

# the canadian amateur



Volume Two

June 1974

Number Six

## **CARF** President's Report 1973/74

With the tremendous backing of the members of CARF's official family, the past year has been one of achievement and activity on behalf of the Canadian Amateur Experimental Service.

The Federation was saddened by the untimely passing of Gil Stevens, VE3BBO, Editor THE CANADIAN AMATEUR, Jim Strain, VE3BSG, Director-at-Large and Leon Brown, VE3MW, Charter Director, and the resignation of Boyd Coffin, VE7CBC, Vice-President, due to personal problems. Their help and valuable counsel is sorely missed. Several new members were added—Steve Campbell, Editor T.C.A., Frank Merritt, VE7AFJ, Director and Vice-President, H.T. Edworthy, VE3CLG, Treasurer, Art Stark, VE3ZS, DOC Liaison, and Jim Fawcett, VE3GQJ and Dr. Herb Greenidge, VE3DWA, Membership.

The highlight of the year was the meeting between the Directors of CARF and Harry Dannals, W2TUK, President A.R.R.L. and his senior Canadian officials. This meeting laid the groundwork for continued co-operation and mutual support of the two organizations and will lead to official recognition of CARF as the national Amateur organization of Canada. As evidence of the feeling of rapport engendered at the meeting, the Federation and the League have jointly sponsored the Canadian Repeater Advisory Group (CRAG) and the Canadian Emergency Communications Advisory Board (CECAB). Space in T.C.A. was offered to the ARRL for a column, written by their Canadian Division and subscriptions were taken for ARRL officials in Canada and the United States. This spirit of co-operation and mutual regard was welcomed by the majority of Canada's Amateurs.

Regular membership in the national Federation increased to nine with the inclusion of the Saskatchewan Amateur Radio League on 1 January 1974. Unfortunately, due to certain problems, the British Columbia Amateur Radio

Association ceased membership on 6 April 1974. Discussions are being held with the Radio Amateurs du/of Quebec Inc as to their membership and support and it is entirely possible that the Federation will number all ten provinces as Regular members by the end of 1974.

Affiliate membership was introduced at the beginning of 1974 and the Canadian Ladies Amateur Radio Association and the Canadian Amateur Radio Teletype Group immediately sought, and gained this class of membership.

Associate (individual) membership was initiated on 1 January 1973 and 763 Amateurs took out membership by the end of 1973. Membership totals in 1974 are substantially ahead of 1973 figures.

Honorary membership was granted to four outstanding Amateurs by the Board of Directors.

THE CANADIAN AMATEUR, although plagued by printing and postal problems and the loss of Gil Stevens, continued to grow in stature and influence. Steve Campbell has continued to improve the format, appearance and content and the acquisition of Young Media Sales as our advertising agency has brought a welcome increase in advertising content.

The many services of CARF continue unabated. THE CANADIAN AMATEUR RADIO REGULATIONS HANDBOOK, 2nd edition, will shortly be published; the NATIONAL QSL BUREAU is handling many thousands of incoming QSL cards and speeding them to the provincial bureaus; the CARF CANADIAN QSL CARDS are welcomed by an increasing number of active Amateurs; CRAG is off to an encouraging start; and CECAB is starting the formation of a Canadian Amateur Radio Emergency System. Your national Federation will continue to become involved in the many aspects and activities of Amateur Radio in Canada as our growing support and finances permit.

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- Nova Scotia Amateur Radio Association
- Amateur Radio League of Prince Edward Island
- New Brunswick Amateur Radio Association
- Radio Society of Ontario, Inc.
- Amateur Radio League of Alberta
- Amateur Radio League of Manitoba
- Saskatchewan Amateur Radio League

## From the Front Office

MILES FOR MILLIONS Month is now history, FIELD DAY is here and the season of picnics, hamfests, mobile and portable operation is just ahead. It is the time when Amateurs look up at their antenna systems and make firm resolutions to repair, maintain and improve the towers and devices. And, as in other years, the snow will again be flying before any self-respecting member of the fraternity takes any action, hi.

Reports coming in to the office indicate that more and more Amateur clubs are becoming involved in the supply of public service communications.....and doing a very commendable job. One local club supplied area communications for the Winter Car Rally in February, municipal communications for an EMO exercise, Miles for Millions in May, and is making plans for additional EMO exercises, a bikeathon, and another Car Rally before the year is finished. Excellent, favourable publicity about Amateur radio is generated by these and similar activities and is doing away with the former public impression of Amateurs as TVI generators.

## President's Report 73/74

continued from page one

Co-operative and friendly relations with officials of the Department of Communications continue with Art Stark settling several matters of concern brought to the attention of the Federation. The DOC is undergoing a period of re-organization and, due to new administrative policies, has not yet acted on several requests of the national body including expansion of the Canadian phone sub-bands, mobile logging requirements and regulations for Amateur auto-repeaters.

During the past year the Federal Communications Commission of the U.S.A. announced that they were considering allotment of portions of the U.S. Amateur VHF/UHF bands to other services. As this change would affect the Amateurs of Canada, the national Federation made strong representation to the DOC. No action has been taken by the FCC on these proposals, due, we are informed, in no small measure to the comments made by the DOC on our behalf.

The future looks bright for Canadian Amateur Radio, its national organization and the provincial societies. There was a substantial increase in the number of Amateur licences and this is reflected in the membership gains of many of the provincial bodies. There is no dearth of activity by the Amateurs as evidenced by the many reports of public service communications, including life and death emergencies, conventions, hamfests, picnics, contests, etc. etc. etc.

In conclusion I must thank the the Officers, Directors and Executive members of the Federation for their steadfast support and encouragement in overcoming the many problems as they arise. The cheery, inspiring comments made by many individual Amateurs continues to strengthen our resolve to function to the well-being and succedss of the Amateurs of Canada.

Readers of The Canadian Amateur are reminded that this publication is not issued in the months of July and August.

