



# The canadian amateur

Volume Three

May 1975

Number Five

## CARF moves to individual membership

Your national Federation was formed to represent the provincial member-societies on the national level and for seven years has functioned solely in this manner.

In early 1973, the DOC circulated a Referendum to every Amateur asking what organization the individual wanted to see as his representative to the Department. The Federation noted that over one half desired a distinctly Canadian organization of one type or another. CARF received many letters from individuals stating that they would support the Federation as the national society when it changed to individual, voting membership.

This led to a formal proposal from a member-society that CARF change to this form of membership as soon as practicable. This change has been approved in principle by the Board of Directors. The Legal Counsel, Charles Grove, VE3CT, has proposed a new by-law for consideration by the member-societies who presently hold the voting power in the Federation. The most significant change is that the seven-member Board of Directors will include five Area Directors (Atlantic, Quebec, Ontario, Mid-Western, and Pacific) nominated and elected by the individual Amateur members in the designated area. The other two Directors will be nominated and elected by the member-societies.

Ratification of the new by-law will be sought at the 1975 Annual Meeting of the national Federation. The ratified by-law would then be forwarded to the Minister of Corporate Affairs for approval and, when obtained, the mechanics of nomination and election of the Board will commence.

The function of a national Amateur society is to serve the membership, to supply services, and to represent the membership on the area, national and international levels. It must strive to unify the diverse special interest groups in a spirit of mutual support and cooperation.

The Canadian Amateur Radio Federation Inc. has the

finances, the qualifications and the organization necessary to function as the Canadian national Amateur Society. Through its various classes of membership, the Federation represents the largest organized number of Amateurs in Canada. It now needs the individual support of the majority of Canadian Amateurs so that there will be no question of its mandate to be the "NATIONAL VOICE OF THE CANADIAN AMATEUR"

Amateur radio is a hobby that is particularly vulnerable to pressures and interference from outside sources. In reading over this special issue, the Amateur can see what a developed national organization can do. What can you do for it, while at the same time doing something to protect and advance your hobby?

The answer is the support of the national Federation with action. This you can do directly for five dollars per year ... a minimal amount with maximum benefit to Canadian Amateur radio.

Your membership brings you a year's subscription to The Canadian Amateur and the expanded services of the CARF National QSL Bureau.

Send a cheque or money order to CARF Inc., Box 356, Kingston, Ontario, K7L 4W2.

### CARF ON ADVISORY COMMITTEE

Art Stark, VE3ZS, CARF Regulations Committee Chairman, has been appointed to the Canadian Radio Technical Planning Board's committee on electromagnetic interference.

Art's long and varied career in DOC and as an Amateur will ensure a constructive input from the Amateur world.

CRTPB is an advisory body to the Department of Communications, made up of radio users and manufacturers.

# the canadian amateur



Vol. 3 May 1975 No. 5

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## CANADIAN AMATEUR RADIO FEDERATION INC. BOARD OF DIRECTORS

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## MEMBER SOCIETIES

- Society of Newfoundland Radio Amateurs
- 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
- British Columbia Amateur Radio Association

## From the Front Office

Your national Federation was created in 1967 to function as the national representative of the provincial societies, and as a clearing house for information on their activities.

Since inception, CARF has performed these functions with strong, effective representation to governmental authorities on behalf of the Amateurs. Direct contact with the DOC has been a feature of the Federation's activities.

The Federation started by supplying a monthly Newsletter to the societies. In 1972 the decision was made to revamp the Newsletter into a national publication and make this available to individual Associate members. **The Canadian Amateur** commenced operations in January 1973 with an initial circulation of 320 and this circulation has quadrupled in its two years of existence.

In early 1973 the DOC circulated a referendum to all the Amateurs of Canada asking, among other items, which organization was recognized in dealing with the Department. About half wanted CARF representation. Many Amateurs also forwarded the request that CARF change to some form of individual membership control. In recent months the Radio Society of Ontario, Inc., passed a formal resolution recommending that the Federation make the change to direct individual voting membership.

This formal proposal has been considered, and approved, by the Board of Directors. The Hon. Legal Counsel, Charles Grove, VE3CT, has presented a draft of the necessary amendments to the corporate By-Law of the Federation and this has been forwarded to the provincial societies for consideration prior to the Annual Meeting in May 1975, when a formal vote will be taken. It is hoped that the change will receive unanimous approval by the voting member-societies, enabling the proposal to come into effect by January 1, 1976.

The financial position of the Federation will enable the institution of several services and activities of benefit to the Amateurs of Canada and their organizations. The aim of the Federation is to expand into an active, Canadian, national organization with elected officials in every area of our country working on our behalf.

While the corporate changes are being effected, membership is available for only five dollars. For this amount you will be entitled to a one year subscription to **The Canadian Amateur**, the use of the expanded QSL services, and automatic conversion to full membership, nominating and electing privileges when By-Law No. 2 is approved by the Minister of Corporate Affairs.


Forward your membership application and dues (\$5.00 for each year) to CARF, Box 356, Kingston, Ontario K7L 4W2 together with any comments you may wish to make on activities, services and policies of your national Federation.

## ATLANTIC VHF USER DIRECTORY

The Nova Scotia VHF Association has just published an attractively bound directory of two metre users in the Atlantic provinces. This handy-sized booklet also lists Atlantic province repeaters. The Users are listed by call, with their name, address and telephone numbers.

Send \$1.00 to Curt Bowles, VE1AYE, Apt. 3, 52 Lakefront Road, Dartmouth, Nova Scotia.

# SHORT-CIRCUITS




"THOUGHT YOU SAID THEY ONLY EXISTED IN FAIRY TALES!"

## MEMBERSHIP TRANSFER

Transfer of all licenced Amateur Associate members of the national Federation to Full member status will be automatic when the proposed By-Law No. 2 is ratified and approved. All licenced Amateurs should check their address label and ensure that the call-sign is given; if not, please advise Box 356.

## VE3FXZ/VE8 ON THE AIR

Capt. Ed Hartlin, VE3FXZ/VE8, will be on-the-air from the vicinity of Mount Logan Yukon Territory - Canada's highest mountain, during the month of July 1975. The station forms part of the High Altitude Physiology Studies of the Arctic Institute of North America and will be active, using SSB and CW, on 20, 40 and 80 metres. A special QSL card will be sent for all QSOs.

## TOWER TROUBLES?

There has been a lot of news lately in the US amateur news media about towers being involved in legal and jurisdictional battles and some of this has been reported at length in some Canadian club bulletins.

Don't be misled by what you read about these US legal tangles.

In Canada, radio station towers, including those of amateur stations, are under the jurisdiction of the federal Department of Communications. If you are being hassled over your station tower, drop a line to CARF, Box 356, Kingston, Ont. K7L 4W2, for references and interpretations in such matters by DOC.

## CARF NATIONAL QSL BUREAU EXPANDS

Box 66, Islington, Ont. M9A 4X1 is becoming famous inside Canada as well as around the world. It is a central mailing address for world bureaus to use in Canada when cards are destined for Amateurs in this country. Incoming cards have been averaging around 12,000 per month. This bureau is in its third year of support to the ARRL district bureaus. Here the incoming cards are sorted and forwarded to them for local distribution.

Box 66 supplements but does not replace ARRL QSL

services. It now expands to provide service that is not available through the ARRL local bureau system and also continues its support role to that system.

The expanded service of Box 66 now includes free forwarding of DX cards to world bureaus (except the USA) for CARF members; it is a clearing house for the exchange of QSL cards inside Canada for Canadian Amateurs who are members of CARF; it is a central address for the filing of SASE by CARF members.

Procedures to follow in using the expanded facilities:

Forward outgoing DX or Canadian exchange cards in bulk to Box 66. Sort DX cards alphabetically and Canadian cards by district number. Put your membership number on the outside of the envelope. If you have applied for membership, but do not have a number yet, use APP.

Your membership number is on the mailing label of The Canadian Amateur.

When filing SASE, put your membership number or APP on the envelopes.

Primary purpose of SASE will be to distribute Canadian cards. If there are DX cards in the bureau, they will be included in your envelope. The DXer is reminded to also keep SASE at the local ARRL bureau, as incoming DX cards have two routes open into Canada, direct to district bureaus or via Box 66. This bureau will check all incoming DX batches against SASE here prior to forwarding a bulk shipment to the districts.

The expanded CARF National QSL Bureau is being jointly operated for CARF by CLARA, The Ontario Trilliums and the Wheel Chair Amateur Radio Club. The National Manager is Jean Evans, VE3DGG.

## Amateur Crystals

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Canadian Repeater Advisory Group

VE3CDC

**CANADIAN REPEATER ADVISORY GROUP**

The CRAG column keeps VHF and UHF repeater fans aware of what is going on through this monthly feature written by VE3CDC, Doug Burrill.

