium, 100 Sussex Drive, Ottawa at 2000 hours. See page 5 of this issue for details of the next regular meeting.

THE OARC INC. EXECUTIVE meets normally on the second <sup>Wednesday</sup> following the regular Club meeting in the Board Room of CFRA, 150 Isabella St., Ottawa at 2000 hours.

THE CAPITAL CITY NET meets every Monday evening at 2000 hours on the Club repeater, VE3CRA (146.34/146.94), to pass traffic and make announcements of interest to Amateurs in the Ottawa regional area.

THE SWAP NET, a service of the Ottawa Valley Mobile Radio Club Inc., and conducted by Ed, VE3GX, is repeated on the Capital City Net except during the months of July and August. To list items or make enquiries, contact Ed at 733-1781.

THE GROUNDWAVE is the official bulletin of the OARC Inc. Material published herein does not necessarily represent the official Club viewpoint. Items may be reprinted by Amateur Radio or similar publications provided that proper credit is given.

DEADLINE FOR COPY is the third Saturday before the regular meetings for articles of length and the second Saturday before the regular meetings for short paragraphs and announcements.

AN ENGRAVING PENCIL is available to OARC Inc. members to mark their valuables for positive identification in case of loss or theft. For further details, contact Penny Robinson, VE3ERO, at 225-1276.

MAUREEN NEILL, VE3FZY, has offered to visit any Amateur confined to the Civic Hospital. If you know of anyone who would appreciate a visit, call Maureen at 725-4581 (or after 5:30, at 233-9941).

RENEW YOUR GATE AND APRIL MEMBERSHIPS through the OARC Inc. and save M.O. fees, postage, etc. - and the Club also benefits. Contact Brian Barsalou, VE3LEK, at 829-7340 for further details.

DOMINION STORE CASH REGISTER TAPES are being collected by the OARC Inc. for a worthwhile cause (contact any member of the Executive for further details). So save up your tapes and get your neighbours and friends to do the same and hand them in to any member of the Executive at your convenience.

Minutes of the Ottawa Amateur  
Radio Club, Inc., 6 Oct 79

The meeting was brought to order by Larry, VE3CRX, President, at 2005. All members and visitors were welcomed. Visitors included VE3YK, VE3KLY, VE3Lvv, VE2FKC, VE2BHU and VE3LOR.

MINUTES OF THE SEPTEMBER MEETING

As there were no apparent errors or omissions of the September meeting as published in the Groundwave, a motion was made by Bert, VE3GCK and seconded by Murray, VE3JSO, to accept the minutes as published.

Larry, VE3CRX mentioned that Bud, VE3UD was operating at 2100Z on 14130 - 14140 - he is operating 4U1TU but primarily using VE3UD/ED.

COMMITTEE REPORTS:

Financial: John, VE3CXI, said there was \$235.22 in the chequing account and \$1,039.38 in the savings. We have received \$70.00 towards the 1980 membership dues. We had budgeted for approximately \$1,655.00 and have over \$1,787.00. There is still \$500.00 due from the Convention Committee. We have approximately \$2,600.00 in assets.

John explained that since we have become Incorporated, it was necessary to open new bank accounts. He had up until the meeting, made five separate trips to the bank to try and get things straightened out. We require a By-law which authorizes the Board of Directors to borrow money. The bank has insisted on this By-law to protect themselves in the event we have an over-draft. John said the Directors were reluctant to have this By-law because they don't foresee any event which would necessitate an over-draft, but that the bank refused to open an account for us without it. There was quite a bit of discussion from the floor and Larry explained that with the Incorporation, the Directors were only protected from incompetence, not fraud. This meeting was notice of intent and that the proposed By-law would be published in the Groundwave.

Shinerama: Larry, VE3CRX, said he didn't get the final figures, but they made approximately \$8,000.00 or less, and that there were 60 students and 35 amateurs. The figure from 2 years ago was \$22,000. The amateurs were thanked for their support.

Convention: Penny, VE3ERO, said things are going famously. There are some banquet tickets left, but people were asked not to wait until the last minute to get them. Penny also mentioned that the Club hasn't had a Social event for two years, and this was a chance to get together, not only with local amateurs, but with amateurs from all over. Penny pointed out that we are the Host Club and should have a good showing. The raffle prize will be an IM 4100 Digital Frequency Counter - the fourth amateur prize is a beam and rotor, and the first prize the 35ASR. Ray, VE3JRX, is handling the Flea Market, and has tables left. There will be 18 Commercial.