See you in September.

# Your National Executive



**Doug Burrill - VE3CDC**

CARF Director Doug Burrill, VE3CDC, is a native New Brunswicker now living in Ottawa where he ended up in 1951, graduating from Carleton University with a journalism degree. After living in Regina and Saskatoon as a boy he spent five years in the Signal Corps during WW II where he spent a good deal of time nursing 19 sets over the length and breadth of Italy and Europe.

Returning to Saint John, he got his Amateur certificate in 1947 and went on the air with the call VE1FV.

Doug's chequered career included working in CHSJ in Saint John, working on a newspaper, with the N.B. Telephone Company and then in Ottawa in electronic procurement with the Department of Supply and Services. He has been engaged in emergency planning for several years and recently has been a communications consultant with the Canada Emergency Measures Organization.

Between writing for the Canadian Amateur and keeping in almost daily touch with amateur organizations, especially VHF repeater groups across the country, he manages a bit of H.F. working but has been forced to restrict most of his operating to "button-pushing" on two meters.

## ANNUAL REPORT OF DEPT OF COMMUNICATIONS

The annual report of the Department of Communications, covering the year ending 31 March 1973, has been published by Information Canada and parts of the report make interesting reading for operators in the Amateur Experimental Service. The report does mention that the United States "recently extended the radiotelephone segments of the radio Amateur 75 and 40 metre bands". And that, as several Amateurs have requested changes in the Canadian sub-band allocations, a questionnaire/ballot has been distributed to all Canadian Amateur licensees to determine the wishes of the Amateurs as a whole....remember, this is the report for the year ending 31 March 1973.

Also of interest is the notation that "Radio noise limits for industrial, scientific and medical radio frequency generators and for the domestic commercial electrical equipment and appliances were revised". And, "Direction finding equipment was installed at the monitoring stations at ALMONTE, Ont., FORT SMITH, NWT, AND MONTAGUE, PEI."

The Appendices contain some statistical information re the Service:

Number of Amateur licensees - 13,121

Number of GRS licensees - 67,373

The GRS have the largest block of licensees of the Major Users of Radio in Canada (1972-73) with the AES the

fourth highest. Total number of radio stations licenced (excluding commercial broadcasting) - 296,620.... a 10 per cent increase over 1971-72.

An interesting statistic is that the total value of licence fees for the GRS was \$268,710 while for the AES was \$131,210, with the fees received from the Amateurs the lowest block in monetary value.

## hamfests

The Fredericton Amateur Radio Club is sponsoring the Maritime Provinces Hamfest in Fredericton, August 31st to September 1st, held on the University of New Brunswick campus with all accomodations and meals available within a three building complex at Saint Thomas University which forms part of the University of New Brunswick campus. Camping and other accomodations are available.

The program will consist of lectures, films and forums etc. together with transmitter hunts. A special separate program is planned for non ham xyls. There will be a buffet on Saturday evening and a banquet on Sunday evening. Late Saturday evening there will be a corn boil at one of the city's parks. An ecumenial church service is planned for Sunday morning. Talk-in on the 34/94 and 16/76 repeaters and 3.750 MHz.

More information is available from: A.K. Thurber, VE1AKT, 365 Southampton Drive, Fredericton, N.B.

### MAPLE RIDGE CENTURY 74 HAMFEST

Maple Ridge Century 74 Hamfest; 9 AM, July 13 to 3 PM, July 14 at the Exhibition Grounds, Maple Ridge, B.C.

Registration two dollars over 12 years age, 12 and under free when accompanied by parents.

D.O.C. providing Enforcement Van for freq. checks, and lecture on topical subjects; Swap & Shop, C.W. Bingo; 2 mtr Bunny Hunt on 147.33; Ladies program; kids games; R.C. Models; P. C. Board lecture; Draws and prizes.

Monitored frequencies to assist arrivals, 317.55, 147.33, 146.76 and repeater VE7RPT 146.34/.94 MHz.

Limited on site camping or trailering, washrooms but no hook-ups, write or phone for advanced registration or assistance with accomodation Bob Haughton, President M.R.A.R.C., 20623 - 114 Ave., Maple Ridge, B.C. V2X 1J7. Phone number 465-4247, area code 604.

### INTERNATIONAL HAMFEST

OM's XYL's, YL's, Harmonics.....Mark your calendars - Saturday and Sunday, July 13 and 14 for the Eleventh Annual International Hamfest at the Pavilion (Canadian Side) at the International Peace Garden. Plan your holidays and vacations around this event of the year for Hams and their families in North Dakota, Manitoba and neighboring states and provinces. Camping facilities are plentiful and excellent at the Peace Garden and at other campgrounds in the Turtle Mountains. Power hook-ups, showers, and restrooms are available at some sites. Meals are served at the Pavilion dining room. There are restaurants and motels within 17 miles.

### TENTATIVE PROGRAM

Saturday - Registration 2PM to 6 PM. 3 dollars for Hams, 1 dollar XYL's and non-hams, children free. Talk-in 146.94 & 147.33

Displays, Eyeball, Swap & Shop Table, etc. General Assembly at 7 PM with introductions, opening comments and Ham Bingo. Ham Film at about 8 PM. Party and Dance at 9 PM with live band. Admission 1 dollar per person. Refreshments will, of course, be available.

Sunday - Registration opens at 10 AM, 2 Meter transmitter hunt & 75 Meter transmitter hunt, Mobile Judging Contest. Some of the prizes - 2 M antenna, SWR bridges, camping gear.



Canadian Repeater Advisory  
Group

### VACATION GUIDE TO FM REPEATERS

This list of Canadian repeaters has been compiled by CRAG by direct liaison with provincial societies and VHF associations. It was closed off on May 21. If errors or omissions are found, drop a line to the CRAG Secretary VE3CEZ, J. Lyle Ward, 2188 Iris St., Ottawa and amendments will be published in the September issue of TCA.

