

DEC 83

# GROUNDWAVE



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.

An ENGRAVING PENCIL is available to Club Members to mark their valuables for positive identification in case of loss or theft. For further information, contact Penny Robinson VE3ERO at 225-1276.

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.

RENEW YOUR CARF AND CRRL MEMBERSHIPS directly with these organizations, as the club no longer provides this service to members.

DEADLINE FOR COPY is the first Wednesday of each month.

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, see Page 5.

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.

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 OARC, Inc.

SAFETY BELTS and TWO METRE RIG are available for loan to Club Members. The two metre rig may be borrowed by members who are hospitalized and the safety belts and pole straps by any member (\$100 refundable deposit is required for the latter). For the belts, contact Paul VE3ICV 820-6643 (west end) or Brian VE3JKZ 523-1535 (east end). Contact the President for the two metre rig.

RADIO AMATEUR CALL BOOKS are available for use of area Amateurs at many of the libraries throughout the region, including downtown and other city libraries, Orleans and Nepean. Enquire at the information desk of your local library for details.

MINUTES OF THE OTTAWA AMATEURRADIO CLUB, Inc.

November 2nd '83

The meeting was called to order by Jerry VE3CDS, Vice-President at 2010 hours. He reported that the Flea Market held on October 29th raised \$225 from sale of table space and \$240 from the sale of food and drinks, which was comparable to that raised in previous years. He asked for opinions regarding this year's format as compared to the flea market plus auction held in other years. Mailes VE3BCO stated that he approved of the flea market only, but felt that it ended too early in the day, and that it should have received more publicity. No one present expressed a strong opinion for an auction. One member said that everyone he spoke to liked the flea market only concept.

Jerry then welcomed the visitors John VE3FXF (who joined at the meeting) and Allan VE2AEJ. About ninety members were present. Jerry expressed concern about approval of the minutes of the last meeting as on a show of hands, it was evident that the majority of members had not received their copies of the November GROUNDWAVE. Thus, Jerry read the minutes which were adopted on a motion by Mailes VE3BCO and seconded by Mailes VE3BCO.

It was announced that a schematic diagram of the ten metre board purchased by many members would be available to them at the next meeting.

Ray VE3FN reported on behalf of CRRL that a new version of TRC-24 and TRC-25 are available from DOC. He also reported on a constructive meeting of CRRL, CARF and DOC to review examination questions. There was an excellent degree of cooperation. Ambiguous questions, misleading or erroneous answers, etc. will be corrected by DOC. On November 20th, the CRRL Executive will be holding a teleconference meeting. All members are invited to give their comments to Ray. In June, Ray met with the Burnaby Club and also with

the Cable Television Association and had a good discussion. The DOC has told them to "clean up their act". In two publications for Cable Television companies, the Association has told its members "if you receive complaints, solve the problem--the regulations are on their side". At this point, Bill VE3BDO reported on his experience of excellent cooperation by Ottawa Cablevision in solving a TVI problem he was experiencing. Ray asked for comments on plans for expansion of the U.S. phone bands. Two options open to Canadians are to completely deregulate sub-bands or to expand the Canadian phone bands.

Doug VE3CDC reported on behalf of CARF that because of the situation in Grenada, third party traffic with that country is not legal at the present. There are now only six countries on the banned list. VE7BC recently operated in China for three days and made 1300 contacts. Those fortunate enough to work him will receive QSL cards. The recent CARF Symposium held in Nova Scotia was well organized with 60-70 participants. Most were VE1's, as would be expected. There were four working sessions and one general assembly. The expansion of the U.S. phone bands was discussed, and the unanimous recommendation of the attendees was to deregulate sub-bands in Canada. The organizers were especially appreciative of the strong DOC commitment to the Symposium, with three of their officials attending (all amateurs) and contributing. In discussions of the FCC proposed no-code licence, it was agreed that 10 wpm does not impose a significant barrier to dedicated enthusiasts. There was no doubt, however, that the pressure from U.S. manufacturers will win out in the U.S. despite heavy opposition from the ARRL and important individual amateurs. CARF had asked for comments on the U.S. proposal, but the response was poor. Doug stated that all Canadian amateurs will receive the next issue of The Canadian Amateur. He also reported that the CARF membership rate will rise to \$20 in January, so he advised members to renew now.

