



the canadian amateur



Volume Two

November 1974

Number Nine

AMSAT-OSCAR-7 launch successful

Three satellites were launched by a single NASA rocket from Vandenberg Air Force Base, California, on November 15.

Riding atop a Delta launch vehicle will be the fourth ITOS operational weather satellite, the first Spanish satellite, and a communications satellite built by an international organization of amateur radio operators.

The two-piggy-back satellites will be placed in nearly the same orbit as ITOS except that all three will be spaced away from one another.

The first Spanish satellite, INTASAT, was designed and developed in Spain to measure the total electron content of the ionosphere, including the annual variations by latitude. It will beam data to some 30 to 40 experimenters around the world.

The other piggy-back satellite is AMSAT-Oscar-7 (AMSAT-Oscar 7 in orbit) a communications spacecraft designed for experimental use by the world's amateur radio community. A U.S. non-profit organization, the Radio Amateur Satellite Corporation (AMSAT), subsystems for OSCAR 7 have been provided by four countries--Australia, Canada, West Germany, and the U.S.

This will be the third OSCAR launched by NASA. The last OSCAR, AMSAT-OSCAR-6, launched in October 1972, (piggy-back on an earlier ITOS launch) is still in operation after two years, and has been used by some 2400 radio amateurs in 87 countries. OSCAR satellites are the only type designed for free access internationally.

Two of the AMSAT command stations are located in

Canada, Washington, D.C., Los Angeles, California, Newington, Connecticut, one in Ottawa, and one in La Macaza, P.Q.

AMSAT-OSCAR-7's onboard systems include two communications transponders (one with a downlink frequency of 29.5 MHz and the other with a downlink frequency of 145.95 MHz) and, two radio beacon experiments (435.1 MHz and 2304.1 MHz), as well as redundant command, telemetry, and power system components. The expected lifetime of the satellite is three years.

CARF PRESIDENT CHOSEN AS AMATEUR OF THE YEAR

Art Blick, VE3AHU, your Federation president was presented with the "Amateur of the Year" award by the Radio Society of Ontario at its October 26-27 convention in Hamilton. Len Sumner, VE3DOR made the presentation speech and Art received a standing ovation from the 600 Amateurs in the banquet hall.

COMMENT DATE ON GRS AND VHF RX REGULATION CHANGES EXTENDED

The DOC, at the request of your Canadian Amateur Radio Federation, has extended to December 15, 1974, the closing date for comments on the proposed changes to the General Radio Service (GRS/CB) regulations and the regulation concerning the licensing of receivers capable of receiving 138 MHz and above.

The proposals would permit hobby and skip operation by GRS permit holders. The other change would remove the requirement for licensing certain receivers with 138 MHz and up capability, notably the popular "rice-box" variety, selling for \$25.00 and up.

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- New Brunswick Amateur Radio Association
- Radio Society of Ontario, Inc.
- Amateur Radio League of Alberta
- Amateur Radio League of Manitoba
- Saskatchewan Amateur Radio League

From the Front Office

The concept of an independent, national Amateur organization based on consultation prior to representation and the supply of information to all concerned, is no longer a dream nor a hypothesis. The Canadian Amateur Radio Federation is a fact and has strong roots. From a meagre beginning, with birth pains that should have seen an end to its existence, your National Federation has grown slowly, but with purpose, exhibiting stubborn tenacity in attaining its objectives.

Your national Federation has created a new awareness and a new concept of the Canadian Amateur Experimental Service. Several problem areas are yet unresolved but continuing, growing support of CARF gives confidence that the doubts and questions posed by many Amateurs are being overcome. Certainly the element of survival has been mastered and the development of an increasingly solid base is the present objective.

Many Amateurs have requested changes in the present administration that would enable the individual to play a more distinct and representative role in the conduct of the affairs of Canada's national society. Several plans have been put forward and the national executive, in consultation with the provincial members, will consider their respective merits for adoption. It is apparent that the individual member desires the opportunity to elect an Area Director to directly represent him or her and this would be the first step taken.

Membership in the International Amateur Radio Union will see an increase in the responsibilities and activities of the provincial societies. Management of the provincial QSL bureaus would be an initial requirement followed by involvement in traffic handling, emergency communications, auto-repeaters, etc.

Many Amateurs have strong views on how best the future administration of their national organization can be effected. To assist your national executive in their deliberations, please discuss your ideas and viewpoints with other Amateurs and let us know how you feel we should progress.

SUMMARY REPORT OF THE 1974 ANNUAL MEETING

The meeting was attended by the national executive and the Delegates for SONRA, NSARA, NBARA, RSO, and ARLM.

The meeting began at 0900 hours with the President, Art Blick, VE3AHU, in the chair and the Secretary, Ken Rolison, VE3CRL, attending to the administrative details.