Alberta: (Source-ARLA VHF Comm. Chairman VE6ATA)  
 Calgary VE6AUJ 6.46-7.00  
 Calgary VE6RPT 6.34-6.94  
 Cold Lake VE6OC =.46-7.00  
 Edmonton VE6WQ 6.46-7.00  
 Grand Prairie VE6OL 6.46-7.00(Inactive)  
 Lethbridge VE6CAM 6.28-6.88  
 Medicine Hat VE6HAT 6.46-7.00(Possible change to 46.06)  
 Red Deer VE6QE 6.46-7.00  
 Wetaskiwin VE6?? 6.34-6.94(Proposed:no date for operation)

British Columbia: (Source-VE7QT and VE7MQ, BCFMC Assoc)  
 Chilliwack VE7ELK 6.46-7.00  
 Kamloops VE7KAM 6.34-6.94  
 Kimberly VE7CAP 6.34-6.94  
 Nanaimo VE7CNR 6.04-6.64  
 Nelson VE7BTU 6.46-7.33  
 Pentiction VE7OKN 6.34-6.94 (Summer 74)  
 Prince George VE7AFG 6.34-6.94  
 Salmon Arm VE7APH 6.46-7.00 (To be changed)  
 Trail VE7CAQ 6.34-6.94  
 Vancouver VE7RPT 6.34-6.94  
 Vancouver VE7VAN 7.72-7.12  
 Victoria VE7BEL 6.22-7.54

Ontario: (Source-RSO VHF Committee Chairman VE3BBW and VE3WT, WNY & S.O. Rptr Council)  
 Barrie VE3BOR 6.25-6.85  
 Belleville VE3KBR 6.46-7.06  
 Bracebridge VE3MRT 6.28-6.88  
 Brockville VE3WXR 6.28-6.88 (Summer 74)  
 Brantford VE3TCR 6.55-7.15 (Proposed 7.75-7.15 by July 1)  
 Burlington VE3RSB 7.81-7.21  
 Chatham VE3KCR 6.46-7.06  
 Deep River VE3NRR 6.34-6.94 (July 74)  
 Goderich VE3GOD 6.43-7.03  
 Hamilton VE3DRW 6.16-6.76 (Alt.o/p 6.79)  
 Ingleside VE3?? 6.16-6.76 (Summer 74)  
 Kingston VE3KER 6.34-6.94  
 Kitchener VE3KSR 6.37-6.97  
 6.34-6.94 (Alt. i/p and o/p)  
 London VE3LAC 6.46-7.06  
 London VE3NDT 6.34-6.94  
 New Liskeard VE3TAR 6.34 & 6.46 in:146.94 out  
 North Bay VE3NFM 6.34-6.94  
 Oshawa VE3OSH 7.72-7.12 (Alt. i/p 6.40)  
 Ottawa-Hull VE2CRA 6.34-6.94 (site in Que.)  
 443.3-448.3 (low i/p, high o/p)  
 Owen Sound VE3OSR 6.34-6.94  
 Peterborough VE3PBO 6.34-6.94  
 Peterborough VE3KRA 222.34-223.94  
 Port Colborne VE3WCR 7.90-7.30  
 Renfrew VE3STP 6.46-7.06  
 St. Catherines VE3NRS 7.84-7.24  
 Sarnia VE3SAR 6.34-6.94  
 Sault Ste Marie VE3SSM 6.34-6.94  
 6.46 (Alt. i/p)  
 Sudbury VE3SRS 6.46-7.06 (Going to 46/06)  
 Timmins VE3TIS 6.34-6.94  
 Thunder Bay VE3YQT 6.46-7.06  
 Toronto VE3TDX 7.93-7.33

## Repeater Frequencies

Toronto VE3MOT 6.58-7.18 (Proposed 7.78 i/p)  
 Toronto VE3RPT 6.46-7.06  
 52.760-52.525  
 Toronto VE3TFM 7.87-7.27 (Planned)  
 Toronto VE3UKW 449.40-444.0  
 Toronto VE3TOR 6.34-6.76  
 Toronto VE3PRT 448.30-443.30  
 Toronto VE3TFM 222.38-222.98  
 Windsor VE3WIN 6.46-7.06 (Proposed)  
 Windsor VE3III 6.46-7.06 (Possible freq. change when VE3WIN activated)

Manitoba (Source-ARLM (VE4AI) and Mid West CANAM Rptr. Group Chairman VE4QI)  
 Brandon VE4BDN 6.46-6.94 (i/p to 6.34, May 74)  
 Winnipeg VE4XK 6.46-6.94 (Change contemplated)

New Brunswick (Source-NBARA EMO Liaison VE1AIL and Interntnl Rptr Group (Maine-NB) President, VE1HU)  
 Fredericton VE1GT 6.34-6.94  
 Fredericton VE1PD 6.16-6.76  
 7.80-4.225 (AM)  
 Kintore Mtn (Perth) VE1KMT 6.46-7.06 (Summer 74)  
 Moncton VE1RPT 6.28-6.88  
 Saint John VE1KI 6.22-6.82  
 Scotch Mt VE1SMT looking at 146.01-146.61  
 St. Stephen VE1IE 6.28-6.88 (Summer 74)

Newfoundland: (Source-SONRA, VO1FX, VO1FN)  
 Cornerbrook VO1KI 6.46-6.94  
 Grand Falls VO1AV 6.46-6.94  
 Labrador City/Wabush VO2AD 6.46-6.94  
 6.34 alt. i/p summer 74  
 St. John's VO1GT 6.46-6.94  
 6.34 alt. i/p summer 74

Nova Scotia: (Source-NS VHF Assoc. Tech. Chairman, VE1AMC)  
 Bridgetown VE1BO 6.46-7.06  
 Gore VE1LHR 6.04-6.64 (Summer 74)  
 Halifax VE1ARC 6.34-6.94  
 (6.46 alt. i/p until July)  
 Liverpool ? 6.46-7.06 (July 74)  
 Mt. Blomidon VE1AEH 6.58-7.18  
 New Glasgow VE1HR 6.16-6.76  
 Sydney VE1JD 6.46-6.94  
 Truro VE1XK 6.46-7.06

