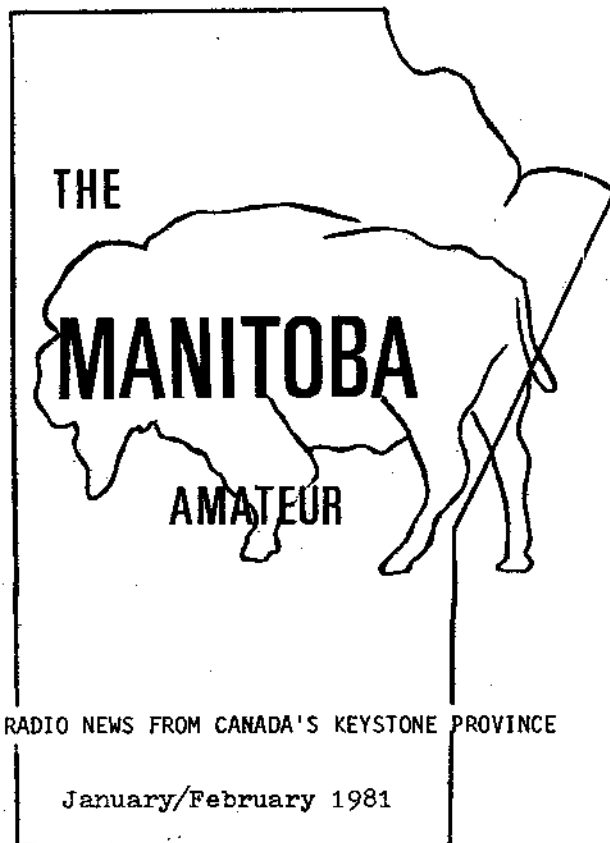


# Amateur Radio League of Manitoba

Incorporated



## The Amateur Radio League of Manitoba Inc.

The object of the League is the advancement of Amateur Radio within the Province of Manitoba, Canada, by such means as may be appropriate, including the holding of conferences, exhibitions, hamfests, contests and the making of representations on behalf of the League and its members to government or other authorities, groups or individuals.

# EDITORIAL

Allow me to introduce myself, I'm Joe Thordarson (VE4ADJ).

I've just began the Editorship of this magazine with what you have just read.

It is my, and hopefully your, intention to make the MANAM full of articles which are both of national interest and of interest to Manitoba Amateurs.

Some of you have probably already received letters asking for cryptic donations; be advised that more letters of this and other natures are forthcoming and only this editor knows who will be the next lucky volunteer.

Seriously now folks, this magazine can only be of interest to you if YOU contribute some of the vast (vast?) knowledge and experience stored within. Submitting even a joke or two, as you probably realize, will help.

The deadline for any forthcoming (darr, used that word twice) issues is the twentieth, read that 20th, of January, ~~March~~, May, September, November. If you can't remember any of these dates at least remember my Birthday September fourth read that 4th.

Please accept my thanks to all those who have contributed to this issue and to those who will be contributing to subsequent issues.

GOOD LUCK in your new writing careers.

'73

*Joe Thordarson*  
*VE4ADJ*

## PRESIDENT'S MESSAGE

In this first issue of 1981, I would not only like to pass on my best wishes to all ARLM members, but would also like to introduce Joe Thordarson, VE4ADJ, the new editor of the MANAM. Joe, who hails from Portage La Prairie, kindly volunteered to take over the position from John, 4QL, after hearing of our need. Joe is desirous of improving the content of the MANAM by including as much topical Provincial information as he can obtain. To do this he needs contributions and articles of interest from both individual Amateurs and clubs. If you have any suitable technical articles, hints and kinks about construction, or perhaps any DX tid-bits or operational news, drop Joe a card. I'm sure he'd appreciate it. Your fellow readers would too.

I'd like to pass on my gratitude, on behalf of the members of the Board of Directors of ARLM, to John, 4QL, for his unselfish support in "pinch-hitting" as editor for almost two years. Even though he is a busy man, John continued to help us without complaint until the position of editor was filled. Thank you John for your efforts.

Finally I would like to advise the membership that, following a request from the Canadian Amateur Radio Federation (CARF), ARLM will host the 1981 CARF/COC annual symposium to be held in Winnipeg on Friday 22 May and Saturday 23 May. Len, 4QL, has carried out a great deal of preliminary organization to date. Tentative bookings for registration and the plenary sessions have been made at the Airliner Hotel, and study sessions will be held at the R.R.C.C. As more information is obtained it will be transmitted on local nets and in the MANAM. Again, help will be required as organisational functions are identified. Anyone in Winnipeg, or the larger centres, who is willing to help out please let Len, 4QL, or myself know as soon as you can. National Symposiums provide an excellent opportunity, not only to meet fellow VE4s, but other Amateurs from outside the Province, as well as contributing to the furtherance of the aims of Amateur Radio. Winnipeg ARC plans to hold an auction on Sunday, 24 May 1981.

So lets make it a good one - it could be a great week-end for Amateur Radio. See you there !

