

MAY 84

# THE GROUNDWAVE

## RSO CONVENTION '84

October 5,6,7, 1984 - THE WESTIN HOTEL



Club Call VE3RC

Repeater VE2CRA



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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 the advancement of the technical competence and achievement of Club Members.

**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 Ottawa regional area.

**THE SWAP NET**, a service of the Ottawa Valley Mobile Radio Club, Inc., is repeated on the Capital City Net and is conducted by Ed Morgan VE3GX. To list items and make enquiries, call Ed at 733-1721.

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 first Wednesday of each month. **SEE YOUR NAME IN PRINT!!** -- in national and international publications. Write an article for the **GROUNDWAVE** and watch it travel! Many local articles have been reprinted in Club Bulletins across North America.

**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 at about 1915 hours. For further details about the next meeting, see Page 5.

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

**SAFETY BELTS, TWO METRE RIG** and an **ENGRAVING PENCIL** are available for loan to Club members. The two metre rig may be borrowed by members who are hospitalized and the engraving pencil (to mark valuables for positive identification in case of loss or theft) and safety belts with pole straps by any member. A \$100 refundable deposit is required for the belts. Contact the President for the two metre rig or the engraving pencil and Paul VE3ICV at 820-6643 (west-end) or Brian VE3JKZ at 523-1535 (east end) for the belts.

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

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MINUTES OF THE MEETING OF THE OTTAWA AMATEUR RADIO CLUB, Inc.  
April 4th, 1984

The meeting was called to order at 2007 hours by the President. About 70 members and guests were present. Samson VE3JSP, Secretary, asked for corrections to the minutes of the March meeting, as published in the GROUNDWAVE. It was pointed out that Brian VE3JKZ was organizing a meeting to discuss Field Day arrangements, and not that he will be the coordinator. Subject to this correction, the minutes were adopted on a motion by Bill VE3NR seconded by Allan VE3LNH.

Allan VE3LNH thanked the operators who have kept VE3JW operating every Saturday and Sunday throughout March and April. The Museum has purchased a new two metre rig and a Ringo Ranger antenna for the station, as well as some new furniture. He announced that there would be a meeting of those interested in helping out with VE3JW on April 5th.

Joan VE3FVO introduced Harrie VE3HYS who gave a short presentation on wire-wrap techniques. He described two methods: the first uses wire with special insulation which splits at the contact points, and thus requires no stripping; the second uses #30 AWG wire which must be stripped. The wire forms a weld at the contact points. For one or two units, it is usually very fast and effective to use this technique rather than laying out a printed circuit board or soldering. He suggested using the blue Vector board rather than the green boards available, as the former has smaller holes which hold components more tightly.

Joan announced that the 10th annual Central Ontario Amateur Radio Fleamarket and Computerfest will be held on Saturday, June 2nd 1984 at Regal Hall, GUELPH, Ontario. General admission is \$2.00 and vendor admission is \$5.00 for an eight foot space. The doors open at 0600 for vendors and 0800 for the general public. Joan also reported that good progress is being made in the preparation of the Directory. She suggested that anyone wishing to have his or her name included should join the Club quickly. There will not likely be another edition for at least two years. She also reported that a transmitter testing clinic will be held at CJOH on April 28th. This is being organized by Ralph VE3BBM.

Jerry VE3CDS, Vice-President then welcomed everyone to the meeting, and in particular, the visitors John Perkins, Scott VE3MP and Hugo VE3KTN. John VE2VQ then gave an update on the status of Amateur Satellites. There are several Russian satellites operating, an one can frequently hear such calls as UA0. OSCAR 10 is performing well and is a good source of satellite DX. OSCAR-11 was launched successfully on March 1st with the earth resources satellite LANDSAT-5. However, two days after launch, something went wrong. He suggested that the beacons seem to be on, but transmitting at very low power (microwatts) and can only be heard with moonbounce type equipment. He reminded members that a similar problem occurred with OSCAR-9 where the beacons interfered with the onboard receivers. It took several kilowatts to a 210 foot dish to override the beacons in order to gain control. At present, attempts to do the same thing with OSCAR 11 have not worked, partly because the exact location is not known due to launch debris in the area.

