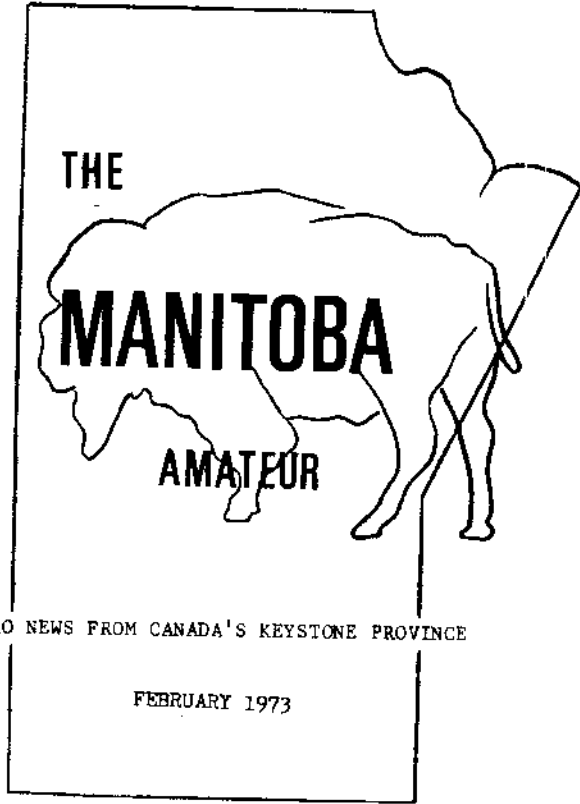


Amateur Radio League of Manitoba

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 of behalf of the League and its members to government or other authorities, groups or individuals.



Editorial.

The digital course for amateurs is now underway at Red River Community College and is well attended, with approximately 15 hams, including yours truly. The course consists essentially of: -

1. Logic concepts, symbols, gates, truth tables, expressions and boolean algebra.
2. Binary number systems, flip-flops (mono and bi-stable).
3. Counters and shift-registers.
4. Display methods (numeric).
5. Applications.

Those who could not make it to these sessions, and others who desire this valuable information, may have an opportunity this fall. If participation is adequate the course will be repeated at RRCC as part of the regular Evening School Program commencing in September.

I have also had requests for a course in linear IC's i.e. voltage regulators, operational amplifiers and frequency response, etc. If enough interest is indicated (contact yours truly) perhaps this course can also be inaugurated this Fall.

ARLM elections for Directors in all areas of Manitoba are coming up soon. Don't forget to get in your nominations for your district (see elsewhere). Also, don't forget to mail in your membership fee of \$2.00 for ARLM-1973 if you have not done so.

Having just read the February QUA I must accuse VE4SW of presenting several prejudiced editorials. In addition I must also accuse him of not being an ARLM member, if only to receive the Manitoba Amateur and be "up" on amateur news, a thing which I believe is necessary for any active and interested amateur in Manitoba. Moreover I must admonish him for not keeping an open ear at the last WARC meeting when, in no uncertain terms, he was informed that ARLM had advised members of the activities of CARF, a fact which did not investigate. Again, I must admonish Sandy for not taking a positive attitude towards the CARF/ARRL "growing pains". He even admits in his editorial "we should have our own national body."

VE4OL

THE PREZ SEZ

By the time this issue is in the mail, all those who are associate members of C.A.R.C. should have received their copies of the newly revitalized magazine "The Canadian Amateur". This publication will be the voice of C.A.R.C. and, at this stage of its existence, will require all of the support of its C.A.R.C. members, can provide. Supplementary copies will be mailed to the executives of provincial organizations, District As Clubs. An associate membership cost of \$4.00 - much less than the price of a package of cigarettes weekly - we can receive a National Amateur magazine, which is long overdue. It will contain information, news, technical articles, news for hobs, as well as comments, and editorial comment.

As V4's, we should take pride in the fact that C.A.R.C. started in Manitoba; as Canadians we should endeavour to make this our voice of Va.

D,
V4AAI.

A.R.L. INFO.

An above stated A.R.L.K. executive meeting was held in Winnipeg (due to the inability of the Pres. to make it to Brandon)! High on the agenda was the resignation of Rolly, V4ARS, for many years our stalwart treasurer. All present felt that his long and meritorious service in editing, mailing, letter writing, and keeping our general hall in the rear of the executive should not go unrecognized. Rolly, would that he all served as faithfully as you have.

Let, W4AE, is the new treasurer and will be asking to take your share, \$1.00, of the

Publication of a computer print-out type of V4A Call Book is in hand and will, in the first instance, be mailed to all V4's. Subsequent copies will only be sent to A.R.L.A. members of record.

An "on the air" executive meeting is proposed for 3960kHz, after the traffic net on Sunday, 19th February, 1973. Would all executive members please advise if this is convenient. An agenda will be mailed.

An election of Directors should be in effect of 1973. A Nominating Committee is required - would executive members, as well as regular members, please forward their comments and suggestions for a time and place of meeting. My only thought is that any voting during Auction might be as good a time and place as any. This can be discussed at our "on the air" meeting.

HAVE AN EYE FOR YOUR LIGHTS, LATE?

Amateur Radio League of Manitoba

Incorporated

ARLM DIRECTORS - ELECTIONS

According to the ARLM Constitution Article 73 - "Nominations for Directors for each district must be submitted in writing to the Secretary not later than the first day of March in each year, and must bear the signature of at least three (3) full members residing in the district for which nomination is made, as well as the consent of the nominee".

Your present Directors are:-

<u>Eastern</u>	1. Steve Grisholt	VE4AT	President
	2. Bob Frowles	VE4JK	V/President
	3. Tom Ellis	VE4SE	License Plates
	* 4. Len Herrington	VE4CL	Treasurer
	* recently replaced Rolly Crull, VE4RS.		
<u>Western</u>	1. Ron Sanchuk	VE4GR	
	2. Dave Snyder	VE4KI	
<u>Northern</u>	1. G.O. (Chris) Atwood	VE4NI	
	2. R.O. Russenolt	VE4RL	

VE4CL.

NOMINATION FORM

We hereby nominate _____

as Director for the _____ area

Signed 1. _____ date _____

2. _____

3. _____

Concurred (nominee) _____

Mail to ARLM, P.O. Box 475, Winnipeg, R3C-2J3 by March 1, 1973.

FLIN FLON NEWS - VE4NI

We have lost Percy Pinault, VE4PI, who has moved to Kamloops, B.C. but we have several others who have taken CW training with VE4BH (who is 1st class CW operator) and theory with VE4SC (Len Croighton) who has excellent training on theory. All some of them lack is the guts to take the exam!