Prince Edward Island: (Various Sources)  
 Charlottetown VE1ATN 6.10-51.525  
 52.525-7.00  
 Charlottetown VE1HI 6.34-6.94

Quebec: (Source- RAQI VHF Comm. VE2BDM and Greater Montreal Rptr Council President VE2BEN)  
 Alma 6.28-6.88 (Summer 74)  
 Chicoutimi VE2SP 6.34-6.94  
 Hull-Ottawa VE2CRA 6.34-6.94  
 443.3-448.3  
 Jonquieres VE2CRS 6.46-6.94  
 Matane VE2CSL 6.46-6.94  
 Montreal VE2PY 6.28-6.88  
 Montreal (Laurel) VE2DN 6.16-6.76 (Sept. 74)

Montreal Area (Rigaud Mt) VE2RM 6.40-7.18  
 (Proposed o/p to 7.00 for summer 75)  
 6.40-449.75  
 449.75-7.18  
 444.0-449.0

Montreal Area (Mont St. Bruno) VE2XW 6.70-7.60  
 Proposed change to 6.10/6.70 by summer 75

Montreal Area (Shawbridge) VE2ZO 6.46-7.06  
 (Change to VE2BG by June 74)

Mount Orford VE2TA 6.52-7.50  
 Proposed 6.19/6.79 or 6.13/6.73 summer 75

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-----

Quebec (Mont Ste. Anne)	VE2UX	6.22-6.82
Quebec	VE2OM	6.34-6.94
Quebec (Mont Buckland)	VE2ASU	6.70-7.60
Quebec	VE2VD	6.16-6.76
Quebec	VE2UB	7.12-6.64 (de VE2OB, owner)
Riviere du Loup	VE2NY	6.34-6.94
Sherbrooke	VE2SS	6.46-6.94
Saguenay District	VE2IU	6.16-6.76 (Eff. May 15, 74)
Seven Islands	VE2VP	6.22-6.82
Trois Rivieres	VE2??	6.46-6.94
	VE2AT	6.46-6.94
		Change to 6.07-6.67 June 74
Saskatchewan: (Source-SARL, VE5CU)		
Lloydminster	VE5FN	6.46-6.94 possible active summer 74
Moose Jaw	VE5CY	6.34-6.94 (Summer 74)
Regina	VE5SS	6.46-7.33
Saskatoon	VE5SK	6.34-6.94
Yukon and NWT		No repeaters known.

When copying or quoting, please acknowledge the Canadian Repeater Advisory Group (CRAG). TX.

GREATER MONTREAL REPEATER COUNCIL FORMED

The May organization meeting of the new Greater Montreal Repeater Council saw excellent co-operation by all concerned and a number of changes are scheduled to bring Montreal repeaters into standard 600 kHz spacing. They will follow, where practical, the suggested Canadian frequency plan. The proposed changes are:

VE2ZO (The Montreal Amateur Radio Club) will become VE2BG in May or June 1974 in memory of the late Tommy Lett. Proposes to change output to 7.00 by summer 1975. Present channel is 6.40/7.18.

VE2AT - Three Rivers, will go from 46/94 to 146.07/146.67.

VE2RM - Proposes to go from 146.40/147.18 to 146.40/147.00 by summer 1975.

VE2XW - Will go to 146.10/146.70 by the summer of 1975. (now 6.70/7.60)

VE2TA - Will probably go 149/146.79 if members okay it, by fall, 1974. (now 6.52/7.50)

VE2DN - When it goes on the air it will be 6.16/6.76. Simplex will go from 146.76 to 146.52 and 146.58. Amateurs are requested not to use 94 simplex so that WIKOO can be used in Montreal area, 146.04 and 146.64 will be reserved for RTTY simplex and repeater operations, subject to agreement by 146.04 simplex users.

All frequency assignments will be based on 30 kHz channels and narrow band equipment. To this end, repeaters will be set to have a deviation not exceeding 7.5 kHz.

Crystal banks will be set up by RAQI and the Montreal Amateur Radio Club. Chairman is VE2BEN, Ian Hodgson, 296 Malcolm Circle, Dorval H9S 1T7, P.Q.

Out of a CRAG list of 102 repeaters, as of May 15, the following is the usage of the frequencies suggested as a Canadian plan;

Input frequencies			
146.46	34	146.94	43
146.34	27	147.06	11
146.16	7	146.76	9
146.28	5	146.88	6
146.22	2	146.82	1
	75		70

With many changes proposed for 1974 to bring repeaters into line with the 600 kHz spacing between in and out, the discrepancy between 146.94 and 147.06 will no doubt be less as 34/94 and 46/06 become "channelized".

Frequencies other than those above appear only once or twice with one or two exceptions such as 147.00 out which is popular in Alberta, but ARLA may consider changing outputs this year on those repeaters, probably to 147.06, according to VE6ATA.

Reconciliation of the figures is not possible because some repeaters have two inputs.

## ANOTHER INTERNATIONAL REPEATER COUNCIL

New Brunswick correspondents informed CRAG that "The International Repeater Group" has been formed to take in the St. John River Valley, including in it repeaters in both N.B. and Maine. Chairman is Claude Bailey VE1HU, Box 398, Fredericton, who is also actively engaged in the running of three repeaters.

As of May, 1974, N.B. had VE1RPT, Moncton, 22/88; VE1KI, Saint John, which should be 22/82 (from 46/94) by June 1974, and VE1PD 16/76, site at Millville, 25 mile NW of Fredericton and VE1GT, in Fredericton itself. Proposed are VE1KMT, Kintore Mountain, (between Plaster Rock and Perth 46/06; VE1SMT, proposed frequency 147.66/146.06 (hi-in/lo-out) Scotch Mountain, (30 Miles NW of Sussex), and VE1IE, St. Stephen, with a proposed 28/88 channel.