Bulletins are issued as necessary to provincial society frequency committees and other repeater councils from coast to coast. Changes to repeater listings and significant events are reported in this column.

The repeater listings for Canada shown below were compiled by VE3CDC and programmed by CARF computer advisor Keith Ryan for CRAG and published here as a service of the Canadian Amateur Radio Federation. CRAG was proposed by your Federation late in 1973 and has been instrumental in having a Canadian channel plan adopted across Canada and has encouraged the formation of repeater councils. In the tradition of our relations between our regulatory body and the amateur fraternity, Canadian repeater groups have voluntarily set up the machinery for agreement on frequencies, and the solution of interference problems rather than have the repeater operations legislated by the DOC.

# Repeater Listings

\*\*\*\*\*  
\* OUFBC \*

LOCATION	CALL	INPUT	OUTPUT
HULL/OTTAWA	VE2CRA	146.34	146.94
HULL/OTTAWA	VE2CRA	443.30	448.30
JOLIETTE	VE2AMM	146.43	147.03
LA TUQUE	VE2EH	146.34	146.94
NORANDA/ROUYN	VE2	146.16	146.76
RIMOUSKI	VE2WM	146.34	146.94
MT. CHAMPLAIN			
RIVER DU LOUP	VE2NY	146.46	147.06
MONT BLUE			
SHERBROOKE	VE2SS	146.52	147.50
SHERBROOKE	VE2TA	146.19	146.79
MT. ORFORD			
SEVEN ISLANDS	VE2CSI	146.34	146.94
STE. JOVITE	6 VE2MT	146.13	146.73
MT. TREMBLANTE			
THREE RIVERS	VE2AT	146.07	146.67
MT. CARMEL			
THREE RIVERS	VE2CRT	146.46	146.94
MONTREAL AREA			
MONTREAL CITY	4 VE2ECH	146.04	146.64
MONTREAL CITY	VE2MRE	147.72	147.12
LAUREL/MORIN HTS	VE2DN	146.16	146.76
LAVAL	VE2VS	146.25	146.85
MT. RIGAUD	3 VE2RM	146.40	147.00
MT. RIGAUD	VE2RM	444.00	449.00
MT. ROYAL	VE2PY	146.28	146.88
MT. ST. BRUNO	5 VE2XW	146.70	147.60
		224.50	
SHAWBRIDGE	VE2BG	146.46	147.06
QUEBEC CITY AREA			
QUEBEC CITY	VE2OB	146.28	146.88
QUEBEC CITY	VE2IN	147.42	146.54
MT. BELAIR	VE2CM	146.34	146.94
MT. BUCKLAND	VE2ASU	146.70	147.60
MT. STE. ANNE	VE2UX	146.22	146.82
ORLEANS ISLAND	VE2VD	146.16	146.76
SAGUENAY ARFA			
CHICOUTIMI	VE2ES	146.28	146.88

MT. STE. MARGUERITE			
CHICOUTIMI	A VE2IU	146.16	146.76
MT. STE. CLAIRE			
JONQUIERE	VE2VP	146.22	146.82
LAC ST. JEAN	VE2SP	146.34	146.94
MT. ARCHAMBAULT			
PARK DES LAURENTIDES	VE2TG	146.46	147.06
	A AUTOPATCH		
3 O/P CHANGING FROM	147.18	JUNE 1/75	
4 RTTY/FAX			
5 CHANGING TO	146.10/146.70	SUMMER 75	
6 JULY 75			
*****			
*****			
* ONTARIO *			
*****			
*****			
LOCATION	CALL	INPUT	OUTPUT
BARRIE	VE3BOR	146.25	146.85
BELLEVILLE	1 VE3KBR	146.46	147.06
BRACEBRIDGE	VE3MRT	146.28	146.88
BRANTFORD	VE3TCR	147.75	147.15
BRAMPTON	VE3PHZ	146.28	146.88
BROCKVILLE	VE3WXR	146.37	146.97
BURLINGTON	VE3RSB	147.81	147.21
CHATHAM	VE3KCR	147.72	147.12
CORNWALL	* VE3SVC	147.78	147.18
DEEP RIVER	2 VE3NPR	146.34	146.94
GODFRICH	VE3GOD	146.43	147.03
HAMILTON	VE3DRW	146.16	146.76
KINGSTON	VE3KER	146.34	146.94
KITCHENER	VE3KSR	146.37	146.97
LONDON	VE3LAC	146.46	147.06
LONDON	VE3NDT	146.34	146.94
NEW LISKEARD/COBALT	VE3TAR	146.34	146.94
		146.46	
NORTH BAY	VE3NFM	146.34	146.94
ORILLIA	VE3LSR	146.25	146.85
OSHAWA	VE3OSH	147.72	147.12
		146.40	
OTTAWA/HULL	VE2CRA	146.34	146.94
OTTAWA/HULL	VE2CRA	443.30	448.30
OTTAWA	3 VE3OCR	146.25	146.85
OTTAWA	VE3ORA	146.28	146.88
OWEN SOUND	VE3OSR	146.34	146.94
PETERBOROUGH	VE3KRA	222.34	222.94
PETERBOROUGH	VE3PBO	146.34	146.94
PORT COLBORNE	VE3WCR	147.90	147.30
RAMORE	VE3TR	146.46	147.06
RENFREW	VE3STP	146.46	147.06
RIVERSIDE HTS	VE3SVR	146.16	146.76
ST. CATHERINES	VE3NRS	147.84	147.24
SARNIA	VE3SAR	146.34	146.94
SAULT STE. MARIE	VE3SJI	146.28	146.88
SAULT STE. MARIE	VE3SSM	146.34	146.94
		146.46	
SUDBURY	VE3SRS	146.16	146.76
TIMMINS	VE3TIS	146.34	146.94
THUNDER BAY	VE3YQT	146.46	147.06
TORONTO AREA	VE3MOT	147.78	147.18
		146.58	
TORONTO AREA	VE3PRT	448.30	443.30
TORONTO AREA	VE3RPT	52.760	52.525
TORONTO AREA	A VE3RPT	146.46	147.06
TORONTO AREA	VE3TDX	147.93	147.33
TORONTO AREA	VE3TFM	147.87	147.27
TORONTO AREA	VE3TFM	222.38	222.98
TORONTO AREA	VE3TOR	146.34	146.94
TORONTO AREA	VE3UKW	449.40	444.00
WINDSOR	VE3III	146.46	147.06
		146.28	
WINDSOR	VE3WIN	146.40	147.00
WAWA	VE3WAW	146.34	146.94
	A AUTOPATCH		
TEMPORARY ON	146.16 - 146.76	UNTIL	
VE2RM DROFS	147.18	OUTPUT	



* 1 CHANGING TO 146.40/147.00	*
* 2 CHANGING TO 146.16/146.76	*
* 3 OFF AIR UNTIL FURTHER NOTICE	*
*****	
* ALBERTA *	
*****	
LOCATION	CALL INPUT OUTPUT
CALGARY	VE6AUY 146.46 147.06
CALGARY	VE6RPT 146.34 146.94
COLD LAKE	VE60C 146.46 147.06
EDMONTON	VE6H0 146.46 147.06
LETHBRIDGE	VE6CAM 146.28 146.88
MEDICINE HAT	VE6HAT 146.46 147.06
RED DEER	VE6QE 146.46 147.06
ROCKY MTN. HSE	VE6VHF 146.28 146.88
WETASKIWIN	VE6SS 146.34 146.94
* PROPOSED/TEMP. LOCATICN EDMONTON	*
*****	
* BRITISH COLUMBIA *	
*****	
LOCATION	CALL INPUT OUTPUT
CHILLIWACK	VE7ELK 146.46 147.00
KAMLOOPS	VE7KAR 146.34 146.94
KIMBERLEY	VE7CAP 146.34 146.94
MASSETT	VE7DPZ 146.34 146.94
NANAIMO	VE7ISC 146.04 146.64
NELSON	VE78TU 146.46 147.33
PENTICTON	VE70KN 146.34 146.94
PRINCE GEORGE	VE7AFG 146.34 146.94
QUSNEL	VE7 146.46 147.00
SALMON ARM	VE7APH 146.46 147.00
TRAIL	VE7CAQ 146.34 146.94
VANCOUVER AREA	VE7ESR 147.81 147.21
VANCOUVER AREA	VE7RAG 147.63 147.03
VANCOUVER AREA	A VE7RPT 146.34 146.94
VANCOUVER AREA	VE7URG 449.00 444.00
VANCOUVER AREA	VE7VAN 147.72 147.12
VICTORIA	VE7VIC 146.25 146.85
WILLIAMS LAKE	VE7DSO 146.34 146.94
A AUTOPATCH	
*****	
* PRINCE EDWARD ISLAND *	
*****	
LOCATION	CALL INPUT OUTPUT
CHARLOTTETOWN	VE1AIN 52.525 147.00
CHARLOTTETOWN	VE1ATN 146.10 55.525
CHARLOTTETOWN	VE1HI 146.34 146.94
*****	
* MANITCBA *	
*****	
LOCATION	CALL INPUT OUTPUT
BRANDON	VE4BDN 146.34 146.94
SHILO	* VE4 146.25 146.85
WINNIPEG	VE4XK 146.46 147.06
* PROPOSED *	
*****	
* NEWFOUNDLAND *	
*****	
LOCATION	CALL INPUT OUTPUT
CORNERBROOK	VO1KI 146.46 146.94
LABADOR CITY/WABUSH	VC2AD 146.46 146.94
146.34	
ST. JOHNS	VO1GT 146.46 146.94
*****	
* NOVA SCCTIA *	
*****	
LOCAT ION	CALL INPUT OUTPUT
BRIDGETOWN	VE1B0 146.46 147.06
GORF	VE1LHR 146.04 146.64
HALIFAX	VE1CBC 146.34 146.94
LIVERPOOL	VE1QW 146.46 147.06
MT. BLOMIDON	VE1AEH 146.58 147.18
NEW GLASGCH	VE1HR 146.16 146.76
SYDNEY	VE1JD 146.34 146.94