How do you get through that it is not that hard, even if they fail the first time?

Ken, VE4QN, has given invaluable help in the phone patch in this area. He works for Churchill Power and spends so many days at Island Falls, north of here, where he has been heard working portable.

Bill Kirkwood, VE4SQ, just returned from a 6000 mile round trip in a new car - Montreal to Vancouver and points in between. Bill will be retiring in about a year and expects to go to Coast.

Myself, I have been enjoying God's Country and the beautiful lakes up here with my 50 HP Mercury and trying to catch some of the Big Fish we have. Also working portable from my cabin at Baker's Narrows 20 minutes south of here. The 10-10 Club on 10 meters interests me and a lot of other people when 10 meters is open.

VM4SC (Len) is active on Amateur Radio Teletype - Len had a high wind blow down his beam antenna this last summer but everything back to normal again.

VM4EH is working contests and scoring points. Howard and Len (mainly) held a successful Field Day CW operation.

73,
Harry, VE4NW.

MID-NORTHWESTERN RADIO FROM DAUPHIN

- VE4NQ - Busy settling in to new quarters. Left a new house for a larger, old one so he would have more burning room. Also because there was a large, convenient maple tree trunk to tie his beam to.
- VE4NE - New addition to the retired list. Still works a few hours a week when it doesn't interfere with his wine making.
- VE4RL - Rigless for some time. Sporting a huge station wagon that should have room for another mobile.
- VE4RZ - Last we heard of him he was headed west but would bet we haven't heard the last of him.
- VE4HF - It was either a new rig or a trip to the old country and he ended up with neither. Let's make it this year Larry.
- VE4LW - Rig covered with cobwebs but he claims he LISTENS a lot!
- VE4VL - Barney, one of our patriarchs. Held the call VE4CU in Roblin in '46 and was VE4ABE before that in Swan River. Works 15 and 40 CW and doesn't turn down any DX.
- VE4UD - Our newcomer. Formerly a VES and still trying to get his SRI50 on the bands.
- VE4S3 - Our executive director. Does everything but operate.
- VE4PA - There will be less QRM come spring.
- VE4NB - Ebuilient Noel. We met him at Xmas time in that store and had a good yack with him and his XYL.
- VE4DP - The saint from Ste. Rose. Hasn't been heard from since November.

VE4PA.



A PUBLICATION FOR THE RADIO AMATEUR
ESPECIALLY COVERING VHF, UHF AND MICROWAVES

OTTO H. MEGINBIR VE6OH
1170 BASSETT CRESCENT, N.W.
MEDICINE HAT, ALBERTA, T1A 6Z9

VHF COMMUNICATIONS is a quarterly magazine published in February, May, August and November. Each edition contains approximately 60 pages of technical information. Most projects described are available in printed circuit board kit form. Normally, all parts are supplied except the resistors and capacitors. The magazine is published in Germany, and had its beginning in 1969.

SUBSCRIPTION RATES

Current year, or 1972		\$4.70
	airmail	5.95
All back issues, 1969, 1970, 1971.		
plus binder		12.00
single copies, any year		1.35
	airmail	1.75

Airmail, postage on kits, customs duties, etc., are the responsibility of the subscriber. All items are mailed directly to you. A complete price list of all kits is in the making. The following kits and list is a sample of what is available:

Digital calibration generator - 5 I.C.'s, 1 diode, 1 KHz. crystal, outputs of 1 Mhz, 500 KHz, 50 KHz, 10KHz, 5KHz and 1 KHz. D04BG 001 \$40.00
There is a D04BG 002, 1000.1 marker and the power supply for above. Extra.

Band scanner - 5 transistors, 2 diodes DL9FX 001 \$7.95

Band scanner - 11 transistors, 4 diodes DL9FX 002 15.00

VFO 5-5 Mhz, low pass filter, power supplies, 2 Meter SSB transceivers, VXC's, phase-locked oscillators, 124-450 and 1296 converters, electronic fuse, linear amplifiers for various VHF bands, four digit frequency counter, digital discriminator, 70 cm transmitter, speech compressor, transverters. Also available are crystals and crystal filters.

Your orders and inquiries will be appreciated, and promptly taken care of.

HERE AND THERE

Heard V41W is now on 28's from Panitou. Also W4ADJ, at Miami, may be on soon!

The DX Callbook, plus supplements, are held by WARC for any members who need addresses for DX stations that they have worked and also to QSL. The callbooks are at the home of W4ASJ and a telephone call at a reasonable hour (335-4675) will get you any desired address.

A REPORT ON CANADIAN AMATEUR RADIO PARTICIPATION
FOLLOWING THE EARTHQUAKE IN NICARAGUA by Sandy, VE4SW.

This bulletin is being published, relief operations for thousands of homeless people in Managua, Nicaragua are still being carried out. However, one thing is clear - with Amateur operators to carry thousands of messages in and out of the disaster area, assistance to the people of Nicaragua came quickly with food, portable housing, medical supplies, medical personnel and financial assistance being freely offered by the governments and agencies of many countries. Here are a few of the things that Canadian amateurs did to help.

The quake struck Managua on Saturday, December 23. On Monday, Dec. 25 I tuned on to 14.170 at 18:25 GMT, where VE3IG can usually be found. Emergency operations were already under way. By that time, Tony, W4SCRB, had already been authorized by FCC to operate on 14.137. From about 19:00 to 22:30, 14.170 was used solely for an emergency traffic net, with net control, Andy, VE4AGJ. Tony cleared his frequency at 23:14, when panic conditions were going out. This was the only day, to my knowledge, that Tony occupied this frequency.

The emergency net functioned from that Monday until Sunday, Dec. 31. In that time, stations from all the YN call areas checked in. The response from Canadian amateurs was tremendous! It's impossible to know how many stations were waiting in the background in case they were needed. At one point a roll call was taken, with 90 stations listed.

Probably, many of those "old-faithfuls" who showed up day after day just monitoring 14.170, will never receive credit for their work. I recorded some of their calls - VE1ASG, VE1AIG, VE2DH, VE3AUN, VE3CXB, VE3IG, VE3CQU, VE3GKX, VE3GZY, VE3VL, V.3WU, VE4ZC, VE4SN, VE5BC, VE6AH, VE7AP, VE7AH, VE7ZQ. I apologize for any that I might have missed. Many DX stations also assisted on 14.170.

The following YN stations used 14.170 for traffic in and out of Managua: YJAL, Mike and Allen, YJRB, John, and YJRED, Jamie. Stations from all YN call areas checked in as well.