Bill VE3ARZ, Secretary, requested volunteers to serve on the nominating committee for the 1984 executive. He pointed out that the Club is now 35 years old and with over 300 members, is one of the largest in Canada. Meeting attendance is normally about 100. The Club sponsors many activities, including the provision of assistance to other organizations in the community. Not all are involved in each activity, but because of the Club size and the wide ranging interests and activities, the Club needs a good, strong and enthusiastic executive. To be asked to be a member of the nominating committee, or to be asked to serve on the executive should be considered an honour. Bill will be chairing the committee and needs three volunteers to assist. This will be his last official act on behalf of the Club until 1990, as he will be moving to Scotland for the next six years. (Good luck Bill--enjoy your new post and the country--Ed.)

(Bill has had three members volunteer to assist him with the Nominating Committee--Merv VE3CV, Paul VE3ICV and Verna VE3ASM.)

The raffle prizes, a Balun and two RSGB Antenna Handbooks) were won by Ken VE3CCD, Mailles VE3BCO and Mike VE3MJC (two of the tickets were one above and one below those I bought!--Ed.).

Jerry VE3CDC thanked Al VE3LNH for preparing the coffee for the meeting.

Bruce VE3MJV reported that the Club needs an auditor to audit the books, which close November 30. While a chartered accountant would be ideal, this is not necessary. If he cannot find a volunteer, it will be necessary to pay for the services of a chartered accountant, which could be quite costly.

Murray VE3PY, Editor of the GROUNDWAVE reported that the publishers, Ian (VE3AMK) and Ray (VE3JRX) had both expressed a desire to take a break from these duties at the end

1983. Murray pointed out that Ian had faithfully served the Club for the past twelve years by printing the GROUNDWAVE and certainly deserved a rest. Ray has been responsible for collating and mailing the GROUNDWAVE for the past few years and is finding pressure on his time making it more difficult to do the job. The GROUNDWAVE is printed using a Gestetner machine and requires only about two hours each month. However, the machine is rather bulky. Thus, it is desirable that the person taking on this job have enough space in his home to leave it set up. Ray stated that his job requires about one evening of work, which can be done while watching television. Anyone interested in taking on either of these jobs is asked to contact Murray VE3PY or any member of the executive.

Gerry VE3GK reminded members that the "super" 1975 RSO Convention held in Ottawa in 1975 gave the Club a profit of \$3000, of which \$1500 was donated to outfit a blood testing room at the Eastern Ontario Childrens Hospital. There is a plaque in the display area acknowledging this gift and also a display of amateur radio artifacts. At the time, the Club also agreed to donate \$100 per year for upkeep of the room, and Gerry wondered if the Club was still honouring its pledge. No one could give a definitive answer, but the executive will look into this.

Merv VE3CV reported that he and VE3YK had visited the site of VE3STP to test propagation between there and Bancroft to ensure that linking at 220 MHz would be practical. Good communication was achieved, and they were able to key up all repeaters in the linking network. The original plans for 450 MHz equipment has fallen through, so suitable equipment is still being sought. Because of the untimely death of the chairman of the St. Lawrence Repeater Council, the executive has been delayed in having a meeting. Merv also reported on a fund drive underway to raise money for a repeater in Watertown. He suggested that we might consider a similar approach to raise funds for equipment to support the link system.

--Continued on Page 5

NEXT MEETING

The next regular meeting of the Ottawa Amateur Radio Club, Inc. will be held on Wednesday December 7th, 1983 at 2000 hours in the National Research Council Auditorium, 100 Sussex Drive, Ottawa.

The guest speaker and main items of business will be announced on the Capital City Net (See p. 2).