The coverage from one or the other of these repeaters

will take in from Edmunston, down the St. John River Valley and the St. Croix Valley and the Saint John and Moncton areas. VE1PD and VE1KMT will also serve the U.S. side in Maine. The numerous U.S. amateurs at the U.S. Limestone Air Base will be able to use VE1KMT.

## "TWO MORE REPEATERS ON HIWAY 401"

The international St. Lawrence Valley Repeater Council allocated two Canadian plan channels at its May 25 meeting at Kemptonville, Ontario. VE3FVI, Roy Cole, sponsor of a repeater for Ingleside, west of Cornwall, has taken 16/76 and Hugh Wyatt, VE3WXR is going to use 28/88. Both stations are ready and depending on crystal availability will soon help to cover the gap on Hiway 401 between Kingston and Cornwall. There may also be some action in Ogdensburg and Potsdam on the U.S. side in the future, which would also give good coverage to that stretch.

# canadian capsule comment

## C.A.R.T.G. NEWS

We believe there are still a large quantity of teletype machines that are inactive and rusting quietly away in "somebody's basement". Many owners have no connection with RTTYers and have no thought, or do not know any way in which to dispose of these machines. Would suggest a kind of clearing house would be an answer to getting these machines on the market and successfully operating again.

If anyone knows of such machines and will inform C.A.R.T.G. where they are for sale, we will be glad to publicise this in Canada and the U.S. in an effort to get them in action again. They are also badly needed by the deaf operators in a vital attempt to communicate in cases of need when a telephone is useless to them.

Let C.A.R.T.G. know of such machines and of the need for them and we will endeavour to get supplier and requirer together. C.A.R.T.G., 85 Fifeshire Road, WILLOWDALE, Ontario M2L 2G9, tele: (416) 221-9756.

## BRITISH COLUMBIA NEWS

## BCARA OR CARF??

## Splatter

At a meeting in Kingston last summer between officials of CARF and ARRL, guidelines were set up for the submission of joint proposals to the DOC and the Canadian Repeater Advisory Group and the Canadian Emergency Communications Advisory Board were established under joint sponsorship. This action, taken for the benefit of ALL Canadian Amateurs has aroused the ire of the new executive of b.c.a.r.a. who have announced their intention of withholding any further support for C.A.R.F. We suggest that readers consider carefully which body, the National, or the Provincial, merits individual support.

Editorial note: At a meeting held in Kelowna on April 6, BCARA formally voted to cease membership in the national Federation. A small number of members attended, no proxy or mail votes were allowed and we are informed that the vote was 3 in favour of retention, 4 against membership.

## MANITOBA NEWS

## PROGRESS REPORT ON HAMFEST 74

## The Manitoba Amateur

The Winnipeg ARC is celebrating the City's Centennial by sponsoring HAMFEST 74, to be held at the International Inn on October 5th and 6th.

A fine executive is working hard to ensure success with events including a super auction, code tests, home brew contest, mobile contest, transmitter hunt, dinner and dance Saturday night with guest speakers and events for the (X) YLs and kids.

ONTARIO NEWS  
R.S.O. CONVENTIONS 1974

## Metro ARC

Tie a ribbon around your calendar so that you won't forget the date for this year's convention co-hosted by the R.S.O. and the Hamilton A.R.C. The dates are October 25-27 and the place is the Holiday Inn in Hamilton with everything under one roof-even the parking! There will be Forums on Slow and Fast Scan T.V. Antennas, Satellites, Teletype, DX, 2-meters & Repeaters, Troubleshooting and more. Also a continuous Flea Market and Auction, lots of major draw prizes and an extensive Ladies Program with a free dance after the banquet on Saturday.

## THE ONTARIO HAMFEST PICNIC

## Scarborough A.R.C.

Once again Amateurs will gather at Elora Gorge Conservation Area Park for a weekend of fun, recreation and fellowship. The dates for 1974 are July 6, 7, and 8. The Picnic was known for years as the "Chicken Junction Net Picnic" and last year the name was changed to Ontario Hamfest Picnic to denote that all Amateurs were invited to participate. At the same time, the Radio Society of Ontario was asked to sponsor the picnic with a selected club hosting the event each year.

This year the host club is the Scarborough ARC with the picnic held in the same location as previous years - about 8 miles north of Guelph. There will be a registration fee of two dollars per family and normal charges for rental of tent or trailer space. A simple program is planned with a general get-together on the Friday evening (camp fires, sing-songs, rag-chewing and 807 imbibing). Saturday will see a Flea Market during the afternoon with an Eye-ball QSO Party in the evening when SARC will supply the refreshments. A home brewed wine makers contest is also planned if enough entries are made.

Talk-in stations will be set up on 75 M and 2 M. CHIMO!

## TVI HINT

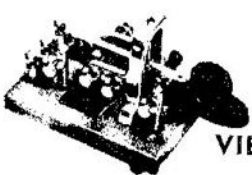
## Hamilton Amateur

Make sure that your guy wires, or their fastening straps, do not rub on the eavestrough. This can form a rectifier when rust forms on the contacted surfaces. Place a piece of insulation between the eavestrough and the wire/strap.

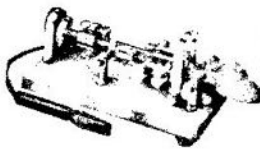
## ARRL NEWS

## NEW BRUNSWICK ARRL SEC APPOINTMENT

Emergency activities in northern New Brunswick will take on a new look with the appointment of VEISH, Ron Hesler, Sackville as ARRL Section Emergency Co-ordinator. Ron is a well-known old-timer and very active on HF and in the Moncton repeater association (VE1RPT).