(Continued on page 4)

MINUTES OF THE PREVIOUS MEETING (Continued from page 3)

displays; one of the companies planning to attend found they couldn't - Lindsay Antenna, and with their regrets sent us another antenna. Tommy Lott's talk is going to be video-taped by Sandy Cameron. Jim Hatch, VE3GIJ, told about the registrations coming in from all over and said he hoped the Ottawa people would support it. Rick, VE3HVA, said that if we were interested he could purchase the next largest size of bins for the O.A.R.C. INC. Flea Market table. The ladies program is all set-up - the trip to the Kitten Factory, the Luncheon, the tours are all arranged and there are super prizes for the ladies, including the Electrohome Microwave Oven, compliments of Electrohome and Gordon McIntosh Sales Ltd., in Chrysler.

Outstanding Items: Larry, VE3CRX, said we still had a few outstanding items to be taken care of; 1) In January, we will need a new Editor for the Groundwave - talk to Carl, VE3BYX, and see what it involves. 2) Nominations for the Ottawa Amateur Radio Award - this is the 3rd year for the award. Send in your nominations and let the Committee decide. 3) We need five people to form the Nominating Committee for next year. 4) Keep the Dominion Cash Register Tapes coming in - our goal is ONE MILLION DOLLARS worth.

New Business: The Incorporation of the Club authorizes 10 Directors. At present, we have 7, which leaves us with 3 positions vacant. Larry suggested the 3 additional Director positions be appointments rather than people being voted in, and would be 1) the Past-President (for continuity), 2) the Groundwave Editor and 3) the Chairman of the Repeater Committee. Larry said this could take place after the January election and that it wouldn't require a change to the By-law, but there would be a formal note in the minutes. The other 7 positions would be elected.

Bunny Hunt: - will take place sometime in November.

Merv asked if some members of the O.A.R.C. Inc. would help the Mobile Club at the Science Museum with VE3JW, on Saturdays from 2-4. They have slow-scan, HW 101 and SB200 linear. Two amateurs are on duty - one to operate the equipment and the other to answer questions.

Bill, VE3NR, said that W.A.R.C. got off to a shaky start. It took 5 days to get a Chairman, because the third-world countries wouldn't agree to the choices. Bill gave a brief run-down on what was happening during the various discussions and said although things didn't look very bright for amateurs, it would be some weeks before we know how things are going.

Doug, VE3CDC, mentioned that the U.S. can't use ASCII and the FCC is looking into it. He also mentioned that France is using F9WARC. If anyone is interested, CRC requires 2 technicians. There is some travel involved and the work is on HF radio telephone equipment.

(Continued on page 5)

THERE ARE TWO WAYS OF BEING RICH -----

-----one in the abundance of your possessions and the other in the fewness of your wants!!!



MINUTES OF THE PREVIOUS MEETING (Continued from page 4)

Home Brew Night: The judges are: Ray, VE3CUA, Paul, VE3ICV and Gord VE3DY. Ray mentioned that there were 3 or 4 items more than last year, and that the prizes would be subscriptions to magazines. Entries were from: Gordon, VE3JQY; Brian, VE3JKZ; Dave, VE3KMW; John, VE3JSE; Chris, VE3CBK; Dave, VE3LAO; Larry, VE3CRX; Roland, and Wayne, VE3CZO. The winners were Brian, VE3JKZ, Dave, VE3LAO, and John, VE3JSE - Dave, VE3LAO won the Technical Achievement Award.

Brian, VE3BRE, won the draw - a VOM. Profit of \$5.85 was made on the draw.

As there was no other business, a motion was made by Ziggy, VE3GZS, and seconded by Rick, VE3EVA to adjourn the meeting at 2220. Marilyn Duncan, VE3JDS, Secretary,

A BUNNY HUNT is planned for Sunday November 18, 1979. The 'Bunny' will appear on 146.52 MHz about 1:00 p.m. and will transmit for approx. one minute in every five until 3:00 or 3:30. The 'Bunny' will use the call sign VE3RC/3 and no hints will be given and there will be no communication with the 'Bunny' at any time.

Prizes will be awarded to the first and second individual winners and to the first team (no more than three persons per team) winner.

So get your beams shined up, your loops calibrated and be ready for the big day! Tally-Ho!

1980 MEMBERSHIP FORMS appear inside the back cover of this issue. Remember to fill out the receipt portion ready for the signature of the Membership Chairman at the time of payment. Only paid-up members will be eligible to vote at the January meeting for a new Executive. See Ken, VE3PU, or one of his trusty assistants at the next meeting and avoid the last-minute rush!