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Minutes--Continued

Joan VE3FVO noted that John VE2VQ will be a guest speaker at the Rochester Hamfest this spring. She reported that Bob Brown VE3JDB is the Club Field Day Coordinator this year. If you can help out with this most rewarding activity, contact Bob at 729-6440.

Ray VE3FN reprted on behalf of CRRL that Loran operation at 1950 kHz has ceased and that DOC is planning to remove all 160 metre restrictions. The DOC have been asked to reinstate RTTY in the region 7050 kHz to 7100 kHz. RTTY operation was stopped when the phone band was extended to this region. To assist amateurs in testing antennas designed for the "all band antenna contest" announced in QST, the DOC has been asked to allow operation in the 18 and 24 MHz bands, perhaps on only a single frequency. The DOC has proposed reintroducing punctuation marks and Q-codes in the code examination. CRRL has recommended that punctuation be limited to . , / ? and Q codes to those used most frequently by amateurs.

Merv VE3CV, RSO Delegate, outlined some of the activities of the RSO, which is looking for ideas on how to attract new members, especially in the younger age group. He asked that anyone interested in being nominated as an Ottawa area delegate contact him.

Doug VE3CDS, reporting on behalf of CARF, said that while DOC favours removing 160 metre band restrictions, this will require a change in regulations. The latest regulation changes took a year and a half because of a backlog of over 400 cases in the Privy Council Office. He reported that as a result of observations of illegal activity by Bill VE3BDO, DOC was able to catch an Ottawa member of an illegal, international HF group. The DOC are now considering what charges are to be laid. There was a meeting on April 4th of the Radio Advisory Board to discuss CATVI. The objective was to gain the support of all the services affected. A CRTC hearing is scheduled for May 1st, which may hear testimony on the subject if any local licences are up for renewal. The special VY0 prefix commemorating the 450th year since Jacques Cartier's exploration of Canada has not been confirmed.

Bob VE3FTB and Samson VE3JSP were the winners of the raffle and Rick VE3HVA the door prize. Bill VE3NPG is coordinating the communications for the Metres for Millions. Contact him if you can help out. Jerry VE3CDS clarified the article in last month's GROUNDWAVE requesting assistance for the RSO Convention talk-in. Volunteers are needed who know the city very well. He suggested that some of the members who have lived here many years could help immeasurably.

Jerry then coordinated the Home Brew Night presentations, which were judged by Brett VE3JLG, Wally VE3CBE and Ralph VE3BBM. The first prize went to VE3FUB for his 40 metre QRP rig, keyer, linear, antenna tuner, NiCad battery pack and charger. Second prize was taken by VE3KMV for his 430 MHz transmitter and in third place was the 430 MHz helical antenna built by VE3GK. Other entries included a remote VFO for the Kenwood transceiver built by VE3JKZ and an SWR meter built by VE3MJV for his QRP rig. Bill VE3NR then demonstrated how to fill unwanted holes in aluminum heat sinks using aluminum shafts from variable capacitors. Mailes VE3BCO showed his QSL card from W5LFL (Space Shuttle). Joan VE3FVO adjourned the meeting at 2155, after which the video tape "The Last Frontier" was shown.

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**WHAT NEXT?**

The next regular meeting of the Ottawa Amateur Radio Club, Inc. will be held on Wednesday May 2nd, 1984 at 2000 hours in the National Research Council Auditorium, 100 Sussex Drive, Ottawa.

The main topic for the May meeting will be *Developments in SSB Technology* (Amplitude Companded Sideband, etc.).

June will be devoted to *Field Day Planning*.

How about "signing-in" at each meeting? A clip board will be located at each side of the auditorium as you enter. Your name listed here gives you an opportunity to win the door prize and helps the Executive in future planning.

At each meeting, a "suggestion box" will be located at the back of the room. We would appreciate any ideas, criticisms, compliments, etc. Just drop in a note.

Remember our Club Bulletin Board at the front of the room. It is set up at about 1915 hours on meeting nights. Come early, and make use of it!

Enjoy talking with other members of the Club; enjoy the meetings--see you there!

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**FLASHBACK NUMBER 5 -- by Gord Grant VE3DY**

We suggested in a previous article that 1951 may have been a critical one for hams because of the growing potential for TVI. Well, 1952 saw some of those dire predictions come true. As more and more TV sets were sold, with little hope of a comfortable picture, TVI from Hams on HF became common. The DOT tried their best to keep things going smoothly, but the number of irate TV owners was overbearing. Many Hams were required to go on "quiet hours" to keep the peace.