* TRURO	VE1XK 146.46 147.06
* YARMOUTH	VE1GM 146.34 146.94
*****	
* SASKATCHEWAN *	
*****	
LOCATION	CALL INPUT OUTPUT
JANSEN/LAST MTN.	* VE5 146.16 146.76
MELVILLE	* VE5 146.28 146.88
MOOSE JAW	VE5CI 146.34 146.94
PRINCE ALBERT	* VE5 146.46 147.06
REGINA	VE5SS 146.46 147.33
SASKATOON	VE5SK 146.34 146.94
WEYBURN/CARLYLE	* VE5 146.22 146.82
* PROPOSED	
*****	
* NEW BRUNSWICK *	
*****	
LOCATION	CALL INPUT OUTPUT
BATHURST-TEMP. CALL	VE1PL 146.22 146.82
FREDERICTON	A VE1GT 146.34 146.94
FREDERICTON	VE1PD 146.16 146.76
CRABBE MTN.	
KINTORE MTN PERTH	VE1KMT 146.46 147.06
MONCTON	VE1CQ 146.13 146.73
MONCTON	A VE1RPT 146.28 146.88
SCOTCH MTN/SUSSEX	VE1SMT 146.01 146.61
SAINT JOHN	VE1KI 146.22 146.82
ST. STEPHEN	* VE1IE 146.28 146.88
* A AUTOPATCH * PROPOSED	
*****	

**BRaille REGULATIONS HANDBOOK**

The CARF Radio Regulations Handbook is being published in Braille. Write to the Canadian National Institute for the Blind, 1181 Guy Street, Montreal for details.



Otto H. Meginbir, VE6OH  
1170 Bassett Crescent N.W.  
Medicine Hat, Alberta T1A 6Z9

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10AW	- keyer only, wired	39.95
10AK	- keyer, kit form	32.95
200-3W	- sidetone, wired	11.95
200-3K	- sidetone, kit form	8.95



PADDLE FOR 10A

11AW	- paddle, wired	17.75
11AK	- paddle, kit form	13.75



DIGITAL DIAL MODEL 22

22W	- dial, wired	179.95
22K	- dial, kit form	219.95
- accurate, 4 digit readout,		
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- One wire hookup		



GM TRANSMITTER MODEL 50

50W	- Transmitter, wired	70.95
50K	- Transmitter, kit form	59.95
- options, keyer and sidetone to build in		
- 15 watts input, transistorized		
- three bands, 160, 80, 40 meters		
- power supply built in		



SPEECH PROCESSOR MODEL 60

60W	- processor, wired	39.95
60K	- processor, kit form	32.95

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# canadian capsule comment

## CANADIAN CONVENTION NOTICES CALGARY CENTENNIAL

### AMATEUR RADIO CONVENTION

This convention will be sponsored by the Calgary Amateur Radio Association on August 1, 2 and 3. Officers of your national Canadian Amateur Radio Federation will be present along with officials from the American Radio Relay League. The Convention will be held in the Calgary Inn. Accommodation can also be provided for camping or motels if you prefer.

Calgary Amateurs can use the special prefix CY for 1975. Club stations are CY6AO and CY6NQ.

For further information write to '75 Convention, Box 592, Calgary, Alberta, T2P 2J2.

### BURLINGTON

The famous annual Chicken Junction picnic has been expanded this year and become a Hamfest. The Burlington Amateur Radio Club will host this event on July 11, 12 and 13.

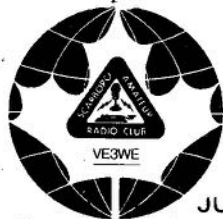
There will be demonstrations of amateur television and a huge flea market and commercial exhibits. Excellent camping facilities are available. For details write "The Ontario Hamfest", Box 836, Burlington.

### ATLANTIC AMATEUR RADIO CONVENTION

Sponsored by the Moncton Amateur Radio Club, this convention will be held in the Hotel Beausejour in Moncton from August 29, 30, 31 and September 1. For information write to the Moncton Amateur Radio Club, Box 115, Moncton N.B.

### ONTARIO

The Radio Society of Ontario Annual Convention will be hosted this year by the Ottawa Amateur Radio Club. It will be held at the Skyline Hotel, Ottawa, commencing Friday afternoon October 3 through Sunday, October 5. Programs scheduled for Friday evening, all day Saturday and Sunday a.m. Write to Box 8873, Ottawa for details.



## THE 1977 ARRL NATIONAL CONVENTION TORONTO, ONT.

JUNE 3, 4 and 5, 1977

Plans are now well under way for the 1977 ARRL National Convention to be held at the Four Seasons Sheraton Hotel. The Convention is being hosted by the Scarborough Amateur Radio Club, VE3WE. The theme for the Convention is "Communications between Nations" and the Convention Committee hope to involve amateurs from as many nations as possible.

1977 will be a year of anniversaries for Amateur Radio in Canada. For example RSO 15 years, CARF 10 years, CLARA 10 years and others. We hope that your Club and every Canadian Amateur will join with us in taking an active part in the National Convention. All Convention activities are now being planned and if you are interested in taking part in the Convention or require space reservations, please write to: 1977 National Convention Committee, Box 1011, Station C, Scarborough, Ontario, M1H 1A2

## ALL VE/VO ON RTTY

### Rules:

Contacts must be two-way RTTY only, any date.

Award will be a Certificate, numbering from ONE.

There is no charge for the award, but the necessary QSL cards are to accompany the request. These will be returned.

An Official of a RTTY Group or Society may inspect and send in a SIGNED list of such QSL cards, including all pertinent information (in place of sending the actual QSL's).

Send all requests to: The Canadian Amateur Radio Teletype Group, VE3RTT, 85 Fifeshire Road, Willowdale, Ontario, M2L 2G9.

## BRITISH COLUMBIA

The Maple Ridge ARC is holding its second annual Hamfest on July 11-12-13 at the Maple Ridge Fairgrounds. The town is about 30 miles east of Vancouver with a camp-site available. Technical talks, commercial exhibits and all the usual hamfest fixings. For details write to the Maple Ridge Amateur Radio Club.

## THE CANADIAN DX ASSOCIATION

Now about 10 years old, the Canadian DX Association serves about 400 Amateurs across Canada and around the world. The Association publishes a monthly bulletin, Long Skip, and provides a number of other services for its members.

Membership now includes Canada's top DXers from coast to coast. Almost every area is represented and even in these days of the "DX doldrums", the membership continues to grow.

Long Skip, published monthly for members, includes a round-up of current and upcoming DX information. It also features editorial comment and news on Oscar, Canadian DXer's standings and operating information.

CANAD-X provides an outgoing QSL bureau for members. Cards destined for DX stations (excluding those in North America and QSL managers) are sorted and shipped from three bureaus on a regular basis. These bureaus are located in Calgary, Montreal and Toronto. The cost of mailing the cards from the bureaus is included in the annual membership fee.

CANAD-X has sponsored a number of DXpeditions and has donated equipment to DXpeditioners. The association also provides QSL cards for members who wish to purchase them.

Membership is \$6.00 per year and all correspondence should be sent to Canadian DX Association, Box 717, Station Q, Toronto, Ont. M4T 2N7.

## HANDI-HINTS FOR THE HAM SHACK UNCLE RAY VE3UR

Over the past years, I have seen and used many ways to hold that elusive key from moving around on the operating table. One method is to drill a hole through the key base and bench and bolt it down. This sure holds it tight, but means an unsightly hole if you wish to place the key in another location. Other ways are to add weight to the key base, building a frame around it, or using double sided adhesive tape.