THE NEXT REGULAR MEETING of the OARC will be held on Nov. 7, 1979 in the Auditorium of the National Research Council, 100 Sussex Dr., Ottawa at 2000 hours. As part of the program it is hoped that excerpts from the videotapes made at the recent Convention will be available for showing. In addition there will be discussion and decision on the proposed By-Law change and other items of interest yet to be arranged.

MAN'S WORST ENEMY is fear-----of work!!!

NOTICE TO OARC MEMBERS

At the General Meeting on November 7, 1979 at the NRC Auditorium, 100 Sussex Dr., Ottawa, the membership will be asked to approve a By-Law change as indicated below.

Presently, By-Law #1, para. 4 states in essence that the membership will elect 10 directors at the annual general meeting and para. 11 indicates that the elected directors at their first meeting shall elect a President and Vice-President from among themselves and appoint other Club officers who need not be members of the Executive.

It is proposed to change para. 4 to indicate that the members at the annual general meeting shall elect 7 directors to the following positions: Pres., V-Pres., Sec., Treas., Directors (3) and that the Editor of the Club Bulletin & the Chairman of the Repeater Committee as appointed by the Executive, and the Immediate Past Pres. (elected directors)

be members of the Executive to complete the required number of ten. The reference to the election of Pres. and V-Pres. in para. 11 will be deleted.

This change is intended to serve two purposes. First, it is to bring our new By-Laws more in line with Club tradition where the membership has annually elected members to specific offices. Second, the additional three directors (as required by incorporation) are specified as such to provide a certain amount of continuity from one year to the next in case of a massive turnover of elected officers.

The By-Law book will be available at the next General Meeting (Nov. 7) if anyone wishes to check the exact wording and a formalized wording of the changes as proposed will also be available for inspection.

THE 11th ANNUAL CONVENTION of the Radio Society of Ontario has come and gone and if you missed it, you missed a real bang-up do! Attendance totaled over 800 with over 600 in the Amateur Program and almost 200 in the ladies' activities.

The Ottawa Valley Mobile Radio Club Inc did a fantastic job of directing lost souls around Ottawa and of keeping others from getting lost.

All technical sessions and forums were well-attended and some were crowded. Four sessions were video-taped and replayed later on Saturday and hopefully will be available for Club showings at a later date. All Saturday sessions were audio recorded - see Page 9 of this issue.

Seventeen commercial exhibitors did a brisk business, in particular on their 'Convention Specials'. Several new calls have shown up locally on two metres as a result and no doubt on other bands and in other areas as well.

Amateurs and their wives took home almost fifty prizes from the hourly drawings and extra busses had to be added for the Glenayr Kitten Factory trip. You might know that the YLs/KYLs would get up early for a shopping trip - and then some were back Sunday morning again for the Stittsville Flea Market jaunt.

Music by Moxie Whitney kept the dance floor crowded both nights and Saturday's roast beef was superb. Ron (Rufo) Belleville did a precision job as MC at the banquet and followed the in-coming RSO President's, Croft Taylor, to "have that orchestra playing by nine o'clock!" - no mean feat for a talker like Ron!

Sunday morning events were well attended and a shortage of sellers plus many hungry buyers really paid off for those entrepreneurs who made it to the early morning Flea Market. One local seller realized almost \$200 from a few discards from his basement and his KYL is planning already for the next one. Another took in over \$60 in mainly 25¢ and 50¢ items - eat your hearts out you slackers who didn't show up!

A particular pleasure for the host Club was the selection of one of our Directors, Bud Funchard, VE3UD, as RSO's 'Amateur of the Year'. Bud received a well deserved standing ovation in absentia as he is in Geneva attending the WARC Conference. Bud had been informed earlier by Amateur Radio of his selection and a recording of

his acceptance was played for those present.

The major prizes are now well distributed around the country. The major Amateur prizes went to Montreal, Toronto, Ottawa and Elginburg (near Kingston). The raffle prize went to Sharon (near Newmarket). The Ladies Microwave Oven Prize went to Oakville, ~~another to Ottawa and a third prize was~~ another prize went to Ottawa and the third prize destination was not recorded.

Do you believe that your 'sins' come back to haunt you? Consider the winners of some prizes: Fred Towner received a CARF gift certificate; George Roach received some records from CFMO and Sandy Cameron received a book on "How to get Started in ATV".

