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# CANADIAN

# AMATEUR

VOLUME ONE

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NUMBER NINE

## 220 MHz

### A BRIEF OUTLINE OF THE CANADIAN AND AMERICAN POSITIONS

(by A. E. Blick, VE3 AHU)

In 1971 the Electronic Industries Association petitioned the US Federal Communication Commission to re-assign a major portion of the 220-225 MHz Amateur band to the Citizens Radio Service (CB as it is better known).

On 30th November and 10th December 1971, letters were forwarded to the Department of Communication expressing the concern of the national Federation that the granting of such a petition by the US authorities might be followed by a similar loss of VHF frequencies to the Amateurs of Canada.

A letter from the Minister of Communications—7 January 1972—noted that "this is a domestic matter in the United States, entirely within the competence of the FCC. The ITU Radio Regulations provide for such allocation in derogation of the ITU Table of Frequency Allocations provided no harmful interference is caused to those radio services of other countries

### CARF LOSES DIRECTOR AND FRIEND

In the sudden passing of Jim Strain, VE3BSG, on October 14, the Federation lost not only a Director but one of its most dedicated workers who, since its inception, supported and actively promoted the concept of a national amateur organization.

Jim, who was 53, was also active in the local Ottawa club and the Radio Society of Ontario and until his retirement from the Armed Forces (R.C. Sigs) three years ago, acted as liaison officer for the Federation with the Department of Communications. He is buried in his home town, Charlottetown, P.E.I.

### SARL SEEKS CARF MEMBERSHIP

The Saskatchewan Amateur Radio League in a letter signed by its president, Gord Pearce, VE5HP, has informed the Federation that as a result of a referendum, it is now formally applying for membership in the Canadian Amateur Radio Federation, Inc.

operating in accordance with the Table.

"This Administration has not yet received any representations from the Electronics Industry Association of Canada. We understand that the Association is awaiting the results of the U.S. petition before deciding on the action to be taken. In the event that a Canadian petition is received, please be assured that it will be carefully studied, in consultation with the Canadian Amateur fraternity, before a decision is taken."

On the 6th June 1973, the F.C.C. released its Docket 19759, a Notice of Inquiry and Proposed Rule-Making. This Docket proposed to re-allocate 224--225 MHz to the U.S. Citizens Radio Service and noted "it is possible that objections from Canada and Mexico may require a prohibition against any other operations in some border areas. Pending resolution of that matter, mobile stations would be constrained from operations within ten miles of the border and base stations within 25 miles of the border. If suitable arrangements with Canada and Mexico can be effected, this prohibition may be modified to conform to the nature of the agreement."

A further letter from the national Federation was sent to the DOC on 15 September 1973 again expressing the concern of the Amateurs of Canada and requesting that the Department convey this to the F.C.C. We noted that there has been a gradual but steady loss of Amateur frequencies to the General Radio Service and that the lack of operating, administration and technical knowledge of the operators of that Service has directly

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# The Canadian Amateur

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

Managing Editor: Steve Campbell

News Bulletin Editor: Doug. Burrill, VE3CDC

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

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- 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
- British Columbia Amateur Radio Association
- Amateur Radio League of Manitoba

## FROM THE FRONT OFFICE

VE3 AHU

Circulation of The Canadian Amateur is steadily growing and is now over the eight hundred mark. This includes copies sent to Associate members, Regular members, A.R.R.L. officials and affiliated clubs, and courtesy copies. This is a positive indication of the growing support for a Canadian national Amateur publication and will result in better quality and content as resources improve.

The publication, although loosely classified as 'monthly' is not published in the months of July and August. This omission is for a variety of reasons—to give the hard-working, volunteer staff a holiday break; the dearth of copy during the off-season; to reduce the cost and thus the membership fees. Speaking of costs our figures show that a circulation of 1,000 will pay the full costs of editing, publishing and circulation. However, the additional revenue obtained from advertising content will enable the Editor to proceed with his plans for increased content, more offset printing, etc., as will additional membership over the 1,000 mark. A membership blank will be contained in most issues from now on and I trust that our present subscribers will cajole their friends into filling one out.

Some comment has been received on the amount of copy that pertains to Amateur repeaters, Emergency communications and the Wheel Chair Group. A point that should be emphasized is that this copy has been made available to the Editor while copy from provincial and other Amateur organizations has been sadly lacking. Copy has been used from other Amateur publications but this copy has not been exactly topical. The Editor would welcome up-to-date information on any phase of Amateur activity, such as now being received from the Canadian Division of A.R.R.L. Deadline for copy is the 15th of the month preceeding the issue.

We are pleased to note the acceptance of the Canadian Repeater Advisory Group by many groups working with auto repeaters. This initial, joint enterprise of the Canadian Division ARRL and the national Federation will be followed in the next few months by another group to work in the area of the supply of Amateur communications to Canadian requirements.