# RUSH JOB CALENDAR

SUN	FRI	FRI	THU	WED	TUE	MON
8	7	6	5	4	3	2
16	15	14	13	12	11	9
23	22	21	20	19	18	17
31	30	29	28	27	26	24
38	37	36	35	34	33	32

1. EVERY JOB IS A RUSH. EVERYONE WANTS HIS JOB YESTERDAY. WITH THIS CALENDAR, A CUSTOMER CAN ORDER HIS WORK ON THE 7TH AND HAVE IT DELIVERED ON THE 3RD.
2. ALL CUSTOMERS WANT THEIR JOBS ON FRIDAY.....SO THERE ARE TWO FRIDAYS IN EACH WEEK.
3. THERE ARE NO BOTHERSOME SATURDAYS TO LIMIT OR HOLD-UP THE JOB.
4. THERE WILL BE NO FIRST-OF-THE MONTH BILLS TO BE PAID BECAUSE THERE IS NO "FIRST", THE "TENTH" AND "TWENTY-FIFTH" ALSO HAVE BEEN OMITTED - IN CASE YOU HAVE BEEN ASKED TO PAY ON ONE OF THOSE DAYS.
5. THERE ARE SEVEN EXTRA DAYS AT THE END OF THE MONTH FOR THOSE END-OF-THE MONTH JOBS.

*Credit: Red River Community College Newsletter*

# Manitoba Modulations<sup>4</sup>

## Whiteshell Whittlings

When Joe wrote to me asking for a contribution to this month's MANAM, my heart dropped into my boots! After all, nothing ever happens in the Whiteshell!

Then I realized that this area, especially the Pinawa area, is probably the area in this province having the highest amateur radio density. How could we admit that nothing ever happens here? Civic pride forced me to think of something to say --- even if I have to make it all up!

Hams keep leaving Pinawa yet the total population seems to stay the same! During the last 18 months Richard VE4AEO left us, but his place was taken by John, VE4 AHT (ex-VE1BJC), and when VE4RK left us recently Sam, VE4AKR went out and took his exam successfully. That's the kind of situation which makes me think that nothing ever happens here, but in reality it's a state of continual change!

Having all these hams around can be an embarrassment at times! We all seem to be struggling for the same piece of band space! And it won't get better, as Dick, VE4QK is running another radio course this winter and at least one candidate from Pinawa will be attending!

One blessing in having a large group of hams is in having a pool of willing helpers for special events. On Saturday February 28th and Sunday March 1st the Whiteshell Cross-Country Ski-Fest will again be held in Pinawa. This year, as I hope to be drinking rum and coke by an Arizona swimming pool by then, Kent, VE4BE will be ram-rodding the amateur efforts to provide communications for the Ski-Fest organizers, and hoping no emergencies occur!

That just about winds up the current news from the Whiteshell.  
See you all next issue.

'73

Jim, VE4FK

## Portage and Periphery.

Kathy and Ron Moore (duelling NM's) have reported that their daughter Shawna and son Shane will be attempting the amateur examinations on February 4th, GOOD LUCK to you both. Peter, VE4AEZ will soon be getting his equipment ready for broadcast. Hope to here from you Peter! Not much more news from Portage and Periphery this issue, but next issue!!!

### EXTRA ADDED ATTRACTION:

Charles Bailey VE4LB (Brandon) was chosen as the Canadian "Ham of the Year" at the 17th Annual Picnic of the International Peace Garden Hamfest. Belated congratulations to you Charles.

## MANITOBA MODULATIONS.....Continued.....

We received a letter from Ed, VE4EJ (Brandon) telling of the recent October 26, 1980, death of Lester Alexander Brown, VE4LA, of Brandon. Ed has sent this to us at the request of the late VE4LA's daughter. Ed writes: "Lester received his Amateur Radio License in May of 1968. He enjoyed his hobby at which he spent many hours a day through the winter months.

In spite of his handicap, he was able to do most of the chores around the home as well as helping his neighbours. This silent key will be greatly missed by those who knew him." .....Thanks Ed.

THE WINNIPEG REPEATER SOCIETY has done a lot for Ham radio in Manitoba. It's members and others have provided hams all around the province with a variety of repeaters which they maintain and continually try to improve. The newest and very much appreciated repeater being VE4NEP in Neepawa whose input/output frequencies are 147.81/ 147.21. This link has been well used by the hams of the Neepawa, Brandon, Portage, Amaranth and surrounding area. VE4AAF says that he can access the repeater with his hand-held out of the house, using his "rubber duckie" on a good day. As the bottom of their newsletter says, The Winnipeg Repeater Society is Dedicated to improved communications through FM and Repeater operation in Amateur Radio.

Here are a few repeater operating guidelines to help us all use Ham radio more efficiently and with more pleasure.

1. Keep conversation on the repeater of a type that others can feel comfortable with and do not tie up the repeater longer than necessary.
2. After establishing contact try simplex or a repeater suited to your needs.
3. Allow other stations to break in when necessary.
4. Use the patch sparingly the tones often distract other stations who monitor.
5. When illegal interference starts try to ignore it as this is often the best way to discourage it.
6. Keep in mind that many people who are not amateurs are listening and their impression of what an amateur is is derived from the impression you give on the air.
7. Keep your equipment properly maintained, bad mic cords, improper levels on touch tone pads, alternator whine, and poor antenna systems only detract from the utility of the repeater.