This was not to everyone's liking however, and many Hams put more energy, both physical and electrical, into the VHF part of the spectrum. This was often the solution, and it permitted them to experiment and communicate with as much enjoyment as before. Some of those who chose 50 MHz very soon ran into trouble with their neighbours who were trying to sort out picture from snow on Channel 2, Montreal. An unending series of skirmishes of this sort was recorded throughout the year. Many things were discovered about other parts of the spectrum, and some Hams even developed new skills not related to electronics.

Several Hams were working two metres from Ottawa to Smith Falls on a nightly basis (maybe it could have been daily, but we didn't have as many retired Hams at the time!) and it was a guaranteed traffic circuit.

It was getting close to Field Day time that John Clark VE3CAU gave a memorable demonstration of how to rewind a 6 volt auto generator to make it give out 110 vac. John was very active on VHF, even in those days, and I think that this was a project he developed for the school at Kemptville. A generator such as this would be great on a remote farm to provide power for small tools, or even to provide light to finish milking.

-- Continued on Page 9

## CARF REPORTS ILLEGAL OPERATOR SHUT DOWN

March 25, 1984 News release from CARF reported fast action by an Ottawa amateur in reporting out-of-band operation and a quick response by DOC led to identification of an Ottawa operator carrying on an illegal operation in the 21 MHz band used by a pirate HF international group. This operator was kind enough to furnish his name and address over the air. DOC is now considering what enforcement action to take.

## CABLE TELEVISION INTERFERENCE

The CARF request to the Radio Advisory Board of Canada (RABC) to take action on the problem of cable TV interference has resulted in an official RABC working group being established to find means of meeting this important issue. It would help CARF representatives on the RABC if Amateurs would write Barc Dowden VE3TT at 29 Pellan Crescent, Kanata, Ontario K2K 1J7 about interference problems they may be encountering. In another look at interference problems, there is concern over interference from home computers to amateur equipment and vice versa. Barc Dowden would like to hear from amateurs about the frequencies involved, the proximity of the computer to the transmitter and the power of the transmitter. Names and models should be included.

## CRRL ANNUAL REPORT FOR 1983

Among the items highlighted in 1983 Annual Report submitted by Thomas Atkins VE3CDM to the Board of Directors of the CRRL were

- CRRL HQ in London, Ontario, is now accessible by hot line 24 hours per day.
- The results of the 1983 membership drive were encouraging. The down trend has been reversed and year-end totals show growth.
- A revision of the new TRC-24 was accepted by DOC after a CRRL-CARF-DOC working group reviewed some 350 questions for the amateur and advanced amateur examinations.
- Progress is reported on the Five-Year-Program leading to CRRL autonomy.
- Congratulations to Noel Eaton VE3CJ who became the first President Emeritus of the IARU and to Bill Gillespie VE6ABC of Edmonton who was selected as the CRRL Amateur of the Year.

## A NEW WAY TO VHF DX (From CRRL NEWS)

Now there's a new way to work stations on VHF. Wait until the ham-in-space mission and bounce your signals off clouds artificially ionized by RF from all the amateurs trying to work the spacecraft. The spectacular results possible with this unique emthod of propagation are detailed in April QST. (QST certainly publishes some interesting articles every April .ED)

## VE3JW — THE STATION OF THE MUSEUM OF SCIENCE AND TECHNOLOGY

Alan Boyce VE3LNH rsponsible for publicity on behalf of the VE3JW committee continues to seek operators, assistants, and technical working parties to staff the station on weekend schedules and to assist in the updating chores. A socond operator is required on weekend and vacation days to explain to visitors just what is happening. In an article in the Ottawa

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Valley Mobile Radio Club's bulletin "Rambler," Alan reports that schedules are being prepared in three month segments with an initial goal to fill the weekend afternoon segments and then try to fill the weekend mornings.

In addition, unscheduled operating within museum hours is encouraged, too, although scheduled operators will have priority. Since the museum is open from 9 a.m. to 9 p.m. every day but Monday, there is ample opportunity for retirees and shift workers to participate. Operators may work modes within the scope of their license. Unscheduled operators, particularly will need identification preferably OARC or OVMRC cards and a copy of their current license certificate.

