

the canadian amateur



Volume One

March 1974

Number Thirteen

Noel B. Eaton: A Farewell To The Troops

Dear League member:

Most Canadian Amateurs should by now know that at the recent Annual Meeting of the Board of ARRL I was elected a Vice-President of the League and nominated for the position of President of the International Amateur Radio Union. I feel particularly honored in the latter, since this is the first time that a non-American has been so nominated. As a result, I tendered my resignation as Director of the Canadian Division, and George Spencer VE2MS automatically steps up from Vice-Director.

While I will assume the normal responsibilities of a Vice-President of the League, my main duties will be as President of the IARU, co-ordination preparation for conferences of the International Telecommunications Union, in particular the World Administrative Radio Conference in 1979, when the entire frequency spectrum, HF-VHF-UHF and SHF will be 'up for grabs'. I feel this responsibility greatly, much as I look forward to working with and for the member societies throughout the world.

But this is not the first time that a Canadian has been elected a Vice-President; it was the election of Alex Reid VE2BE that made me director in 1960. Once again the League has proved that it is a truly bi-national society, placing no distinction between our two countries in such matters.

My 14 years as Director have been a most interesting and rewarding experience; the opportunity to meet Amateurs from coast to coast, to speak at clubs, and to be able to help those in trouble from time to time, has been ample repayment for the time devoted to the position. In addition, the help and advice received from S.C.M.s, Assistant Directors and individual Amateurs have been of great assistance, and I owe each one a great deal.

Our new Director is an Electrical Engineer by



profession and works for Canadian Bechtel Ltd. in Montreal. Born in Saskatchewan, he has lived in Ontario, North Carolina and now in La Belle Province. He builds much of his own equipment and is active on most bands. A Past President of the Montreal Amateur Radio Club, he had much to do with the ARRL National Convention in that city in 1967. He has been Vice-Director of the Canadian Division for four years and during that time has been a tower of strength to me. I know that he will serve us well, and prove to be a first rate director.

73,

Noel B. Eaton, VE3CJ

The Canadian Amateur

Official Journal of the Canadian Amateur Radio Federation Inc., Published Monthly

Managing Editor: Steve Campbell

Associate Editor: Doug. Burrill, VE3CDC

Volume 1

Number 12

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All correspondence is welcomed and should be addressed to the Editor, The Canadian Amateur, Canadian Amateur Radio Federation, Inc. P. O. Box 356, Kingston, Ontario.

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- Saskatchewan Amateur Radio League

From the Front Office

Since the founding of your national Federation, our policy regarding proposals to the Department of Communications on major matters affecting the Canadian Amateur Experimental Service has been to request the provincial Amateur organizations to publicise the proposed submission, gather comment from the individual Amateur and to base the terms of the proposal on the response.

This method has not worked effectively, has been unwieldy in administration, and time consuming. With the recent notification from the DOC that any proposals affecting the Regulations of the Radio Act will be published in Part 1 of the Canada Gazette with a request for comment from 'interested parties', your national executive has advocated that a different approach be made to these matter

In essence, your national executive has recommended that requests for addition to, or amendment of, the Radio Regulations (or the various guidelines) pertaining to the Amateurs be approved by the CARF Board of Directors and then forwarded to the provincial executives and the Director Cdn. Div. ARRL for approval and comment. If approval or suitable amendment is given, then the national Federation will submit the proposal jointly with the ARRL to the DOC. At the same time, details and information of the submission will be publicised in The Canadian Amateur and the various provincial publications, with the request that interested Amateurs comment to their provincial bodies. A synopsis of these comments will be forwarded to the national Federation to enable CARF to make a further submission to the DOC prior to the deadline given in the Canada Gazette.

Note that the original submission to the DOC does not carry with it majority support from individual Amateurs. The Department will not make a decision on the matter until further comment, as outlined, is received. The DOC wishes comments to be channelled in this manner to ease their administrative burden.

This method has many positive aspects. It will materially speed up the decision-making of the Department, enable the provincial executives to play a responsible role in guiding Amateur matters, furnish the individual Amateur with information prior to any DOC action and allow the Amateur to register comment, do away with confrontations on the DOC level, end the mass of correspondence previously received by the DOC whenever any publicised proposal was made and establish effective channels of communication between your national Federation, through the provincial organizations, to the individual Amateur.

And, yes, it should stimulate membership in the provincial societies and Associate membership in you national Federation as the best means of acquiring information.

A notice from the DOC HQ dated March 11 states that third party amateur radio communications are now permitted with Nicaragua.

The Editor would like to request that submissions intended for publication in the regular column, One Man's Opinion, be no longer than two typewritten pages double-spaced.

Please state briefly at the beginning of the article the details that inspired your comment and keep the article as concise as possible.



Canadian Repeater Advisory
Group

Note: The various frequency plans appearing in the first CRAG bulletins and subsequent columns are for information only. CRAG's purpose is to inform readers and not to endorse or recommend these plans.

Canadian Repeater Advisory Group Bulletin Evokes Good Response

The response to the first bulletin issued last September by CRAG seemed to indicate that the timing of the venture was about right. While there was not an overwhelming number of replies, the quality of those received was, on the whole, excellent.

Judging by the content of the letters sent to the secretary, there is practically unanimous agreement on the need for such a group and for some form of standardization for Canadian repeater activities and general agreement on the proposed channel selection and spacing.

The second CRAG bulletin, issued in February, contains a digest of the more important points brought out in the replies and, like the first one which announced the formation of CRAG, will be sent to all repeater licensees. CRAG relied on these licensees to forward the information to the active parties in their repeater groups but in many instances the licensees are not active, nor have they any adequate communication channels to the committees or clubs which sponsor the repeaters.