## "WHEAT CITY" AWARD

Brandon, Man., Canada—Sponsored by the city of Brandon and the Brandon Amateur Radio Club.

### Requirements:

1. Date — beginning January 1, 1967.
2. Log Data only required, any mode, any band, CW, AM, SSB.
3. Charge ONE (1) IRC or equivalent.
4. Stations including Canada, USA, (Alaska included) Mexico work five (5) Amateur Radio Stations in the City of Brandon.
5. All others including Central America and Hawaii work three (3) Amateur Radio Stations in the city of Brandon.

Send application to Doug Bowles VE4QZ, 1104 1st Street, Brandon, Manitoba.

Brandon Calls to look for are: VE4AO, AU, CI, CT, DQ, EL, BS, UP, JT, OZ, QZ, RW, XN, YC, JF, FW, AL, KN, GV, KZ, YW, DG, RE, MQ, QD, YM, SR, FD.

To engender comment, opinion and discussion on the many phases of Amateur Radio, The Canadian Amateur will contain, from time to time, a column titled "ONE MAN'S OPINION". Its purpose is to give space for individual observations and will be without byline as to author. Readers are invited to forward their ideas, thoughts and convictions to CARF, Box 356, Kingston, Ont., K7L 4W2 for publication. No editing will be made but the Editor reserves the right to return the copy to the author with an explanation as to why it has been rejected.

## ONE MAN'S OPINION

Opinions are constantly being voiced on the Amateur radio situation in Canada.

One topic of conversation is the advisability of changing the present two classes of certification, namely "Amateur" and "Advanced Amateur", by adding a 'beginners', 'special' and 'extra' classification. It should be understood that any change proposed to the Department of Communications must have the backing of a substantial number of Amateurs, must be justified as to the benefits accruing to the Amateur Experimental Service, must detail the operating benefits, etc., that the classification will grant to the holder and be accompanied with a synopsis of the examinations required.

Most readers will remember the work done by the national Federation and its provincial members in formulating and presenting a proposal to institute a Restricted Amateur class in an effort to increase occupancy and experimentation in the VHF/UHF spectrum. And the efforts of the American Radio Relay League to create a beginners class, similar to the US Novice class, to increase the number of Amateurs.

An additional factor has now come on the scene the organized courses on Amateur radio now held by many Community Colleges and High Schools. These courses have a very high level of student qualification and the number of students attending is steadily increasing. This is reflected in the surprising increase in Amateur licences this past year—4%—about double that of previous years. And, if the size of the classes for the coming year is any indication, this number will be substantially increased in 1973/74.

Seemingly there is no bar to obtaining an Amateur qualification if the individual is motivated sufficiently to obtain the necessary instruction and attend the classes. Possibly the efforts of the fraternity should be to encourage more Colleges and Schools to undertake these courses with the local club members assisting, especially in code instruction, operating procedures and knowledge of Regulations. Also note that a survey made by the DOC showed that the majority of failures in the Amateur examinations were caused by lack of knowledge of the theory, etc. (NOT by failure of the Morse code requirements) and no one has yet demonstrated how this knowledge can be obtained by on-the-air operating.

If we want more Amateurs and more youth involved, then we should see that proper instruction is made available and not just propose that the existing standards be lowered.

## IT SEEMS TO US

P. Cassel, VE3 AVY  
(Kitchener-Waterloo ARC President)

WHY? . . . . should we be concerned about the proposed takeover of part of the American 220 MHz band. As you may be aware the F.C.C. Docket Number 19759 proposes 40 new C.B. Channels in the 220 MHz band.

WHY? . . . . should the Americans not give up part of their Ham bands and since the same will probably occur in Canada, why should we worry about giving up part of ours. The C.B. Operator can, and quite frequently does, offer short notice communications while the Hams sit back and make fun of the "cookie busters" playing radio. You may say WHY can't the FMer's offer the same service. Well we can, but when less than six hams show up during an emergency exercise, one does wonder about our public service spirit that spills out all over in C.B. circles.

WHY? . . . . well unless we can pull up our public service socks and show the D.O.C. we can make better use of the 220 MHz band than the so-called "cookie busters", we can almost certainly sign our own death certificate to part of all of the 5 MHz in the 220 band and see it given to someone who will use it.

WHY? . . . . don't you start giving some serious thought to participating in our EMERGENCY COMMUNICATIONS meetings and exercises so when the D.O.C starts to ask us WHY? in Canada, we can show them WHY.

## PROPER IDENTIFICATION — DO YOU KNOW THE REGULATIONS?

Here is the relevant part of the DOC regulation on identification.

You must identify:

(i) At intervals not greater than thirty minutes during any period during which the station is transmitting.

