

APRIL - 1972

# *the Groundwave*

APRIL  
1972



**EDITOR      MIKE BRYAN**  
**PUBLISHER - LARRY EMMERSON**

**A PUBLICATION OF  
THE OTTAWA AMATEUR RADIO CLUB**

"GROUNDWAVE IS THE OFFICIAL BULLETIN OF THE OTTAWA AMATEUR RADIO CLUB, AN ASSOCIATION OF RADIO AMATEURS DEVOTED TO THE PROMOTION OF INTEREST IN AMATEUR RADIO COMMUNICATION AND EXPERIMENTATION IN THE OTTAWA REGIONAL AREA, AND TO ADVANCEMENT OF THE TECHNICAL COMPETENCE AND ACHIEVEMENT OF CLUB MEMBERS."

CLUB ADDRESS: Ottawa Amateur Radio Club,  
Box 8873,  
Ottawa,  
K1G 3J2

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The club holds regular meetings on the first Wednesday of each month, between September and June inclusive. Meetings are normally held at the National Research Council Auditorium, 100 Sussex Drive, Ottawa. Visitors are always welcome at these meetings.

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C L U B   N E T :    20:00 HOURS MONDAYS

Check into the Capital City Net, via the VE2CRA club repeater, each Monday evening at 20:00 hours. VE2CRA has input and output frequencies of 146.460 and 146.940 MHz respectively.

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OTTAWA AMATEUR RADIO CLUB EXECUTIVE FOR 1971-72

PRESIDENT:	Tony Vandenbelt - VE3FXG --	699 Trojan Ave., 745-6928
VICE PRESIDENT:	Colin Rowe - VE3AZY --	2310 Fox Cresc., Apt. 707 728-9240
SECRETARY:	Hank Harley - VE3BR --	Orleans 824-3895
TREASURER:	George McCullum - VE3DIH --	2299 Alta Vista Dr., 733-3600
DIRECTORS:	Larry Kayser - VE3QB --	59 Westfield Cresc., 829-3407
	Mike Waters - VE3BYO --	1045-159 Morrison Dr., 829-2762
	Larry Emmerson - VE3GGA --	883 Dunlevie Ave., 728-7307
	Ray James - VE3CUA --	43 Ashburn Dr., 221-7243

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EIGHTH REGULAR MEETING-----1971-'72 SEASON

DATE: Wednesday, April 5, 1972

TIME: 8.00 p.m.

PLACE: Main Auditorium, NRC Building, 100 Sussex Drive

A G E N D A

1. Call to Order
2. Welcome to Members and Guests
3. Minutes of March meeting (attached)
4. New and Old Business
5. Committee Reports
6. PROGRAM: To Be Announced

MPP SUPPORTS CALL LETTER LICENCE PLATES:

Your editor couldn't get his copy of the recent form letter circulated by the "Action Committee For Ontario's Interested Amateurs" into the mail fast enough. We sincerely hope you did the same. Here's a chance to get a little valuable public relations for amateur radio. With distinctive calls on our cars, we'd perhaps gain a little recognition from a public that continues to refuse to see the distinction between GRS and Amateur Radio. Doesn't it make you burn when you see headline after headline in the press, like this one, from the Ottawa Journal, which should have known better: "NS 'hams' helping drivers in distress." Guess who the so-called "hams" were? Give them credit, O.K., but they're not amateurs. Kudos to Ed Morgan and others who are insisting we should shed the name "ham" from our vocabulary and let the real "ham-it-up" Charlie-Browners have the darn term! CBers have their place in the realm of public service, and as a back-up when the civil emergency chips are down. But let's not forget the wholesale abuse of the 27 MHz band (mentioned elsewhere in this edition) and the irresponsibility, immaturity and profanity of a good many CBers.

Call letter licence plates would give us the public image boost we need. Carleton MPP Sid Handleman dropped us a line the other day which we reproduce elsewhere in this GROUNDWAVE. He's all for us!

--VE3CGT

MINUTES OF THE SEVENTH REGULAR MEETING FOR 1971-72

Wednesday, March 1, 1972

The regular monthly meeting of the OARC was called to order at 20:10 hours, March 1, 1972, at NRC, Sussex Drive, by your president.

The following guests were welcomed to the meeting:

VE4s DKP, PL and BN, along with VE4SF.

The president called for a motion of adoption of the minutes of the last regular meeting, as published in GROUNDWAVE. So moved by VE3BYO, seconded by VE3SH, the motion was carried.

The following committee reports were heard:

CODE CLASS: No report at this time, but it was observed that classes were coming along well and visitations of operating stations was being proceeded with.