The problem of an effective mailing list, along with other problems of time and money, has forced CRAG to undertake other means of distributing the information on repeater operations in Canada which it hopes, with your support, it will be able to continue to provide.

Inasmuch as all provincial societies receive The Canadian Amateur, and a number of members of most repeater groups probably also subscribe, it has been decided to devote a column to CRAG in this publication.

Those repeater owners who wish to keep up with Canadian repeater news may subscribe to The Canadian Amateur by sending \$4.00 to the Canadian Amateur Radio Federation, Inc., Box 356, Kingston, Ontario for a year's subscription of ten issues.

VE7CNR Not On Air

Word from B.C. is that the repeater VE7CNR, which was financed last year by the Federal New Horizons program, is not on the air due to problems with the equipment.

Originally proposed for 146.28/146.88, it is understood that because of probable interference problems with Seattle, another pair will be used.

New Lakehead Voice

A report from Thunder Bay says that a new repeater is being bench-tested there and a site is being sought. It is a solid-state job and will inhale of 146.46 and exhale on 147.06. The contact is D. McKay, c/o Canadian Marconi Co. Ltd., 191 Wolesley Street, Thunder Bay.

Editor's Note: Repeater licensees and other readers of the second CRAG bulletin-- on page 5 under Alberta, the list of frequencies from H.R. Anderson's letter should show 34/06, not 34/76.

look out! here comes TOMORROW

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CRAG Column Continued

REPEATER REPORTS

KWARC

ONTARIO

Most of you 94 buffs have probably heard the new voice of the north. VE3OSR is off and running on 34-94 from just east of Owen Sound. The station is the 'old' VE3RPT (Toronto) that has been revived and is doing a bang-up job. It is a 'talk-on' type - you must talk before it will key on.

ATLANTIC PROVINCES

The St. John repeater will change frequency to 22-82, from 46-94, effective February 15.

The Charlottetown repeater, VE1HI, recently changed frequency from 34-06 to 34-94 and now has an automatic timer installed that is reset each time the repeater transmitter turns off.

The MAARC has decided to not put VE1VHF back on the air, but the licence will be retained. The station equipment has been sold to the St. Croix ARC and should appear on the air in late spring or early summer.

All Newfoundland repeaters will be changing to 34-94 in the current year.

Three new repeaters in western New Brunswick are planned for this summer, St. Stephen, Mount Champlain and one to cover up to Edmundston. Frequencies have not been announced, but St. Stephen has indicated 28-88 as a probable choice.

The Nova Scotia VHF Association has adopted a plan of allocated frequencies for the province. 34-94 and 46-06 are the two main channels to be used.

* * * * *

46/06 May Not Be So Bad

Nova Scotia FM fans and readers of the newsy VE1RPT (Moncton) bulletin will be interested to know that it's editor, Ron Hesler VE1SH, after a trip to Ontario where he observed the use of 146.46/147.06 has changed his editorial stand that it was not suitable for repeater use in their area.

Ron says, "I'll go along with 46/06 now I know ARRL has modified their plan to include it. My next editorial will eat crow."

Ron also mentions that Truro will go 46/06 on May 1 and it is rumored that Sydney is going 'standard' and that the Halifax change to 34/94 will be soon.

A report from the N.S. VHF Association says that Sidney will probably go 46/06. A proposed long range repeater at Gore will be 58/18 and will have a 220 mHz link with VE1RPT (Moncton).

Repeaters are also planned for Liverpool and Bridgetown. 146.52 has been established as the provincial simplex frequency.

N.S. VHF Association president is Jerry Harris VE1AAC, 8 Albion Road, Jollimore, Halifax; V/P is Bruce Harvey VE1AHL, 52 Spruce Road, Truro; Sec/Treas is Bev Reynolds VE1TL, Box 135, Eastern Passage.

Setting Up A Repeater ?

If you are planning a repeater, it would be wise to check with your provincial society VHF Committee or your repeater council to ensure an interference free frequency. If you don't know the address, write to Secretary CRAG, J. Lyle Ward VE3CEZ, 2188 Iris Street, Ottawa.

Don't be fooled by the elaborate ritual demanded for repeater applications south of the border. In this country,

unless you are setting up a repeater at a location other than premises already licensed for Amateur operation, there is no need to contact DOC.

If the location is a separate one, then a separate licence should be applied for, stating the location at which it will be set up. THAT IS ALL THAT IS REQUIRED.

There are no regulations governing the establishment and operation of repeaters. There are only guidelines which require you to ensure proper identification and control over the repeater transmitter and which specify the frequency bands which can be used. These guidelines are available from the DOC or from CRAG.

* * * * *

News on VE4QI Frequency Plan

Those who remember the proposed frequency plan for Canada written by Sonny Gray VE3BTS, now VE4QI, will be interested to know that after facing the difficulties of organizing an international council of 14 repeaters in Manitoba and Minnesota, he has changed two of his four recommended secondary repeater frequencies.

Sonny sticks with 146.46/147.06 and 146.34/146.94 mHz as his primary in-and-out frequencies but for secondary ones recommends dropping 146.58/147.18 and 146.52/147.12 in favour of 146.16/146.76 while retaining 146.28/146.88 and 146.22/146.82 in the secondary line-up. Sonny's plan stirred a lot of interest in the frequency planning business.

Sonny says that an international regional repeater council from Thunder Bay to the Rockies might be possible. Travel distances are formidable but Sonny proposes a weekly net meeting on 75 meters with an annual conference as the method to keep all informed and to arrive at agreements. Sonny's address is C.A. Gray, Box 438, Canadian Forces Base, Shilo, Manitoba.