(ii) At the termination of:

(i) A single transmission, or

(ii) Each exchange of communications with another station." (GRR-II-27)

Note that you are **not** required to identify the beginning of each transmission, or at the end of each transmission in a series. During "round tables" it is advisable, from the viewpoint of good operation, to identify your station at the time of entry, and then, at least, at intervals of a half hour as required by DOC, the period of participation. You are, however, required by DOC to send you call sign **when you sign off and leave the group**. It is **not** required by DOC to send the call sign of the other station(s) being worked. The sending of these call signs is good operating practice where there may be some doubt as to the next station to transmit.

VE3CDC (Credit Ottawa Groundwave)

INTERFERENCE from electrical appliances has been increasing rapidly and to control it DOC is taking steps during 1973 with the CSA to design suppression features into such appliances. This control is being extended to outboard motors and snowmobiles.

(Continued from page One)

led to the problems that the DOC has in regulating its activities.

Also, "Our concern over the implementation of the F.C.C. proposal is the effect it will have on Amateur operation in the 220 and 450 MHz bands. The range of operation of a 220 MHz base station, as specified in the F.C.C. docket, will be greater than the 25 mile safeguard mentioned and there will be conflict between Canadian Amateur and U.S. Citizens Radio operation in many border areas.

"Additionally, the second harmonic output from the equipment used could seriously affect Amateur operation in the 450 MHz band and would have serious effect on the operation of present and future Amateur auto-repeater operation both in Canada and the United States. Experience with present day communication equipment used on these frequencies indicates that, unless maintained and frequently checked by competent technicians, it is very prone to harmonic emission and the operators of the G.R.S. have shown that they do not possess the necessary expertise, equipment necessary, or concern to overcome the interference they may originate."

The American Radio Relay League, as the national Amateur organization of the United States, has made strong representation to the F.C.C. on their proposal (see current issues of their publication "QST" for details) and we heartily concur with their action.

The next move is up to the F.C.C. Although no petition nor proposal for such re-allocation has yet been made to the Canadian government, we realise that such action will be made if the United States goes ahead with its proposal. One point in our favour is that the frequencies adjacent to the 220-225 MHz band are not as extensively used in Canada as they are in the United States and it is entirely possible that the DOC may allocate a frequency band for G.R.S. use outside the Amateur bands.

The national Federation is maintaining close contact with the DOC on this matter and will publicise any developments that may transpire in the future. We look back at the tremendous growth of activity in the VHF/UHF region that has occurred in the past ten years. These frequencies will be used to a much greater extent as equipment is made available and more Amateurs experiment with components and devices that are gradually coming on the market, as distinct from the research laboratories.

The frequencies above 30 MHz are undoubtedly the communication bands of the future and we can ill afford to lose any frequencies therein especially with the major growth of members in the years to come.

#### OLD-TIMER ARRL TECH WRITER PASSES

Don Mix, W1TS, retired assistant technical editor of QST, died on September 19th. Many Canadian old-timers built their first rig and station gear from designs produced by Don. He made amateur communications history 50 years ago when he operated WNP (Wireless North Pole) when with a polar expedition.

(Credit ARRL)

#### WHEELCHAIR ROUNDUP

(By Rick Hedges VE3GJI)

At the annual R.S.O. convention in Kingston, Ont., our very own mentor, Len Sumner VE3DOR, was named Amateur of The Year. To show our appreciation, the W.C.R.U. had a surprise party for Len which was held at the Villa Hospital. We made some presentations of our own to him. Many of the W.C.R.U. attended the ceremonies and buffet supper. Chris, Len's XYL, said it was the first surprise party Len ever had. The W.C.R.U. is extremely proud of Len.

The new executive of W.C.R.U. held its first business meeting of the season on Saturday, Sept. 29. Many projects were discussed and a decision was made to again sell cheese trays and Xmas cakes, to raise funds for the club treasury.

Rick Hedges, VE3GJI, has been appointed editor of this column, for future issues of The Canadian Amateur.

Gaston Hebert, VE3CKX, was added to the executive as Treasurer. He will keep us busy, working on ways and means of raising funds for our treasury. We have none at the moment and do not solicit donations. We raise our own funds, through special projects, organized and conducted by the W.C.R.U.

We have been granted the call VE3WCN (Wheel Chair Net) by the D.O.C. Listen for it on the air.

Next month a special President's message by Richard Wood, VE3ERW.

#### THE CHARLOTTETOWN CONVENTION

The Charlottetown Convention proved to be a good time for all who took a chance on going over to the Island under somewhat extenuating circumstances. Due to the rail strike, there was only one ferry operating and, while it was no problem getting over, the possibilities of getting back to the mainland were anything but good.