Before each meeting, the notice board is set up at 1915 hours to give members an opportunity to seek or give information, to buy or sell articles or to contact others with similar specialty interests. Why don't you use the bulletin board to arrange to exchange amateur radio publications on a loan basis with another ham who receives different magazines? Most of us have access to a photocopier, so we could reproduce interesting technical articles at a fraction of the cost of a magazine subscription. Use the Club Bulletin Board to meet someone who has a magazine which appeals to you. Come early anyway to enjoy an "eyeball" with someone with whom you have had a QSO and would like to meet in person!!

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Minutes--continued

Merv VE3CV also reported that the Radio Society of Ontario is no longer responsible for the Net on 7.055 MHz. It still operates the daily ONTARS Net on 75 metres.

Doug VE3CDC spoke about cable television interference, and reminded members of the interference throughout Ottawa on 145.25 MHz from Cable channel E. He urged amateurs to put pressure on the cable operators through the CRTC. Doug urged us to do something, perhaps through the EMI Committee. Bill VE3BDO reported that he had received excellent cooperation from Ottawa Cablevision in dealing with a problem of interference to cable users in his area from his transmissions. The problem was found to be a fault in the cable near his home. The Executive will consider steps which might be taken by the Club to try to solve the problem experienced on 145.25 MHz.

Don Muldrew, a scientist at the Communications Research Centre of DOC who was involved in the experiments performed by the Allouette Satellites, gave a most informative talk on long delayed echoes. He pointed out that there are two types--short long delayed echoes, and long long delayed echoes. He used tape recordings of both types to illustrate his talk.

Mike VE3LAR talked about the planned trip to Dayton next spring. At least thirty people are needed in order to organize the bus trip, which will be \$150 each. A \$50 deposit is required (application form appears in this issue of the GROUNDWAVE). Mike also related his good luck in obtaining the printed circuit board and advice for an article which appeared in the September issue of 73 Magazine on a system for interfacing a computer to a ham rig for RTTY operation.

Mailes VE3BCO informed the members that STS-9 is now scheduled for launch late in November. He also described the antenna he will use to try to make two metre contact. Listen to the local nets for up to date information on times and frequencies.

The meeting was adjourned at 2230 hours on a motion by Ray VE3JRX seconded by Alf VE3NH.

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CARF NEWS SERVICE

Excerpts from Bulletin  
17/83

In view of the current political and military situation in Grenada, Canadian Amateurs are reminded that this country does NOT have a third party traffic agreement with Grenada. The situation there is politically volatile and the handling of any unauthorized traffic is not legal.

The amateur station operation from space has been postponed until the 28th of November. However, astronaut Owen Garriot, W5LFL, is still planning on working two metres when the flight does take place. Plans are being made to have television coverage of a Canadian station contact-

---Continued on Page 8

HAVE YOU BEEN READING "ORBIT"?

Being of an early vintage where UHF was considered to be the band where silent dog whistles operated, I find the goings on in ORBIT both amazing and puzzling. I have an axiom that I call into play at this point: 'read the ads.'

Ad writers know that the correlation between understanding and ability to buy is not exact by any means. They are careful, therefore, to use familiar words and simple analogies. On the other hand, the people who write the text are equipped with high pass filters and an esoteric vocabulary intended for their peers who already know more about the subject than the writer of the text.

That said for those who don't know a satellite from a hailstone, first gleanings of the shoot-em-up crowd may be obtained from such ads as that of Spectrum International Inc. in the May/June issue of ORBIT (see the club copy) on page 41.

There, for those of us who read aloud to ourselves, is a pictorial of a variety of antennae suitable for the various modes of operation together with the appropriate transmitters and converters. On the facing page, old friend Ten-Tec offers a Mode B single box package to turn your present 10 metre rig into a satellite chaser.

Backing up to page 28, there is an easy to follow description of the Yaesu FT726R that allows a choice of Mode A or Mode B operation from a single transceiver. This little beauty is to be the top prize in a six-months membership drive by AMSAT, the Radio Amateur Satellite Corporation.

About this point, I found I was ready to read the editorial and background material. So what do I find opposite the editorial, some pleasant QRN radiating from an AMSAT plug for a T-shirt reading, "The Future Is Now." Nicely stated AMSAT and congrats for a fine journal.