CREDIT: The Winnipeg  
Repeater Society  
Newsletter.

FREQUENCIES OF REPEATERS IN USE IN MANITOBA

Source: The Winnipeg Repeater Society.

<u>CALL SIGN</u>	<u>INPUT</u>	<u>OUTPUT</u>	<u>LOCATION</u>
VE4NEP	147.81	147.21	Neepawa, Manitoba.
VE4WPG	146.46	146.61	Winnipeg, Manitoba.
VE4MAN	146.01	146.61	Starbuck, Manitoba.
VE4GIM	146.25	146.85	Gimli, Manitoba.
VE4BKR	<del>147.81</del>	<del>147.21</del>	Baldy Mtn., Manitoba.
VE4RAG	147.84	147.24	Winnipeg, Manitoba.
VE4CNR	146.16	146.76	Winnipeg, Manitoba.
VE4HS	146.28	146.82	Altamont, Manitoba.
VE4KIL	146.25	146.85	Killarney, Manitoba.
VE4BEN	146.34	146.94	Bdn., CKX Tower, Manitoba.
VE4PIN	146.34	146.94	Pinawa, Manitoba.
VE4WDX CX Members	147.78	147.18	Winnipeg, Manitoba.
VE4FFR	146.34	146.94	Flin Flon, Manitoba.
VE4ITR	223.34	223.94	Winnipeg, Manitoba.
VE4AGA	52.760	147.120	Winnipeg, Manitoba.

# NEWS from BRANDON<sup>6</sup>

The following information from Brandon has been supplied by Lave, VE4XN.

The Brandon Amateur Radio Club meets regularly every second Tuesday of the month at 8 P.M. in the Brandon Club, 11th St. and Princess Ave., in Brandon. The club call is VE4QD. The club repeater is VE4BDN, 146.34/146.94.

COMING EVENTS: The International Hamfest is being held at the Peace Gardens, Saturday, July 11, and Sunday July 12, 1981. A very good program is planned and it is to be held on the American side this year. Incidentally, Dave is the Treasurer for this Hamfest. Another event that is planned to happen every year is an amateur radio station operated out of the Austin Thresherman's Reunion July 22, 23, 24, 25, 1981. Last year was the first time this was one at Austin and the group thought it would be annually now as there seems to be a lot of interest. In Austin the Brandon Club call VE4QD is used. Dunc, VE4CD, was very instrumental in getting this going and did a very fine job. This station operates on all the HF bands plus two meters. There are a few displays and information on Amateur Radio. This station operates out of the old railway station on the museum property during the Reunion.

## NEW NEWS

The following information was supplied to the MANAM via Harold, VE4AAF.

M.T.N. Report: Statistics supplied by Abe, VE4AEJ.

October M.T.N.

QNS 217, QTC 70, Time: 711 Minutes, Sessions 31.

November M.T.N.

QNS 257, QTC 76, Time: 763 Minutes, Sessions 30.

December M.T.N.

QNS 305, QTC 154, Time: 937 Minutes, Sessions 31.

Net Control Stations:

Sunday - VE3JJX

Monday - VE4ACX

Tuesday - VE4AFW

Wednesday - VE4PG

Thursday - VE4HR

Friday - VE4FK

Saturday - VE4CA

WHEN DID YOU SAY THAT DEADLINE WAS AGAIN.....MARCH TWENTIETH, READ THAT 20TH

.....NEP NEWS.....Continued.....

The Net meets at 6.30 P.M. local time (2330 u.t.c.) on a frequency of 3660 Mhz. All Amateurs listening to this net are invited to check-in. M.C.N. Net Manager is Abe, VE4AEJ in Altona, Manitoba.

The following information is credited to the CARF NEWS SERVICE and is HCT off the radio.

ARLM TO SPONSOR CARF SYMPOSIUM

On Saturday May 23rd, ARLM will be sponsoring the annual CARF symposium. There will be a social evening on Friday night with sessions on Saturday. At the CARF quarterly Executive meeting on January 10th the ARLM's proposal was discussed and accepted.

The following topics will be discussed:

1. Training Courses.
2. Emergency Traffic Communications.
3. Space Age Experimentation.
4. TRC-24, the syllabus for examinations will be revised and should be out by the time of the symposium.

VE4NEP NEWS

Mac, VE4TE, is now on two metre SSB with a new Kenwood 9000. He also has a new ICOM 255A on the air.

Jim, VE4AID, has been travelling throughout Ontario and Saskatchewan.

Malcolm, VE4MG, is also able to use the call VE4QST. He is giving bulletins at 0055 on 3765 Mhz whenever he has news. He copies WIAW and VE3TCA for the news. Malcolm is often checking in on the CLARA net and helps relay. He was also in the Canada Day contest using VE4QST. He has also worked VE1QST and VE3QST. Malcolm is soon going to be the proud father of a child.

Harold, VE4AAF, has moved to Langruth, Manitoba and is active on VE4NEP.