REPEATER GROUP--Mike, VE3BYO, said no report was available but he hoped to forward information for publication in the GROUNDWAVE.

MEMBERSHIP----At the end of January, we had 213 regular members, according to George, VE3BNO.

No reports were available from the publishing or field day committees.

An apology was offered for the absence from the GROUNDWAVE of the propagation charts, due to their late arrival. Members desiring their March charts could obtain them from Larry, VE3GGA.

The president announced that a special meeting would be held on March 28, to enable members to hear Jerry Hall of ARRL headquarters. The meeting was to be held at the auditorium of Bell-Northern Research on Highway 17.

The president announced it had been decided by the executive that it would be in the best interests of the club if the two station licences, VE3RC and VE2CRA, were held in the name of one sponsor. Lyle, VE3CEZ, had volunteered to accept this responsibility and would assume it upon renewal of the licences for 1972-73. (It was pointed out this would lead to Lyle's assumption of the chairmanship of the Repeater Group.)

The president, noting VE3GDW was still in hospital, expressed a wish for his rapid recovery.

It was announced the Ottawa Valley Mobile Radio Club's next auction would take place at EMO headquarters, Richmond Road, on April 22.

Notice was also given of the annual MILES FOR MILLIONS walk April 29 and a call for volunteers was issued.

A form letter recently circulated to all Ontario amateurs by an action committee in Toronto was mentioned by the president, who asked members to respond as they saw fit.

CONT'D...

MINUTES (Cont'd)....

The president directed members' attention to his report, published in the March GROUNDWAVE. He felt members would act in respect to his suggestions as they felt disposed to, in order to maintain a better continuity in the leadership of the club.

VE3CDC read a communique from the Canadian Amateur Radio Federation, outlining CARF's representations to the Minister of Communications in respect to a proposed new class of operator's licence.

The business portion of the meeting closed at 20:35 hours and the program chairman introduced Jim MacIntosh, VE3VI. Jim presented an interesting talk on his early-day experiences in broadcasting and recording and aptly demonstrated his recordings with his disc machine and his "latest-state-of-the-art" audio equipment.

Members were asked for a motion to adjourn at 22.35 hours. So moved by VE3BTS and seconded by VE3FFW, the motion was carried.

H. HARLEY,  
Secretary,  
OTTAWA AMATEUR RADIO CLUB

LETTER TO GROUNDWAVE:

Editor, Groundwave:

Having been an OARC member for only a year and a licensed amateur for less than that time, I don't wish to take it upon myself to tell the club executive what the organization should be doing. ~~But~~ But I think there is an area where the club and GROUNDWAVE in particular could be of some added value to the membership---particularly the tenderfoot ham like me. I'm thinking of formal traffic handling and the highly-organized nets, like NTS et al.

With rare exception, the graduate of the OARC's beginners classes obtains his call after mastering a certain amount of theory and a code speed sufficient to pass the DOC test. This of course does not place him in a position to start delving into traffic nets. But having read ARRL publications, he is no doubt aware of their existence and may want to be a traffic handler himself. In the meantime, he hears nothing about traffic, nor formal message handling, from the club that was instrumental in getting him on the air. In fact, once he has completed his instruction, he is on his own as far as learning anything further about amateur radio. (Which is not intended as a criticism of the very excellent OARC classes)

I don't wish to criticize the club, but to submit a suggestion and see what your thinking might be: Since there are a number of traffic handlers within the club; and since it's unlikely that many new or even some veteran members are aware of who these people are, why couldn't a list of these traffic specialists appear in GROUNDWAVE? The nets to which

CONT'd.....

LETTER (Cont'd).....

they report could be included, as well as time periods when they would be available to accept originating traffic for feeding into a particular net. In fact, why not go all-out and allocate time segments on VE2CRA when formal messages could be passed to these people via 2-metre FM.

In this way, it would be likely that more amateur traffic would originate in Ottawa and basic experience in originating messages IN PROPER FORM would be gained by the newcomer ham. The employment of the club repeater for this purpose would be construed as further justification for its use by fixed stations.

It may be that I have missed something, or wasn't paying attention somewhere along the line, but it's my feeling that a field may exist where those among us that are not electronic wizards might derive a measure of enjoyment and satisfaction through being a very small part of a very big endeavour. Wot SA??

GL es 73

Cy,

VE3CVK

EDS NOTE:

We'll pick up the ball, Cy, if traffic handling specialists want to drop us a line, directly to Box 265, Rr#1, Richmond, we'll be happy to include the information you suggest in the next edition.