Credit must also be given to the hundreds of US and DX amateurs who assisted in relief operations. Several 20 Meter net frequencies were established and held until the band closed each day, at which time, stations shifted to 40 and 80 meters. I must apologize at this time to any stations that I had to ask to QSY because they were unknowingly transmitting on or near one of the net frequencies. In all cases, stations were very obliging.

Credit must also be given to the Canadian radio, press and television systems for their co-operation. In most major cities the media announced names and phone numbers of hams who could be called and also interviewed many hams. Ron, VE3AUM, was shown on the CBC National News and several others made the local news shows. In Winnipeg, thanks to GKY and GJOB for their efforts. Somebody commented "It's a shame that we have to wait for an emergency to arise before Canadians can be made aware of our capabilities."

In summary then, I think that it would be a good idea for the US and Canadian governments to allocate certain frequencies within the present bands as "Emergency Frequencies". In this way, all amateurs wishing to assist in emergency communications would know exactly where to look. I might also mention that VE1ASJ did a tremendous job. For a while Andy was hampered by several phone calls at 2 and 3 A.M. and lost much sleep because of it. As well, Andy cancelled a trip to South Africa and a DX'pedition to ZD9 because of the earthquake.

Yes, it is unfortunate that disasters such as this do occur but I think that it is a good thing that amateurs are around who will freely give their time to assist if they are needed.

to the EDITOR

3rd December, 1972.
Laredo, Texas.

Amateur Radio League of Manitoba,
Box 475,
Winnipeg, 1. Manitoba.
R3C-2J3

Dear OM,

Enclosed is my cheque for \$5.00. My intent is that a portion of this amount be used to cover membership fees for 1973.

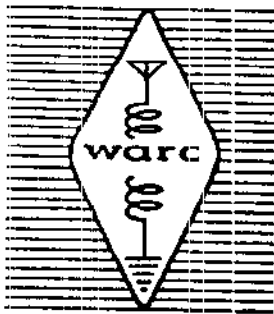
Please use the balance of the amount to help pay for the high postal rates to get your "Manitoba Amateur" to my QTH, or for whatever other need that arises. I feel that \$2.00 is hardly more than a nominal fee for the service that you supply and I would encourage a sponsorship for increase since it would lead to the stronger representation that we would like to have, especially in light of recent FCC announcements.

Thank you for a professional publication. It has done well to keep me in touch with the outlook from W. Land, 73.

Sincerely,
Don Sharkey, VE4CQ/4B
22 A. Thompson Road,
Laredo, A.P. 78040, Texas, U.S.A.

FOR SALE

813 Xctr A./C. 500-1150, VFO
SE-71 Recvr Hifi/AM/FM
Gen. Coverage 1.5 Mc - 56 MHz
Double Conversion (I.F. 455 and 2.075 MHz)
Xtal Filter, AM, FM and NBPM Detectors
Phono Input, Noise Limtr, Tone Con.
Socket for Ext. Power Supply.
Self contained 117 VAC Power Supply.
Ant. Input 50-600 ohms Bal. or Unbal.
3.2 or 500 ohms audio out.
Draws 90 watts from 117 VAC
U.S.A. used price (1963) was \$125.
Manufactured 1950 - 1955.
All Band VFO, A54, Raitliff products Mobile Xctr 50x complete with All Band
whip Ant. and Power Supply.
Many Ham items too numerous to list.
Contact:- Charles Croser, VE4KG,
Box 1, Pinewood, Manitoba.



winnipeg amateur radio club

WARC CLUB ROSTER (AS OF JAN. 1, 1973)

The following ops and non-ops have full memberships in the Winnipeg Amateur Radio Club - Sept. 1, 1972 - August 31, 1973.

MEMBERS:

AA	AC	AM	AN	AP	AQ	BF	BJ	BY
CQ	CR	CU	DB	DV	EA	ED	FC	FR
FP	FQ	GL	GE	HE	HI	HW	JA	JC
JO	KE	KQ	KS	LX	OR	OP	OL	RP
RV	SM	SN	SF	SR	SW	TC	TX	VB
VC	VK	WZ	YB	YD	ZA	ZS		

<u>MEMBERS:</u>	G. Bradley	J. McFerran
	D. Campbell	J. Milner
	J. Desbouteau	D. Musselwhite
	A. Eavaldson	E. Prairie
	T. Helm	L. Steele
	H. Irwin	H. Tyleur
	L. Latzke	N. Watson

J. Rogan - A. Elliotts - M. Golyne

Membership dues may be paid at any time to WARC and are still \$2.00.

AMATEUR RADIO PLAYS BIG ROLE WITH SATELLITE (From The Winnipeg Tribune - December 16, 1972)

CITAWA (C7) - A snowstorm in the United States has made an Ottawa amateur radio operator vitally important to the operation of an American amateur radio satellite.

Larry Kayser, a local radio amateur operator, is helping to set up a U.S. amateur communications satellite in working order while a primary operating station at Talcott Mountain Science Centre, Avon, Conn. is icebound.

The satellite, built by the Radio Amateur Satellite Corp., was launched Oct. 15 from Lortec, Calif. It rode 900 miles up on the back of a satellite sent up by the National Aeronautics and Space Administration (NASA).

On reaching orbit, it broke off from the NASA satellite. The AC found radio satellite has solar cells which recharge the batteries.

Mr. Kayser is one of several operators around the world controlling the satellite so that the batteries are not used up. This means that the satellite must be turned on for use by radio operators only three days a week.

Mr. Kayser said he happened to write a letter to the U.S. operators of the satellite and about 10 days ago, they telephoned him to request his help in

controlling the satellite.

The U.S. group sent him the control information - the key to operating the satellite radio system, he said.

The primary operating station at Talcott Mountain has been unreachable for three days following a snowstorm. This makes Mr. Kayser an important factor in keeping the satellite running.

The satellite is the sixth sent up by the U.S. group. It is being used to transmit radio signals around the world.

"It is the first time ever that they have allowed control of an amateur satellite outside the U.S.," said Mr. Kayser.

RST REPORTING CODE

Thinking of a QSO overheard recently, "You're Q5, S9 here but I missed your name and QTH", makes me think of a review of the RST code that was printed many years ago in QST:

- (Readability) R 5 Got everything, somehow.
4 QRX chopped you up. Got a little.
3 Got practically nothing but squeaks.
2 I am trying to be funny.
- (Strength) S 9 Strong as heck, (or please QSL).
8 Above average signal.
7 Average signal (also only correct report to use in contests).
6 Below average signals.
5 Weak as the devil (don't want your QSL).
4 I think that's you in the mud.
3 Never use this report (no receiver can be this punk).
2 (Obsolete: has not been used since 1938).
1 Given to S9 locals as a joke.
- (Tone) T 9 Your signal sounds as if you have a DC plate supply.
8 Your note is very rough.
7 Your note is terrible - better QRT before the DCC catches you.
6 (Insult - never use this report).
5 ditto
4 ditto
3 ditto
2 ditto
1 Given to locals as a joke.