WHEELCHAIR ROUND-UP

Rick Hedges VE3GJI

This month we welcome five new graduates in our wheelchair club. By the time this appears, all five stations will be activated.

Congratulations to Marion Stewart VE3HDT, Toronto, Rod McFadyen VE3HDQ, Toronto, Mary Wheatley VE3HDW, Toronto, Graham McLachlan VE3DHU, Willowdale, and Donald Green VE3HDV, Rosebank Convalescent Home, Pickering, Ont.

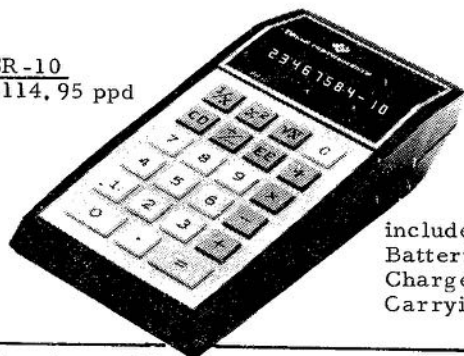
These five new operators at separate QTH's have been busy on the course all winter and have kept Len VE3DOR on the move steadily. We wish to all of you many happy years of hamming and active participation in the Wheelchair Roundup. Hearty welcome aboard.

The National QSL Bureau for cards coming into Canada continues to be very popular with the outgoing bureaus around the world. Russia sends us more cards than any other country, followed closely by Great Britain. At the end of our first year of running this bureau, we had handled over 100,000 cards coming into our country from just about every country on the globe.

Ernie VE3HCW is now our Friday night net controller for the WCRU net and is doing a FB job. Just a reminder that our net operates every day, with the exception of weekends and holidays under the call of VE3WCN. It operates on about 3.770 MHz and starts at 7:30 p.m. EST and all are welcome to check in.

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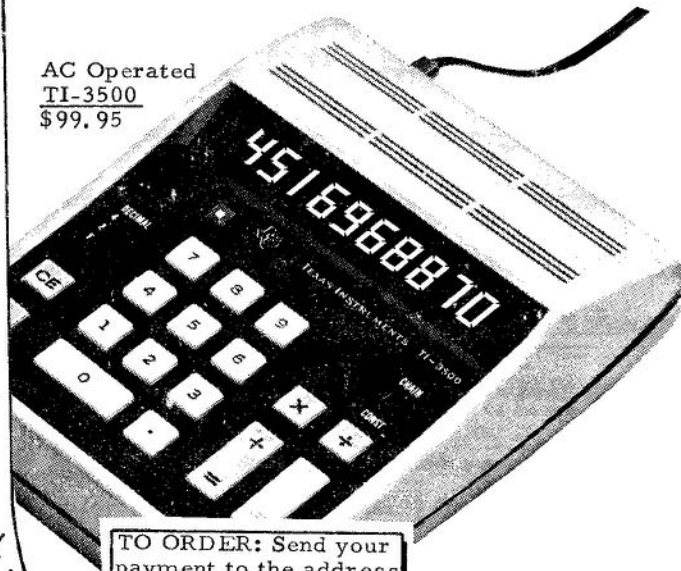
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canadian capsule comment

CLARA NEWS

The Clarion

The Clarion has a new editor - Ruth Burritt VE3GVQ, 109 Bessborough Drive, Toronto M4G 3J5. Ruth is looking for copy about YL activities and achievements.

CLARA now sponsors the YL-DXCC Award. Qualifications are simple- work YLs in 100 different countries. This award is open to all YLs and OMs. No QSLs necessary- send complete log data with signature and \$1.00 or ten IRCs to CLARA CERTIFICATE CUSTODIAN: Cathy Hrischenko VE3GJH, 30 Lisburn Crescent, Willowdale, Ont. M2J 2Z5.

DOC NEWS

The new director of the DOC Ontario Region is Walter D. Lyon. He is a native of New Brunswick and obtained his Engineering degree from UNB and an MBA from Western Ontario. He comes to DOC from the Ministry of Transport where he was Ontario Regional Manager of Telecommunications and Electronics. Mr. Lyon replaces "Bud" Hoodspith who moved to Ottawa to become Director General of Telecommunications Services.

New Amateur Examinations To Be Announced By DOC

While details are not yet available, it is understood from a reliable DOC source that the ancient and somewhat outdated content of the Amateur Experimental Certificate exams have been brought up to date in content and with a new format, probably the true-or-false type which educators find easy to mark and which will simplify the work of examiners in the field.

The code requirement of ten words per minute remains as a must for the Amateur class and 15 for the advanced Amateur Certificate.

CARF NEWS

The Board of Directors is pleased to announce the appointment of Frank Merritt VE7AFJ as Vice-president of the national Federation and as a member of the Board of Directors to fill the unexpired term of the late Jim Strain. Frank, the former president of the British Columbia Amateur Radio Association, brings to the Federation a wealth of experience in Amateur affairs both in Canada and the United States.

Two Kingston area Amateurs have been appointed as members of the CARF committee system. Bill Watts, VE3DWV, is appointed to Publications committee with the responsibility of circulating copies of The Canadian Amateur Radio Regulations Handbook and Colin Edge, VE3CPK, has been appointed to membership committee to circulate information about the national Federation to newly licenced Amateurs.

The national executive has made tentative plans to hold a Canadian National Convention during 1977 to celebrate the tenth anniversary of the national Federation. When ideas and plans, now in the formative stages, are fully developed, the National Convention should be the most important and most constructive gathering of Amateurs held in Canada. Watch for details and announcements in future issues.