# The New SINCLAIR Model 6051 VHF Base Station Antenna

- Commercial construction — Fiberglass — Will outlast any Ham-type Antenna.
- Omnidirectional, 6dB gain over ground plane, 3dB gain over half wave (commercial spec)
- 3MHz bandwidth — below 1.5 to SWR — centred at 146.5MHz.
- Two full half waves phased — 10 foot length.
- Proven performance, preferred by commercial services — manufactured in Canada by Sinclair Radio Laboratories.

**\$119.00**

f.o.b. Vancouver, complete with mounting clamps

**DOLLARD ELECTRONICS LTD.**  
3891 Oak Street, Vancouver, B.C. V6H 2M6  
phone 733-9819 (604)

126"

## Top Quality **CRYSTALS** New Large Stocks

For ICOM IC-20/21/22  
OR  
Kenwood TR-2200 (Drake TR-22)

T R A N S M I T					
146.04	146.22	146.40	146.88	147.18	147.63
146.07	146.25	146.46	146.94	147.33	147.72
146.10	146.28	146.52	147.00	147.36	147.78
146.13	146.31	146.58	147.06	147.54	147.81
146.16	146.34	146.70	147.12	147.60	147.90
146.19	146.37	146.76			

R E C E I V E					
146.40	146.70	146.85	147.00	147.18	147.50
146.52	146.73	146.88	147.03	147.21	147.54
146.58	146.76	146.91	147.06	147.33	147.60
146.64	146.79	146.94	147.12	147.36	147.90
146.67	146.82	146.97			

**Shipped postpaid**  
**\$5.00 each**

Available through all ICOM dealers — see listing in full page ICOM advertisement in this issue.

# **KENWOOD** 2-meter FM Transceiver



**TR-7200G**  
**\$359.00**

- Superior Selectivity
- Completely Solid State

**General:** Frequency Coverage: 146-148MHz; 22 Channels: 2 supplied (.52/.52 and .34/.94); Completely Solid State; Current Drain: Rcv 0.4A, Xmit 2.7A (Hi power) or 1.2A (Lo power); Voltage Required: 13.8VDC; Antenna Impedance: 50 ohms; Frequency Adjusting Trimmers: On every crystal; VFO Inputs on rear; Size: 7-1/16"W x 2-1/8"H x 9-7/16"D (18 x 6 x 24 cm); Weight: 5-1/2 lbs. (2.5 kg).

**Transmitter:** RF Output Power: 10W min. (Hi power) or 1W (Lo power) at 13.8VDC; Frequency Deviation: Adjustable to  $\pm 15$ kHz max, factory set to  $\pm 6.5$ kHz; Automatic VSWR Protection.

**Receiver:** Crystal-Controlled, Double Conversion Superhet; Sensitivity: Less than .35uV or 20dB quieting; Selectivity: 20kHz at  $-6$ dB ( $\pm 30$  kHz and adjacent channel rejection at least 80dB down); Audio Output: 1W; Audio Output Impedance: 8 ohms; Modulation Acceptance:  $\pm 7$ kHz; Image Rejection:  $-65$ dB; Intermodulation and Other Spurious Responses: at least 70dB down.

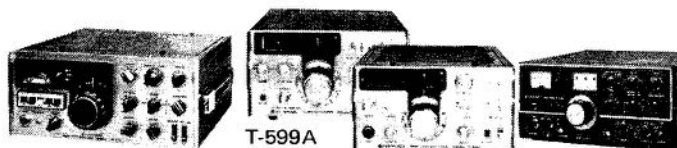
Price includes dynamic microphone, DC power cord, mobile mount and desk mount brackets, auxiliary connector, and external speaker plug.



TV-502

### Other important Kenwood communications products

Within a few short years, these products have established new levels of communication in amateur radio. Combined with the new TV-502 2 meter transverter, the TS-520 or T-599A provide "Oscar" capability on 2 meter SSB or CW and give the exciting new dimension of 2 meter DX.



TS-900

R-599A

R-599A

TS-520

DISTRIBUTED IN CANADA BY Dollard Electronics Ltd., 3891 Oak Street, Vancouver, B.C. phone 733-9819 (604). Dealers: C.M. Peterson Co. Ltd., 220 Adelaide Street North, London, Ontario phone 434-3204; Payette Radio Limited, 730 St. Jacques West, Montreal, P.Q. phone 878-4771.



The best way I have found to date, is use of a commercial product called 'Holdit'. It can be purchased in most stationary or office supply stores. It is an oilless plastic, like putty, and can be used over and over again. It can also be used to hold QSL cards on paper mounting, and when removed, does not leave a stain on either the card or the paper.

Another good use for this product, is aid with the insertion of an awkwardly placed screw. Knead a little of it on the screwhead and stick the screw driver into the head slot. You can also assemble hard to control washers and nuts by using it on the end of your screw driver.

Try it; you will be amazed how helpful it can be around the shack. I feel there are many hints we can pick up from each other. Please send yours in, so all of us can benefit from them.

### VE1 NEWS

#### THE NOVA SCOTIA AMATEUR ELECTRONIC POLLUTION

With the daily news of problems in our environment, it's time to remember that there are similar problems in electronics. Perhaps pollution isn't the right word but it's better than "electromagnetic compatibility in the intended operational environment".

The problems are daily ones...the truck going by that put streaks in your TV picture; the guy shaving in the next apartment that makes a frying noise right on top of that rare DX-pedition signal; the kitchen appliance that wipes out the short wave stations you are listening to; the hi-fi set that goes berserk in the presence of a fat RF signal; and the Mercury Vapor street lights that, until they warm up, put out a better signal than a pair of 813's. A prime example is the TV line oscillator radiations so clearly audible on the AM broadcast band. What you hear is close to the one-thousandth harmonic. Why is it tolerated?

One US expert claimed recently that some urban areas differ by as much as 40 db from quiet rural areas. We have no reason to believe that it is much better in Canada even though there is a piece in the Radio Act making it an offence to offer for sale equipment which creates interference to broadcast services. If in fact this requirement is recognized it must be in a very liberal manner.

There is no quick solution to the kind of compatibility that is needed but a recognition of some angles of the problem is needed. How do you catch a bad auto ignition and when you have, what standards do you apply? But how about our part? What about the ninny that won't use a dummy load, and insists on putting a nice fat carrier on the band, and, dicidedly, on top of a QSO or Net frequency; the frustrated Matador that clutters up 20 meters with 10 minutes of - OOOOOOH-LAY...- OOOOOOH-LAY...AAAAAA-LO, and then when he has that last watt of his 2000 PEP linear going to the antenna, his SWR down to 1.1:1, he spends the next hour talking to Joe, 2 blocks down the street.

We have a long way to go to control electronic pollution, but our part can't be ignored.

#### NO AMATEUR FAULT IN HI-FI-I

In reply to a West Coast MP who was beefing about a constituent's complaint on picking up ham radio transmissions in his \$800 stereo hi-fi, the Minister of Communications told a recent session of the House of Commons Broadcasting Committee that DOC licenced

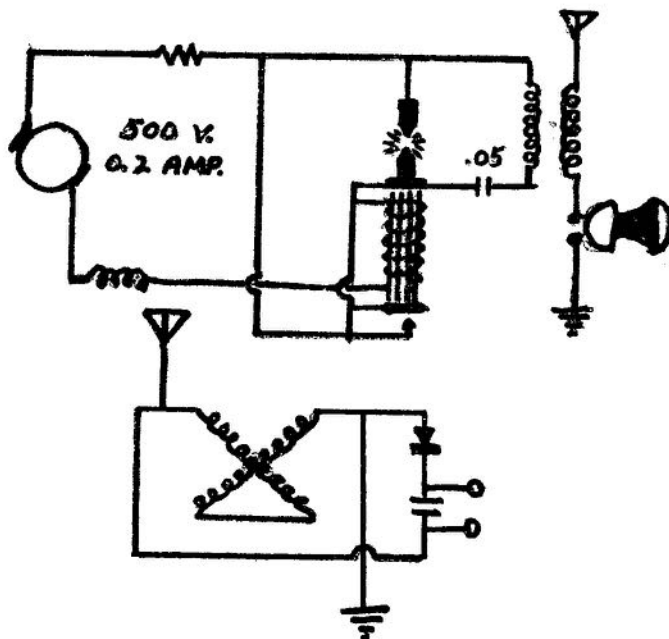
Amateur stations to transmit, but did not have any jurisdiction over the quality or design of home entertainment equipment.