NOW - IF YOU DON'T KNOW WHAT EACH OF THE R, S AND T SIGNALS REALLY STAND FOR, MAYBE YOU SHOULD SEND A LETTER TO THE ARRL AND ASK FOR OPERATING ALE #14 - this is free of charge, and please enclose a self addressed, self-stamped envelope (SASE).

the canadian amateur radio federation

STATEMENT OF OBJECTS

1. To act as a co-ordinating body for Amateur radio associations, societies and organizations representative of provincial and territorial divisions of Canada;
2. To act as a liaison agency between its members and other Amateur radio associations, societies and organizations within and beyond the territorial limits of Canada;
3. To act as a liaison and advisory agency between its members and the Ministry of the Canadian Government concerned with issuing licences for radio stations performing an Amateur Experimental Service;
4. To promote the interests of individuals licenced in respect of radio stations performing an Amateur Experimental Service through a program of technical and general education.

December - 1972.

EXTRACTED FROM C.A.R.F.

It is seen to be a belief in some quarters that the Federation took "precipitate action", did not adopt a "statesmanlike" attitude, allowed no period for "discussion and decision making" and based our request for expansion of Canada's phone frequencies on "retaliation against US expansion". I also get the distinct impression that somehow C.A.R.F. is wrong in putting forward the Canadian viewpoint because of its "possible effect on future Canadian/USA relations and on US C/ operations".

To ward against these impressions gaining wide credence the Federation has prepared a full report that gives the full facts, figures and reasoning behind our actions. This report has been circulated down to the club level and any club that has not received a copy is asked to write to C.A.R.F., Box 356, KILGOUR, Ont. I trust that it will be read and discussed by the club members before the DOC ballot on phone expansion is distributed so that all Amateurs will have a proper knowledge of the necessity and justification for band adjustments.

On some other, although the name of the letter was given to C.A.R.F. only, 1972 and was widely publicized, not one individual or organization adopted a "statesmanlike" attitude and sought "discussion and decision making" in the five month period prior to the F.C.C. announcement in October, 1972. "Precipitate action" was taken after this announcement by those individuals and organizations that conducted polls, circulated newsletters, etc., without full knowledge why adjustment is necessary for continued viable Canadian phone operation.

There is also the argument that Canada should not seek expansion until the "full effects" are noted. This raises the interesting point of what guide lines are to be used to determine the need for expansion. Any Amateur cluttered by QRM while putting through a patch will immediately feel that adjustment is necessary; the toys holding a local rag-chew will probably feel they can live with the interference. Sensibly proper reasoning should be a survey of the facts and figures such as C.A.R.F. presented - all else is a play to individual emotions and this is no way to determine if a change in the regulations is necessary.

CARF NEWS

Acting on a request from the Austrian national society, the Federation has created a Canadian Listening Central QZ Bureau - Box 66, "Elliott", Ontario - to facilitate the receipt of cards by the individual by receiving cards from DX bureaus and circulating them to the existing area bureaus. The Canadian Central QZ Bureau is operated by the local Chair Amateur Radio Group under the management of Len Sumner, VE3DOR.

CARF has requested that the requirements for Amateur mobile logging be abolished or a skeleton log only be required.

Commencing January, 1973, the Federation will publish a monthly magazine to be called The Canadian Amateur. This publication will primarily be used to circulate topical news and information on Canadian and international amateur and related communication activity.

The Editor-in-Chief is Gil Stevens, VE3BBQ, (15 Johnson Road, TRICKOM, Ont) former editor of the Ontario Amateur. A column - VE NEWS - will be supplied by Rowland, VE3ATL, and several correspondents across Canada have expressed interest in contributing articles. Gil hopes to include columns of the various facets of amateur activity such as RTTY, Slow-Scan TV, Auto-Repeaters, VHF/UHF, Emergency Planning and Communications as contributors can be located. Deadline for inclusion is the 15th day preceding publication.

No publications are scheduled for the months of July and August but special bulletins will be produced when necessary.

The Canadian Amateur is supplied as a condition of Associate membership in the Federation with the individual called a Subscribing Patron to avoid any confusion that may arise with membership in a provincial association. The cost is four dollars per year (\$4.00) and a special certificate will be issued to all who subscribe prior to the publication of the first issue.

Treasurer, CARF, Box 366, HINGSTON, Ont. K7L 4L2.
Enclosed find cheque/money order for \$4.00 to enroll me as a SUBSCRIBING PATRON.

NAME: _____ CALL: _____

ADDRESS: _____

PROVINCIAL NEWS

NEWFOUNDLAND - CARF announces that it has now achieved 90% membership of the Amateurs of that province 3004

ONTARIO - The I.S.C. announces the following executive for 1972/73:-

- President - W. (Bill) Loucks, VE3AR,
- V/Presidents - Tom Bruce, VE3BFT
- Jim Peters, VE3GTF

ORVA ECOTIA - NEARA announces the following executive for 1972/73:-

President - Ian H. Macleod, W1GOC
Vice Presidents - Stan Brooks, W1ALB
Gerry Harris, W1AAG
Sec-Treas - Christine Cook, W1AFD
The NEARA intends to issue a ballot to Canadian Radio
Club for those clubs wishing them of the new (CARF) publication, the
content remains and long and the word changes. It is practically impossible
to get all the information received from (CARF) to own our own membership
so they will be joining themselves a service by subscribing (to the new
CARF publication).

Mr. Arthur E. Blick,
President,
Canadian Amateur Radio
Federation Inc.

Dear Mr. Blick,

This refers to your letter of September 29 and the meeting held with representative of the CARF and ARRL on October 25 concerning the expansion of the U.S. radiotelephone portions of the amateur - 75 and 40 meter bands as provided for in the amendments to the F.C.C. Rules respecting the Amateur Radio Service.

As a result of the meeting held on October 25, it was considered that

- a) there appears to be some doubt as to exactly how many Canadian radio amateurs are represented by the CARF and ARRL;
- b) there appears to be a difference of opinion between the two organizations as to the action that should be taken;
- c) it would not be desirable for the Department to amend the regulations on the basis of what may happen in the future and certainly not before advance consultation with all Canadian amateurs plus courtesy discussions with the F.C.C.