Fortunately the strike broke and all was back to normal on Monday but this had a decided factor on the attendance, which was reduced to about two-thirds of the numbers expected.

The weatherman co-operated, however, and helped to make up for what was lacking in numbers. All enjoyed themselves to the fullest and it was very nice to see all the old faces, a large number of new faces and to renew acquaintances. Among the out of district Amateurs attending were: Noel Eaton, VE3 CJ, Walt Woodling, VE3 CLJ, Fred Hammond, VE3 HC, Bob Watters and his XYL from Weston, Mass., Doug Burrill, VE3 CDC, Jim Strain, VE3 BSG.

Forums and talks were given by Bob Watters, W1 PRI on the 2-meter situation as it concerns Canada and the U.S.A.; Aaron Solomon, VE1 OC, gave an interesting discourse on Antique Wireless that was illustrated with slides of old-time receiving equipment; and the Hon. Walter Hyndman, VE1 BZ, former Lieutenant Governor of P.E.I., spoke of Amateur Radio in the old days. He has been licensed for over 50 years.

(Credit Halifax ARC)

## CANADIAN CAPSULE COMMENT

### Manitoba

The International Hamfest held at the Peace Gardens this year is boasting of the best turnout ever reported with interested Amateurs coming from as far as Hawaii. A good time was had by all.

It is not too late to start thinking of next year, so keep it in mind. Anyone who is a camping nut can have a double barreled good time at the Hamfest and enjoy camping and hamming at the same time.

(Credit ARLM)

### Saskatchewan

You will all know by now that the vote for SARL membership in CARF was 32 for and 14 against. As indicated earlier at the Hamfest, it will now be up to the Board of Directors to decide if the small vote and small difference of opinion is sufficient and they will make this decision at the next meeting in October.

(Credit SARL)

### Quebec News

The controllers of the Quebec Phone Net ask for the co-operation of other Canadian Amateurs in reducing the QRM on their daily net which meets on 3780 kHz beginning at 1845 hours daily (EST or EDST, as applicable).

The Radio Amateurs du/of Quebec Inc (RAQI) announce the formation of "Radio Telegraphique Quebec (RTQ), a new net operating on 3685 kHz daily at 1930 hours. Another Quebec net of note is the Quebec Radio Net operating on 3775 kHz daily from 1930 to 2030 hours daily. Note that all times given are EST or EDST, as applicable.

(Credit RAQI)

### Ontario

The Radio Society of Ontario, as a service to its members, is assembling a library of schematics, alignment procedures and technical notes on surplus FM VHF/UHF equipments. George Davis, VE3 BBW, chairman of the Ontario VHF Advisory committee, is custodian of the library. There is no charge for copies of schematics, etc., but this service is available only to members of the Society.

(Credit R.S.O.)

### A.R.R.L. News

1. Holland H. Shepherd, VE3DV, of Ottawa, has been appointed to the ARRL Emergency Communications Advisory Committee in the U.S.A. for a two year term. Currently ARRL section communications Manager for Ontario, Shep has been licenced since 1946 and an Advanced Amteur since 1947. He is a member of the Intruder Watch and is active on HF and VHF.

2. Howard R. Cowling, VE3 WT, of St. Catherines, Ontario, has been appointed to the ARRL VHF Repeater Advisory Committee, replacing Leon Giannakeff, VE3 BUI.

Howard was licensed in 1948 and has been involved in FM professionally as a technician since 1943 and has operated his own communications business from 1950 to 1972. He is a founder and director of the Western New York and Ontario Repeater Council but is also active on the HF bands.

### Newfoundland

The Amateur Radio Club of Central Newfoundland (ARCON) has been declared winner of the G.M. STIRLING AGGREGATE TROPHY given to the V0-club that has the highest aggregate score (otal score divided by number of operators used) during the annual Field Day. ARCON ended with a total score of 3474 points gained by 7 operators giving an aggregate score of 496 28.

This total score was also the highest registered in the V0 region and ARCON also receives the J. R. SMALLWOOD FIELD DAY TROPHY for the current year. A splendid effort by the 7 operators.

(Credit SONRA)

### New Brunswick

The annual White Cane Picnic, held at Centennial Park, Moncton, on 4 August, was a great success. There were about 60 present enjoying the festivities. Several gifts and prizes were given to white Caners with a special gift going to a VE3 White Caner for travelling the greatest distance.

A fried chicken supper was served and enjoyed by all. Hearty thanks go to Don, VE1YY and Ola, VE1 ATQ and the XYs for making the picnic a great success. A vote of thanks also goes to the senior citizens recreation group of Moncton for donating the facilities used for the dance following the picnic.