VE3JMT

GENERIC INTEGRATED CIRCUITS TO REVOLUTIONIZE ELECTRONICS — a recent headline in the winter issue of GEARVAKf, by Mavis Thorlow, New Products Editor (GEARVAKf Committee on Consumer Affairs.

Lishnus Pass, Arizona — Franklin Alan Frumkin, President of the Guano Valley Electronics Co. has announced the world's first line of generic IC's, sure to be a boon to Amateurs and industrial manufacturers alike.

"The generic IC solves many problems," Frumkin explained, "since it has no numbers on it, users do not have to stock many different types as they do now. Since no base diagrams are published, expensive printing costs are avoided."

Generic IC's are expected to sell at some 50% less than current, highly advertised, marked brands. Plans are to sell a 14 and a 24 pin IC. The user can tell the difference simply by counting the number of pins and dividing by two. An answer of "7" means the user has a 14-pin IC. Another answer probably means it's a 24-pin IC.

Frumkin made electronic history several years ago when he marketed a line of generic things with wires coming out of them. Soon after that, food stores started selling canned corn and applesauce. Mr. Frumkin had no connection with those items.

by N8JR de Yellow Smoke  
Thunder Signals  
via St. Paul MN GROUNDWAVE

HALIFAX AMATEUR RADIO CLUB BULLETIN

The Halifax Bulletin is not the prettiest club paper that comes our way but it is one of newsiest. Editor Brit Fader VE1FQ packs the mimeo'd sheets to the hilt with the comings and goings and doings of the Halifax and province-wide hams. The current issue reports the move of 1TL to Ottawa, the trip of former Ottawan Art Grant and xyl to the Mediterranean and, sadly, a long list of silent keys: ANS, AMY, JX, AGM, ABW, and DD are VE1's that will not be responding to calls.

## RAILROAD MOBILE

The St. Paul (MN) Radio Club held a Special Event September 11th and 12th when they set up three stations to operate simultaneously from a special excursion train, powered by a restored steam locomotive (N.P. #328), which ran between Northfield, Minnesota, and Dundas in the same state. The train is owned and operated by the Minnesota Transportation Museum. The occasion of this particular excursion was Jesse James Days Celebration in Northfield.

During the operation, the stations aboard the train made a total of 473 contacts. Antennae were mounted on grab irons on the coach roof. The operators were told afterwards that many stations were calling without acknowledgement. This was due to the high QRN (S-5 constantly while the train was in motion) caused by friction bearings, steel wheels on steel rails, and the rubbing of the iron couplings between the cars. The operators said that armchair copy was not to be had and earphones were necessary to dig into the noise level to just catch the call signs of weaker signals. The stations on the train operated on 75, 40, 20 and 15 metres.

Should it be feasible and desirable to run a comparable operation on the Ottawa Museum to Wakefield run, the managers of the project should touch base with the Saint Paul Club for ideas on how best to deal with problems that would surround the project.

HF mobile, railroad version, is pretty rare stuff these days. Might make a nice project ?

## SPECIAL EVENTS

The Rochester Amateur Radio Association reports in the RaRa Rag that they have been active in 16 events since January involving as few as 5 or 6 operators to as many as 40 to 45 operators. Time of activity varied from 2 hours to over 24 hours. There have been Walk-a-Thons, Pony Rallies, Boat Races,

Auto Races, Car Rallies, Sports Contests, Carriage Competitions and other drills and exercises. N2EH, reporting in the RaRa Rag goes on to say:

"If you have ever had the desire to be in the immediate area of excitement, this is the way to do it. You may find yourself assigned to ride in a fast moving Sweep Vehicle through the mountains of Pennsylvania or perhaps on a 40' sailboat on Lake Ontario or on a large yacht on Lake Onodaga. You may find yourself right on the track at an Autocross event or you may be assigned in the competition ring assisting in the horse jumping events or perhaps on the course at jump locations to provide communications in the event a horse should fall or a rider be injured. If you would like to meet people who enjoy different hobbies from all walks of life — this is an excellent way to do it. Why not join in the fun for a day or a part of a day?"