Some memories of the Convention are priceless - like the expression on Leo Cave's face when he saw the 3EASR Tolotype, "I didn't know it was THAT big!", and Ron Belleville trying to look non-chalant while walking out of the hotel with the six-foot plant his wife won followed by the stage whisper "I don't feel so bad now, I only stole an ash-tray!".

From the Host Club, the Ottawa Area Amateurs and RSO - "Thank you for coming!". From the Convention Committee, "Thank you to all the many volunteers!". See you all again at the Prince Hotel in Toronto next October!

IT IS WITH MUCH SADNESS that we report the passing of several Club members.

Guy Eon, VE3IM, passed away while travelling in Europe.

Joe Norton, VE3PN, who was making such good progress from his latest operation, succumbed to another ailment.

Vic Valliere, VE5KHH, a white caner who had just assisted with the Convention activities, has also passed away.

Our sympathies are extended to all their families and friends. They will all be sorely missed.

#### REMINDERS

OARC Certificate of Merit Award nominations due by Nov. 30. See Oct. issue of THE GROUNDWAVE for details. (Page 6)

OARC Executive nominations are due by the end of December - no, it's not too early to consider what office you would be willing to assume (Hint: how about bulletin editor?) OARC Club Project is being considered. A regulated power supply, a keyboard keyer, other suggestions? Further discussion at next meeting.

INTERNATIONAL AMATEUR RADIO BEACON  
PROJECT

Last month we published an up-to-date list of ten-metre beacons supplied by Alan Taylor, G3DME. (That is, all except one which we wish to correct now - 3BEMS on Signal Mount, Mauritius operates on 28.210 and not as previously shown).

The following are some excerpts from further comments on the project by G3DME.

Although the 28 MHz beacon project was started as long as ten years ago, a number of recent contacts strongly suggest that the existence of many stations is not widely known, therefore they are not being used to anything like the extent they could be. This, therefore, is a summary of the inception, build-up and expansion of the network with an indication of further development of the project and suggestions on the use of the stations.

Before the present project, there had been a small number of 28 MHz beacons used for propagation studies, notably GBSLER during the IQSY (1964-5), ZC4WR (1965-5), ZDYWR (1968) and DLQAR. These beacon transmitters used frequencies around 29 MHz. The last-named station was used by the Max Planck Institute specifically for studying auroral propagation.

At the beginning of 1968, the German Society, DARC, stated the essential features of an organized network of transmitters to be run by amateurs on the 21, 28 and 50 MHz bands, together with a companion organization of receiving stations - the World-wide Observation Programme (WOP). The proposal for this World-wide Network of Amateur Radio Beacon Transmitters (WAB) (Now known as IEP to avoid confusion with the Worked All Britain (WAB) Award) called for stations to be established on each continent. They were to operate with a time-sharing arrangement on a common (main) frequency, in the case of 10 metres - 28,200 kHz, for periods of five minutes in each hour, reverting to an individual (secondary) frequency for the remainder of the time. This two-frequency operation of WAB stations was intended to allow WOP stations to monitor either the changing direction of propagation paths during the day or to examine a particular path on a more continuous basis. In practice only the 28 MHz band was taken up in an organized way. It is not serious that the 21 MHz band has not been utilized and there are now many beacons on the 50 MHz band, brought into being by the increased sunspot activity.

As might be expected, DARC installed the first 28 MHz beacon on Mt. Predigtstuhl in Southern Germany, to be followed shortly thereafter by the RSGB with one at Crowborough in South-East England. Then Noel Eaton, VE3CJ, during one of his visits to Europe on IARU business, heard of the project and soon VESTEN was built by Larry Kayser, VE3QE, and the network started to grow. Space does not permit the detail of all the ups and downs encountered but suffice it to say that beacons are steadily being established through the co-operation of amateurs and their friends.

Originally the beacons were on frequencies between 28,150 and 28,200. This was reviewed when the FCC opened that portion of the band to American novice operation - notwithstanding informed protests from Europe - and the segment 28,200 to 28,250 was recommended by IARU Region I. This has now been extended to 28,300. A higher segment (ie 29-plus) was not chosen because the network was set up during a sunspot minimum and one MHz makes a big difference in signal propagation at these times.

The purposes of the beacons may be defined as follows:-

1. To indicate the conditions over the path to help communication prospects, ie by directional calls.
2. To provide, within ground wave range, reliable signals for testing and alignment of antennas and apparatus.
3. To offer facilities for serious study of propagation phenomena.