(Credit NBARA)

### D.O.C. News

As a result of re-organization at DOC headquarters in Ottawa, the former "Telecommunications Regulation Branch" has been abolished with its responsibilities as far as Amateur Radio is concerned, now under a new branch to be called the "Telecommunication Services Branch". The Director-General of this branch is R.G.B. (Bud) Hoodspith, formerly DOC Regional Director for Ontario.

Mr. W. F. (Bill) Wilson, VE3 NR, the Director-General of the Telecommunications Regulations Branch, has moved over to the National Telecommunications Branch to develop policy for spectrum management.

Roy Wilson, VE1 WL, has been appointed Assistant Director Atlantic Region DOC.

### DX Note

In a letter to Noel Eaton, VE3 CJ, Director Canadian Division ARRL, the DOC notes that there is no objection to Canadian Amateurs communicating with Amateur stations using the prefix ZC4 as this prefix has been allocated to "Overseas Territories" of the Government of the United Kingdom.

### QSL Bureau Change

As of 9 October 1973, the QSL duties for the VE8 Bureau will be performed by Mr. Frank Van Der Zande, VE8OO, PO Box 72, Fort Smith, N.W.T., X0E 0P0.

(Credit ARRL)

### NASA Approves Next Oscar

The USA National Aeronautics and Space Administration has approved an Amsat proposal for the launch of another Oscar satellite. After a successful launch, the satellite would be redesignated as Oscar 7.

Amsat-Oscar B, is now under accelerated construction with a grant from ARRL. The Ottawa Amateur Radio Club did its share by donating \$100.00 to Amsat.

Amsat-Oscar B will contain a repeater similar to the one aboard Oscar 6 (144 MHz input, 28 MHz output) plus a 432 to 144 MHz transponder with 50 kHz band width. A launch opportunity during the first quarter of 1974 is hoped for. An orbit similar to that of Oscar 6 is planned and the expected lifetime of the Amsat-Oscar B is three years.

Larry Kaiser, VE3QB, of Ottawa, is building a large part of the electronic equipment to be contained in the satellite.

### International Radio Teletype

There is a move afoot to organize the Amateur radio teletype groups of the world to work together for the benefit of world-wide RTTY. A great deal of preliminary work is being done and the language barrier forms a problem to the over 12 Groups at present involved.

Please inform any RTTY Groups contacted on the Green Keys of this pending amalgamation and request that they get in touch with "C.A.R.T.G.", 85 Fifeshire Road, Willowdale, Ontario, Canada, or The Florida RTTY Society Inc., 3039 Mango Tree Drive, Edgewater, Florida, USA, 32032. The aim is to exchange views, news and technical articles and everything pertaining to the RTTY mode.

(Credit RTTY news)

### HF CLICHES GO FM

A real eye-opener, or ear-opener, is to listen to a taxi radio net. THAT is smooth operation. No shouting in the mike, in the old AM HF mobile fashion and quick, clear traffic passing.

The transposition of HF band cliches to FM makes them even more redundant, if not ludicrous. The FM listener is left wondering at repetitious calling and the use of the "Q" code (I QSL) your message) being used on such solid RT as on FM repeaters. "Roger" or "Wilco" would seem to be quite sufficient.

Phrases which also seem popular but which are mystifying: "Take care!" (of what?). "No problem" (lucky fellow).

The long-winded and almost tearful farewell after three minutes conversation, "very best 73's and thanks for the QSD, and we will see you a little further down the log" (what are they? Wood termites, maybe?). All this is to a guy who lives just across town and who the sentimental will hear, if not see, at least once or twice a day in the next week! Why not just "Good night Jack, VE3XX out."? Yes sir, there is a lot to be said for the old Service R/T procedure when "out" meant the end of a series of transmissions but still listening and "off" meant just that—switching off the rig. So, 10-4" fellows.

VE3CDC (Credit Ottawa Groundwave)

### A WORD TO THE WISE (CLUB EXECES.)

The problem of communicating with Amateur Radio Clubs could be eased if their first move upon organization would be to obtain a post office box.

Too often clubs do not obtain vital information because the club mailing address is that of a club official, usually the secretary who changes from year to year.

Eventually the mailing lists used by provincial and this Federation become out-dated and clubs miss getting important news and official information.

If your club does obtain a P.O. box, please inform your provincial society and send a copy to CARF, Box 356, Kingston. If you wish to use a club official's address, notify both of the above of any changes.

### THE AMATEUR'S ENCYCLOPEDIA

One of the most brilliant radio inventors of the pioneer days was Reginald Fessenden. A Canadian, born in the Eastern Townships of Quebec, who, although he worked mostly in the United States, never forgot his native land and in later years when radio became a commercial business worked in the interest of protecting Canada's share in it. It is little known that he made the first radio telephony broadcasts. In fact, using an Alexanderson alternator, a mechanical rotating device which created continuous radio waves of low frequency, on Christmas Eve, 1906, he broadcast a program of music and speech. The first listener's were ships operators on the North Atlantic who responded enthusiastically to this innovation. It is hard to believe but it was nearly two decades before any serious commercial interest was shown in radio broadcasting and its full potential realized.