The national Federation has been requested to play an active part in the Calgary Centennial Amateur Radio Convention in 1975. Plans for this will be discussed by the national executive and at the 1974 Annual meeting.

N.W.T.&Y. NEWS

W.S. Mansz, VE8CV

VE8DC (Ralph) is now signing VE8MA, a High Arctic Weather Station at Eureka (District of Franklin).

VE8CM (Fred) is now signing as a VE6 in Edmonton. Fred recently won a design engineering contest with the MOT, had a brief holiday, then shipped out of Inuvik to the new position.

VE8AC (Pierre) operates narrow shift RTTY on the weekends. Look around 14090 kHz between 2000 and 2300 Z. QTH is Whitehorse.

VE8AC, VE8AX and VE8RG (Dave and Jack) are planning on going SSTV. They currently have the monitor underway. VE8BL (Bill, QTH: Clinton Creek, Yukon Territory) and VE8CV are looking into the possibility of EME (VHF) and Oscar communications. They need information on VHF construction and antennae projects. (Did you ever realize that the VE8's in the higher latitudes can track the moon almost 18 hours/day during the winter months?)

VE8RA (Karl: QTH: Contwoyto Lake, east of Great Slave Lake) Karl went over to the SEA-net (South-East Asia) convention last November. He signed 9V1VA (uncfm'd) and HS1AJY at a two-week spree. Karl also signs VE7PY when not in the NWT.

VE8AX and VE8RG are looking for RTTY gear.....any leads?

VE8 reminder: 3770 lsb for Eastern Arctic; 3782 lsb for Western Arctic (80 m daily when band is open. Informal freqs... no NCS). POLAR NET - Thurs. 0400Z, 14160 kHz. VE8RCS (C.F.S. Alert, the World's Most Northern Amateur Station) can't thank the stations providing msg/patch service enough. Also thanks to all for helping to keep 14165 relatively QRM-free.

VE8DD (Dan QTH: Pond Inlet) hopes to have 80 mtr facilities by the end of January. Thanks to Jack, VE3AJD/VE8 for sending an 80m antenna.

MANITOBA NEWS

The Manitoba Amateur

This year is the Winnipeg Centennial and, to commemorate the event, the Winnipeg A.R.C. is planning to hold a Hamfest October 5 and 6. Officially titled WINNIPEG CENTENNIAL HAMFEST '74, it will be centered around the International Inn. There will be a hospitality room for co-ordinating, a Saturday PM auction, code-testing booth, raffles, transmitter hunts, equipment displays, door prizes and more.