It was therefore decided that

- a) the Department will take no action pending receipt of further reports after November 22, the date the F.C.C. Rule changes take effect;
- b) on the basis of reports received the Department will review the situation and if necessary prepare a proposal to amend the Regulations and all concerned will be consulted.
- c) consultation with the Canadian amateurs will be conducted on an individual basis by the Department and the ballot will also be used to determine whether an amateur belongs to the ARRL, CARF or other amateur organizations.

This will enable us to make a decision based on facts rather than conjec-

ture. We will keep in touch with your association throughout the whole process.

Yours truly,

(signed) W. J. Wilson,
Director General,
Telecommunications
Regulation Branch.

Mr. W. J. Wilson,
Director-General,
Telecommunications Regulation Branch,
Department of Communications.

Dear Mr. Wilson:

I am surprised at the attitude expressed in your letter 6202-2 (R-2) dated 31 October, 1972. Specifically I refer to:-

- a) there seems to be some doubt as to exactly how many Canadian radio Amateurs are represented by the CARF and (the) ARRL.

I had thought this hoary chestnut had been suitably interred as a result of several discussions with yourself and other officials of the Department. The Federation represents eight of the ten provincial associations but consults with all these organizations prior to any representation - a situation unique in Canada. These associations are diversely constituted. Some are an association of clubs, some have individual membership with some having affiliated clubs in addition; but all have the ability to contact the Amateurs in their provincial areas and I know of none that make membership of any degree a condition for representation.

The Federation is governed by a Board of Directors freely elected by the provincial members at the annual general meeting of the corporation. The Board sets the policies of CARF and supervises the day-to-day administration and activities managed by the Executive committee. The monthly Newsletter and frequent bulletins of the Federation are circulated directly to the provincial associations, to editors of Canadian and International Amateur publications and, on a subscription basis, to individuals and clubs. They are also published in VE NEWS which has a wide circulation to clubs and individuals. The Federation has recently received a letter from the publisher of a major US Amateur magazine offering "use of a page of the magazine to present news of Canada to Canadians - and to the US." If this offer is accepted by the Board, can CARF then claim to represent all the subscribers to this magazine in Canada?

b) "there appears to be a difference of opinion between the two organizations as to the action that should be taken."

My recollections of the meeting are that the Federation requested that action be taken and made a written and oral presentation based on research of the FCC documents and documented approval from the provincial members received, and fully publicized, five months prior to the meeting. The ARRL, however, adamantly refused to consider that any action was necessary or desirable and has no approval from its Canadian membership on this score.

c) "It would not be desirable for the Department to amend the regulations on the basis of what may happen in the future and certainly not before advance consultation with all Canadian Amateurs plus courtesy discussions with the F.C.C."

I cannot understand this statement. My understanding was that discussions had already been held with the F.C.C. and, while I have no knowledge of what form these discussions took, would assume that the probability of Canadian expansion as a direct result of US expansion would have been a main topic. Also remember that your office had no prior knowledge of the contents of the F.C.C. report and/or order announcing the US expansion so again assure that "courtesy discussions" between the F.C.C. and FCC were lacking before the F.C.C. took action.

As to what may happen in the future, the facts and figures presented by the Federation leave little doubt of what the future holds if no action is taken by the Department. The Federation considers that advance consultation with all Canadian Amateurs is meaningless unless, or until, all are fully aware of the reasons why CARF requested expansion and why the ARRL feels no expansion is desirable.

The decisions detailed on page 2 are confusing. The ballot mentioned will be of little use in determining CARF membership as this membership is presently given only to provincial associations. This has been explained to officials of your Department on at least three separate occasions.

The statement "all concerned will be consulted" is open to question. What Amateurs are concerned? Only Canadian phone and CW operators that normally operate on 75 and 40 metres? U.S. Amateurs on these frequencies? All Amateurs regardless of radio certificate held? The Federation has requested that the ballot include the query: "What % operating time do you use (a) CW, (b) phone on the (1) 75/60, (2) 40 metre bands?"

The Federation does stress that our representatives came armed with facts, not conjecture, to substantiate our request for action. The use by the Extra class of 3775-3800 KHz because of the incentive to operate "on frequency" with the increasing number of DX stations therein is a fact; the occupancy ratio determined by the F.C.C. for an equitable distribution of 3.5 and CW frequencies for use by the US Amateurs is a fact; the inability to conduct viable phone communication on frequencies used by the US Novice operators is a fact. The action of the F.C.C. to particularly point out the effect of US expansion in their Report and Order - that Canadian voice operation would undoubtedly be moved to 3650-3700 KHz in order to avoid lay of interference - is a fact; and, from the ARRL representatives at the meeting, the admission that US CW nets operating between 3650-3700 KHz would have been readily moved below 3650 KHz if the US Novice band had been lowered in frequency is a fact.

Conjectures were made on the possible effect Canadian expansion may have on possible future petitions to the F.C.C. requesting further changes to the US sub-bands; the possible interference from US CW operators on Canadian phone operation between 3650-3700 KHz; and when the next expansion of the US phone sub-bands would occur.

For enclosing, for your information, a copy of the report made by the Federation on the initial request for action and the outcome of the meeting.

Yours truly,
Arthur H. Dick, W3BAF
President.

MOBILE NEWS - March 1972)

LIST OF TWO METRE F.M. REPEATER STATIONS IN WEST GERMANY ON
17.01.72 CHANNEL LIST

<u>Number</u>	<u>Receive freq. MHz</u>	<u>Transmit freq. MHz</u>
R2	144.150	145.750
R5	144.175	145.775
R4	144.200	145.800
R5	144.225	145.825
R6	144.250	145.850
R7	144.275	145.725
R8	144.300	145.700