He remarked that if the complainant could provoke the Amateur into using profanity then the problem could be cleared up by taking his licence away. This statement made the national press scene. It pointed out that, among other things, that proper shielding of home entertainment gear and design would eliminate the problem and that the Amateur cannot be held responsible for such interference.

### LISTOWEL AWARD

The amateur Radio operators of Listowel, Ontario, Canada and VE3LSS, the radio club of the Listowel District Secondary School, have announced a new award available to the amateur radio fraternity on a worked basis and our SWL friends on a heard basis.

During the 1975 centennial year, hams in Listowel will use the special commemorative prefix "CG3" in lieu of our usual "VE3" prefix.



### VE7 NEWS

#### BEAVER VALLEY CLICKS, VE6PR RADIO SIXTY YEARS AGO

Above is the arc type radio telephony transmitter invented in Japan and known as T.Y.K. circuit. This arc uses magnetite and brass electrodes instead of copper-carbon electrodes. The materials used for the electrodes are such that a high resistance film forms on their surfaces. This requires a temporary high voltage to start the discharge.

The diagram below is of a radio receiver which was the ultimate of the day and said to produce excellent results.

First regular broadcasts were begun in USA in May 1915, being market quotations in CW on about 400 meters. First voice broadcasts in USA were about 1920. First music broadcast in North America from records was done by W.W. Grant. First crystal controlled transmitter in western Canada was used by W.W. Grant. First 10,000 watt transmitter in Canada was built by W.W. Grant for his CFCN. He brought many firsts in remotes, longest direct telephone call of the day being from Calgary to Winnipeg (CFCN to CKY) and several inventions to his credit.

**FDK**

**NEW**

# MULTI 7

**7 CHANNELS  
FREE**

**FREE AIR DELIVERY**

**READY TO  
GO ON:**



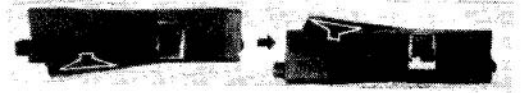
Supplied with  
146.34/146.94

plus  
six channels  
of your choice .

**24**

## CHANNELS OF

# PURE PLEASURE



**ADJUSTABLE SPEAKER  
PUT THE SOUND WHERE YOU ARE!**

SEVEN BIG REASONS IT'S CALLED THE MULTI-7

1. R.I.T. Receive Incremental Turning. Approx. + 5 KHZ.
2. 24 channels - 23 crystal positions plus one accessory V.F.O. or synthesizer.
3. 1 Watt, 10 Watt Selectable.
4. Smallest 10 Watt transceiver on the market!
5. Adjustable speaker - put the sound where you are.
6. Priority push button channel selector.
7. FDK developed AFB (Audio feed back) squelch circuit.

The FDK Multi-7 continues the super hot receiver sensitivity of its predecessor the FD-210. Conservatively rated at .39 mv for 30 db (we've tested some down to .13). The Multi-7 has some of the features that transceivers have selling for 100's of dollars more. Receiver, increment tuning to aid your 2 mtr enjoyment, and designed to accompany a Tx & Rx VFO. As the Canadian FDK representative for over 2 years, we can honestly say it is a pleasure to represent their quality products. Complete with mike, XTls, mtg brackets etc. And narrow banded.

MULTI-7 ..... **only \$ 259.**

P.S. Size only 5 x 2 x 8-3/4"

**GLENWOOD TRADING CO.  
LTD.**

278 EAST 1ST STREET  
NORTH VANCOUVER, B.C., V7L 7B5

# 4 communications superstars from ICOM



**\$299.00**



## The new IC-22A now more popular than ever

From Inoue communications, the leader in VHF, here is one of the most popular 2 meter transceivers ever designed. This new model has a completely redesigned front panel with larger channel window. Operating points such as meter, lamps and channel indicator are grouped together for ease of operation. This new, smart styling includes the famous ICOM receiver that has exceptional sensitivity and freedom from cross-modulation.

Supplied with microphone, power cord, mounting bracket and 5 channels of crystals: 146.94/146.94; 146.34/146.94; 146.52/146.52; 146.22/146.82; 146.28/146.88.



## IC-230 – 67+ channels of pure 2 meter delight

You'll never purchase a crystal for the IC-230 – its exclusive Phase Lock System has completely eliminated them. Construction is all-modular (snap-in, snap-out) and the super sensitive receiver delivers sensitivity and selectivity better than 0.4uV/20dB. Unique Inoue helical filters eliminate intermod and an E filter mounted at the front end makes copy a pleasure. Very compact size – just 2.3" x 6.1" x 9.7".



**\$559.00**



## DV-21 phase locked digital programmable VFO



- Program any frequency you want . . . any frequency split you desire.
- Scan . . . active or inactive frequencies . . . sampling or lock.
- LED Digital readout on transmit and receive.
- The ICOM IC-21A and the DV-21 . . . a truly advanced and unique package well ahead of its time.
- Can be used with IC-20, IC-21 and IC-22 with modification to these units.

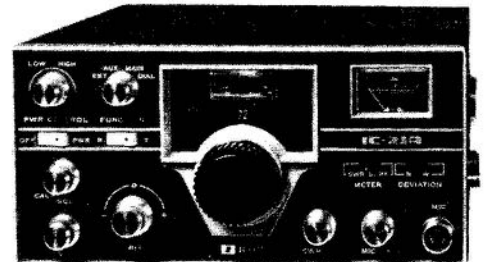
**\$469.00**



## IC-21A – a longtime friend with new override channels

This updated model of the popular IC-21 features 22 channel operation with the addition of two override channels. These channels save the inconvenience of winding the switch back and forth for checking repeaters and popular simplex channels. A built-in AC power supply is included for both voltage and current regulation. ICOM's famous modular construction contributes to the exceptional sensitivity and freedom from cross-modulation in the IC-21A. It's wired to accept the new DV-21 digital VFO (above) for the ultimate in 2 meter enjoyment.

Complete with microphone, AC & DC power cords and crystals for 146.94/146.94; 146.34/146.94; 146.52/146.52; 146.76/146.76; 146.16/146.76; 146.22/146.82; 146.28/146.88. Mobile mounting bracket optional extra \$9.95.



**\$499.00**

### DEALERS

VANCOUVER  
Ham Shack Electronics  
1269 Granville St.  
Phone 688-3736

DOLLARD ELECTRONICS LTD.  
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EDMONTON  
Raven Distributing  
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Phone 455-0088

CALGARY  
Caltronic Communications Ltd.  
6504 - 30th Street S.E.  
Phone 273-9441

ONTARIO  
C.M. Peterson Co. Ltd.  
220 Adelaide Street North  
London, Ontario  
Phone 434-3204

MARITIMES  
Frank J. Higgins  
Box 270, Lower Sackville  
Halifax County, N.S.  
Phone 865-8960



Distributed by ICOM Canada, 3891 Oak Street  
Vancouver, B.C. V6H 2M6



**TRANSCAN NET**

By VE7AFJ

A teletype traffic net is to be formed that will link Canada from coast to coast. This net, Transcan Net, will use a speed of 60 wpm with 170 Hz shift. The Net Control Station (NCS) will be VE3FOV in Toronto, Ont. The objective of this net is to service Canadian Amateurs and their Federation in terms of traffic.

An obvious requirement of a growing national Amateur Radio organization is the ability to pass traffic from coast to coast quickly and efficiently. Bulletins will be issued on a regular basis dealing with current affairs of CARF. This net will also be used to relay routine traffic to and from the field organization of CARF.

It is hoped that in a matter of time, two-way traffic can be distributed in each Province using the existing communications facilities of the provincial Amateur radio organizations. Existing nets can become more aware of the activities of CARF.

Initially the net will function one period each week. As requirements and interests dictate, this schedule will be expanded. The Transcan net will provide a basic training for RTTY operators in the skills of traffic handling.

All operators with a basic RTTY capability are requested to contact VE7AFJ, Box 309, Parksville, B.C. V0R 2S0 for Net activity information and to provide assistance in starting the Transcan Net.

**THE CNIB ARC**

By Bill Choate VE3CO and Ken Andras VE3UUU

Condensed from The Ontario Amateur

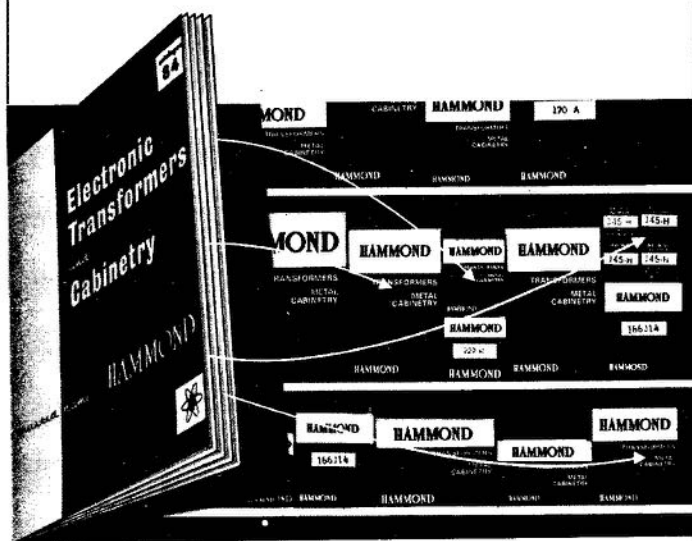
The CNIB Amateur Radio Club, conceived, organized and financed by members of the Radio Society of Ontario in February 1967, has a membership of 275 as of April 1975 (including 25 ladies). Members are CNIB registrants who have been licenced as Radio amateurs. With 20 deaths, there are now 255 members (136 in Ontario), about half of whom are totally blind.