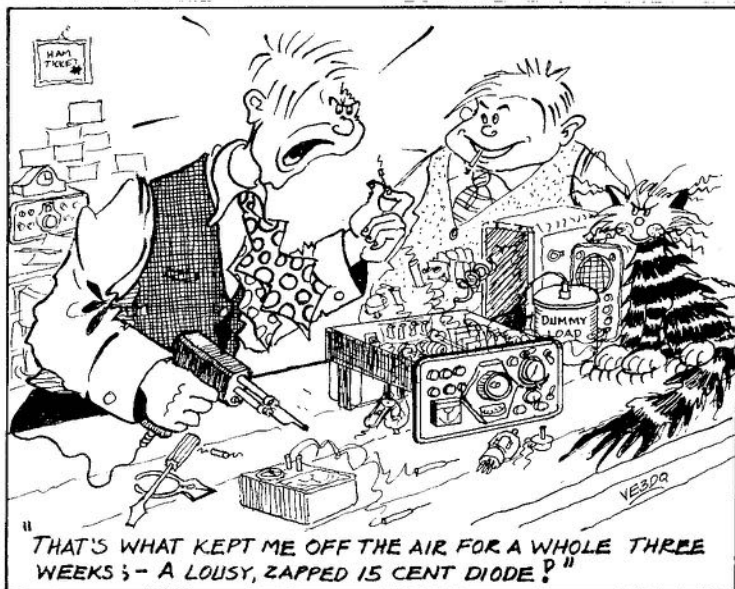
TREASURER'S REPORT: In brief, the finances are in excellent shape with the Federation operating from an increasingly strong financial base.

BUSINESS ARISING FROM THE PREVIOUS MEETING The call VE3VCA has been assigned to the Federation for general use as a national bulletin station. The Secretary holds the licence and reports much interest shown when the station is on-the-air.

CARF NATIONAL QSL BUREAU: Volume of QSL cards handled has been heavy and is steadily increasing as more countries are forwarding QSL cards to the one central

[Continued on Page 9]

SHORT-CIRCUITS



A NATION OF COMMUNICATORS

Some interesting facts related to broadcasting coverage and reception in Canada:

Did you know that there are more than 20 thousand Canadians directly employed in the production and distribution of radio and television broadcasting? At the commencement of 1973 there were 384 radio broadcasting stations and 77 television stations operating in Canada. Nearly 90 per cent of the radio stations and 73 per cent of the television stations were owned and operated by private interests serving community, regional and national audiences.

Did you know the publicly owned Canadian Broadcasting Corporation through its 41 powerful radio broadcasting stations, 21 television stations, and numerous affiliates and relay transmitters, has the greatest geographic coverage of any single Canadian network? Its French and English networks provide news and entertainment to an estimated 98 per cent of Canada's population. With the launching of the communications satellite Anik in 1972, and more recent engineering developments, the coverage will approach 100 per cent.

FM broadcasting service is rapidly evolving and there are now over 100 FM broadcasting stations in Canada. Sixty-seven per cent of Canada's households now have one or more FM radio receivers.

Did you know that radios travel with Canadians? Nearly 70 per cent of the households have one or more automobiles equipped with radio receivers and in 1973 there were in excess of four million households with one or more of the highly-portable battery-operated or transistorized radios.

Did you know that in the 10 provinces of Canada, there are more households with television sets than telephones? In 1973, 95 per cent of the households had one or more TVs.

Did you know that the number of households with colour television sets has doubled within the last three years? Over 33 per cent of Canada's households have one or more colour television sets.

NEW U.S. FREQUENCIES FOR RADIO MODEL CONTROL

Amateurs who operate models using 27 mHz equipment will be interested to know that the FCC in the U.S. has proposed phasing out model control on 27 mHz and to utilize five 20 kHz channel just below the six metre Amateur bands; from 49.91 through to 49.99 mHz.

The DOC is watching this FCC Docket 20119 and if it goes through in the U.S. and there is a demand in Canada to use the inevitable new U.S. equipment, which in the U.S. would also include toy hand-talkies and other unlicensed portables, it may be given some serious thought in Canada.

One benefit of an Amateur license to radio control hobbyists in Canada is that there are already relatively interference-free frequencies for model control in the Canadian Amateur and other bands. Amateurs may use 40.66 to 40.70 mHz or 890 to 940 mHz or 2450-2500 mHz with up to five watts. These frequencies are for industrial, scientific and medical purposes and model control use is dependent on department permission to the individual Amateur. As well, the operation of radio controlled models is permitted in all authorized Amateur bands above 53 mHz. All of the foregoing in addition to the 26 and 27 mHz spot allocations in the GRS band in Canada.

REGION 3 CONFERENCE

A conference of Region 3 societies will be held at Hong Kong between 4 and 13 March 1975. The host society will be Hong Kong Amateur Radio Transmitter Society. The theme of the third Region 3 conference is "World Administrative Radio Conference, Geneva 1979".

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Canadian Repeater Advisory
Group

NEW REPEATERS

There is a new repeater in Alberta on 6.28/6.88 located at Rocky Mountain House. The call sign is not available at press time.

CHANGE FOR NOVA SCOTIA

Blomindon repeater, VE1AEH is back on the air again (6.58/7.18).

THE ULTIMATE IN HIGH LOCATIONS

The ultimate in height for "earth" repeaters is being designed for Iran with commercial balloon-borne systems anchored at 10,000 to 15,000 feet altitudes to cover most of the country.