If you would like to operate VE3JW, please give Alan a call at 722-8130 or on the Monday night net on VE2CRA.

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#### HELLO NEIGHBOUR

We note from the Journal L'Amateur VE2-CRO published by the Club De Radio Amateur Outaouais Inc. that meetings are held the third Wednesday of each month at 8:00 p.m. in the Sanscartier hall, Sanscartier Park, Sanscartier Street in Gatineau.

The Club de Radio Amateur Outaouais Inc. operates networks on 2 metres Tuesday at 8:00 p.m. on repeater VE2CSO 146.10/146.70 and a CW net Tuesdays at 9:00 p.m. on 3.560 MHz.

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#### BERYLLIUM — HOW DANGEROUS ?

How many of us have wanted to build a lamp or a beautiful set of bookends from old discarded power tubes, usually the nicer looking ceramic ones.

This so-called ceramic material is actually the very dangerous material BERYLLIUM OXIDE and could be dangerous to your health, and by law manufacturers of any device containing BeO must include a Hazard Warning Sheet describing the possible injury to humans. However, these warnings are seldom passed on with old discarded ceramic tubes, etc.

BERYLLIUM COMPOUNDS ARE QUITE SAFE PROVIDING THEY ARE LEFT WELL ENOUGH ALONE. DO NOT DRILL, GRIND, SAW, CRUSH, CHIP, FILE, PUT WITH ACID, BRUSH, OR VACUUM. IT'S THE POWDERED FORM THAT IS THE HAZARDOUS CONDITION OF BERYLLIUM FORMING BERYLLIUM OXIDE FUMES.

Most amateurs running into Beryllium do not suspect that it is the hazardous material used in ceramic power tubes, high power R.F. transistor cases and a large number of heat sinks. You can bet that any white looking ceramic material used in these electronic devices will contain the substance Beryllium BeO (Beryl, Beryllia, Bromellite) long used for its low thermal conductivity and high electrical insulation resistance in R.F. amplifiers. Remember, BeO is harmless in its present form, but it is only waiting for the unwary to tamper with it and turn it into a most certain cancer forming agent.

Keep these devices away from children and if you do make book ends or lamps do not mutilate the tube or device in any way to create the fumes. If you think that Beryllia has come in contact with you in any way which could prove harmful, call your Doctor. If you do build unique items using these devices, find alternate ways of mounting the item, e.g. plastic or nylon clamps, countersunk in recessed holes, or epoxy.

de Max Farmer VE6SL via The West Island ARC  
Newsletter

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 Flashback Number 5 -- Continued

One might even use it for radio or TV -- perish the thought. It was sad to hear that John became a Silent Key last summer.

On May 1st, 1952, the 15 metre band opened for Ham use, but CW only. Later in the year, phone allocations were designated. Also, the VE/W reciprocal agreement came into effect so that with a little paper work, Hams could operate portable and mobile in each other's countries. Isn't it strange how we take these things for granted just because they have been around for a few years? It took a lot of work to arrange some of these things.

About May of 1952, we published a membership list and it is fascinating to look this over. Bob VE3CDG made his first appearance there. (Haw--thirty years can make a difference, eh Bob!) We were also able to count twelve Silent Keys in the same list. I guess we're not here forever, though we often think we are.

It is amazing the gems that turn up in old tomes. For instance, there were 103,000 Hams in the U.S. in 1952, for an average density of 1:1000. Now, there are 350,000 for a density of 1:520. In Sun City Center, Florida, the density is 1:200, or nearly three times the National average. Verrrry interesting!

In December, 1952, another memorable banquet was held, this time at the Standish Hall Hotel in Hull. The fare was roast turkey, and for this, we had to charge the enormous sum of \$2.00 per plate. We rarely lost money on those activities, either. The speaker of the evening was A. R. St. Louis who regaled us with tales of his experiences in China some years earlier. It seems that someone else had some interesting anecdotes about China--Hi, Bill! When the Standish was torn down a few years ago, there were several stained-glass windows, about 2'x4', that were auctioned off. Now they repose behind a bar in Wakefield. Very pretty, too.