The repeater has excellent coverage into Dauphin, Brandon, Portage and surrounding area. Harold also maintains schedules with Jim, VE1BWG, former VE4AAH who sends his greetings.

Woody, VE4AAD, is checking in on the Neepawa repeater regularly. He is keeping very busy this winter and besides various projects in amateur radio he is also taking hard earned lessons in the care and feeding of a wood stove. We all offer Woody our sympathy in his suffering the most common ailment for outdoorspeople "Chainsaw Elbow".

Some of the other stations that have been heard on VE4NEP are: Bruce, VE4DC, Bill, VE4QG, Marv., VE4KE and Jack, VE4AJE. There are also many stations who are also on the air but they are far too numerous to mention.

The MANAM would like to hear from any CLARA members in Manitoba. Please contact me on VE4MAN or at 1947 Gigot Ave., PlaP MB. I'da be happy to hear from you, Tnx, Joe, VE4ADJ.

ALWAYS REMEMBER THAT UBIQUITOUS DEADLINE : MARCH TWENTIETH, READ THAT 20TH



# CRRL NEWS

CREDIT: THE CANADIAN RADIO  
RELAY LEAGUE.

As of July, 1980, there were 20,718 licenced amateur radio operators in Canada.

DOC has advised that there will be minor modifications on the 1981 February 04 amateur examinations only. Candidates for the exams will NOT be required to draw circuit diagrams; they will be responsible for drawing block diagrams of equipment, and for explaining circuit diagrams which may be given. Candidates will not be required to memorize complex formulas; they will be responsible for being able to apply such formulas, when the formulas are given.

Dates for the 1981 DOC amateur examinations are February 04, April 15, June 17 and October 21. Note that the regulations portion of all examinations now is based on the new, amended regulation, TRC-25. Copies of these amended regulations are available FREE, from all DOC offices.

The AMATEUR RADIO AWARDS DIRECTORY, a gestetner publication by Garry Hammond, VE3GCO, contains rules, checklists, maps and application form for over one-hundred and fifty of the most attractive and sought-after awards in the world. It costs \$7.50. For more information or to order a copy, write to Garry at 5 McLaren Avenue, Listowel, Ontario. N4W 3K1. (Editor's Note: this should be of interest to Harold, VE4AAF)

The CANADIAN AMATEUR RADIO LICENCING MANUAL by Ralph Zbarsky, VE7BTG. The official CRRL training manual. 100% Canadian. Now in its fourth printing - over 1500 sold. CUST- \$13.50 each, or \$12.00 each in lots of ten or more. Order from Ralph Zbarsky, VE7BTG, 3275 West 22nd Avenue, Vancouver, British Columbia. V6J 1N1.

## CARF News

Credit: CARF News Service...Radio News.

Flash: Of the 285 people who wrote the various parts of the Amateur Certificate exams in October, 1980 only 53% passed the theory and the regulations, with 40% making the grade in morse code. 197 candidates tried the advanced tests but only half (50%) of those who tried the theory passed that part. 77% succeeded in the regulations questions but only 48% achieved the 15 wpm code test.

Flash: .....CARF has been informed by DOC that although there is no formal third party traffic agreement with Italy, Canada has no objection to Canadian hams handling such traffic related to the current earthquake disaster in Italy. In addition, under an international agreement reached in Geneva last year at the WARC conference, certain amateur bands may be used by relief agencies authorized to do so by the affected government, which in this case is the Italian government.

DOC has issued an updated list of banned countries and those with which Canada has third party and reciprocal operating agreements. Due to what appears to be an oversight, the usual sentence which made blanket

CARF RADIO NEWS.....Continued.....

provision for reciprocal privileges with consenting Commonwealth countries was omitted. The Commonwealth list as published shows only Barbados, Botswana, Bermuda, India, New Zealand and the United Kingdom as having agreed to reciprocal operating. CARF has asked DOC to correct the omission. Negotiations for reciprocal privileges are underway with Bolivia, Cuba, Ireland and Italy....The banned countries list has been changed with the addition of Zaire and the replacement of the former Khmer Republic by Kampuchea. Turkey is still on the official no-no list...As a belated outcome of the wars in Southeast Asia, station XUIAA has finally disappeared from the list...A third party agreement has been concluded with Paraguay and negotiations are underway for similar agreements with Australia, Ecuador, Haiti and Nigeria.

Flash: The illegal reception and distribution of pay-TV from U.S. satellites has aroused the ire of the Minister of Communications who said recently that he will not tolerate it and will crack down on unauthorized earth receiving stations which the government claims will (quote) upset the integrity of the Canadian broadcasting system.(unquote). The first move was an action against a Winnipeg hotel, which disconnected its equipment under the threat of seizure. This action may turn into a legal battle (Editor's note: we know this now to be true). Amateur experimenters may be happy to note that the Minister has said that he is less concerned about individuals who are receiving satellite signals for their own use...Meanwhile, like some other communities with non-existent or poor TV service, the residents of Nipawin, Saskatchewan, kicked in \$50.00 apiece and are now enjoying satellite TV from their own earth station. According to a recent Globe and Mail story a Saskatchewan government official said that the DOC may be too intimidated by the popularity of these installations to remove them...it is sort of like the old days of rum-running, with the locals pitted against the feds...and judging from the growls emanating from similar communities, just as risky for the DOC inspectors who would have to play the part of the old-time 'revenooers'. In any event it would be risky politically and the Minister said he is not concerned with isolated communities which lack basic TV service. City slickers, however, are in for a hard time, for illegal receivers servicing hotels or apartments will, he said, be shut down. On the other hand, without being specific, the DOC Minister has said that certain of the now illegal stations beamed at Canadian satellites may be legalized by dropping the present licensing requirements for them.