--VE3CGT

" "

HAM JAM: We Need more letters like this one---

We quote the following letter from ELECTRONIC NEWS, written by S.E. Craig of the Electronics Lab at General Electric Company, Syracuse, New York. In part, he had this to say in a recent edition of the magazine:

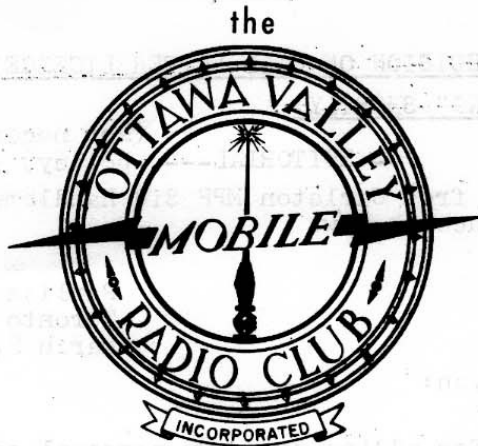
"On Page 16 of the Jan. 31 issue of Electronic News, an item appears relative to the EIA proposal to award the 220-225 MHz band to the citizens' radio service. In particular, the article states: "FCC officials said amateur radio users are not greatly opposed to losing the frequencies because they are not very much in use."

"This opinion certainly doesn't represent my view. And I suspect most amateurs oppose the EIA proposal quite strongly. The phenomenal growth of activity in the 144-148 MHz band over the last 10 years is already spilling over into the 220-225 MHz band and similar growth in the latter band seems likely.

"The Gross Misuse that has characterized the present 27 Mhz citizens band speaks shamefully for itself. To reward this misuse with a larger band of frequencies, by taking it from those who have a sincere interest in the scientific and engineering aspects of radio communication, as well as in public service, would be a disservice to the community at large. The solution to crowding on the 27 Mhz band is enforcement of the existing rules regarding its use."

... EDS NOTE: Three Cheers and a Big Hurrah for you, OM!!!!

*Bargains Galore  
Ample Free Parking*



*TALK-IN on VE2CRA  
146.46 IN 146.94 OUT*

**ANNUAL SPRING  
AMATEUR RADIO  
AUCTION**

**SATURDAY 22 APRIL 1972**

**EMERGENCY MEASURES ORGANIZATION BLDG  
495 RICHMOND ROAD  
OTTAWA, ONTARIO**

*Sandwiches  
and Coffee*

**REGISTRATION 0930-1230**

*Electronic Goodies  
by the 1000's*

**AUCTION SALE 1300-1700**

*Registration will be limited to a maximum of 15 lot numbers per person*

*As in previous years, out of towners, due to traveling times, will have*

*several blocks of lot numbers reserved*

MPP SAYS DECISION ON CALL LETTER LICENCE PLATES SHOULD BE

"FORTHCOMING" SHORTLY:

-- EDITORIAL--- (Not necessarily official club policy)

A letter from Carleton MPP Sid Handleman, to your GROUNDWAVE editor, is reproduced below:

Parliament Buildings,  
Toronto 182,  
March 8, 1972

Dear Mr. Bryan:

Thank you for adding your own personal comments to the form letter containing the request of the amateur radio operators for special vehicle licensing arrangements.

I understand that this request is receiving serious consideration from the Minister of Transportation and Communications and that a decision should be forthcoming very shortly.

My own view is that there is considerable merit in the suggestion, and depending on the administrative and financial implications of complying with the request, I would be in favor of the suggestions which have been made. If I can come into possession of any additional information on this matter, I will advise you.

Yours sincerely,

Sid Handleman, MPP  
Carleton.

-- All we can say to that is, "thanks, Mr. Handleman. We'll be in touch with you before the next GROUNDWAVE is out to see what's doing." In the meantime, every OARC member should, in our opinion, support the constructive initiative of the "Action Committee." (See editorial, page 1.)

And just to refresh your memory, here are a few Ottawa area MPP's to whom you should address your request for call-letter licence plates, in case you didn't get the form letter:

OTTAWA SOUTH --- Claude Bennet, MPP, 35 Avenue Road, Ottawa  
OTTAWA CENTRE ----Michael Cassidy, MPP, 160 Waverley St., Ottawa  
CARLETON ----Sid Handleman, MPP, 81 GRANDVIEW RD., Ottawa 14  
CARLETON EAST ----A.B.R. LAWRENCE, Parliament Bldgs, Toronto.  
OTTAWA EAST ----Albert Roy, MPP, Parliament Bldgs., Toronto  
OTTAWA WEST ----DON MORROW, MPP, 200 Clearview Ave., Apt 1233

LET'S GET BEHIND THIS PROJECT AND BLOW OUR OWN HORNS (With  
CALL SIGN PLATES)

---VE3CGT

HAWTHORNE ELECTRONICS Co.