The rate of growth has averaged over 40 each year since 1969 and this is likely to continue, as dozens are in training in classes held at CNIB offices in many cities from Halifax to Vancouver, with individual tutoring being given in many other locations.

Over 265 single-side-band transceivers are on loan to members as of September, 1974 (164 in Ontario). If assembled commercially these would have a retail value of over \$126,000. However, because of assembly by volunteers, elimination of duties and taxes and thousands of dollars worth of materials and parts for audio aids and antennae donated, the cost to CNIB ARC is reduced to approximately \$52,000. The blind Amateur pays only \$15.00 per year, rental for each set (less than 5 per cent of the retail value in KIT form).

The Key to the success of this program has been the ambition of blind trainees who are willing and anxious to accept the help of sighted, licenced volunteer Amateurs. Through the Radio Society of Ontario, other Provincial Associations and dozens of local Amateur Radio Clubs, 208 Sighted Ontario hams and 155 in other Provinces have been recruited to do for the blind what they cannot do for themselves. Each Whitecaner has an individual Advanced Licenced Sponsor (as required by the DOC) and an Associate Sponsor is obtained where possible. The more than 360 volunteers in Canada includes instructors, amateurs who assemble audio aids and antennae and members of Technical and other Committees.

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You may want transformers (or cabinetry) that aren't standard. We'll make them. This adds a little delivery time but since we've already built 110,000 different designs we won't be starting from scratch. Our factory welcomes specific enquiries.

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# CARF : A national society for Canadian Amateurs

## Why We Need A National Society

A fact seldom appreciated by many Amateurs is that world-wide Amateur Radio can continue to exist only with the support of the majority of member nations of the International Telecommunications Union. Each member nation has one vote in the ITU. It is therefore essential that each country in ITU have a strong, national body of Amateur opinion supporting and advising their governmental delegation if Amateur Radio is to continue to grow on a world-wide basis. Such support must, to have the desired effect, come from a distinctly national society, truly representative of the Amateurs of each nation. Otherwise the principle of one nation, one vote, will clearly work against Amateur Radio in many areas.

In a country, Amateur privileges within the broad outlines of ITU regulations and frequency allocations are clearly dependent upon the same unified national voice consulting with and advising the national telecommunications regulatory branch or ministry. Here again it is essential that the spokesman for the Amateurs be representative of the country and that there be no suspicion of international conflict of interest. Radio waves cannot be legislated into stopping at national borders and many changes lobbied for in adjacent countries are bound to affect not only the Amateurs of that country, but those of adjacent countries as well.

## Why Amateurs Should Support CARF As The National Society of Canada

Your national Federation is incorporated under Canadian Federal Statutes with an administrative organization that fulfills all requirements. It has a Board of Canadian Directors, is managed by a Canadian national executive, is directly financed by the members, controlled by the members, supplies information to ALL classes of membership by the publication and circulation of a regularly scheduled national publication, The Canadian Amateur, and publishes Canadian Manuals and Handbooks.

## What CARF Proposes To Do With Amateur Support

1. Furnish a democratic channel of communication from Canadian Amateurs to the Canadian Government and to international and foreign agencies concerned with Amateur radio,
2. Supply a national publication devoted to Canadian Amateur Radio,
3. Enable the voice of the individual Amateur to be heard through the nomination and election of Area Directors by the individual Amateur members of CARF,
4. Supply services that will benefit Canadian Amateur Radio,
5. Organize national advisory groups such as CRAG.
6. Create and administer a national traffic system enabling traffic of all types to flow across Canada,
7. Administer in-coming and out-going QSL Bureaus,
8. Interest and encourage people to become Amateurs by the publication of a brochure available to all Amateur groups for local distribution,
9. Monitor the interpretation of Radio Regulations pertaining to Amateur Radio across Canada,
10. Provide publications for Canadians, such as the Regulations Handbook, Certificate Examination Manuals, a Canadian Call Book, and a Canadian Yearbook including items of interest to all Amateurs,

11. Provide a Canadian News Service to Editors of provincial and club bulletins,

12. Supply a working national Executive to deal with day-to-day matters affecting the membership,

13. Stimulate Canadian participation in international contests,

14. Assist the Department of Communications by codifying of Radio Regulations, administering Amateur examinations, and acting as a clearing house for Amateur queries,

15. Supplant foreign management of Canadian Amateur affairs,

16. Unify the work of special interest groups within the national structure,

17. Develop and support activity by member provincial societies (BCI/TVI committees, Conventions, Hamfests, special meetings, Emergency Communication systems, traffic networks, Repeater councils, DOC liaison, etc),

18. Co-ordinate the opinions of Canadian Amateurs on relevant matters referred to it by government agencies, both Canadian and international,

19. Encourage the experimental and technical development of the Amateurs of Canada,

20. Administer and finance national committees working on particular phases of Amateur Radio.

To assist the Board members in their deliberations, your Directors would appreciate comments and advice on the preceding proposals.

## THE ONTARIO TRILLIUMS A.R.C. (VE3TOT)

BY JEAN, VE3DGG

Ten years ago, seven YLs met and founded the first YL ARC in Canada, with the call VE3TOT. Since then it has listed members from across Canada, USA, England and even Brazil. TOT #124 has just recently joined the ranks.

The Trilliums, (Ontario's provincial flower) with their OMs, have become actively involved with blind Amateurs, helping with instruction, and sponsoring the new operators. They started a small fund (to which the club contributed) for the new group who became known as the CNIB ARC. They relinquished this project to a group of OMs, and who expanded it to what it is today.

Some of the activities in which Trilliums participate include traffic handling, RTTY, nets on Saturdays, building gear, raising antennas and joining in contests. EMO training for others gave them the necessary experience to participate in two Field Days with the first all-Canadian YL teams taking part. They undertook taped bulletin and Braille services for white cane members. "Ham of the Year" awards and contest winners have Trillium names on their lists. We have members in Queen Elizabeth Hospital under call of VE3QEH, members in the Villa Private Hospital under call of VE3VPH, and members in nursing homes.

In 1971 the Trilliums accepted another project, when members became involved with Sunnybrook Hospital Veterans. The club donated books and tapes and started a small fund for little accessories so necessary for this new group and now there is a taped library housed in albums, with technical articles being contributed. Known now as VE3SBH, the Sunnybrook Hospital ARC (SHARC) has been encouraged to be as independent as possible, and the Trillium Club may well be proud of this proof of their belief to get 'Involved, Participate and Cooperate'.

# GLENWOOD PRESENTS

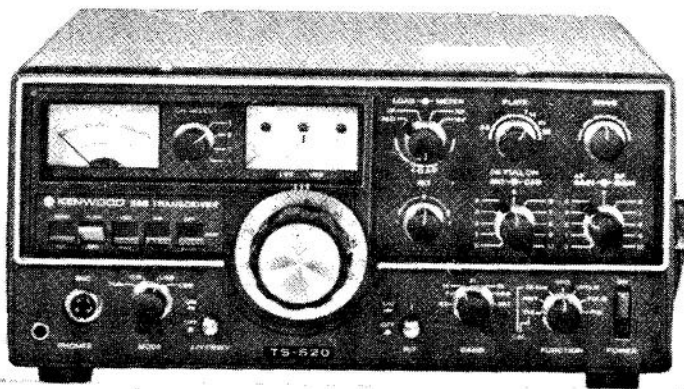
# KENWOOD

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## FM TRANSCEIVER TR-7200G

22 channels of sheer pleasure from the only manufacturer who publishes in their advertising material, spurious response and intermodulation graphs. Shop and compare but surely you will agree that the TR 7200G is truly the Cadillac of the VHF 2 meter FM field. 5 channels of crystals supplied .. 146.34/146.94 plus 4 chnls. of your choice plus SWR protection circuit, reversed polarity protection circuit and Diode solid state switching. The Kenwood/Trio 7200G is the improved version of the best selling TR 7200. Truly a great value at any price but a **SUPERR Value** at \$279.00 shipped via Air Mail Registered **"FREE"**



Supplied with  
2 Channels of  
Crystals ..