Do you have something to sell? Do you have any suggestions for future issues? Please send all correspondence to Joe Thordarson, VE4ADJ, 1847 Gigot Avenue, Portage la Prairie, Manitoba. R1N 3G3.

THE DEADLINE FOR THE NEXT ISSUE OF THE MANAM IS MARCH TWENTYETH, READ THAT 20TH

# D-O-C NEWS

The following is a news release communique from the Department of Communications.

## CANADA AND THE U.S. TO STUDY USE OF SATELLITES FOR MOBILE COMMUNICATIONS

OTTAWA: November 28, 1980-- Minister of Communications Francis Fox announced today a \$2.2 million program of studies aimed at exploring the use of satellites to improve mobile communications.

The studies are to be sponsored by the Department of Communications in Canada and the National Aeronautics and Space Administration (NASA) in the U.S. The program is another in a series of joint Canada/U.S. space ventures since 1959, which has included the Alouette, ISIS and Hermes satellites, as well as the Search and Rescue satellite (SARSAT) program currently underway.

It is believed that a satellite-aided, mobile communications system could provide a variety of mobile telephone service without the distance restrictions of terrestrial systems. It would also be possible to communicate from regular telephones in homes and buildings to mobile telephones in private cars and commercial vehicles anywhere in North America. (editor's note:-- you've always wondered what those extra little asterisks were in your push-touch telephones, maybe they are there to hook into a nation wide satellite for cheap(?) communications) In addition to its *MANY* public uses, Mr. Fox said that a satellite system would provide mobile service to various Canadian government users, notably the Department of National Defence.

The studies on the feasibility of using a satellite for mobile communications will precede a full mobile satellite(MSAT) program submission which could be made to the federal cabinet in 1982. If approved, the full co-operation program could start in 1983-84 and would cost between \$400 to \$500 million, which would be shared between Canada and the U.S.

"The Department of Communications will develop plans for maximum involvement of Canadian industry in all phases of any joint program," Mr. Fox said. (Editor's note:--obviously an effort to curb unemployment) The Minister noted that while the objective of the program would be to significantly improve mobile communications, the satellite program would, if approved, have a number of spin-off benefits for Canada. "Not least of these would be the development of advanced technology here in Canada and the stimulus to our aerospace industry."

Consider the last hour-----

For "59 minutes and 59 seconds" the sun has acted one way. In the very last "second" since your great-great grandfather's time till now, it's changed its behavior. To the best knowledge of the experts in the field-- it can't be explained (at least at the present time) Courtesy The Hamilton Amateur.

THE DEADLINE FOR THE MARCH ISSUE OF MANAM IS THE TWENTIETH, READ THAT 20TH.

.....DOC News.....Continued.....

The following excerpt is from a Department of Communications Radio Act Notice No. DGTR-019-80. Dated at Ottawa the 6th of November 1980.

SUBJECT: Amateur Service-Countries that forbid radiocommunications with amateur stations under their jurisdiction-Transmission of international communications on behalf of third parties by amateur stations-Reciprocal operating privileges.

REFERENCES: Article 41 of the International Telecommunication Union Radio Regulations and paragraph 48 (D) of the General Radio Regulations, Part III.

This notice replaces and cancels DGTR-004-s dated 8 February and DGTR-017-78 dated 6 January 1979.

1. The following countries have notified the International Telecommunication Union that they forbid radiocommunications with amateur stations under their jurisdiction:

Democratic Kampuchea	Viet Nam (Socialist Republic of)
Iraq (Republic of)	Yemen (People's Democratic Republic of)
Libya (Socialist People's Libyan Arab Jamahiriya)	Zaire (Republic of)
Somali Democratic Republic	
Turkey	

2. Canada has concluded agreements with the following countries to permit amateur radio operators to exchange messages or other communications from or to third parties.

Bolivia (Republic of)	Jamaica
Chile	Mexico
Columbia (Republic of)	Nicaragua
Dominican Republic	Paraguay (Republic of)
El Salvador (Republic of)	Peru
Guatemala (Republic of)	Trinidad and Tobago
Guyana	United States of America
Honduras (Republic of)	Uruguay (Oriental Republic of)
Israel (State of)	Venezuela (Republic of)

Negotiations for the establishment of similar agreements or arrangements with Australia, Ecuador, the Republic of Haiti and the Federal Republic of Nigeria have been initiated.

THE DEADLINE FOR THE MARCH ISSUE IS MARCH TWENTIETH READ THAT 20TH.

# Statistics

## REPORT OF THE MANITOBA A.R.R.L. EVENING PHONE NET.

DECEMBER 1960.