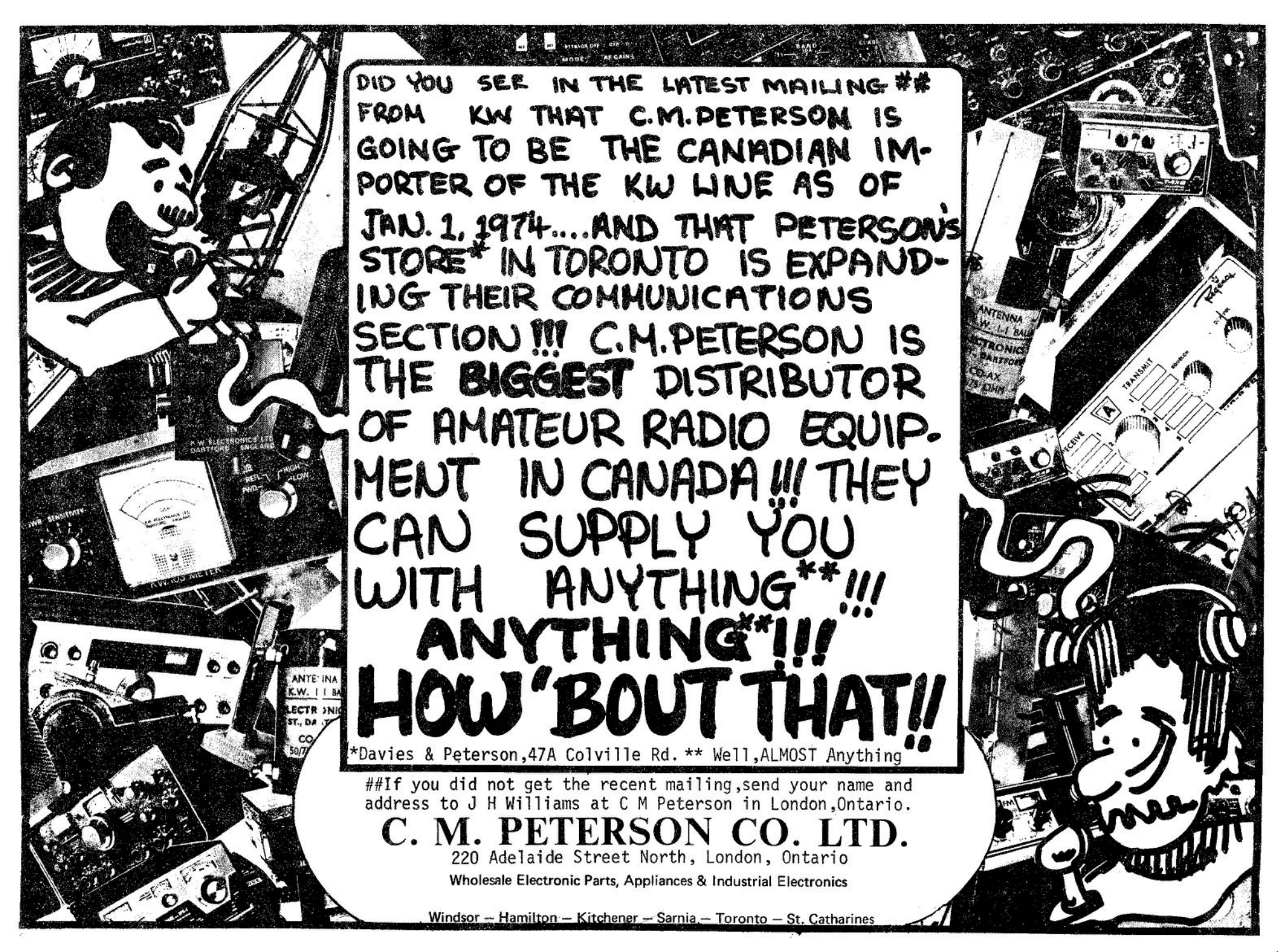
City of Winnipeg Centennial Award

This award is open to Amateurs and SWL's meeting the following requirements:

All Amateurs must make a minimum of 15 contacts with VE4 Amateurs located in the City of Winnipeg.

Contacts must be made between January 1 and December 31 1974, using any mode, any band.

QSLs not required and submit log data, plus 50 cents or 2 IRCs, to Winnipeg A.R.C., PO Box 352, Winnipeg, Manitoba.



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Due to rising costs of publishing and circulating The Manitoba Amateur, the Amateur Radio League of Manitoba has raised annual dues to \$3.00 annually.

The ARLM has undertaken the following projects for the Amateurs of Manitoba: Membership in the national organization CARF, printing the VE4 callbook, brief to CARF on Canadian phone band expansion based on membership comments, liaison with all Amateur clubs in Manitoba, licence plate service, submissions on matters of importance to the DOC through CARF or directly to the Regional office on provincial matters.

NEWFOUNDLAND NEWS

The Newfoundland Amateur

Bob, VO1CA, was requested by the ARRL SCM for the Maritime region to act as Assistant SCM for Newfoundland/Labrador. Bob has refused and has resigned his other ARRL appointments. The request by SONRA to have this position filled when it became vacant some time ago was turned down. Whether this change of heart by the ARRL SCM has any significance is not yet clear.

Editor's Note: TX to Max, VO1LU, for drawing our attention to an error in a recent issue of The Canadian Amateur. Newfoundland did not elect to become a Canadian province on April 1, 1949. The Newfoundlanders, of course, elected to become Canadians many months earlier, followed by much negotiation. Newfoundland entered the Dominion at exactly midnight on March 31, 1949 with no intentions of having an April Fool's laugh at Canadians.

NEW BRUNSWICK NEWS

L.C.A.R.C.

Paul Blakney, VE1JU, near the N.B./N.S. border, is one of the few persons in North America making horse collars. He was recently revived by national magazines proving that the Maritimes are still unique.

A meeting of the Convention Committee was held in Moncton and they are pleased to announce that the Fredericton A.R.C. will host a convention in that city from August 31 to September 2, 1974. The co-chairman for this event will be Al Thurber, VE1AKT and XYL Pat, VE1AJT.

The committee also accepted a bid from the Moncton area A.R.C. to host a convention in 1975. New Brunswick is really on the move.

FREQUENCIES TO MONITOR FOR LOST OR DOWNED AIRCRAFT

Saskatchewan ARL

The aircraft frequencies to be monitored in case of a lost or downed aircraft emergency are:

5,680 kHz	1,651 kHz
5,065 kHz	1,621 kHz
1,666 kHz	4,610 kHz
4,689 kHz	1,681 kHz
1,696 kHz	1,636 kHz

If you are buying crystals, note the following, received from C.R. Snelgrove Co. Ltd., Toronto: "The Snelgrove Company, like all other manufacturers, is faced with steady increases in all elements of cost—direct labour, material and fixed overhead items... and effective FEBRUARY 15, 1974, some price adjustments are necessary.

"Small orders of 25 units or less will be subject to an order process charge of \$15.00 per order."

THE LATEST ON 220 AND 440 IN THE PEOPLE'S REPUBLIC

The Canadian Amateur learned from the ARRL VHF Repeater Advisory Committee's chairman, Howie Lester W2ODC, that the brakes were applied to the Citizen's Radio Service grab at 224-225 MHz in the U.S. due to the heat generated by the U.S. Department of Justice over the use of CB equipment to organize the recent truck strikes and blockades in the U.S.

Offsetting this, however, Howie believes that U.S. Amateurs had better count on kissing the top two kilohertz of the 425-450 MHz band good-bye. It looks as though the pressure for the Emergency Medical Service use is going to win out.

It is hoped that the FCC will consult with Mexico and Canada on this possible denigration of international agreement and ensure that these stations (which have run as high as 2500 watts ERP) are kept away from border areas, as called for in ITU agreements.

Canadian operators should not panic. These goings-on do NOT apply to Canadian Amateur allocations.

NATIONAL MUSEUM ON THE AIR

The call "VE3 January Washington" has returned to the air. Since the original 'owner' Jim Cotter of Ottawa died, the call has been unassigned.

Due to the work of Ed Morgan VE3GX, and the assistance of the Ottawa Valley Amateur Radio Club and through the generosity of the makers of Heathkit gear and the co-operation of National Museum authorities, the call is now coming from the National Museum of Science and Technology in Ottawa.

The use of the call is a memorial to one of those real gentlemen of amateur radio who was well known in the early and post-war days. Jim was blind but never let that slow him down and his friendly drawl and happy philosophy of life was a real pleasure hear.

The station went on the air in a series of shakedown sessions in the week of February 1. A formal opening will be held when all of the installation is completed. A Heathkit SB101 and a KW amplifier plus other station equipment by Heath forms a permanent exhibit of the latest Heath equipment and a very interesting addition to the Museum's action exhibits in the Communications section.