The last of these allows the amateur service to make a useful contribution in the scientific field. While the opportunities for amateurs to make notable advances in the use of HF (as happened in the early days) has dwindled, there are still many aspects of propagation to be explored. The sporadic-E and Trans-Equatorial modes are good examples.

The establishment of transmitting stations, however, is only half the endeavour. The other half is the reception and observation of the transmissions, preferably on a regular basis over a fairly long period. This has, unfortunately, been disappointingly sparse. So far as the writer knows, the only two observers to have made good use of the beacons in serious studies have been Serge Canivenc, F8SH, and Martin Harrison, G3USE. G3DME

(Continued next issue - The Future of the Beacon Project and How You Can Make Use of the Network)



ONE HUNDRED FOR ONE

By Brian Summers, VE3JKZ

It was in the fall of 1978 that the decision was made to build a decent shack from which to operate. For about 18 months 'home' had been a corner of the basement - unfinished - with the regular concrete walls, concrete floor and an old door fixed up in one corner as an operating desk.

Starting after work one Friday on a long weekend, stopping only to eat and sleep, Monday evening saw a panelled room about 8' by 12', lots of electrical outlets and an old but serviceable carpet on the floor and a solidly built operating and working surface in one corner extending along two walls. It also saw QSLs on the wall which the XYI had sequentially sorted and put up for me. It occurred to me that after 18 months operating I had about 50 countries confirmed with many more worked. Most of them were on CW using the original station consisting of an SB-500 receiver, a Cheyenne transmitter running 90 watts to a 6146 and a G5RV antenna about 25' high.

Some months earlier the station had been upgraded to a TS-820 transceiver and a TE3 MK3 topside of a 40' tower. DX was a lot easier to work now and it was after gazing at the collection of QSLs that the decision was made to go for DXCC.

The big push was made over the winter of 78/79 when propagation for the most part was superb. Sunday mornings were reserved for chatting with UK stations on ten metres but just about all other operating was done with the intention of chasing new ones. How to do it? The art of DXing has been described many times in Amateur magazines but the prime thing is to listen, listen and listen some more. Read DX columns and if you're really keen, subscribe to something like CANA-DX 'Long Skip'. Join in some of the DX nets and if you don't mind waiting a long time for a quick signal report, try to get on a list. Use the propagation charts.

Primarily, what you need most is time. You also need an understanding XYI who doesn't mind not seeing you much on evenings and weekends, and who understands that the reason you roll out of bed at 0500 is because that is the best time to point the beam west to work the Pacific islands on twenty. You also need well-trained kids who will not grab your arm as you are about to hit the keyer or scream into the microphone. And when they ask you to play with

them - somehow you've got to be able to explain that 'Daddy is busy'.

Slowly the new ones were worked and cards came in. There was one from G5RV himself, operating as CX5RV. There was 9G1MM, Marion Magillvary from Saskatchewan operating out of Ghana as 9G1 Maid Marion. There was a card from CN3AK, Gregg, in Rabat and 5H3BP, Bill Proctor, who I met recently at a club meeting. There was FR7EP, Jan, on La Reunion Island who was heard calling CQ on twenty CW one Friday evening - and after we QSOed, was left calling CQ again. And there was one from W2FT/KXG who came back to my CQ on 28.52 one afternoon - you can imagine the pile-up that one caused!

By mid-April, the score was well over 90 confirmed with maybe 130 or so worked - I knew then it was just a matter of time and waiting patiently for cards. A batch from the Bureau brought in PZ, HM, FY0, and ZL (at long last). Direct QSLs and QSL managers brought in SWL, 6WS, YN2, VRI, FK3 and others until in mid-May the score was 105 confirmed. The DXCC application was carefully completed and for one of rare occasions in life I became exceedingly religious as those precious cards were entrusted to the care of the Canadian and US postal services. New ones are still coming through and up on the wall are 3D2, HCL, VK2 (Lord Howe), S8 (Transkei), PZ9 and others. Following is a breakdown of QSOs versus band and mode for the cards as submitted for DXCC.

BAND	10	15	20	40	80
CW	1	13	23	7	1
SSB	15	17	23	-	-

For those still going for DXCC, let me add again that all you need is time, patience and determination. Beams and linears are tremendous assets but not essential - have a chat with our Treasurer, John, VE3CXL, who is well on the way to a 5-band DXCC using a TS-520 and a trap dipole. In terms of power I have never run more than a pair of 6146s (pushed to the brink!) in the final of the 820.