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
<u>Ch.</u>	<u>Rep. call</u>	<u>Location</u>	<u>QTH loc.</u>	<u>Licensee</u>
R2	DB0WF	BERLIN (Funkturm)	GM47A	DL7UG
R2	DB0YC	GHAM	GJ74C	DC6YC
R2	DB0XA	COBURG	FK55C	DJ7WH
R2	DB0WW	DUISBURG	DL44C	DC6WR
R2		FELDBERG (Rhein-Main)	EK63H	DC8VC
R2	DB0XH	HAMBURG	EN40D	DL6FX
R2	DB0WH	HANNOVER	EM49D	DJ1UY
R2	DB0ZF	KAISERSTUHL (Freiburg)	DI79	DJ8PK
R2	DB0XE	KASSEL	EL57E	DJ1XJ
R2	DB0WK	KONSTANZ	EH26D	DK1MW
R2	DB0WL	LAHR (Later R6)	DI60A	DL9QD
R2	DB0ZM	MUENCHEN-STADT (Later R6)	FI78A	DK5MZ
R2	DB0ZN	NUERNBERG	FJ47A	DK2YV
R2	DB0ZD	OSNABRUECK	EM61	DJ7ZS
R2	DB0WR	STUTT GART	EH17D	DK4SU
R2	DB0WB	WINTERBERG (Au/Inn)	G162J	DC1MT
R2		WOLFSBURG (Only Europa-Treffen)		CJ7GS
R3		BAD KOENIG (F35)	EJ15D	DL2WN
R3		BOCKSBERG (Harz)	FL12B	DJ3JW
R3	DB0WG	GOEPPINGEN	EI30G	DJ4LY
R3		KARLSRUHE	EJ72	DL9VQ
R4	DB0WA	AACHEN	DK11	DL6IM
R4	DB0YB	BAD HERSFELD	EK19A	DK2RH
R4	DB0XB	BAEDERSTRASSE (Ostsee)	FO74B	DK6HD
R4		BAMBERG	FJ05A	DC1NY
R4		BENTHEIM-LINGEN	DM56C	DJ8R1
R4	DB0WC	BREMERHAVEN	EN33C	DC8FD
R4		DARMSTADT	EJ24A	DC6FG
R4	DB0XD	DEGGENDORF	GI15	DJ3SF
R4	DB0WD	DEISTER	EM58	DJ6JC
R4	DB0ZR	DORTMUND	DL47C	DJ4VR
R4	DB0XR	DREILAENDERECK (Loerrach)	DH30A	DJ4QR

1	2	3	4	5
Ch	Rep call	Location	QTH loc.	Licensee
R4	DB0ZZ	GRAB	EJ78C	DL8XY
R4	DB0XG	GRETING	FJ77C	DL8ZY
R4	DB0YK	HOMBERG-KAISERSLAUTERN	DJ47E	DC8DY
R4		KOBLENZ	DK49J	DK4PW
R4		LEER/OSTFRIESLAND	DN68A	DJ9ZW
R4		LINDAU-NORTHEIM (Hann)	FL21G	DL9AO
R4	DB0ZL	LUECHOW/ELBE	FN65J	DC8XT
R4	DB0YS	SIEGEN	EK01F	DL8KV
R4	DB0WX	TRIBERG	EI72A	DJ8MY
R4	DB0ZW	WEIDEN	GJ22C	DJ9HO
R5	DB0XM	HOHER MEISSNER	EL70A	DC6EE
R5	DB0WN	OCHSENWANG	EI38J	DJ2GO
R6		ANDERNACH-MAYEN	DK47B	DJ5GU
R6	DB0ZA	ASCHBERG (Rendsburg)	ED49G	DC8CB
R6		BREMEN	EN75G	DC6CA
R6	DB0WT	TREMOLD	EL05G	DK3RC
R6	DB0WE	ESSEN	DL45D	DJ1HT
R6	DB0WS	GOSLAR-STEINBERG	FL03F	DJ4JI
R6	DB0ZH	HEIDELBERG	EJ44E	DL1LS
R6	DB0YH	HOECHENSCHWAND (Hochschwarzw)	EH21B	DJ9ZK
R6	DB0WV	HOECHSTEN (Oberschwaben)	EH17C	DJ3CH
R6		KOELN-BERGHEIM	DK04A	DJ3RO
R6	DB0XU	KNUELL	EK08F	DL8MC
R6	DB0XS	MERZIG/SAAR	DJ43C	DK1MG
R6	DB0WM	MUENSTER/WESTF	DL09H	DC6EH
R6	DB0ZB	OCHSENKOPF	FK80F	DJ7EW
R6	DB0WZ	WUERZBURG	EJ20J	DK2DT
R7	DB0ZU	ZUGSPITZE (Z. ZT. NOCH R6)	FH46G	DJ9HJ
R8		KALMIT	EJ51J	DL8UX
R8	DB0YY	LUDWIGSBURG (Later R3)	EJ76F	DJ4XO
R8	DB0XA	ALTENWALDE	EN14F	DJ9CR
		AUGSBURG		
		BERLIN-SPANDAU		DL7HD
		ELM		DL6NB
		KOELN-STADT		
		PIRMASENS	DJ69G	DJ6EW
		RAUM VERDEN/ALLER		DL1GF

NOTE

General coverage W Receiver capable of SSB. Need one low Hatel, purchase or rent.

David L. ...
 Larry ...
 ...

* ... David!

Technical Topics

CONVERTING 43-GGV TU-117 POWER
SUPPLY TO 117 V.A.C. FOR BASE
STATION USE

M. Ronald VE4RE

It is a relatively simple job to convert the 43-GGV vibrator power supply to 117 V.A.C. A comparison of the schematics for the TU-117 (6/12 V.O.C.) and the UT 189 (117 V.A.C.) supplies shows that the rectifiers, filtering, and relay switching are identical. So it is merely a matter of replacing fusing, transformers and doing a small amount of re-wiring.

To start conversion remove the following:

1. Remove Vibrator E1 and socket. Remove fuseblock and Vibrator transformer T1.
2. Remove resistors R2, R3, R4, R5.
3. Remove capacitors C2, C3, C4, C12, C13 and C19.

To complete conversion, do the following:

1. Mount fuse holders for F1 and F2 beside L0/H1 power switch.
2. Move fuse lamp holder to vacant hole beside relay K1 housing.
3. Mount T2 next to relay housing and T1 between T2 and fuseholder mount. Space transformers as much as possible to aid cooling ($\frac{1}{2}$ ")
4. Mount terminal strip for CRIA and CRIB (Use 1 amp 50 P.I.V. diodes in place of Motorola rectifier assembly.)
5. Hook-up transformer wiring, etc.
6. Rewire R13 and R15 in place of R6 and R7 (added on TU-189 schematic)
7. at TB1: run 6.3 VAC to pin 9 ground pin 4.
8. at TB2: run 6.3 VAC to pin 11 ground pin 12.
9. Complete 117 VAC fusing and wiring. Hook-up control head as desired.

PARTS LIST

T1 (MOTOROLA 25-800144)	\$18.60	
T2 (MOTOROLA 25-835532)	\$20.38	
CRIA,B 2- 1 amp 50 p.i.v.	\$1.00	approximate
2 - Fuse holders (panel mount)	1.50	prices
2 - Fuses (1.6 amp 1.0 amp)	.50	
1 - Terminal strip (3 bug)	.25	
Misc. - wire, etc.	----	

This conversion makes a very compact base station when applied to the sleeping front mobile unit. Of course a trunk mount unit can be converted into a good looking base station by flush mounting the control head over the cable plug hole on the front of the transceiver. The cost of the above conversion is no more than a regulated D.C. supply and it also eliminates the vibrator with its frequent breakdown and annoying hum.