ARRL NEWS

Newstand Sales of QST

Beginning with the April issue, the cover price of QST sold at newstands is being changed to \$1.00 per copy.

ARRL Affiliated Clubs

The February 1974 Club Bulletin will soon be mailed to all active ARRL affiliated clubs. This issue contains the annual club survey forms which must be completed and returned to ARRL HQ's as rapidly as possible. In cases where recent officer elections have been held, the bulletin may reach a former officer. Thus, if you club is affiliated but has received no bulletin by March 15, the address of the current club secretary should be sent to ARRL HQ's with a request for a duplicate club bulletin.

ARRL Cdn. Div Vice-Director Appointed

ARRL President Dannals, W2TUK, has appointed Howard Cowling, VE3WT of 64 Dunkeld Avenue, St. Catherines, Ontario, L2M 4A7, as new Vice-Director of the ARRL Canadian Division. Howie is a member on the ARRL VHF Advisory Committee and ARRL liaison in the Canadian Repeater Advisory Group.



hallicrafters

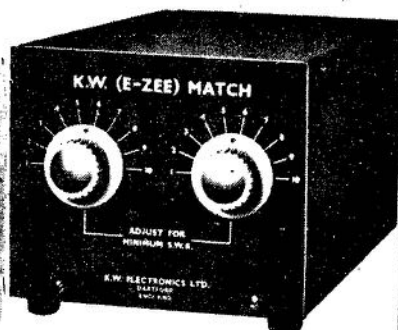
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V7P - 2L6

Six Meter Fans

Last October, a number of active six meter operators in San Antonio, Texas, formed a new six meter club. Its name is the Six Meter International Radio Klub (SMIRK) 6-6 Net.

We became concerned with the loss of interest in six meter operating on a local, national and international level. So, to correct that deficiency, we started SMIRK. So far the results have been outstanding. In four months time it has grown to 70 members in 15 states and three foreign countries.

To become a member of SMIRK, get active on six meters, call CQ SMIRK or CQ 6-6 and make contacts with SMIRK members. You must have six contacts with SMIRK members for membership requirements. Once you have gained the necessary contacts, send the list to Ray Clark, K5ZMS/5, 7158 Stone Fence Dr., San Antonio, Texas 78227, giving the dates, time, call sign of station worked and his SMIRK number. Enclose a one-time \$2.00 membership fee. If a check or money order is used, make it payable to SMIRK.

Canadian stations are only required to work three members instead of six required for stateside stations. Once the application has been received and checked for validity, your certificate will be sent to you with your SMIRK number. Then you can commence to give your SMIRK number to others.

There is also an additional awards program in effect for working 100, 250, 500 and 1,000 SMIRK members.

Silent Key - Thomas Letts, VE2BG

The Montreal Amateur Radio Club and the Professional Loafers Net, and indeed the Amateur Fraternity, were saddened to hear that Tommy 'Pip Pip' Letts, VE3BG quietly passed away at his residence in Longueuil, Quebec on Saturday, 25 January, 1974. Tommy was in his 87th year.

USE OF CARBON TETRACHLORIDE HAZARDOUS

The use of Carbon Tetrachloride, suggested in The Canadian Amateur quote from RTTY News, should be avoided. Carbon Tet is a very toxic material, both in the liquid form and in the form of vapour which it gives off continually in free air due to its high rate of evaporation.

Inhaling the vapour can be lethal and in lesser quantities it can cause liver and kidney damage if continually absorbed. There is some suspicion that its effects are cumulative, and that it can be absorbed by skin contact.

Another nasty side effect is its tendency to oxidize in the presence of air and heat, into the gas phosgene. As the old-timers will remember, this was one of the lethal gases used in WW1.

So clean your teletypes by all means, but use some of the less toxic grades of commercial cleaners, and be sure to read and follow the directions on the can. Some of these can be hazardous if used carelessly as well.

CQ Old Time Brass Pounders

The Society of Wireless Pioneers, an organization of professional wireless and radio men is seeking to establish a chapter in Eastern Canada.

The Society publishes an excellent yearbook and directory preserving the history of an era of social and economic changes.

The Society is open to present or former 'brass-pounders' on CW circuits.

More information and application forms can be obtained from Art Stark, VE3ZS, 22 Lyall St., Ottawa, K2E 5G8, Ontario. The dues are \$5.00 per year, plus a \$2.50 initiation fee.

It seems to us...

Robert Cameron, VE7AKJ

I believe, contrary to what Sid Gould writes in the December issue of the Canadian Amateur, that Field Day is indeed an important emergency preparedness activity. Mr. Gould bases his criticism of Field Day on the type of operating

I believe, contrary to what Sid Gould VE2AXQ writes in the December issue of The Canadian Amateur, that Field Day is indeed an important emergency preparedness activity. Mr. Gould bases his criticism of Field Day on the type of operating procedures used. Far more important, however, is the role Field Day plays in the maintenance of emergency equipment.

In the first place, many Amateurs and clubs would not even think of owning emergency equipment if it were not for Field Day. Not many of us are willing to spend large sums on equipment that would probably never be used. Thus, Field Day serves as an excellent excuse just to own emergency equipment.

To really be ready for an emergency, however, all equipment must be regularly maintained. Field Day is also useful here as an excellent incentive to check this equipment out at least once a year. If it were not for Field Day, the condition of this equipment would deteriorate without service and be quite useless in an emergency.

Certainly many Amateurs lack the ability to operate effectively in an emergency, and Mr. Gould's point is well taken that Field Day does little to further this ability.