Getting the QSLs is another story, and rather than risk a libel suit against the editor if I wrote my opinion of certain activities, let me just wish you luck in getting yours; and to all those Amateurs who replied to my QSLs - many many thanks!

73, GI and GDX,

VE3JKZ



RSO CONVENTION FORUMS and presentations were recorded and are available on cassette for Club or individual use. All tapes are \$6.00 except where indicated plus a handling charge of 50¢ per tape to a total of \$4.50. Ontario residents add 7% Sales Tax. Order tapes by number from the following list:

1. ARRL Forum, Ron Hesler, VE1SH
2. OSCAR Status and Update, John Henry, VE2VC
3. Antennas for FD, Dr. J. Belrose, VE2CV
4. CARF Forum, Bill Wilson, VE3MR
5. YLs Wide World, Cathy Hrischenko, VE3GJH
6. Packet Radio, Bob Rouleau, VE2PY
7. RSO Forum, Eric Illott, VE2XE
8. The New Narrow-Band Modulation System, Tom Lott, VE2AGP/W3 (\$9.00)
9. Remote Control of an HF Amateur Station, Gerry King, VE3GK
10. DX Forum, Members of CanaDX (10A-\$3.00, 10B-\$6.00, both-\$12.00)
11. Advances in SSTV, Sid Horne, VE3EJO
12. Emergency Linking of SW Ontario, Paul Cassel, VE3AVY
13. In The Beginning, Fred Western, VE3FYW
14. Interference - Its Detection and Correction, Bill Westbrook, VE3EKA
15. Introduction to Micro-Processors (in Amateur Radio), Herb Lines, VE3DWL
16. RTTY - What the Amateur Needs to Know for Interfacing with VUCOM-1, Dick Atkinson, VE5JDC (\$9.00)
17. DOC Forum, Ron Powers, VE3HIM

It would be well to check with someone who has knowledge of the presentations before ordering any tapes as some were highly oriented to visual projections and working displays and do not lend themselves well to straight audio production.

Send orders and cheque to:  
CONFERENCE TAPE, 8 Woodburn Dr.,  
Ottawa, Ontario, K1B 3A7

and include your complete mailing address.

EDITOR WANTED! It will be five years in February since I offered to do what I could to help put out a Club bulletin. I can truthfully say that they have been my most enjoyable years in Amateur Radio and that I have learned more about Amateur Radio during those years than at any other similar period since I first obtained my call in 1948.

However, all good things must come to an end and it is now time to move on to other, if not better, things. Also, too many people holding down the same jobs year after year is not good, either for the ones

in the jobs or for the ones outside looking in. The more people involved in the operation of the Club, if only for short periods at a time, the better and more healthy the Club becomes.

So if you feel you have any literary ability, or if you feel you can co-ordinate the efforts of others, or if you feel you would just like to stand back with a big whip and see that others do the job, then I hope you will consider giving it a try. There are many ways to edit a bulletin and you will be limited only by your own imagination and will be satisfactorily rewarded, I am sure.

Feel free to contact myself, or any member of the Executive, for further info if you are willing to at least give it a try.

I would be willing to assist the new editor in whatever way I could, or not at all if he so desires, but I am definitely through as editor as of January 1, 1980.

I would like to thank, very sincerely, the many members who have assisted me in so many, many ways in dreaming up ideas, gathering material, preparing stencils and producing the final product. You have all been tremendous!

Carl Swenson, VE3BYX, Editor  
(but not for long!)