Number of Sessions ..... 31  
 QNI Total Check-ins ..... 1233  
 QTC Formal Tfc. during net 68  
 QTC Formal Tfc. by the individual Stations:-

VE4PE 102	VE4FK 30	VE4AAU 14	VE4ADS 6	VE4EN 2
VE4AEJ 93	VE4TE 27	VE4CR 13	VE4AFZ 6	VE4GW 1
VE4RC 79	VE4JE 19	VE4NM 8	VE4AGR 6	VE4LN 1
VE4JA 50	VE4AED 18	VE4AES 7	VE4NE 6	VE4CE 1
VE4ACX 47	VE4IX 17	VE4CF 7	VE4LU 4	
VE4QU 39	VE4AAD 15	VE4LB 7	VE4XN 4	

TOTAL:- 629.

Check-ins remained about the same as November but formal traffic by the individual stations increased by approximately 134 per cent due to the Christmas season.

Band conditions were quite good during the month with the odd exception. We regret to report that Vic., VE4GJ suffered a heart attack and is in the Grace Hospital. (Editor's note- Vic. is reported to be feeling better and is out of the hospital) Al VE4ABU (his son) reported that he was doing well.

We received a report from Gordon, VE4LN that Howard VE4US is at present in the Brandon General Hospital recovering from surgery. We also learned that John, ex-VE4CW will be undergoing an operation in a Calgary hospital very shortly.

Steve, ex-VE4AI, is now signing VE7KZ in Sidney, B.C.

Happy New Year to all.

'73  
 Bill, VE4CR  
 Secretary

Do you appreciate the better things in life? Would you want to be a rich and famous writer? would you want to be the envy of all your friends? If your answer is YES to any or all these questions, or even if its NO drop us a word or two as to whats happening with you and I'll personally guarantee you that the above are valid questions.....thanks-Joe,VE4ADJ.

.....DOC RADIO ACT.....Continued.....

3. Canada has concluded agreements or arrangements with the following countries to permit licensed amateur radio operators to operate radio stations while temporarily in the other country:

Austria	Indonesia (republic of)
Barbados	Iceland
Belgium	Israel (State of)
Bermuda	Luxembourg
Eotswana (Republic of)	Netherlands (Kingdom of the)
Erazil (Federative Republic of)	New Zealand
Chile	Nicaragua
Columbia (Republic of)	Norway
Costa Rica	Panama (Republic of)
Denmark	Peru
Dominica	Philippines (Republic of the )
Dominian Republic	Poland (People's Republic of)
Ecuador	Portugal
Finland	Senegal (Republic of the)
France	Sweden
Germany (Federal Republic of)	Switzerland (Confederation of)
Greece	United Kingdom
Guatemala (Republic of)	United States of America
Haiti (Republic of)	Uruguay (Oriental Republic of)
Honduras (Republic of)	Venezuela (Republic of)
India (Republic of)	

Negotiations for ~~the~~ establishment of similar agreements or arrangements with the Republic of Bolivia, Cuba, Ireland and Italy have been initiated.

.....DOC NEWS RELEASE.....

Dateline: Ottawa, November 20, 1980--Communications Minister Francis Fox announced today that his department is extending the life of a satellite television project which enables residents in about 75 British Columbia and Ontario communities to receive Canadian TV programming. Residents in many of these remote communities have had little or no access to television programming directly into their homes. (Editor's note-we must really need television to entertain us to go to such lengths) These TV projects are among 19 approved, in principle, by Mr. Fox.

.....Oil workers aboard a drillship know what isolation in Canada's frozen North is really like. But now, a Canadian satellite will be keeping them in touch with what's going on thousands of kilometers away, thanks to our portable earth stations. As well, in the future, geophysical and exploration data may be communicated between the drill sights and Calgary headquarters.

Bring your needs to ham radio. Let your desires be known. Participate and enjoy. The MANAM needs more Manitoba news, things like DX, 75Metre, anything.

# Interesting Items from Other Sources of Information

The following exert is from The Hamilton Amateur.  
What To Do Before Calling The Service

1. Never send for a service man until everyone concerned has had time to form an opinion as to what is wrong. Allow each person the opportunity to try to correct the problem. Whenever possible, turn all controls.
2. After several days, when the emergency has reached the apex on the critical list, place an urgent call for service.
3. Alert everyone so that all personnel will be prepared to make it as "tough" as possible for the representative to get a logical story.
4. Hide all instructions and prints connected with the instrument involved. It is also desirable to hide one intricate part taken from the instrument. This part can be quietly slipped into the mechanics care when it appears he is reaching the boiling point.
5. Have at least eight recently graduated Scientists present to ask highly technical questions which are in no way connected with the immediate problem.
6. The minute the service man arrives, ask what caused his delay, and that it was understood that he was to arrive two days ago. Before he is able to answer, ask him how soon the unit will be back in operation.
7. Be sure to give him a helper who has never seen the instrument before and also be sure the helper has no knowledge of the project.
8. The instrument should be as dirty and as greasy as possible.
9. Ask him again how soon the instrument will be operating.
10. When he finally gets the instrument fixed, tell him what a swell job he has done, although he should have done the job twice as fast.
11. After the technician leaves, call his Supervisor and tell him that the instrument is worse than it was before.