Mr. Gould's attack is misdirected, however. The only real method that Amateurs can use to increase their operating skill in preparation for emergencies is daily operation in co-ordinated activities such as ARPSC, not in a once-a-year event. Thus, Mr. Gould should redirect his energies into convincing more Amateurs to get on the air more of the time into nets.

Net Roster

NET	TIME	FREQUENCY
Saskatchewan Nets		
Phone Net	0100Z nightly	3785 kHz
Swap Net	after Phone net (Tue)	
C W Net	0130Z nightly	3690 kHz
AREC Net	1530Z Sundays	3780 kHz
	1900Z Sundays	7175 kHz
Manitoba Nets		
Phone Net	0100Z nightly	3765 kHz
Swap & Shop Net	after Phone net (Sun)	
C W Net	00457	3660 kHz
Alberta Nets		
Phone Net	0130Z	3770 kHz
Swap & Shop Net	after Phone net (Mon)	
ALTA Traffic Net	2030MST (Tue,Thu,Sun)	3690 kHz
ALTA Training Net	0200Z (Mon,Wed,Fri)	3680 kHz
British Columbia Nets		
Phone Net	0200Z nightly	3755 kHz
Emergency Net	0300Z nightly	3650 kHz

CANADIAN QSL CARDS ARE AVAILABLE FROM CARF

This service is open to all Amateurs. CARF members may have the emblem added at no extra cost.

Good variety of distinctly Canadian designs and color schemes.

Can be printed in lots from 200 up.

For package of samples, send 25 cents in stamps to: C.A.R.F. QSL DEPT. P.O. Box 356, Kingston, Ont. K7L4W2.

CANADIAN RADIO REGULATIONS HANDBOOK TEMPORARILY IN SHORT SUPPLY

The Canadian Amateur Radio Federation wishes to thank its members for the popularity of the Handbook.

Unfortunately, due to the popular demand for the publication, the Federation has temporarily run out of copies.

As a result, we request that no more orders be sent in for the handbook until the advertisement re-appears in The Canadian Amateur indicating that more have been printed.

the canadian amateur



The official journal of the Canadian Amateur Radio Federation offers you news and information on the Amateur scene to aid in the fullest enjoyment of your hobby.

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Each issue features technical articles, opinions, features, an updated listing of banned countries, traffic and licensing agreements.....items that concern you as an amateur radio operator.

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BANNED COUNTRIES LIST

Cyprus*, Gabon, Irac, Pakistan, Turkey, Libya, Khmer Republic**, Viet-Nam**, Yemen.

*-Amateur operations suspended except for operation on special occasions when call sign 5B4 will be used and communication with all other countries is permitted.

**-Station XV5AC in Viet-Nam and XU1AA in Khmer Republic have been granted permission to communicate with stations in other countries.

THIRD PARTY TRAFFIC AGREEMENTS

Bolivia, Chile, Costa Rica, Dominican Republic, Honduras, El Salvador, Israel, Mexico, Peru, Venezuela, U.S.A. (Territories and Possessions), Trinidad and Tobago.

RECIPROCAL LICENCING AGREEMENTS

Belgium, Brazil, Dominica, Dominican Republic, France, Ecuador, Federal Republic of Germany, Guatemala, Israel, Peru, Luxembourg, Mexico, Netherlands, Norway, Nicaragua, Portugal, Republic of Panama, Senegal, Sweden, Switzerland, U.S.A., Uruguay, Venezuela and Denmark.

Note: All Commonwealth countries are eligible for reciprocal Amateur operating privileges unless evidence that a country does not grant reciprocal operating privileges to Canadian Amateurs.

AUTHORITY TO OPERATE IN THE U.S.A.

The national Federation has copies of the FCC Form 410. This form, properly filled out and stamped, is necessary for Canadian Amateurs to operate their equipment while in the United States. Send a self-addressed, stamped envelope (marked U.S. FORM) to CARF, Box 356, Kingston, Ont. K7L4W2.

RADIO HANDBOOKS FOR THE FRANCOPHONE

There are two excellent handbooks for the Canadian Amateur, written in French by Canadians. They are useful as a training aid for those who wish to obtain their Amateur certificate.

The books are: "Electronique d'Amateur", published by the Quebec provincial society, Radio Amateur du/of Quebec. It is available from the secretary, RAQI, P.O. Box 1516, Quebec, P.Q. for the price of \$6.00.

"Electrinique Pour Le Radio Amateur" is priced at \$8.50 and is available from Librairie Beauchemin Ltee, 450 Beaumont St., Montreal, P.Q. or Payette Radio Ltd., 730 St. Jacques St., Montreal.

C.A.R.T.G. BULLETINS

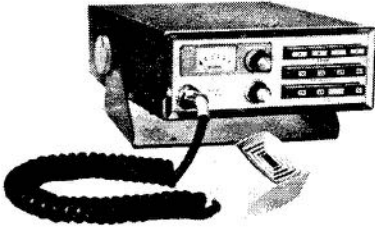
New Time: CARTG RTTY Bulletins
Sundays: Frequency-----14090
Time-----1800 GMT
NCS-----VE7LL

VE7LL - Al Venning will be transmitting C.A.R.T.G. Bulletins each Sunday. Tune in and print the latest news of happenings in the RTTY world.--CARF-ARRL-CARTG.