The mic., wrapped in asbestos, was in the many-kilovolt antenna circuit!

Fessenden's search for a detector which would receive voice modulation resulted, in 1903, in the following weird-o entitled an "electrolytic detector". This consisted of a fine platinum wire, coated with silver and dipped into a dilute acid solution. After the acid had destroyed a short length of the silver coating, the platinum wire was withdrawn from the acid, allowing surface tension to form a meniscus between the acid and the wire. A flow of current from a battery to which the detector was connected would cause gas to form at the end of the wire. The delicacy of the device made for extreme sensitivity, but its use at sea was limited because of the ship's roll in heavy weather.

An inventor, like a prophet, is seldom honored in his own country. Believe it or not, the only mention of the name Fessenden in the Encyclopedia Canad-ianna is that of Reginald's mother. She founded the famous Canadian women's organization, the I.O.D.E. (Independent Order of the Daughters of the Empire)!

(VE3CDC Credit Ottawa Groundwave)

### EDITOR'S NOTE:

Due to difficulties beyond the control of the Editorial Staff and the unexpected influence of Murphy's Law, the Glenwood Trading advertisement slated for the October issue was not printed in that issue.

The advertisement appears in this issue on page 10.

### Ontario ATV Association

George Davis, VE3 BBW and Tom Atkins, VE3 CDM, have formed the Ontario Amateur Television Association—club call VE3 XTV—to encourage and help more Amateurs get started on ATV and to provide a forum for the exchange of ideas and information. The OATVA will also promote the acquisition of equipment at reasonable prices and practical experimentation in this mode.

The Association plans to hold informal weekly round-table discussions on 75 meter SSB; (frequency 3785 kHz, Fridays at 2030 EST) using the call VE3 XTV, starting in November. At the same time, test transmissions of fast-scan TV will be made on 439.25 MHz, simplex, using horizontal polarization. All Amateurs interested in developing A5 capabilities are asked to join in the discussions with comment, suggestions and questions.

### SHORT AND SWEET

In order to save time and space, amateurs can reduce their language to such abbreviations as TX, RX, etc. These are well-known, but as the state of the art progresses, many new terms appear and are invariably shortened to initials or acronyms. In the September issue, Jack, VE7CAM, asked for a list of common terms appearing in this and other amateur publications, so here it goes:

- DOC — Dept. of Communications
  - MOT — Ministry of Transport
  - IARU—International Amateur Radio Union
  - FAX — Facsimile receiving and transmitting apparatus.
  - GRS — Generat Radio Service (known more popularly by its U.S. title of "Citizen's Band").
  - RSO — Radio Society of Ontario — for other Society abbreviations look in the masthead — from east to west they are SONRA, NSARA, NBARA, ARL of PEI, RSO, ARLM, BCARA. SARL (Sask. Amateur Radio League) and RAQI (Radio Amateur de Quebec Inc.) hopefully will appear in this list in the future.
  - SSTV — Slow Scan television
  - CARF — Canadian Amateur Radio Federation Inc.
  - ARRL — American Amateur Radio League Inc.
  - SCM — Section Communications Manager (an ARRL officer)
  - EC — Emergency Co-ordinator (ARRL appointee)
  - AREC — Amateur Radio Emergency Corps (an ARRL sponsored organization)
  - CANADX — Canadian DX Association
  - CRAG — Canadian National Repeater Advisory Group
  - CARTG — Canadian Amateur Radio Teletype Group
  - SASE — Self-addressed, stamped envelope
  - AES — Amateur Experimental service (Canada)
  - ARS — Amateur Radio Service (U.S.A.)
  - RTTY — Radio Teletype
  - CEMO — Canada Emergency Measures Organization (a Federal planning and co-ordinating agency)
- Any more? Let's have them.

D. Burrell, VE3 CDC

### MORE ON INTERFERENCE

The other day, when I was making one of my pilgrimages to the radio store, I was accosted by one of the club members, "Just the man I want to see" sez he. I gulped and made a rapid check through my memory bank to see if he was one of my creditors. No, I didn't owe no one nuthing! So I smiled and returned the greeting.

Now this poor soul had a problem, he was getting interference on his mobile rig. Unfortunately, I was in a great hurry (I really was, believe me) so we didn't have a chin wag, but he did have time to say that the interference varied with the speed of the car engine, so I suggested a filter on the generator, and went on my way. Perhaps what I have to say in the next few lines will help him or other poor souls who may have come up with similar problems.