There were two things to mark 1952 that have sustained their effect on the Club to the present. In November, a motion was passed to abandon two meetings per month, and in December, the meetings were moved from St. Patrick's College to the NRC, with coffee and donuts served after the meeting on a trial basis. The trial, it seems, is still going on, but it looks like a good thing!

In a future issue, we will look ahead to the wonderful events of 1953.

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 THE WAY I SEE IT  
 by Joan Powell

Remember the Trans Canada Network of the Canadian Broadcasting Corporation, or the Dominion Network? Like the professional broadcasters, we in Amateur Radio have our nets! Many! I find that they are most helpful in trying to locate a particular person or persons. If information is needed on almost any subject, someone is usually on frequency to give help or advice. Or, just check in to say "hello". Interesting names have been assigned to some of these nets--Ottawa Pot Hole, Professional Loafers, Roadrunners and Chicken Junction, to name a few. Some of these are listed for you on Page 10. Remember to check in to our own two metre net on VE2CRA, 2000 hours local time Monday evenings. Controllers are always needed for most of these nets. It's fun, good experience, and a good chance to meet many other Amateurs. Anyway, that's the way I see it.

## NET LISTINGS -- Courtesy of Net Directory

## PHONE NETS

TIME	DAY	NET	FREQUENCY MHZ
0600	DAILY	MARITIME WEATHER	3.770
0700 to 1800	DAILY	ONTARS	3.755
0700	SUNDAY	MARITIME OLD TIMERS	3.750
0800	DAILY	VE2 PROFESSIONAL LOAFERS	3.750
0800	DAILY	HAPPY GANG QUEBEC	3.765
0800	DAILY	ONT. PROFESSIONAL LOAFERS	3.787
0900	SUNDAY	FENFREW COUNTY	3.740
0930	SUNDAY	GEORGIAN BAY A.R.C.	3.783
1000	SAT. & SUN.	OTTAWA POT HOLE	3.760
1030	SUNDAY	MONTREAL ARC FORUM	3.770
1030	SUNDAY	NORTOWN ARC, TORONTO	3.770
1100	SUNDAY	LONDON ARC	3.770
1100	SUNDAY	METRO TORONTO ARC	3.735
1100	SUNDAY	NORTH BAY ARC	3.740
1100	SUNDAY	WEST SIDE TORONTO ARC	7.192
1115	SUNDAY	SCARBOROUGH	3.762
1200	SATURDAY	ONTARIO TRILLIUMS	14.140
1300	SATURDAY	TRANS CANADA	14.135
1300	SUNDAY	TRANS CANADA	14.140
1300	SUNDAY	Q.C.W.A.	3.770
1400	TUESDAY	CLARA	14.160
1600	SATURDAY	ONT. TRILLIUMS (YL & XYL)	3.770
1630	DAILY	PROFESSIONAL LOAFERS	3.787
1645	(exc. SUN) DAILY	MARITIME WHITE CANE	3.770
1700	MON. TO FRI.	ROADRUNNERS	3.795
1700	DAILY	VE2 PROF. LOAFERS	3.750
1800	DAILY	MARITIME	3.750
1830	DAILY	CHICKEN JUNCTION	3.790
1845	DAILY	QUEBEC (FRENCH)	3.780
1845	(exc. SUN) DAILY	LAURENTIAN	3.755
1900	DAILY	ONTARIO PHONE	3.770
1915	DAILY	NORTH WEST ONTARIO	3.750
1930	DAILY	QUEBEC (ENGLISH)	3.775
1930	MON. TO FRI.	WHEEL CHAIR ROUNDUP	3.770
2000	SUNDAY	TELEPHONE PIONEERS	3.760
2000	FRI. TO SAT.	GERITOL	3.787
2000	WEDNESDAY	WHITECANERS	3.765
2000	DAILY	MANITOBA	3.765
2015	DAILY	NORTH WEST ONTARIO	3.750
2100	SUNDAY	SKYWIDE ARC (TORONTO)	3.770