The following is credited to The Groundwave, the official bulletin of the Ottawa Amateur Radio Club.

## GEMS FROM THE JUNQUE BOX

1. This gem deals with grommets and tooth paste tops. What have tooth paste tops got to do with ham radio, you say? Well, they make good knobs for electronic equipment controls. How do I attach them to the shaft? That's where the grommet comes in. Just slip a 1/4 inch grommet over the shaft, wind the tooth paste knob on tightly and presto, you have a fancy knob for that control.
2. Swipe a few of the XYL's Clippies (Editor's note:-- ladies I hope you know what that means because I don't) Refer to those little double pronged flat clips for curls. Cut off one set of prongs from some of them and presto, you have a good supply of heat sinks for soldering diodes, transistors, etc.

THE DEADLINE FOR THE MARCH ISSUE OF MANAK IS THE TWENTIETH OF MARCH.

.....INTERESTING ITEMS.....Continued.....

Taken from VE6 Newsletter..... Those who work the satellites should send some #10 SASE's to:-

AMSAT QSL Bureau  
c/o William Luebkenann  
116 Country Farm Road  
Marlton, New Jersey  
08053 U.S.A.

Taken from Zero Beat, the bulletin of the Victoria Short Wave Club.

An interesting book on ham band conditions, sunspots, DX is called the "Shortwave Propagation Handbook", which places a relatively complex subject into terms that are easily understood. It is available from CQ Magazine or The Ham Radio Bookstore, Grenville, N.H. 03048 for \$7.50 U.S. funds. (Although it has probably gone up by now, who knows--Ed.)

Here's an interesting article on personal communications from The Canadian Amateur, a CARF publication.

Cable TV companies are coming up with a method of allowing paying customers to use a recently developed two-way speech facilities to open up a type of random access personal communications resembling CB radio (heaven forbid-Ed.) It would not require a licence and would hook up CB repeaters and thus individual CB sets to this system which would extend the range of CB communications. A trial run is being held in Brockville Ontario Cable System. The addition of a means of discrete addressing would provide some interesting sort of competition with the telephone companies.

The following puzzle is brought to you by High-Q, The Lakehead Amateur Radio Club's magazine. Hope you enjoy it and if you want more of this sort of thing send me a letter(VE4ADJ). Please don't make them too complicated as I do all the typing myself. If you absolutely can't figure it out, let me know and the answers will be printed next issue.

#### ELECTRONICS

NTSRVRHCKTEHAMTGTGR  
DYDTURECYOPHRTNAFWWK  
NREMBTETMGBOVOWVLKIF  
SKCBZVAVTYIKJHQCEKAA  
LZQUGNHFOITSFJLYIARN  
OSDNKWNLETKDKAECREWU  
LYCEPJNIGXUSPRJESPLX  
PNTAGVUCUFDGCFXIDNKI  
UNVVPJPNOEELASMDZRU  
ABUJBAORPTAXUTRUCUCFI  
RGXZDRCKXCASDSYTCWJ  
AKWETLRIKTWRWEPRLDM  
QFGCIQCEJUCZKFCEDQCS  
JTECRIYQQSAUVETCAGAR  
SLPXDXDIBERWDRTWAKPD  
EEJACCOMPUTERPNCJENEY  
VYRPNHKLISOJCACITXMDR  
NXBYTJFKCCOXVVRNHHU  
REVIECERXFBREHNGUMPB  
ANS SGCKGAUCTJACHONSF

.....Continued next page.....



FIND THESE HIDDEN WORDS IN THE PUZZLE ON THE PREVIOUS PAGE:

ANTENNA	CAPACITOR	COMPUTER	ELECTRON
HAM	INDUCTOR	KEYER	OHM
QSL	RADIO	RECEIVER	RESISTOR
SPEAKER	SWITCH	TOWER	TRANSMITTER

If you have any puzzles or the like to submit, please do.

The following is an excerpt from an article on interference from The Groundwave, The Official Bulletin of the Ottawa Amateur Radio Club.

Interference from Amateur Radio transmitters usually shows up as garbled voices from SSB transmissions. The seriousness of the interference depends on the strength or power of the transmitter, its location with respect to the audio equipment and the shielding properties of the construction material of the building in which the audio equipment is located. These factors are generally unchangeable, so the solution must be found at the audio equipment.

Specific conditions which aggravate interference problems include:

1. Length of the connecting cables between audio components such as phono to receiver; tape recorder to and from receiver to speakers.
2. Improper grounding of audio equipment (or transmitter).
3. Insufficient shielding of audio reproducing sources such as tape playback heads in tape decks, VCR recorders, etc., phono pickups in record players and microphones.
4. Inadequate shielding properties of connecting cables used between components. (look for broken ground connections in shielding )

It is first necessary to determine that an interference problem is really caused by your transmitter. This can be easily verified by ensuring that the interference occurs only when you are transmitting ( although it may not necessarily occur all the time when the transmitter is in operation ).