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TR2200G

The worlds most popular 2 meter handy transceiver, with built in Nicad battery charger for 117VAC. Plus DC provisions for external 12V supply. 12 channels of pure pleasure .. price \$219.00

The NEW TS-520 is Kenwoods "go every place" .. "do everything" transceiver. The compact HF transceiver you have always wanted, but was not available until now. It is a no compromise 5 band SSB or CW transceiver with built in AC and DC power supplies plus VOX, adjustable gain delay and anti - VOX  
Price -- \$719.00 (Free Delivery) ..

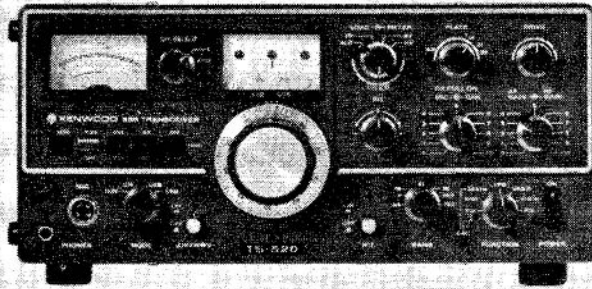
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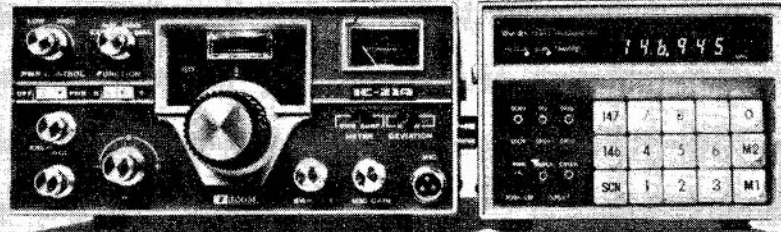


— All Band SSB Transceiver —

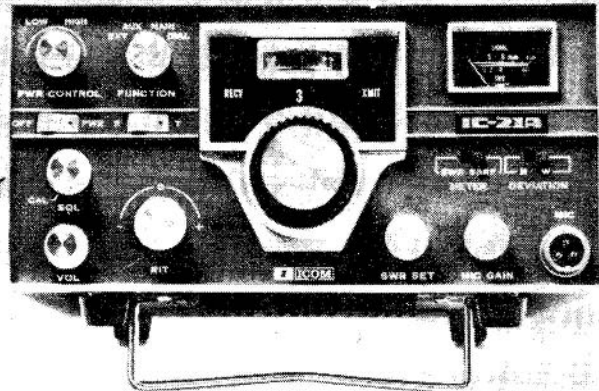
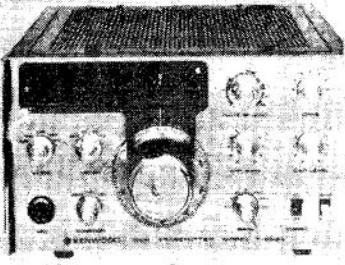
# TS-520



## DV-21

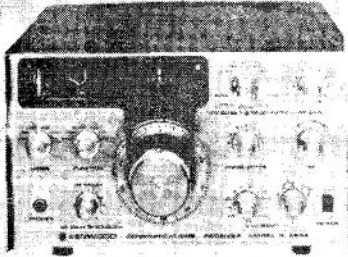


**KENWOOD TR-2200**  
2-meter FM Transceiver

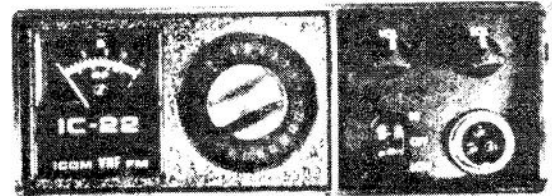
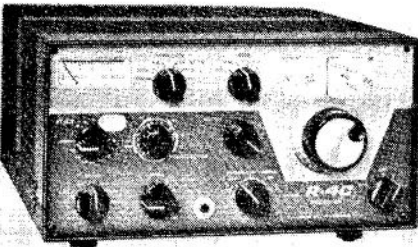


**IC-21A**

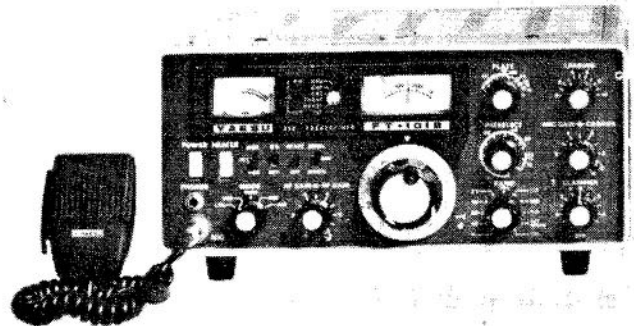
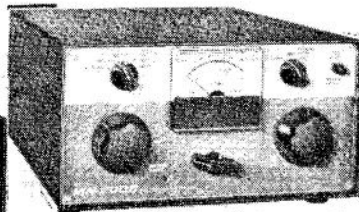
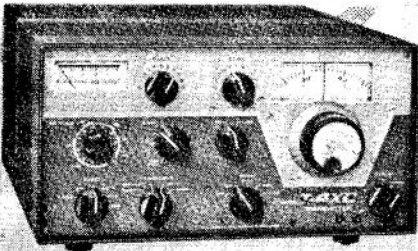
**T-599A Transmitter**



**R-599A Receiver**



**R-4C Receiver**



# FT-101B

**T-4XC Transmitter**

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## Democracy at work

To be a Canadian national society several requirements need to be met. One is that the policy and management of the affairs of the society are functions of an elected Board of Directors. The Board meets at periodic intervals, normally at the call of the President, and meets annually to elect and appoint the Officers, chairmen of Standing committees and a national executive to cope with the management of the society. The constitution of the society outlines the functions and responsibilities of the officials and Directors. In brief, each official is charged with the management of certain affairs and activities and all are directed by, and responsible to, the members of the Board.

Additionally there must be an annual meeting of the members, or their elected representatives, and the members may call a special meeting to deal with extraordinary matters.

Another essential is the free exchange of information regarding the policy and activity of the national society to all classes of membership and the creation of an administrative headquarters to directly serve these members.

The Canadian Amateur Radio Federation Inc. meets all these conditions. The Board of seven Directors is elected at the Annual meeting of the members by the provincial society members and the officials of CARF are annually selected by the Board and answer to the Board.

To provide a larger base of membership and to give the individual Amateur more direct control over the affairs of his national organization, the Federation is preparing to institute individual, voting membership by the end of 1975. This change will enable the individual members to nominate and elect Area Directors to represent them at the councils of the national body. The full details of this proposal will be placed before the national executive and the approved proposal will be circulated to the provincial societies for their approval. This will, of course, necessitate amendment of the corporate By-Law passed by the Minister of Corporate Affairs before it can take effect.

Substantial changes in policy and activity will also take place. To determine what changes the Amateurs of Canada wish to see in their national organization, a series of meetings and discussion groups will take place in 1975 starting with the Open Forum in Toronto last March. Such Forums can also take place within the framework of conventions, hamfests, etc., and organizers of these are requested to contact the Federation, or their Area Director, to make suitable arrangements.

Your national Federation is determined to create a Canadian national society that will engender support from the majority of Amateurs. There are approximately 14,000 licenced Amateurs in Canada with the present strength of the Federation over the 4,000 mark, making CARF the largest Amateur body in our country. Our eyes are set on a membership goal much higher than this to give real meaning to our motto "The National Voice of the Canadian Amateur".

The Amateurs of Canada now have an opportunity to assist and support the development of their own national organization. Your comments and advice are solicited and will all be considered in this formation

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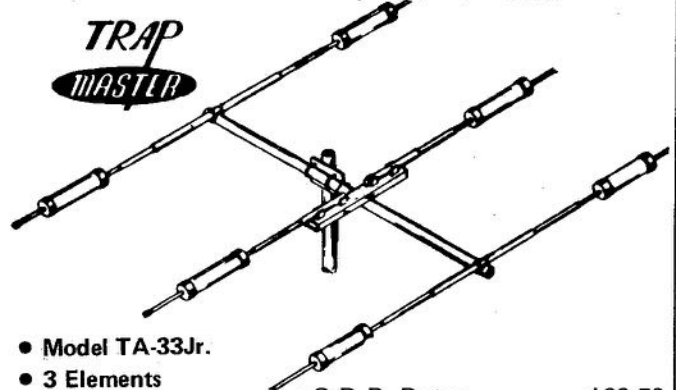
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### THE CANADIAN LADIES AMATEUR RADIO ASSOCIATION

The national ladies' Amateur organization, CLARA, was organized in 1967 as a centennial project of the Ontario YL club, The Ontario Trilliums.