N2EH goes on to thank all those who have helped and lets those who haven't but who are available know that the list is still open.

The Ottawa Amateur Radio Club, too, participates in quite a number of activities through the year, as do most ham groups. This may be a good time and place to remind everyone that to participate one doesn't have to be a hotshot operator or an electronic genius. It is usually sufficient to be willing, to be available, and to be a positive team worker. Let the Club Executive know that if they will take you, warts and all, you'll be there. - Ed.

"C.W. INTO FOREIGN LANGUAGES"

Robert Morden, VE3FIM has a very interesting letter three pages long in the September issue of The Larc Bulletin put out by the London, Ont., Amateur Radio Club. In his letter, he explains how, without speaking a foreign language, he communicates via CW in any of ten languages.

More detail next month.

CARF News -- Continued

ing the space craft. If all goes well it may be given national exposure on the CBC network. Mailes VE3-BCO, a CARF Ontario Assistant Director, is organizing the event. The call to be used is VE3VCA, the CARF Headquarters call.

A new banned countries list has been published by DOC in the Canada Gazette. The list includes only: Burma, Iraq, Libya, Pakistan, Somalia and Zaire.

Tom Wong VE7BC was on the air on SSB from BY1PK in Peking during the first week in October. Those lucky enough to contact him should QSL to his Call Book address: 220 North Grosvenor Ave., BURNABY, B.C. V5B 1J4

An apparent 10 GHz DX transmission record was set on October 2 when a group of VE2 operators worked over a 75 mile path between Mount Mansfield in Vermont and Mount Royal in Montreal.

A Special issue of The Canadian Amateur is being mailed to all Canadian amateurs in an effort to gain support from more Canadian operators for CARF, which works on their behalf. The issue (60 pages) has been sent.

News from the U.S. is that the military are into production on communication equipment for the 450 MHz band, which is designated secondary amateur use there. Also, the FCC has issued its order setting up Amateur administration of examinations. The program seems complicated--an administrative nightmare--and there is difficulty in determining will pick up the expenses as the FCC cannot do so. Lack of interest on the part of Canadian Amateurs has killed any further action on a similar operation in this country.

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 Criticism is like dynamite: it has its place, but should be handled by experts. (Dorothy Jackson) --TNX toTOT-Topics

LETTER TO THE EDITOR

Sun City, Fla.

The Editor:

On looking over some back issues of the GROUNDWAVE, I was tempted to write an annual summary of the activities of those years. As I read those old issues (1950), it brought back so many memories that I felt that I could write a ream on each one. Then I realized that many of the people in the Club weren't even thinking of Ham Radio thirty plus years ago! Also, they would not know many of the characters who shaped the Club in those early years.

At the risk of boring many of the present younger members of the Club, I feel that I should tickle the memories of some of the more senior hams who are still around. That in itself brings up a poignant fact of life, namely that many are now Silent Keys.

In the first issue, Nov. 1950, I had to be reminded myself that Sid Sheard VE3BCL was elected VP that year. Sid became a Silent Key on 19 October 1983.

That year was also the first time that the Club operated a station in Field Day and with a score of 1449, was the highest scoring Canadian station in the one transmitter class. Location was Lake Bernard, Que., and operators included AOX, RF, AGU, PG (now K4GV, all of whom are still around.

This was a time when we were still holding two meetings a month. On Nov. 22 1950, Jim Swail gave a talk on a Single Tube Electronic Keyer.

On Dec. 2, 1950 the Club held a very successful banquet with 117 attending. Not too bad for a membership of about 40! Ted Hollinsworth, Charb and Jim Hood arranged the event. The dinner cost all of \$1.50 per person!

At a subsequent meeting in December, Jerry Harbottle expounded on Overtone Crystal Oscillators. A film was shown courtesy of Ray Thornton, on changing insulators on a live High Tension line. This brought back memories for me as I did the photography and had forgotten, it was so long ago.