VE4RE

LEAF FALL - WINTER SCHEDULE

The American Radio Relay League, using A.A.A., transmits code practice according to the following schedule. The approximate frequencies are 1.805, 3.58, 7.08, 14.08, 21.08, 28.08, 50.08 and 145.508 Mhz. For practice purposes, the order of words in each line may be reversed. Each practice tape carries checking references. These frequencies and times are good only from Oct. 29, 1972 to April 29, 1973.

<u>TIME</u>	<u>SPEEDS</u>	<u>DAYS</u>
0630 GMT	10-13-15	DAILY
0230 GMT	5-7½-10- 13-20-25	M-F-Su
1400 GMT	5-7½-10- 13-20-25	M-F
0230 GMT	35-30-25- 20-15	TThS
1400 GMT	35-30-25- 20-15	TTh

FOR SALE

B and L Low Loss TVI Filter
75 ohm Kilocatt Ratings
Best condition - little use - original carton -
Instruction sheet missing.
Prepaid shipment in Canada.
Current U.S.A. Net \$20.90
Asking \$15.00 (cash, Money Order).
Contact:-
VARS, Roland Cruik,
536. Beverley Street,
Winnipeg, Manitoba.
R3C 1W2.

88 and 73

The numerals 88 and 73 have been a tradition in communications language for almost 120 years. The older of the two, 73, appeared in 1853, meaning "My love to you." In 1857, the first official definition made it a "fraternal greeting between operators." Two years later, 1859, Western Union made "73" a part of their "92 Code" to indicate "Accept my compliments." The final change came in 1895, when "73" meant "Best Regards" for the telegraph and later for radio operators.

"88" never received the formality of an official listing until it was adopted as one of the "Ham Abbreviations." It had been one of the telegraph operators' traditional terms since well before the turn of the Century. During the First World War, "88" was used by the U. S. Army Signal Corps, again strictly as an operator's abbreviation in unofficial communications. At the close of WWI, "88" achieved official status as a part of amateur radio terminology: "love and kisses."

Louise Ramsey Moreau,
WB6BBO/W3WRE



"I need half a dozen things: majigs, a couple of do-funnys and three or four whatchamacallits."

THE AMERICAN RADIO RELAY LEAGUE

INCORPORATED

Doel B. Eaton, VE3CJ,
P.O. Box 660,
Waterdown, Ontario.

December, 19, 1972.

THE AMERICAN RADIO RELAY LEAGUE REPORT OF THE CANADIAN DIVISION DIRECTOR FOR 1972

Gentlemen:

Since year-end membership figures are not as yet available, it is impossible to comment on recent trends. However, the increase during 1971 was 5.7%, whereas the increase in the number of station licences was only 3.7%. The League is therefore attracting a growing percentage of the amateurs of Canada. Largely as a result of the recent dues increase, there has been a marked increase in the number of Life Memberships; the increase itself and the necessity for it, seem to be well understood, even if regretted.

Relations with the Department of Communications are as excellent as ever. However, the growing size of the Department, the de-centralization of authority to the Regional offices, and a rather extensive change of personnel have resulted in a somewhat more formal relationship than heretofore. While Ottawa still sets policy and writes regulations, interpretation and enforcement are the responsibility of the Regions, and it is often necessary to deal with them rather than with Ottawa. In such instances several Assistant Directors have been most helpful, since the size of the Division makes it impossible for me to make such visits personally.

Several of the changes in our Regulations forecast in my 1971 Report have now been made; we have lost the small portion of 21 metres (26950-27000 KHz) which we still held, the age limit on amateur licences has been removed, and the changes in our 160 metre allocations have been formalized. No further steps have been taken, however, to institute some form of beginner's licence. One additional reciprocal agreement has been signed with Brazil.

Early in the year the Government of Canada honoured David S. Lloyd, VE3AW, for his work with the blind amateurs of Canada, by conferring upon him the Medal of Service of the Order of Canada. Many other amateurs share in this work and the award brings honour and credit to all of them.

This year also saw the production of "Fine Business", a film on amateur radio produced by G.R. Sparrow, VE3BQN, with the help of The Radio Society of Ontario. The League has purchased six copies of this film, two for Headquarters and four for the Division.

It has already been booked for many showings to amateur clubs and is additionally distributed commercially to T.V. stations, schools and service clubs.

Undoubtedly, the item of most concern to members of the Division during 1972 was the release by the F.C.C. of its Final Report and Order on Docket 19162. Canadians were, of course, intimately concerned,

since any expansion of U.S. phone privileges would be in to those portions of each band normally employed by Canadians. There has been considerable relief that no expansion was granted on 14, 21 and 28 MHz but, particularly in the case of 75 metres, some amateurs have been calling for immediate expansion of the Canadian phone frequencies.

During the few weeks following November 22nd, there has been in the portion 3775-3800 KHz, an outbreak of unfortunate bad manners on the part of both Americans and Canadians. This has been most regrettable but it seems to be dying down, as the necessary adjustments are made in net frequencies and operating habits. One good result has been the increase in across-the-border contacts, a somewhat rare event before the change. But it is still much too early to say what the final result will be, since it is unknown at the moment whether any changes will be made in our own phone allocations.

Early in October, the Department of Communications asked the Director of the Division and the President of The Canadian Amateur Radio Federation to attend a meeting in Ottawa to discuss the impact of the American changes on Canadian amateurs. At that meeting, C.A.R.F. submitted a request to have Canadian phone privileges extended to 3650 KHz, by November 1st, three weeks before the U.S. changes. My own attitude was that any comment would be uninformed before experiencing the impact of the changes, and that I would prefer to gain such experience before expressing an opinion. Department officials pointed out that the mechanics of making any change would involve a delay of 6-8 weeks, and no action by November 1st would, in any event, be possible.

As a result of this meeting, the Department advised both organizations that it proposed taking no action immediately but that early in 1973 it would poll every amateur in Canada asking for opinions on the various alternatives. In addition, they will take the opportunity to ask questions on other matters, such as bands operated, modes employed, etc., in order to generate some statistics on amateur radio in Canada. The Department made no commitment on action to be taken hereafter, except to say that it would consult with F.C.C., as F.C.C. had done with it some months ago regarding Docket 19152.

The members of the Division are again indebted to all those League officials both elected and appointed, who contribute so much time and effort to running day-to-day affairs in Canada with no thought of personal gain. To them, I am most grateful, as well as to the Headquarters staff for their ever ready willingness to help in any way requested.