CUSH CRAFT has been a pace-setter in the VHF antenna field for many years. CUSH CRAFT antennas are built from the best aluminum alloys, are ruggedly constructed and designed for fine matching to give maximum performance. Full descriptions are in catalogue A-7, available from Hawthorne Electronics with Canadian price list. Commercial quality antennas are also available and quotations can be obtained from your specification. Most antennas are 52-ohm feed with gamma match. Below is a brief description of some representative types.

A-144-7	7-el	144mHz	11db FWD	26db F/B	4 lbs	\$ 18.75
A-144-11	11-el	144mHz	13db	28db	6 lbs	24.60
A-220-11	11-el	220mHz	13db	28db	4 lbs	21.75
A-430-11	11-el	430mHz	13db	28db	3 lbs	18.75
Stacking kits for above, vertical, for 2 antennas,						17.50
Quad kits, excluding antennas: 144: 94.00; 220: 86.00; 440: 68.00						
50 mHz beams, 3, 5, 6, 10 element: from						27.00
HF MONOBEAMS						
A28-3	3-el	28mHz	8db FWD	22db F/B	11 lbs	58.00
A-28-4	4-el	28mHz	10db	25db	21 lbs	72.50
A21-3	3-el	21mHz	8db	22db	16 lbs	87.00
A21-4	4-el	21mHz	10db	25db	32 lbs	116.00
A-14-2	2-el	14mHz	5db	13db	20 lbs	101.00
A-14-3	3-el	14mHz	8db	22db	35 lbs	145.00

DX ARRAYS, 20, 40, and 80 element arrays for 144, 220 and 430 mHz.  
eg: DX-120, 20-el, 144mHz, 14,2db FWD, 20db F/B, 8 lbs 43.00

DUAL POLARIZED BEAMS: A144-20T, 20-el, 144mHz 6 lbs 57.50  
Ground plane: deluxe adjustable: 27mHz - 50mHz 23.00  
108mHz - 175mHz 20.25

AR-2 FM base ant., 1/2wl, 3.75db gain, 135-175mHz, 1 lb 18.00  
AFM-4D 146mHz 4-el colinear; less vertical mount 61.50  
AM-147, FM mobile whip, 5/8wl, deluxe, fibreglass 39.00  
A144-4, 4-el beam, end mount, vert or horiz. 9db, 2 lbs 14.50  
Also Blitz Bugs, Zipper Beams, Big Wheels, Squalos.

Prices are FOB Ottawa: Ont. Sales Tax extra.  
Prices may change without notice.

Aluminum tubing, 7/8 and 3/4 x 046 wall, 12' lengths: 40¢/ft.

Sheet metal bending brakes, 18", 16ga steel, vice mounted 28.00

QSL card holders, plastic, packet of 3 for 60 cards: 1.50

Hawthorne Electronics Co., 2050 Balharrie Av., Ottawa 8, Ont. K1G 1G3  
Call Gord Grant, VE3DY, 733-4892

POTTERY SUPPLIES:

Clay, glazes, oxides, chemicals, tools, wheels, kilns:  
Call: HAWTHORNE CERAMICS, 2050 Balharrie Ave, Ottawa, Ont. 733-4892

HAWTHORNE ELECTRONICS Co.

PRICE CHANGE

Mosley Electronics Inc. has just announced new Canadian prices for almost all their products effective 1 November 1971. With only one or two exceptions, all prices are reduced substantially. The latest catalogue, H-174, is available at Hawthorne Electronics on request. The list below is representative of the price changes for the popular antennas.

<u>BEAMS:</u> TA-33Jr	10-15-20, 300w AM; 1KW SSB	135.00
MP-33	10-15-20, 750w AM; 2KW SSB	153.70
TA-33 SR	10-15-20, 1KW AM ; 2KW SSB	197.00
TA-36	6-el, 10-15-20, 1KW/ 2KW SSB	243.45
TA-4OKR	40m conversion for TA-33,-36, MP-33	83.40
MPK-3	Conversion kit: TA-33Jr to MP-33	46.55
CL-33	Classic tribander, 3-el,	211.00
CL-36	Classic 6-el tri-bander	248.00
MCQ-3B	2-el cubical quad, 10-15-20,	152.65
S-401	40m rotatable dipole	129.85
S-402	2-el 40m	239.00

VERTICALS

RV-3C	10-15-20, 750w AM; 2KW SSB	42.20
RV-4C	10-15-20-40, " "	56.30
RV-8C	80m adapter for RV-4C for 5-band	33.60
RKV-345	Roof mounting kit	6.55

MOBILE

MD-1	Mast, 6m whip, matching network	31.40
MD-10L	10m coil	6.55
MD-15L	15m coil	7.65
MD-20L	20m coil	7.65
MD-40L	40m coil	9.80
MD-78L	75-80m coil	16.25

Prices are FOB Ottawa. Ontario Sales tax extra.