This is only part of the article which further goes on to correcting such interference. If there is sufficient interest in these types of articles please drop me a line or you can call me on VE4JFAN . This particular article will be concluded in the March issue of MANAM.

Question:-- If anyone knows of a stashed case of correction fluid for typewriters, LET ME KNOW (VE4ADJ ).

THE DEADLINE FOR THE NEXT ISSUE OF THE MANAM IS MARCH TWENTIETH, READ THAT 20TH.

# Lets get TECHNICAL

The following is an unpaid technical announcement gleaned from Groundwave, the Ottawa Amateur Radio Club News.

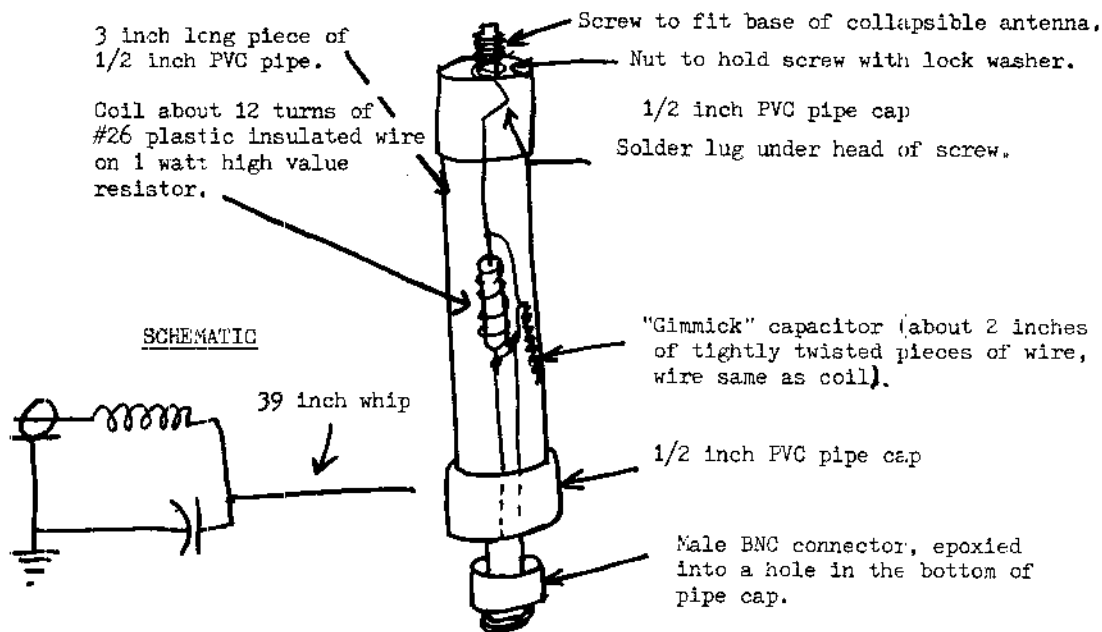
What we will be trying to incorporate into the MANAM are technical-type articles, how-to's, etc. If any interested ManHams have any short-cuts, new inventions, better mousetraps, send them around to me (VE4ADJ) for perusal and perhaps publication. I will be most happy to hear from you.

## A HALF-WAVE ANTENNA FOR HAND-HELDS.

The flexible "rubber duck" antenna used on most two-metre hand-helds is a poor antenna for two reasons: 1. It is physically short and thus relatively inefficient. 2. The rig-plus-user's-hand make a poor ground plane which is required for proper operation of a quarter-wave antenna.

This article describes a collapsible half-wave antenna for use in fringe areas where the flexible antenna is unsatisfactory.

Being a half-wave antenna, the radiation pattern is higher above the ground, away from the user's body, and no ground plane is needed. I have found this to be much more effective with my TR2400 than the flexible antenna supplied. The antenna consists of a 39 inch whip mounted on the enclosure for the L matching network made from 1/2 inch PVC pipe and end caps as shown below. A male BNC connector at one end is used to connect it to the rig. The connector is mounted on one pipe cap and held in place with epoxy glue. The coil and "gimmick" capacitor are made as shown using small gauge (24-28) wire. One end of the gimmick is soldered to the BNC shell and the one end of the coil to the BNC center pin. The other end of the coil is connected to the screw that attaches to the whip, the whip attached, the BNC plugged into an SWR bridge which in turn is connected to the rig. Keeping the gimmick close to the coil, the network is adjusted for minimum SWR. The coil and gimmick are epoxied together and the unit assembled in the pipe as shown. If loose, the caps may be epoxied in place.



# THE LAST PAGE

The last page of any book, magazine, publication, whatever is always the hardest page to reach. The last page usually signifies the end, not the end of an article, the end of a series but just the end, no more to come.

We ManHams have enough resources, enough members, enough news and certainly more than enough experience that we do not need a last page. The reason is, we always have just a little bit more to say. That being the case, we now realize that this last page is merely a figment of our imaginations.

The ARLM thanks its members and join together to wish each one a Very Merry Christmas and a Happy and Contented New Year. May one of your New Year's resolutions be to become more involved in Ham Radio.

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A FINAL REMINDER: THE DEADLINE FOR THE MARCH/APRIL ISSUE IS MARCH TWENTIETH.