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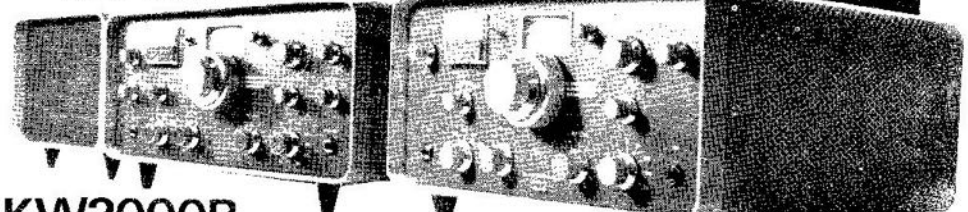
**FREQUENCY STANDARDS**  
FMS 3...HF  
FMS 5...VHF

Be sure you are on  
Frequency

Can be purchased as a kit.

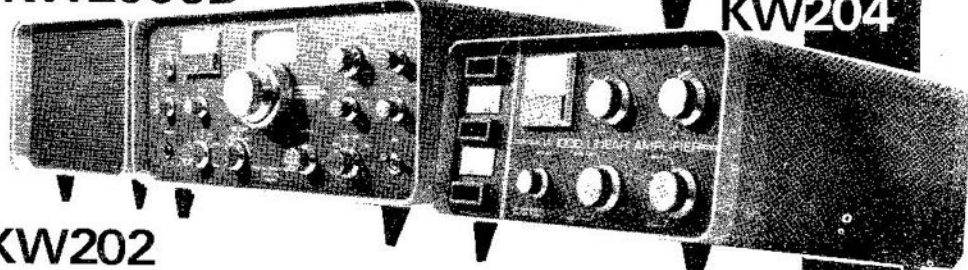
2 Meter  
PREAMP  
20 dB gain  
2.5 dB N.F.  
Diode-protected  
MOSFet

Kit or Wired



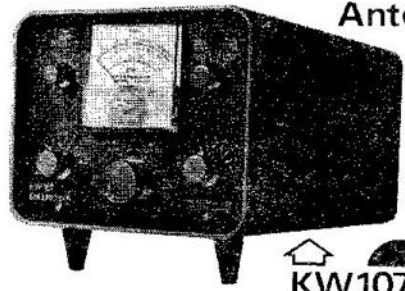
KW2000B

KW204

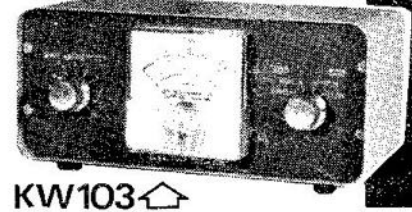


KW202

KW1000

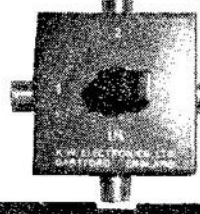


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## SASKATCHEWAN NEWS

Moose Jaw, Saskatchewan, a city of 35,000 suffered its worst flood disaster in the city's history during April 1974. This prairie city is situated at the junction of three small creeks, Thunder creek, Spring creek and the Moose Jaw River. Due to a heavy snow pack and a late spring, flooding was expected in the Moose Jaw River valley and steps were taken to control the high water level expected. However, unprecedented high levels occurred in all three waterways so that a large number of houses and businesses, never before suffering water damage, had to be evacuated. About 1200 people had to be evacuated, and flood damage exceeded nine million dollars.

Twenty-one Moose Jaw and district Amateur Radio Operators manned three two-meter base stations at EMO headquarters, or their mobile or portable sets from 1600 c.s.t., April 17 to 1800 c.s.t., April 24. This time it wasn't just another exercise, it was the real thing. The Hams worked diligently for the seven days of the emergency in shifts ranging from several hours to over 24 hours. They were a sleepy group when it was all over, but happy in the knowledge that they had put their time and equipment to good use for the benefit of the community.

The Regina Repeater was used for direct communication with Regina EMO office and the Regina Amateurs who were helping with the flood at lumsden. This facilitated the distribution of sandbags to all centres.

Amaterus taking part were: VE5AU, VE5AV, VE5DW, VE5IL, VE5JV, VE5IH, VE5KZ, VE5MR, VE5MW, VE5NG, VE5NX, VE5PQ, VE5QN, VE5TK, VE5UO, VE5UL, VE5WE, VE5XC, VE5XA, VE5YJ, VE5WF (Regina). The base stations operated under the Moose Jaw Amateur Radio Club Station call, VE5MA.

Three mobile operators, VE5IL, VE5AU and VE5NX were sworn in as special police to help prevent looting.

## NEWFOUNDLAND NEWS

The use of the new 'VX' prefix, obtained from DOC by SONRA, is receiving wide acceptance. It is nice to hear that the efforts of the club are appreciated. We have seen numerous mentions of this special attraction in the various Amateur publications and there is tremendous interest shown by DXers all over the world.

From time to time it is planned to activate the special 25 year call - VXI XXV - which is held by SONRA. To date it was used on New Year's Day and recently in the ARRL DX Contest.

The optional use of the VX prefix will last until the end of 1974. The Provincial Government will be supplying QSL cards for use by VX operators.

SONRA

## THE DELEGATE

Organization officialdom is full of many titles....the Something Here, the Something There, the Something Everywhere, the Exercisor, the Exploiter, the Explorer, and so on. But what about the DELEGATE, who is asked to take on certain tasks?? This is the way that any business or organization operates. High level, low level and in-between level decisions are made and, to get the job done, items are broken down into small packages to the individual, or Delegate level. Thus, by the individual efforts of many, under the guiding hand of a co-ordinator, the tasks are gradually accomplished.

When a club or other voluntary organization wants to do a job, the task is a little more difficult for the co-ordinator to reach the target and target date. He must find out what each member can do, and how well they do their thing, and entice the members into aiding the organization. This is no mean task and often requires that the co-ordinator possess the constitution of an iron horse!