Respectfully submitted,

Noel B. Eaton,
Director, Canadian Division.

FOR SALE

Lucystone Receiver 770 R. 1, to 1.85 Mhz. AM/EM (Narrow and Wide) C. professional HP Receiver. Price \$150.00.
Also 770 R. 150 to 300 Mhz. Original Receiver price \$300.00 to \$1000.00 in good working order. Contact WB4AI - Tel. 637-3556.

The Amateur Radio League of Manitoba wishes to express its deepest sympathy to Bert, WB4AI, and his family in their recent loss of their son Keith.

Test of Einstein Theory

Scientists at the space agency's Marshall Space Flight Center plan to put a clock into orbit in late 1974 to test a portion of Einstein's theory of relativity.

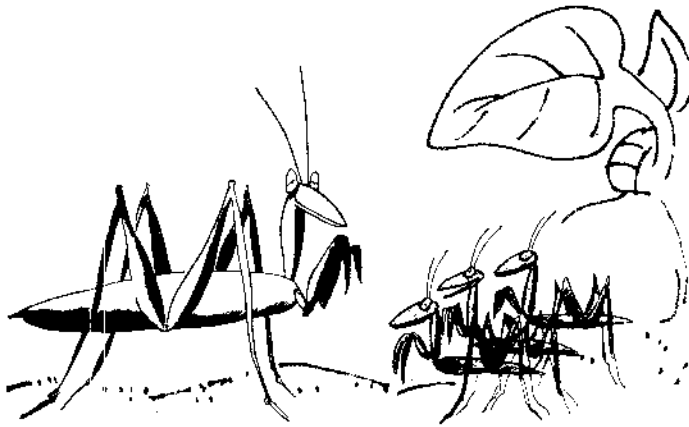
The hydrogen master clock, selected because its stability rate varies only a few parts in one quadrillion, is being especially designed for the test by the Smithsonian Institution Astrophysical Observatory.

Scientists of the National Aeronautics and Space Administration said the device will be pushed into an elliptical orbit 11,185 miles high.

In its simplest terms, Einstein's theory is that two similar objects - in this case clocks - in different gravitational fields would appear to operate at different rates because of gravity's effect on the geometry of space and time.

If that is true, the orbiting clock, to be monitored by telemetry, should appear to be operating more rapidly than a similar instrument to be stationed at NASA's Bermuda ground station.

Courtesy SARC.



"Tell us that bit again where you ate Daddy."

Kindness is like a boomerang - it always comes back!
Ignorance is when you don't know something and someone finds out!

A proverb is a short sentence based on long experience!!

LITTLE KNOWN HEROES OF AMATEUR RADIO - (Courtesy of the Ottawa "Groundwave").

A very real and vital facet of amateur radio in Canada is the "TOPSTAR" net which keeps servicemen and civilians in the far north in touch with their families. Few of these outposts in our Arctic have commercial telephone facilities and the phone patches provided by the TOPSTAR operators are a link between these men and the wives and children or sweethearts from which they are separated for many months at a time.

The southern end of the link has been handled for many years by a number of volunteer operators in Ottawa but, with the relocation of the servicemen's home base from Ottawa to Kingston, the traffic load is changing to the latter city. Kingston is served by VE3RCS at the Signals Base (Very Barracks to those old enough to remember the Royal Canadian Corps of Signals). In Ottawa the net is manned by a rotating crew consisting of VE3DNR (who has done his bit in the Arctic), Ron Gaines, VE3BDO, Doc Haycock (an old Northern hand himself), VE3PY, Vern McCourt, VE3CT, Charlie Grove, VE3AUM, Ron Belleville (who is also familiar with the tundra and ice country) and VE3ANT, Al Stinson.

The TOPSTAR net is on every night except Sunday and can be found on 14.165 Mhz at 2000 to 2300 Zulu time. Its success is due to the devoted interest of these operators and the others who from time to time in the past participated at this end.

At the other end of the link, TOPSTAR takes in regular callers from Alert, Eureka, Isaacson Island and others. There is an intercom net between these posts stretching from Inuvik to Frobisher. The "ARCTIC" net operates 141.125Mhz, Wednesdays at 2000 hrs Zulu time. Control is VE8AE.

Your FATE should you
not fill out the ARLM
application below.



Please use the form below when applying for ARLM membership

Please! PRINT your NAME and ADDRESS.

Make cheque or money order payable to "AMATEUR RADIO LEAGUE OF MANITOBA".

Please make all cheques "Plus Exchange".

ARLM MEMBERSHIP APPLICATION FORM ---

Detach and Mail with \$2.00 Fee to: ARLM, Box 475, WINNIPEG 1, Manitoba.R3C-2J3

Name: _____ VE4 _____

Address: _____

Area: Eastern _____, Western _____, Northern _____, (Check one)

\$2.00 Membership paid by: Cheque _____, Money Order _____, Cash _____,
(Please include exchange on cheques.)

THE BIRTH OF THE TRANSISTOR

Following W. Z. research began in 1945 at Bell Labs under the direction of William Shockley which led to an understanding of the physical properties of solids, particularly germanium and silicon. This led to a proposed structure of a semiconductor amplifier and demonstration by the researchers of such a device for amplifying speech on December 23, 1947. John Bardeen, Walter Brattain and William Shockley had worked as a team to achieve this great technological breakthrough.

The new comer, which just about spelled the death knell for conventional vacuum tubes, was a piece of germanium wafer with two pointed gold contacts placed less than two thousandths of an inch apart on one side of the wafer. J.R. Pierce of Bell Labs named the fledgling device a transistor as a contraction of transfer and resistor, because the resistance effect was transferred from one point to the other.

So significantly recognized was the invention of the transistor, that less than a decade following its discovery, Shockley, Bardeen and Brattain were awarded the Nobel prize.

Where are these famous inventors now? William Shockley is a professor of engineering sciences at Stanford University; John Bardeen teaches graduate physics at the University of Illinois and Walter Brattain teaches undergraduate physics at Whitman College in Walla Walla, Washington. John Pierce, who named the transistor, teaches at Cal Tech, John Bardeen just won another Nobel prize for work in superconductivity.

FROM ARLM,
POB 175,
Winnipeg,
Manitoba,
R3C-2J3

TO AMATEUR RADIO STATION

WANTED

Information on free room space where several interested people may meet to increase code speed to gain either the required 10 w.p.m. or 15 w.p.m. Contact the writer with information as to time (day(s) available, location and availability of 117 VAC.

Phone or write to:-
WARS, Roland G. Crull,
550. Beverley Street,
Winnipeg, Man.
R3G 1V2.