Many cars nowadays have alternators followed by bridge type rectifiers. These rectifiers are of the SILICON type, which have two good advantages over other types such as SELENIUM or GERMANIUM, namely they will operate at high temperatures and they offer a very high resistance to the current flow in the reverse direction. But they have disadvantages that they do not conduct appreciably in the forward direction until the voltage across them exceeds about 0.5 volt, then they "switch on" rapidly. It is this rapid switching on and off (actually the switching off, because the inductance of the circuit prevents the current from increasing too rapidly), which SHOCK EXCITES nearby circuits into oscillation at their natural frequencies and so cause interference to be picked up by radio receivers.

The simplest way to tackle this problem, at least on paper, is to connect small capacitors directly across each rectifier. There are some old radio engineers around who have done a lot of work on trouble shooting interference, and they are convinced that you don't stop interfering radiation, you just change it to some other frequency where it does not bother you. And this is just what you are doing when you tackle SILICON RADIATION; you just keep trying different sizes of capacitors until you find the one that reduces the interference to a minimum.

The trick is to take an educated guess and then work systematically. You could start with a 0.0001 mfd. Remember now, patience is a virtue.  
(Credit Bob McQuay, VE1SB, Loyalist City ARC)

### TO PUNCH OR NOT TO PUNCH?

The Dodge Colt has a solution for those chicken individuals who worry about punching holes in their cars for the antenna mounts. The trunk opening rim and the lid both have rubber weatherstrip gasketing and the latch and hinges are isolated by rubber and nylon bushings and fittings. By attaching the receiver antenna lead to the ungrounded trunk lid, you have an antenna system. It might be fun trying to load it with a transmitter. Any red-blooded experimenters willing to try it?

### DX EXPEDITION AROUND SOUTH AMERICA

An ambitious DX expedition combined with a road trip around South America is being readied by Dave Halliday, of Ottawa. Dave is taking his XYL and two children for an 18-month jaunt in a specially-fitted camper, including an HF rig to be operated under the call VE3SAX.

Dave's venture is called CASAX '73 and he has a Club in Ottawa to back him up on his preparations and travels.

The trip south from Ottawa is planned for some time in late November and schedules are now being arranged. Dave plans to travel clockwise around the southern continent and figures that crossing the Guyana Guiana areas will be the toughest.

Amateurs hearing Dave's call during the trip are asked to assist him in keeping contact with the base club in Ottawa.

### SEMANTIC ANTICS

by VE3CRL

The different meanings placed on spoken words or printed statements, by different observers, never cease to amaze and surprise us.

Many years ago, more years than we care to count, we belonged to the 7th Toronto Scout Troop, faithfully trudging week after week the several miles from the suburbs to West Toronto Junction to attend the Scout meetings. It was here that we were first introduced to the ease with which the human mind can be conned into hearing the expected, or the unexpected, rather than the actual.

The entire troop would be lined up in single file—you remember: "tallest on the right, shortest on the left. . .". Our genial Scoutmaster would then whisper some simple phrase such as "Mary had a little lamb", into the ear of the boy on the right which would then be rapidly whispered from boy to boy, right to left, until it reached the shortest member of the troop. The left end recipient would then shout out the message, "Humpty Dumpty sat on a stump", or some equally irrelevant translation of the original which he believed he had heard clearly.

What has this to do with Amateur Radio? Just this! In August your officers met with the President of the ARRL, Harry Dannals W2TUK. At this informal meeting the groundwork was laid for co-operation, wherever possible, in areas where such co-operation is in the interest of the individual Canadian Amateur. As a sequel to this meeting your President and the Canadian Director of the League issued a joint statement to Canadian Amateurs. It was then that the feedback started. The following are typical:

"We look forward to the eventual merger of the two organizations."

"What are you trying to do, sell out the Federation?"

What are the facts? Well, your Federation was born out of the desire of many Amateurs, supported by several of the provincial societies, to see Canadian Amateur Radio represented nationally and internationally, by an independent Canadian organization. Your directors and officers subscribe to this objective as a

solemn trust. The recent D.O.C. questionnaire results show that a majority of Canada's Amateurs also support the principle of representation by a distinctly Canadian body.

At the discussion with ARRL President Dannals, your officers opened the meeting by tabling the following objective of your national Federation:

"To be internationally recognized as the national Amateur organization of Canada".

The League was then asked if it would openly recognize the existence of C.A.R.F. as the national organization. We also asked if any advice, support and co-operation could be expected from the League.

President Dannals recognized the desire of Amateurs in Canada and in other countries for strong independent national organizations. He then quite correctly pointed out that the principal duty of all organizations is to serve the best interests of the individual Amateur.

He also stated that the League was somewhat envious of the Federation's ability to rapidly disseminate important information across the country, via The Canadian Amateur, and the CARF news Releases and Bulletins.