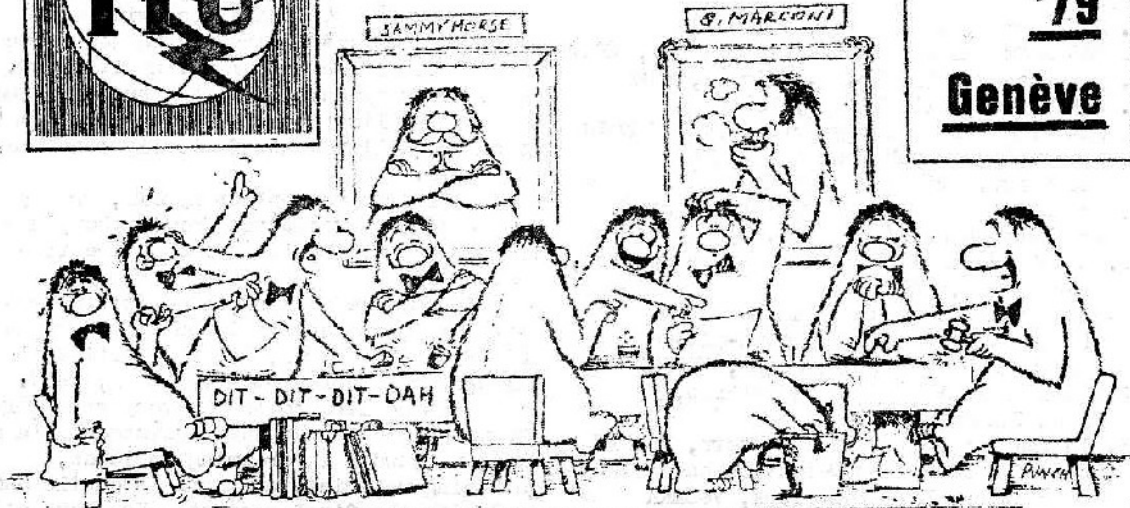
HOME BREW NIGHT was again the usual success. Nine exhibitors presented a variety of projects. Gord, VE3JQY, showed a two-tube transmitter and a keyer. Brian, VE3JKZ, showed a teletype demodulator and a linear amplifier. Sam, VE3JSE, showed a direct conversion receiver and a 1½ Watt solid-state transmitter (both on 20 metres). Dave, VE3KMV, showed a dummy load, a 6 metre converter, a 2 metre amplifier, and several VHF antennas. Chris, VE3CBK, exhibited his HF transmitter and Dave, VE3LAC, his CW interface and automatic keyboard keyer. Larry, VE3CRX, showed his 9 MHz phasing exciter, a 2 metre VFO and 350 Watt VHF amplifier. Wayne, VE3CZO, showed his ATV setup, actually transmitting and receiving and Roland, an aspiring ham, demonstrated his sound effects synthesizer.

As reported in the minutes, Dave, VE3LAC, received the Technical Achievement Award for his CW keyboard interface and Brian, VE3JKZ, and John, VE3JSE, were also recipients of prizes for their home-brew efforts.



*ham on wry*

**W.A.R.C.**  
**'79**  
**Genève**

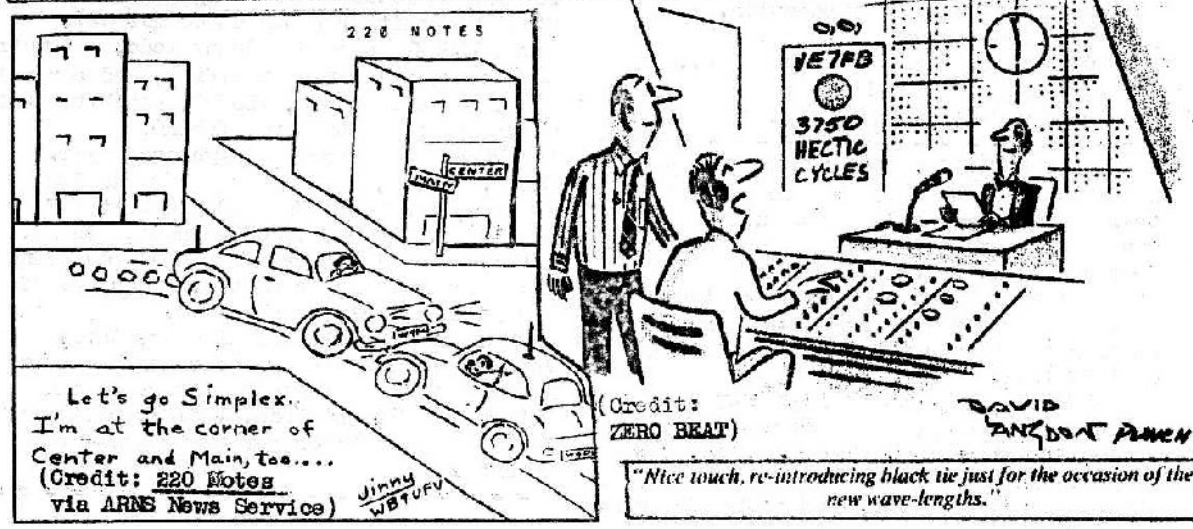


To the IARU Team, VE3UD, W3OKN, and all who work for us during W.A.R.C. '79:

GOOD LUCK and MERCI BIEN.

73 de VE7EZ Victoria Short Wave Club.