## CW NETS

1100	SUNDAY	POT LID (OTTAWA)	3.620
1600	(exc. SUN) DAILY	ONTARIO DAYTIME	3.645
1830	DAILY	GREY-BRUCE	3.645
1900	DAILY	ONTARIO/QUEBEC NET	3.535
1900	DAILY	ATLANTIC PROVINCES	3.654
1945	DAILY	EASTERN CANADA	7.040
1945	DAILY	MANITOBA TRAFFIC	3.660
2000		MARITIME SLOW SPEED	3.680
2130	DAILY	EASTERN CANADA	3.652
W1AW	DAILY	REP. QST	3.580-7.080

## SWAP NETS

1000	SUNDAY	POT HOLE (OTTAWA)	3.760
1130	SUNDAY	NORTH BAY ARC	3.740
1200	SUNDAY	LONDON ARC	3.750
1930	SUNDAY	ONTARIO SWAP SHOP	3.790
1930	MONDAY	MUSKEG SWAP SHOP	3.755
2030	FRIDAY	QUEBEC RADIO NET	3.775

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**PROFILES**

**Bruce Lauer VE3MJV -- Treasurer, OARC, Inc.**

Bruce was born in Montreal in 1944, attended St. Lambert Elementary School in the '50's and graduated from Chambly County High School in St. Lambert in 1961. He then obtained his B. Sc. (Chemistry and Biochemistry) in 1966, his M. Sc. (Agricultural Chemistry) in 1968 and his Ph. D. (Food Science) in 1971 -- all from McGill University. He is now married with four children, lives in the Craig Henry area of Nepean and works as a scientific advisor with the Food Directorate, Health Protection Branch, Department of National Health and Welfare. Bruce is also Organist and Choirmaster at Northwestern United Church in Ottawa. He is a member of the Chemical Institute of Canada and the Royal Canadian College of Organists.

Bruce "stumbled" upon Amateur Radio in 1979 while searching for an evening general interest course at Algonquin College. Due, in part, to the enthusiasm and excellence of his teacher Dan Holmes VE3EBI, he obtained his Amateur licence in 1980 and his Advanced ticket in 1981. He found the theory easy, but the code did pose some problems!

Bruce uses a Kenwood TS-830S, an AT-230 antenna tuner, an MC-50 mike, a PC-1A phone patch, a Heathkit SA-5010 Keyer and SB-610 Monitorscope, a Sinclair ZX-81 microcomputer and a Hy-Gain 18 AVT/WB all-band trapped vertical antenna. He is active on 80, 20 and 15 metres and you may also hear him on two metres using his IC-2AT. Bruce is a member of the CRRL.

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**Keith Bedal VE3GFI -- Director, OARC, Inc.**

Keith was born in 1926 of farming parents. His schooling was obtained in Brighton and Belleville, Ontario. He obtained his first Amateur call VE3BPQ in 1947. That year, he also obtained a certificate in Electronic Technology from the Radio College of Canada in Toronto. His first job was with a radio service shop in Belleville. In 1948, he joined the Defence Research Board and moved to Ottawa. Thereupon, he took evening courses at Carleton University where he obtained a B. Sc. in Mathematics and Physics in 1959. In 1960, he was posted to the Prince Albert Radar Laboratory (now the Prince Albert Satellite Station-Ed.) where he held the call VESKE. He returned to Ottawa in 1965 and obtained his present call, VE3GFI. Through his work with DRB and the Communications Research Centre of DRC, Keith has made several trips to the High Arctic and has visited VE8RCS in Alert and VE8MA in Eureka, NWT. Keith is married and has three children and three grandchildren.

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**THE EDITOR'S LAST WORDS -- by Murray Strome VE3PY**

For the first time since I took over the duties as editor of the GROUNDWAVE, I am in the position of not having enough space to include all the articles I have received to date! I have a backlog, which will almost certainly mean that we will have a Summer Edition for the first time in years. It is partly because of this backlog situation, coupled with the fine efforts of the assistant editor and the publishing staff, that we have been able to get our Club Bulletin out to you on time. I would like to thank all the authors for their contributions. I apologize to those whose articles do not appear in the first issue after they hand them to me. And a special thanks to the President, Joan VE3FVO who has done an outstanding job in convincing people to supply articles. In future issues, see band activities on 80 (VE3CBE) and 20 (VE3DMC) and more profiles.

THE OTTAWA AMATEUR RADIO CLUB, Inc.  
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 THE OTTAWA AMATEUR RADIO CLUB Inc Box 8873 OTTAWA Ont. Canada K1G 3J2  
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