* * * * *

If you have info to be included in the transmissions, send to CARTG or direct to:

Al Venning VE7LL
6171 Brantford Avenue,
Burnaby 1, British Columbia.
V5E 2R8



HW-202 SPECIFICATIONS—RECEIVER—Sensitivity: 2 dB SINAD* (or 15 dB of quieting) at $5\mu\text{v}$ or less. **Squelch threshold:** $3\mu\text{v}$ or less. **Audio output:** 2 W at less than 10% total harmonic distortion (THD). **Operating frequency stability:** Better than $\pm 0.0015\%$. **Image rejection:** Greater than 55 dB. **Spurious rejection:** Greater than 60 dB. **IF rejection:** Greater than 75 dB. **First IF frequency:** 10.7 MHz ± 2 kHz. **Second IF frequency:** 455 kHz (adjustable). **Receiver bandwidth:** 22 kHz nominal. **De-emphasis:** -6 dB per octave from 300 to 3000 Hz nominal. **Modulation acceptance:** 7.5 kHz minimum. **TRANSMITTER—Power output:** 10 watts minimum. **Spurious output:** Below -45 dB from carrier. **Stability:** Better than $\pm 0.0015\%$. **Oscillator frequency:** 6 MHz, approximately. **Multiplier factor:** X 24. **Modulation:** Phase, adjustable 0-7.5 kHz, with instantaneous limiting. **Duty cycle:** 100% with ∞ VSWR. **High VSWR shutdown:** None. **GENERAL—Speaker impedance:** 4 ohms. **Operating frequency range:** 143.9 to 148.3 MHz. **Current consumption:** **Receiver (squealed):** Less than 200 mA. **Transmitter:** Less than 2.2 amperes. **Operating temperature range:** -10° to 122° F (-30° to $+50^{\circ}$ C). **Operating voltage range:** 12.6 to 16.0 VDC (13.8 VDC nominal). **Dimensions:** $2\frac{3}{4}''$ H x $8\frac{1}{4}''$ W x $9\frac{7}{8}''$ D.

*SINAD = $\frac{\text{Signal} + \text{noise} + \text{distortion}}{\text{Noise} + \text{distortion}}$

New Heathkit 2-meter Transceiver ONLY \$237.⁵⁰

It's an all solid-state design that you can build and completely align without special instruments. And this compact little beauty gives you 36 channel capability with independent push-button selection of 6 transmit and 6 receive crystals. 10 watts minimum output into an infinite VSWR without failure. And for the ultimate in convenience there's the optional tone burst encoder for front panel selection of four pre-settable tones. The HW-202 kit includes two crystals for set-up and alignment and simplex operation on 146.94; push-to-talk mike; 12-volt hook-up cable; heavy duty clips for use with temporary battery; antenna coax jack; gimbal bracket, and mobile mounting plate.

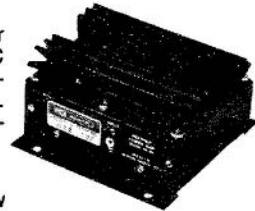
Kit HW-202, 11 lbs., mailable	237.50*
Kit HWA-202-2, Tone Burst Encoder, 1 lb.	32.95*
Kit HWA-202-1, AC Power Supply, 7 lbs.	39.95*
Kit HWA-202-3, Mobile 2-Meter Antenna, 2 lbs. .	29.95*
Kit HWA-202-4, Fixed Station 2-Meter Antenna, 4 lbs.	25.95*

... and here's 40 watts out for your 10 watts in

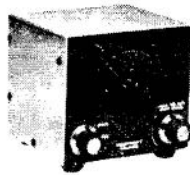
The Heathkit HA-202 2-Meter Amplifier works with any 2-meter exciter delivering 5-15 watts while pulling a meager 7 amps from any 12 VDC system. No additional power supplies are required. All solid-state components mount on a single circuit board for easy two-evening assembly. Manual shows exact alignment procedures using a VOM or VTVM. Connecting cable and antenna cable are included.

Kit HA-202, 4 lbs. 89.95*

HA-202 SPECIFICATIONS—Frequency range: 143-149 MHz. **Power output:** 20W @ 5 W in, 30W @ 7.5W in, 40W @ 10 W in, 50W @ 15 W in. **Power input (rf drive):** 5 to 15W. **Input/output impedance:** 50 ohms, nominal. **Input VSWR:** 1.5:1 max. **Load VSWR:** 3:1 max. **Power supply requirements:** 12 to 16 VDC, 7 amps max. **Operating temperature range:** -30° F. to $+140^{\circ}$ F. **Dimensions:** $3''$ H x $4\frac{1}{4}''$ W x $5\frac{1}{2}''$ D.



\$89.95



\$39.95

... then there's this perfect 2-meter tune-up tool

The Heathkit VHF/SWR Bridge tests transmitter output in power ranges of 1 to 25 watts and 10 to 250 watts $\pm 10\%$ of full scale. 50 ohm nominal impedance permits placement in transmission line permanently with little or no loss. Built-in SWR bridge for tuning 2-meter antenna for proper match, has less than 10-watt sensitivity.

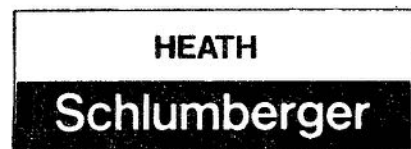
Kit HM-2102, 4 lbs. 39.95*

HM-2102 SPECIFICATIONS—Frequency range: 50 MHz to 160 MHz. **Wattmeter accuracy:** $\pm 10\%$ of full-scale reading. **Power capability:** To 250 W. **SWR sensitivity:** less than 10 W. **Impedance:** 50 ohms nominal. **SWR bridge:** Continuous to 250 W. **Connectors:** UHF type SO-239. **Dimensions:** $5\frac{1}{4}''$ W, $5\frac{1}{4}''$ H and $6\frac{1}{2}''$ D, assembled as one unit.
*Using a 50 Ω noninductive load.

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