(Credit: ZERO BEAT, Bulletin of the Victoria Short Wave Club. Good Luck also from QRP)



Let's go Simplex.  
I'm at the corner of  
Center and Main, too...  
(Credit: 220 Notes  
via ARNS News Service)

Jimmy  
WB7UFV

(Credit:  
ZERO BEAT)

"Nice touch, re-introducing black tie just for the occasion of the new wave-lengths."

MEMBERSHIP APPLICATION 19

OTTAWA AMATEUR RADIO CLUB INC., Box 8873, OTTAWA, Ontario, Canada, K1G 5J2

SURNAME : COMMON : CALL  
 : NAME

ADDITIONAL NAMES/CALLS

IF FAMILY MEMBERSHIP

ADDRESS : POSTAL

STREET/CITY/PROVINCE : CODE

TELEPHONE : TELEPHONE : CLASS ASSOCIATE ( )

(HOME) : (WORK) : AMATEUR ( ) ADVANCED AMATEUR ( )

ACTIVITIES (LIST BANDS WORKED)

CW \_\_\_\_\_ AM \_\_\_\_\_

SSB \_\_\_\_\_ RITY \_\_\_\_\_

SSTV \_\_\_\_\_ ( ) \_\_\_\_\_

VHF/FM \_\_\_\_\_ PACKET RADIO \_\_\_\_\_

I AM A: MEMBER APPOINTEE OFFICIAL : I HAVE A GAS/DIESEL GENERATOR  
 OF: ARRL \_\_\_\_\_ : YES ( ) NO ( )  
 RSO \_\_\_\_\_ : /  
 CARF \_\_\_\_\_ : I HAVE A 2-METRE HAND-  
 RAQI \_\_\_\_\_ : CARRIED PORTABLE  
 : YES ( ) NO ( )

MY MAIN INTEREST IN AMATEUR RADIO IS: ( ) HF ( ) VHF OTHER ( )

MEMBERSHIP FEES: INDIVIDUAL - \$5.00 FAMILY - \$7.00

WHAT I WOULD LIKE TO SEE THE CARC INC. DO / NOT DO NEXT YEAR:

.....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....

RECEIPT (To be filled out by applicant except for signature)

CARC INC. MEMBERSHIP 19

RECEIVED FROM \_\_\_\_\_ AMOUNT OF \$ \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

Membership Chairman



THE OTTAWA AMATEUR RADIO CLUB INC.  
 BOX 8873, OTTAWA, ONTARIO, CANADA  
 K1G 3J2



FIRST CLASS MAIL  
 FIRST CLASS MAIL

THE OTTAWA AMATEUR RADIO CLUB INC. BOX 8873, OTTAWA, ONTARIO, CANADA K1G 3J2			
President	Larry Bradley VE3CRX	1377 Chartrand Ave., Orleans, Ontario, K1E 1H9	824-3753 993-5238
V/President	Ray James VE3QUA	43 Ashburn Dr., Ottawa, Ontario, K2E 6N4	224-7243
Secretary	Marilyn Duncan VE3JDS	654 Farmington Ave., Ottawa, Ontario, K1V 7H5	521-3965
Treasurer	John Gilbert VE3CXL	714 Highland Ave., Ottawa, Ontario, K2A 2K7	729-2282 396-1491
Directors	Ken Duncan VE3EER	664 Farmington Ave., Ottawa, Ontario, K1V 7H5	521-3965
	Bill Motherwell VE3BY	711 Broadview Ave., Ottawa, Ontario, K2A 2M3	728-5348
	George Roach VE3BNO	104 Strathcona Ave., Ottawa, Ontario, K1S 1X6	234-0885 233-6241
Membership	Kon Pulfer VE3PU	1756 Laxton Cros., Ottawa, Ontario, K2C 2N3	225-3108 993-1992
Chairman	Larry Bradley VE3CRX	1377 Chartrand Ave., Orleans, Ontario, K1E 1H9	824-3753 993-3238
Net Manager	Gerry Martin VE3CNJ	1771 Hutton Ave., Ottawa, Ontario, K1G 1M1	731-3220
& Emerg. Comm.	Bill Westbrook VE3EKA	1494 Ridgebrook Dr., Ottawa, Ontario, K1B 4K7	749-3373 239-2385
Custodian & Archivist	Penny Robinson VE3ERO	1228 Agincourt Rd., Ottawa, Ontario, K2C 2J2	225-1276
Electro-Mag.	Brian Summers VE3JKZ	2231 Hillary Ave., Ottawa, Ontario, K1H 7E7	523-1535 993-2931
Interference			
RSO Convention			
Coffee			