The organization was done largely by on-the-air meetings and, by 1969, CLARA had a newsletter entitled the Clarion. The national CLARA net functions on 14,160 kHz at 13:00 - 16:00 hrs. GMT and 23:00 - 02:00 hrs. GMT on Tuesdays. A 75 metre net is on the fourth Tuesday at 01:30 hrs. GMT around 3775 kHz.

A unique CLARA production, a Call Book listing YLs was published in 1970 and updated versions are available from the group.

The Association has been active in Amateur circles in a variety of ways. CLARA made its voice heard in briefs submitted on the licence fee increase in 1968 and let the FCC know their thoughts about the US phone band expansion in 1972.

CLARA is an affiliate member of your national Federation and delegates attend, and play an active role in the CARF Annual Meetings.

A special project undertaken by the YLs is called Operation Books North. The members send books to start public libraries in existing schools in the North West Territories.

An active part is taken in hamfests and conventions, and displays and information booths are normally supplied. The Association will have a mini-convention in conjunction with the Clagary Centennial Convention in August of 1975. The chairman of the CLARA event is Donez, VE6YL.

The Maritimes Sparkettes and The Ontario Trilliums are both affiliated with the national Association and, to interest Quebec YLs, CLARA now puts out information sheets, application blanks and certificate rules in French.

CLARA certificates have now gone international with the YL-DXCC, a recent addition to their certificate program. There is also an annual CLARA Day contest run by May, VE1AMB, VE2JZ and Cathy, VE3GJH. The event is called the AC-DC Contest.

For further information on CLARA activities, memberships, contests and certificates, contact Cathy Hrischenko, VE3GJH, 30 Lisburn Crescent, Willowdale, Ont. M2J 2Z5.

### ABOUT CRYSTALS LES SMITH

Many of you have had frustrating experiences with ordering crystals. You may find that the ones you receive do not work, but before you land too heavily on the supplier, please bear in mind that it may be due to insufficient information being supplied.

You alone know exactly what you need, and you must make it clear in your order. The basic necessity is the carrier frequency and the set in which the crystals are to be used. Crystals are made for specific sets and are not often interchangeable with any other, so the make and exact model of set should be clearly stated.

Next in importance is the holder. Holders are identified by the military nomenclature.

HC6/U is the larger metal holder, with pin spacing of 1/2" (.486" to be exact). It is called a miniature holder, and has .050" pins or can have .093" pins if specified with order.

HC25/U is the smallest standard metal holder, and is called sub-miniature. It has .040" pins spaced .192", and is also available with low cover height of .437" instead of standard .500".

HC18/U same as above, but with wire leads 1 1/2" long.

HC32/U half way between HC6 and HC25 and used only in Marconi DT75 transmitter and one or two others.

Particularly if you are putting a commercial set on 2 metres, you should specify the holder. You may want to go multi-channel and may want to use smaller crystals, or smaller crystals with wire leads. Don't keep it a secret from the crystal supplier! Incidentally, one manufacturer of equipment calls for "HC18/U with pins." If this is what you want, don't stop at HC18/U or you will get wire leads. Better still, call it HC25/U.

Much of this is not necessary with commercially built amateur 2-metre gear. State the frequencies you want for transmit and receive. "146.34T/146.94R for VE2CRA for HW202" is a good example.

Finally, believe it or not, a surprising number of inquiries come in with no signature, no address or any other way of identifying the customer. It isn't that suppliers like to be difficult, but it helps to know where and to whom to send the crystals.

To summarize, too much information is better than too little!

## Amateur radio and the 1979 WARC

VE3NR

The 1979 World Administrative Radio Conference, WARC, will be of very special importance to the Amateur Radio Service and it is not too soon to think carefully about what should be done in preparation for it.

It will be the first time since 1959 that the members of the International Telecommunications Union will have had the opportunity to review all radio spectrum usage and radio regulations. There have been many conferences held since then. In 1963 and 1971 there were radio conferences on the use of satellite technology; in 1967 and 1974 on the maritime mobile service; and in 1964 and 1966 on the aeronautical mobile radio service.

With the exception of the 1963 and 1971 conferences, all have been restricted to dealing within bands that were

largely determined by the 1959 Administrative Radio Conference. In the 1979 review, the members will take a careful look at Amateur radio and all the other radio services, whether or not they were reviewed during the intervening 18 years, to determine how the spectrum should be reallocated to the various radio services. Until most countries have made their view known, it would be wise for Amateurs to assume that there will be some readjustment of band limits throughout the spectrum and to prepare to compete for spectrum space.

In 1959, the United Kingdom supported by the United States successfully discouraged a major revision of the allocation table (established in 1947 by the Atlantic City Administrative Radio Conference) below about 30 MHz. Amateur allocations were protected from serious reduction



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as a result of acceptance of that position. However, since then just about everything else has changed - people, countries, technology, economic development.

The 1979 WARC will be the first time that about 60 of the 149 member countries of the ITU will have to adjust or otherwise influence the whole use of the spectrum through revision of the allocation table and the international radio regulations. No doubt they will bring to the conference new ideas, needs and pressures. It is hard to forecast his far in advance what the 1979 Conference will do for Amateur radio, especially when one looks back and notices that the ITU Radio Conferences often bear little resemblance to each other and when one looks forward to see that two Conferences (Broadcasting Satellite and Aeronautical Mobile) are to be held in 1977.

Amateurs must bear in mind that many ITU member countries have not fostered or supported Amateur radio or have little interest in that service. They must also realize the nature of the conference environment in which the case for Amateur radio will have to be presented, discussed and decided.

The procedure to be followed is fairly clear. Canadian Amateurs must make up their minds as to what they want and secure Canadian acceptance of it. This is no easy task particularly when one realizes that the wide range of views that prevail among Amateurs and the problems of consolidating the salient points which have the greatest acceptance into a statement of what they want.

Co-operation, collaboration and communications between all clubs and associations are musts if they are to be successful.

The DOC is responsible for securing the rights of Canada in telecommunications by international regulations or otherwise. The Department must have Amateur views in time to relate them to other Canadian needs and integrate them into our draft proposals for the Conference. DOC will want to put them forward in the inevitable preparatory discussions that will start soon between friendly groups of nations to resolve problems and gain as much support as possible for the Canadian views prior to the 1979 Conference. Once the Canadian proposals are known, Amateurs will be able to seek support of them outside Canada.

The final and most important task will be to obtain acceptance of the Canadian viewpoint from those administrations who have not fostered Amateur radio in the past, both before and at the 1979 WARC.

#### EDITOR'S NOTE:

Since CARF has been invited to participate in the workings of the Department of Communications Interdepartmental Preparatory Committee by providing advice on Conference matters, it is imperative that the Amateurs, either through clubs or provincial associations or as individuals, let CARF know their ideas and feelings on the future of Amateur Radio.

## Ray Hunter & Associate

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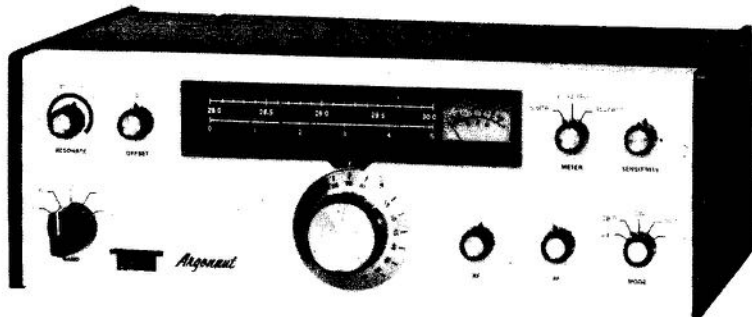
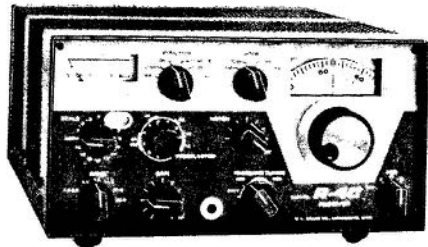
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**BCARA REJOINS CARF**

The British Columbia Amateur Radio Association has rejoined the Canadian Amateur Radio Federation, Inc. effective immediately. Further details will appear in the June issue of The Canadian Amateur.



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**BANNED COUNTRIES LIST**

Iraq, Khmer Republic\*\*, Libya, Pakistan, Somalia, Turkey, Viet-Nam\*. Peoples Democratic Republic of Yemen.

\* - Stations XV5AA, XV5AB and XV5AC were authorized to exchange communications with Amateurs of other countries by the former Saigon regime.

\*\* - Station XU1AA has been authorized to exchange communications with Amateurs of other countries.

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