Nevertheless small groups can work diligently and reach successful plateaus. When you are asked to do a task (become a Delegate), remember that a co-ordinator has been assessing your performance and considers that you are the best person for the job at hand....FEEL FLATTERED!!

LCARC Bulletin

## 17TH JAMBOREE - ON - THE - AIR, 1974

*The 17th Jamboree-on-the-Air will be held over the week-end of 19th - 20th October 1974. Suggested starting time is 0001 hours LOCAL TIME on Saturday 19th October, terminating 48 hours later [2359 hours LT Sunday]. Note that these are only suggested times and, if it is more convenient for your station to operate on the Friday evening, then you are perfectly free to do so.*

*An attractive "Participation Certificate", QSL card size, will be sent to all Amateurs who take part in the 17th JOTA and forward copies of their log for the event to Canadian Boy Scout Headquarters.*

*Additional details will be published as received. The Federation has noted that the Amateurs must supply leadership to local Scout groups by contacting the Scoutmasters directly and making the necessary arrangements for participation by the local Scouts, Guides, etc.*

## N.B. AMATEURS CO-OPERATE WITH EMO

Repeaters in New Brunswick have been integrated into an amateur radio auxiliary net for the provincial EMO emergency communications plan developed by VE1HU, Claude Bailey. The amateur participation is being co-ordinated by Frank Ryder, VE1AIL. Ron Hesler, VE1SH, in Sackville, is undertaking the organization of emergency activities in his area and has been in touch with VE1AIL.

## CANADIANS FEATURED AT ROCHESTER HAMFEST

The Rochester Hamfest, 1974, held on May 17/18, was about a one-third Canadian event judging by attendance, the banquet, head table, lecturers and those attending.

The hamfest is renowned for its flea market and under cool, sunny skies, some 3,000 amateurs looked at, haggled with, or bought from the scores of dealers, amateurs and others offering their wares. One third of the head table and the banquet audience was Canadian, and one of the four forums was conducted by Canadians.

Larry Kayser, VE3QB, received the ARRL Technical Merit Award for this year from ARRL President Harry Dannals, W2TUK. Larry and Randy Smith, VE2BYG, in their forum showed a responsive audience some excellent slides of the OSCAR 6 and OSCAR 7 amateur satellites and outlined the future of amateur satellite communications and experimentation.

ARRL President Dannals calmed the fears expressed by many in the ARRL forum that the proposed 224-225 MHz and 449 MHz assignments to the Citizen's Radio Service and the Emergency Medical Service in the US might go through by noting that these proposals "were currently sidetracked".

This was due in more than a small measure to a Mexican government protest and a protest to the FCC from DOC made at the request of the Canadian Amateur Radio Federation, which supplied DOC with brief technical data. Both of these proposals were in denigration of international agreements.

## World Administrative Radio Conference

From the report of the recent ITU plenipotentiary conference, it will be seen that the next WARC has been fixed to take place in 1979. This is a conference when all frequency allocations from 10kHz to 275GHz will come under scrutiny including all the Amateur frequency allocations. Preparatory work has already commenced for this conference and, if the Amateur service is to withstand the pressure that will be brought upon it, world-wide co-operation is essential.





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CANADA

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# Report on the April Executive meeting

A regular meeting of the national Executive was held in Kingston on 6 April.

Publications Committee - due to an unfortunate combination of illness and printing problems, the January, February and March issues of The Canadian Amateur were late in publishing. It is anticipated that future issues will be circulated prior to the 15th of each month of issue. Publication of the Second edition of the Canadian Radio Regulations Handbook is progressing satisfactorily and should be available in June. Steve Campbell, Editor The Canadian Amateur is getting married on 11 May and heartiest congratulations were given together with the usual humorous advices.

Membership Committee - paid up Associate membership in the Federation is well over the 700 mark with renewals and new memberships coming in at a welcome rate. A reminder to all members that much time can be saved by the volunteer workers of the committee if any correspondence re membership includes the membership number.

CRAG and CECAB - The Canadian Repeater Advisory Group and Canadian Emergency Communications Advisory Board were formed as a joint enterprise of CARF AND ARRL. CECAB is still in formative stage due to a change in administration of the Canadian Emergency Measures Organization. CRAG has been fully accepted by Amateurs involved in repeater licencing and operation with general agreement given to the Canadian National Band Plan based on 600 kHz spacing of inputs and outputs; use of area primary (34/94, 46/06, 28/88) and secondary frequencies (based on ARRL plan for US). Many Canadian repeaters have now changed to these frequencies and new repeaters are following CRAG guidelines.

DOC Liaison committee - several minor matters regarding regulation interpretation were settled. The CARF proposal for expansion of Canadian 75 and 40 meter phone frequencies, for a Restricted Amateur class for VHG/UHF operation, and for changes in the regulations dealing with mobile logging and repeater licencing and operation are before the Department of Communications and action is expected. However, due to changes taking place in the DOC structure and new procedures, such action may be delayed until later in the current year.

The Annual meeting of the national Federation will take place in Ottawa on Saturday 22 June 1974. Further details and agenda will be publicised and forwarded to all concerned.

Results obtained to date on the request for an executive opinion by the provincial societies was discussed. It appears that several provincial societies was discussed. It appears that several provincial societies have misinterpreted this request and trust that this will be straightened out at the Annual meeting.

Request for CARF's participation in the Calgary Centennial Amateur Radio Convention, 1 - 4 August 1975. The executive voted that the Federation play an active role in this convention with details to be discussed at the 1974 Annual meeting.

Several members of the Board of Directors will have their term of office expire on 1 September 1974 with an election necessary to fill these vacancies. This election is held during the Annual meeting by the provincial Delegate.