DIGITAL LOGIC --PART 6---TO APPEAR NEXT MONTH

We must apologize to readers of Colin Rowe's series on DL. We have been forced to shorten this month's GROUNDWAVE because your editor, who is still unpacking boxes at his new QTH, working overtime at a new job, studying for an exam and doing a lot of travelling, simply can't turn out a full edition on his own. Colin's series will be continued in the May issue. Promise.

--VE3CGT

READER SURVEY

To help us assess what you want to see in GROUNDWAVE, please circle the number that best describes the importance you would give to the following types of articles and features in your club bulletin, and return this page to:

GROUNDWAVE  
EDITOR,  
Box 265,

RR#1, Richmond

1. Very important. Need more of this type
2. Important.
3. Of average interest
4. Not terribly interested
5. Too much in GROUNDWAVE

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GENERAL TECHNICAL ARTICLES	1	2	3	4	5
TOPICAL ELECTRONIC NEWS...	1	2	3	4	5
DX ARTICLES.....	1	2	3	4	5
VHF NEWS.....	1	2	3	4	5
HF ACTIVITIES (Non DX) .....	1	2	3	4	5

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M O D U L E

\$224.50

- . Resolution to within 100 Hz  $\pm$  1 count
- . Compatible with all Heathkit SB Receivers and SB and HW Multiband SSB transceivers
- . Six bright readout tubes display MHZ, KHZ, and hundreds of HZ.
- . Full 80 through 10 Meter coverage no band switching required

Computer age circuitry and Heathkit easy assembly methods give you the SB 650 digital Frequency Module. This is a digital frequency counter that counts the three different frequencies produced in your receiver, then computes and displays the frequency of the actual signal being received or transmitted to within 100 Hz. Six bright digital readout tubes show exactly where you are as you tune across the 80 through 10 Meter Bands. You read KHZ to five places plus tenths of a KHZ and there is no band switching necessary on the SB 650 itself.

The module is designed to operate with all Heathkit SB receivers and SB and HW series multiband Transceivers.

Assembly is simplified by the use of IC's and plug in display tubes mounted on a double sided glass epoxy board.

For further information  
on this or any other unit,  
contact

H E A T H  
SCHLUMBERGER  
MISSISSAUGA ONTARIO

ARRL FIGHTING PROPOSAL TO GIVE CB'ers OUR 220 BAND:

Both the ARRL and our own, Canadian organization, CARF, are now officially opposing, in good strong terms, that stupid, profit-motivated suggestion by the electronics manufacturing industry to turn over the amateur 220 MHz band for the idle chit-chat of CB use.

The league has filed a petition with the FCC in opposition to the Electronics Industries Association request for reallocation of the band.

At the time the EIA petition was filed, FCC officials said amateur radio users were not greatly opposed to loss of the band! According to the league, the opposite is true.

In its petition, ARRL, with more than 85,000 licensed member operators in the U.S. and Canada, said use of the band is increasing rapidly with recent availability on the market of high quality, low cost equipment, as well as an increasing number of surplus sets becoming available.

"Unfortunately," the league states, EIA has given little or no consideration to the volume of present and future sales of amateur equipment and the resultant impact on the economy." EIA, you see, stands to gain millions of dollars through sales of 220 CB sets to eager would-be VHF CBers.

The league's petition notes a large number of American manufacturers are turning out VHF amateur equipment. It adds that "an extremely high per centage of Class D citizens' radio equipment sold in the last few years has been manufactured outside the U.S, while bearing the name of a U.S. maker.

The league expects the entire 220-225 MHz band will be dominated by amateurs and "virtually saturated" in some parts of the U.S. within 5 years.

Now here's the crunch, gentlemen: EIA said that adoption of its proposal would create a new market for auto, home, and boat CB systems of at least \$300 million a year for communications firms.

When the stakes are that high, it makes you wonder how effective the league filing with the FCC can be.

Let's keep our fingers crossed and monitor the situation at DOC as closely as we can, individually and through those of us among the club with contacts in the department.

Knowing Canada's reputation for following the American lead, we wouldn't expect much to happen here until the FCC decides, though.

\*\*\*\*\*

ORGANIZATIONAL  
CHART