On our part we felt obliged to acknowledge the assistance of the League nets, which together with CLARA and CARTG have been of great help to us in passing this information to the Amateurs of Canada. As a reciprocal gesture, we offered the services of The Canadian Amateur as a vehicle for the League to communicate with its Canadian field organization.

It was then agreed that the ARRL Canadian Director and your national President would issue a joint statement of co-operation which in effect confirmed the League's acceptance of the Federation's offer to handle Canadian division news, in The Canadian Amateur.

There was not, nor is there now, any question of a merger in the offing. Your national Federation is already recognized, de facto, as the "National Voice of the Canadian Amateur" by most countries.

C.A.R.F. is the only organization federally incorporated with the express object of representing the Amateurs of Canada.

Notwithstanding your Federation's established strong position as Canada's national Amateur organization, C.A.R.F. is prepared to co-operate with any organization when such co-operation is in the interest of the Canadian Amateur. Semantics being what they are, let's make sure that it doesn't come out at the far end of the line as something entirely different. "Humpty Dumpty sat on a stump" was not the correct message of long ago. "Merger", or "sell out" are not your Federation's messages of today,—or tomorrow.

**SECRECY OF CORRESPONDENCE** means nothing to the unscrupulous. With the availability of cheapie rice-burning VHF receivers to the general public our repeater and other frequencies on the two metre band are wide open to interception by nefarious characters. Mention or discussion of absences from your house, such as family vacation plans could mean a break-in and considerable loss of your worldly goods even, heaven forbid, the base station!



**ARRL COUNTRIES ADDITIONS**

Announcement is made of one deletion and two additions to the ARRL Countries List. The deletion is the present listing of Germany, the additions are the Federal Republic of Germany and the German Democratic Republic, effective September 18, 1973. Contacts before that date will be credited to Germany. West Berlin will be credited toward the Federal Republic of Germany listing and East Berlin toward the German Democratic Republic. DXCC credit submissions for the two new listings may be made starting December 1, 1974. Submissions received for these two new listings prior to that date will be returned without credit.

**CANADIAN RADIO REGULATIONS HANDBOOK**

The national Federation publishes the Canadian Amateur Radio Regulations Handbook, containing the 'official' interpretation of the Radio Regulations affecting Amateur Radio and much more valuable information on station licencing and operation. This Handbook is a "must" for any Amateur operating in Canada and can be obtained by sending \$2.55 by cheque or money order to C.A.R.F., Box 356, Kingston, Ont., K7L 4W2.

**THE CANADIAN AMATEUR**

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

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**AUTHORITY TO OPERATE IN THE U.S.A.**

The national Federation has copies of the F.C.C. 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 address envelope (marked U.S. FORM) to C.A.R.F., Box 356, Kingston, Ont., K7L 4W2.

**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 other countries is permitted.

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

**THIRD PARTY TRAFFIC AGREEMENTS**

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

**RECIPROCAL LICENCING AGREEMENTS**

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

**MONITORING STATIONS**

If you hear serious infractions of the regulations and wish to assist in tracking them down immediately, then phone your nearest DOC monitoring station, furnishing as much information as possible as to type of infraction, mode of transmission, frequency and time of observation and if possible, tape and record it.

Here are the numbers:

	A.C.	TEL. NO.
<b>British Columbia</b>		
Ladner (near Vancouver)	(604)	946-2715
<b>Alberta</b>		
Wataskiwin (near Edmonton)	(403)	352-5625
<b>Saskatchewan</b>		
Melville (near Yorkton)	(306)	728-5997
<b>Ontario</b>		
Acton (near Guelph)	(519)	853-2840
Thunder Bay	(807)	935-2561
Almonte (near Ottawa)	(613)	257-3552.
<b>Quebec</b>		
Senneterre (near Val D'Or)	(819)	737-4431
St. Lambert-De-Levis (near Quebec)	(418)	889-2552
<b>P.E.I.</b>		
Montaque (near Charlottetown)	(902)	838-2451
<b>N.W.T.</b>		
Fort Smith	(operator assist call)	872-3541



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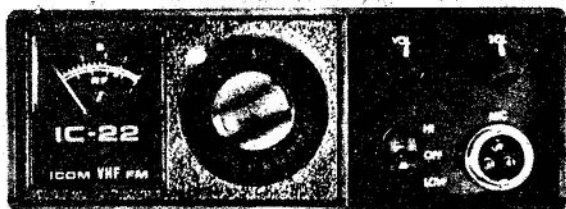
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700CX .....	\$699.00	Model 508-Ext VFO .....	\$199.00
117XC power supply/spkr ....	140.00	FP-1 Phone Patch .....	59.95
VX-2 VOX access. ....	44.06	NB-500 Noise Blanker.....	105.95
SS-16B - 16 pole filter.....	93.95		



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