The incumbents are: Western Director, S.T. Chisholm, VE4 AI; Ontario Director, T.B.J. Atkins, VE3 CDM; Atlantic Director, C. Humber, VE1 HD; and D. Burrill, VE3 CDC. Tom Atkins has signified that he will not be able to continue and the Radio Society of Ontario have nominated Lorne Doreen, VE3 SZ. The Secretary requested that all provincial societies send in their nominations without delay.

The developing situation in British Columbia with the present executive of the BCARA was discussed. Any decisions and/or activity by the Federation will be left until word has been received of the results obtained at their meeting held on 6 April in Kelowna, B.C.

The contents of a recent CRAG Bulletin had elicited expression of concern by the Cdn Dir ARRL. As this bulletin had not been published by the Federation, his remarks had been forwarded to the Secretary CRAG. However further correspondence received by the Secretary CARF indicates that the Federation is charged with the responsibility and prejudice. The Secretary CARF was directed to forward to the Cdn Dir ARRL a full run-down of the administration of CRAG - a joint enterprise of CARF and ARRL - and our concern that his misinterpretation may affect future relations.

Charles Grove, VE3 CT, Hon Legal Counsel brought to the attention of the executive the outstanding public service work of Charles Harris, VE6 HM who is now 88 years old and confined to hospital. The executive unanimously voted to confer Honourary Associate Membership on VE6 HM and to institute and special national award for work of this type. One suggestion was to name the award "The Unsung Heroes of Canadian Amateur Radio Award".

The meeting ended at 5:30 PM after four hours of deliberation, discussion and decision.

A good use for Rosin Solder Paste is as a lubricant for Machine Screw taps and dies. Just dip the tap or screw into the compound - it really works.

Beaver Valley, BC, Clicks

**NOTE:** GUYANA and NICARAGUA are now included in the list of Third Party Traffic agreements on the facing page.

## OPTIMUM TIMES (GMT) FOR LOCATION NOTED TO WORK MIDDLE EAST

Note: 1-No 15 meter operation forecast between Canada and the Middle East.

2-Optimum times listed should be suitable for passing traffic.

15 June to 15 July 1974

LOCATION	20M(GMT)	OPTIMUM TIMES (GMT)
St. Johns	0830-2400	0930-2230
Halifax	0930-0130	1030-2230
Fredericton	0930-2400	1030-2230
Quebec	0930-2400	1130-2200
Montreal	1030-2400	1100-2200
Ottawa	1030-2400	1100-2200
Winnipeg	1230-2400	1230-1630
Calgary	1430-2330	1500
Edmonton	1430-2330	-----
Vancouver	1500-2330	1500-1530

**CANADIAN QSL CARDS ARE AVAILABLE FROM CARF**

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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.

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**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.



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amateur**

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*It relays events, proposals and decisions from major organizations across the country.*

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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 Possesions), 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**

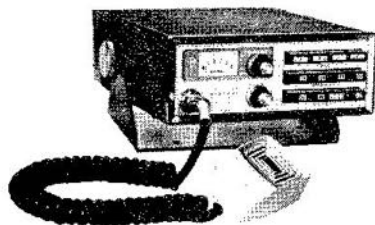
New Time: CARTG RTTY Bulletins  
Sundays: Frequency-----14090  
Time-----1800 GMT  
NCS-----VE7LL

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.

\* \* \* \* \*

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**HW-202 SPECIFICATIONS—RECEIVER—Sensitivity:** 2 dB SINAD\* (or 15 dB of quieting) at .5 $\mu$ v or less. **Squelch threshold:** 3 $\mu$ v or less. **Audio output:** 2 W at less than 10% total harmonic distortion (THD). **Operating frequency stability:** Better than  $\pm$ .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  $\pm$  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. **Spurious output:** Below -45 dB from carrier. **Stability:** Better than  $\pm$ .0015%. **Oscillator frequency:** 6 MHz, approximately. **Multiplier factor:** X 24. **Modulation:** Phase, adjustable 0-7.5 kHz, with instantaneous limiting. **Duty cycle:** 100% with  $\infty$  VSWR. **High VSWR shutdown:** None. **GENERAL—Speaker impedance:** 4 ohms. **Operating frequency range:** 143.9 to 148.3 MHz. **Current consumption:** Receiver (squelched): Less than 200 mA. **Transmitter:** Less than 2.2 amperes. **Operating temperature range:** -10 $^{\circ}$  to 122 $^{\circ}$  F (-30 $^{\circ}$  to + 50 $^{\circ}$  C). **Operating voltage range:** 12.6 to 18.0 VDC (13.8 VDC nominal). **Dimensions:** 2 $\frac{3}{4}$ " H x 8 $\frac{1}{4}$ " W x 9 $\frac{1}{8}$ " D.

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

## New Heathkit 2-meter Transceiver ONLY \$237.<sup>50</sup>

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.

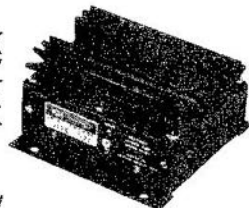
Kit HW-202, 11 lbs., mailable .....	237.50*
Kit HWA-202-2, Tone Burst Encoder, 1 lb. ....	32.95*
Kit HWA-202-1, AC Power Supply, 7 lbs. ....	39.95*
Kit HWA-202-3, Mobile 2-Meter Antenna, 2 lbs. .	29.95*
Kit HWA-202-4, Fixed Station 2-Meter Antenna, 4 lbs. ....	25.95*

### ... 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.

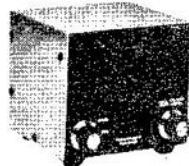
Kit HA-202, 4 lbs. .... 89.95\*

**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 (rt 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 $^{\circ}$  F. to +140 $^{\circ}$  F. **Dimensions:** 3" H x 4 $\frac{1}{4}$ " W x 5 $\frac{1}{2}$ " D.



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



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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 $\frac{1}{2}$ " H and 6 $\frac{1}{2}$ " D, assembled as one unit. \*Using a 50  $\Omega$  noninductive load.

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