--Continued on page 10

DAYTON HAMVENTION TRIP -'84

Sponsored by

The Ottawa Valley Mobile Radio Club, Inc. (OVMRC)

The Ottawa Valley Mobile Radio Club Inc. (OVMRC) is sponsoring a bus trip to the 1984 Dayton Ohio Hamvention April 26 to 29, 1984. The fee of \$150.00 (Canadian) includes Bus Transportation, provided by Carleton Bus Lines highway bus; Hotel Accommodation at Days Inn North, Dayton, Ohio (Double Occupancy); \$1,000,000 Hospital and Medical Travel Insurance; and transportation to and from the hotel and Hamvention site on April 27th and 28th.

The bus will leave at 1200 hours on April 26, 1984 at a pick up point yet to be determined. The trip requires about thirteen hours, including two rest stops. The bus will depart from Dayton on Sunday, April 29th at 0800 hours. An attempt will be made to designate smoking and non-smoking areas on the bus. Except for specific requests, smokers will be roomed with other smokers.

Meals, baggage handling and Hamvention registration are not included in the tour price. RHO-MAR Travel Trend (Travel Trend) is handling the travel arrangements.

An initial payment of \$50.00 is required on booking or prior to

March 1st, 1984. The balance must be paid by March 3th 1984.

Documentation required for travellers is proof of Canadian citizenship (or Passport and U.S. Visa where applicable for non-citizens). It is the responsibility of the traveller to ensure that he/she has the required documents.

Cancellation prior to March 30th IN WRITING to RHO-MAR Travel Trend will result in a refund of your deposit, if you request it. From March 31st to departure, only \$100.00 is refundable, again on WRITTEN request to the travel agency.

The OVMRC and Travel Trend shall arrange for the services indicated here, but these are subject to alteration or cancellation at any time with or without prior notice for any reasonable cause. Should it be necessary to cancel this tour, the OVMRC and Travel Trend shall have no responsibility beyond the refund of all monies paid by the traveller which will be deemed to be full settlement. The OVMRC and Travel Trend shall not be held liable for the loss or damage resulting from any delays, substitution of equipment or any act, omission, negligence or any other fault of the carrier or hotelier nor for any additional expenses caused thereby, and the traveller hereby expressly waives any such claim for loss or damage therefrom. The tour is limited to a maximum of 47 persons.

TRAVELLER REGISTRATION FORM

Name..... Call.....  
Address.....  
City.....Province.....Postal Code.....  
Home Phone.....Business Phone.....  
I would like to share a room with.....

I declare that I wish to be considered a  Smoker  Non-Smoker  
Make your \$50.00 deposit payable to RHO-MAR TRAVEL TREND and mail it with this form to RHO-MAR TRAVEL TREND, Elmvale Shopping Centre, 1910 St. Laurent Blvd., OTTAWA, Ontario, K1G 1A4, Attention: Sue.

RHO-MAR Travel Trend Contact: Sue, telephone 521-7281

OVMRC Contact: Mike VE3LAR, telephone 523-1571

Letter--Continued

January 1951 was a milestone for many hams. Television came to Ottawa! For some, it was a millstone. But more of that in my next letter.

73,  
Gord VE3DY/4

P.S. November 1950 was Volume 1, Number 1 of the GROUNDWAVE.

--Thanks for your letter, Gord. We look forward to more of them from you while you are basking in the sun and we are enjoying (or putting up with) the snow, which has already arrived. --Ed.

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CRRL NEWS

-Excerpts

The 1983-84 ARRL Net Directory listing over 1200 public service nets in the U.S. and Canada will soon be available. To reserve your free copy, send a 9x12 inch self-addressed envelope with 85 cents postage to CRRL, Box 7009, Station E LONDON, Ontario N5Y 4J9.

AMSAT OSCAR 10 is giving excellent service despite a less-than-perfect orbit and somewhat weak downlink signals. Mondays UTC are QRP days and amateurs are finding that they can communicate through OSCAR 10 with less than 20 watts erp. Of course, QRO operation is discouraged at all times. Such operation "pumps" the AGC and reduces sensitivity across the passband up to -22 db. This can effectively prevent lower power stations from accessing the satellites. 500 watts erp is the limit.

The videotape, Amateur Radio's Newest Frontier, with the accent on amateur space communications, is getting good use across the country. You can borrow it from these CRRL representatives and workers: VE7CSD, VE5WM, VE3GSO, VE3CDM and VE2FNK. Your OBS has the details.

CRRL membership is holding steady at just under 5,000. This is considered excellent considering that CRRL dues have increased.

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DROWNING FAMILY SAVED BY HAMS

by Wimpy Wimberley KB4LB  
Courtesy Worldradio

On April 22nd at about 3:00 pm, Frank Ambrose N4CWJ and his wife, Barbara KC4CE were traveling east on Florida Highway between Sanford and Mims, when they spotted a pickup truck which had left the road and gone into a water-filled ditch. The cab of the truck was in the water. The two amateurs stopped to investigate and discovered that a family of a man, his wife and small children were in the cab and in danger of drowning as the truck settled into the mud.

Frank had his two metre rig in his car, so he called for help through WB4CGR/R in Sanford. Bill Irwin K3CQR responded, determined the nature of the emergency and contacted local rescue through the autopatch facilities of N4CQQ/R. Help reached the scene, and all the occupants were pulled to safety within 12 minutes! They were taken to a local hospital for treatment of minor injuries and general examination.

This points out two major items:  
1) Amateur Radio is an important tool for saving lives on the highway, and  
2) repeaters with autopatch capability can play an important role in emergency situations.

--From NOFARS-Balanced Modulator  
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FROM THE EDITOR

The end of another year is fast approaching. I would like to thank my assistant Editor and the publishing staff for their fine efforts in producing the GROUNDWAVE during the past year. All members of the publishing staff have indicated that they would like to take a break, so if you would be willing to spend a few hours per month in helping to produce the GROUNDWAVE, please contact me or any member of the Executive. I would also like to thank the 1983 Executive for their support, and to congratulate them on the fine job they have done to maintain the high Club standards over the past year. Finally, I would like to wish you all joy and happiness during the Holiday Season, and a Happy, Prosperous New Year.

THE GROUNDWAVE

MEMBERSHIP APPLICATION

OTTAWA AMATEUR RADIO CLUB, Inc. P.O. Box 8873, OTTAWA, Ontario K1G 3J2

surname: \_\_\_\_\_ Common Name: \_\_\_\_\_ Call: \_\_\_\_\_

Additional Names/  
Calls (Family Membership) \_\_\_\_\_

Address (Street/City/Province) \_\_\_\_\_

Telephone (home) \_\_\_\_\_ Telephone (work) \_\_\_\_\_ CLASS Associate ( ) Amateur ( )  
Advanced Amateur ( ) Digital ( )

ACTIVITIES (List bands worked)

CW..... AM.....  
SSB..... RTTY.....  
SSTV..... ( ).....  
VHF/FM..... PACKET RADIO.....

I am a: MEMBER APPOINTEE OFFICIAL : I have a gas/diesel generator  
of: ARRL ( ) ( ) ( ) : Yes ( ) No ( )  
CARF ( ) ( ) ( ) :  
RSO ( ) ( ) ( ) : I have a two metre hand car-  
RAQI ( ) ( ) ( ) : ried portable rig: Yes( )No( )

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

Membership Fees: Individual -- \$8.00 , Family \$10.00 (Except student and  
over 65--contact a member of executive)

I would like to see the OARC, Inc. do/not do the following next year:

I would be willing to help organize the following as a Club Activity:

(Applicant to complete at same time as above)

OTTAWA AMATEUR RADIO CLUB, Inc. Membership 198\_\_

RECEIVED FROM.....The amount\$.....  
.....Dollars

Signature of Membership Chairman

Date

THE OTTAWA AMATEUR RADIO CLUB, Inc.  
P.O. Box 8873  
OTTAWA, Ontario, Canada  
K1G 3J2



FIRST CLASS MAIL

FIRST CLASS MAIL

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G. MARTIN, OARC ARCHIVES  
1771 HUTTON AVE  
OTTAWA ONT  
K1G 1M1

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

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