World War II flying types will no longer shudder at the recollection of barrage balloons which this scheme instantly brings to mind!

CHANGES TO REPEATER DIRECTORY

Ingleside, Ont. (16/76) new call is VE3SVR.

Lloydminster repeater, VE5FN, is not on air. Call is listed as private simplex station.

VE2ZO, Montreal ARC, is now VE2BG.

The Saskatchewan ARL VHF Committee met recently and has recommended the adoption of the Canadian two-metre channel plan. Liaison has been effected with the Mid-West CANAM Repeater Council in Manitoba and with some US repeater groups across the border. The Committee recommends 146.52 as a simplex frequency for their area.

INTERMODULATION INTERFERENCE

The increase in the numbers of repeaters and the limited number of channels available on two metres presents a headache for frequency coordinators on repeater councils and committees. This problem is a result of the various products of combinations of input signals occurring in a given area which will create another frequency the same as that used by one or more repeater (or simplex) receivers in that area.

VE3AZY, Colin Rowe of Ottawa has devised a computer program which has printed out every pair of frequencies in the 2-metre repeater band which will combine to form a third or fifth order product frequency (intermod), which can produce interference with standard repeater inputs and simplex channels.

The basic information is being provided to CRAG correspondents (repeater councils and VHF committees) and specific print-outs may be obtained from crag through them at a minimum nominal fee of \$1 for complete print-out sheets for one or two frequencies. Data for specific additional frequencies are obtainable for 50 cents each. Data is available for each standard 30 KHz channel from 146 to 148 KHz.

Any individual or group considering a repeater would be wise to contact the repeater council, committee or other CRAG correspondent in his area before deciding on a two-metre repeater channel. The intermodulation print-outs are available, as noted, through one of the following CRAG correspondents:

BRITISH COLUMBIA
David Powell-Williams, VE7MQ
Technical Director,
BCFM Comm. Association,
6023 S.E. Marine Drive,
Burnaby, B.C. V3N 2X8

ALBERTA
Jim Upright, VE6ATA
VHF Comm. Chairman,
Amateur Radio League
of Alberta,
7007 Huntridge Road,
Calgary, Alta. T2K 4Ae

ONTARIO
George A. Davis, VE3BBW
Chairman, VHF Comm.
Radio Society of Ontario,
1 Longhope Place
Willowdale, Ont.

John Clarke, VE3KE
Chairman, St. Lawrence
Valley Repeater Council,
Mountain, Ont.

QUEBEC
Ian Hodgson, VE2BEN
Chairman, Greater Montreal
Repeater Council
296 Malcolm Circle
Dorval, P.Q.

Jules Provost, VE2BDM
Chairman, RAQI
VHF Committee
P.O. Box 23,
Montreal, P.Q. H3C 1C5

NEW BRUNSWICK
Claude Bailey, VE1HU
International Repeater Group,
P.O. Box 398,
Fredericton, N.B. E3B 4L9

Ron Hesler, VE1SH
VE1RPT Repeater Assoc.
Sackville, N.B.

NEWFOUNDLAND
Ben Collins, VO1FN
SONRA VHF Representative,
c/o P.O. Box 1226,
St. John's, Newfoundland

NOVA SCOTIA
Don Bower, VE1AMC
Nova Scotia VHF Assoc.
P.O. Box 403,
Bedford, N.S.

P.E.I.
W. Stewart Smith, VE1ZM
8 Falconwood Road,
Charlottetown, PEI

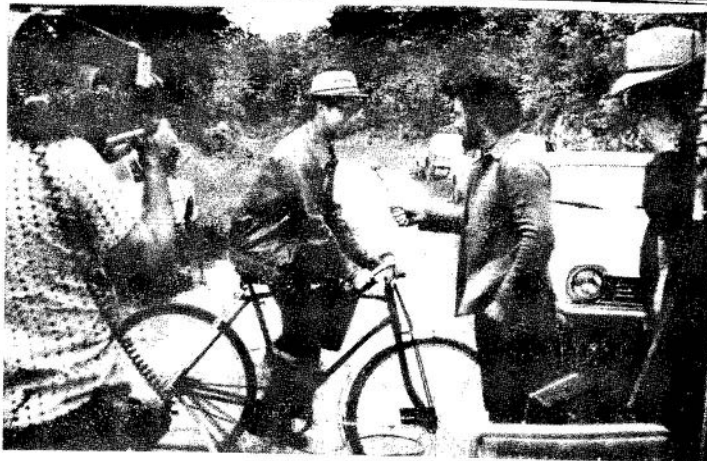
NEW RSO PRESIDENT ELECTED

Lorne Doreen, VE3SZ, Ontario Director for the Canadian Amateur Radio Federation, is the newly elected President of the Radio Society of Ontario, Inc.

He received his present call in May, 1933, and then obtained a Commercial certificate and was radio officer on shipping before and during the early part of the war. He then flew as Radio Officer with the R.A.F. Ferry Command for over four years.

Lorne operates SSB and CW on all bands and also 2 metre FM from the home station and 75 and 2 metres mobile.

He lives in Deep River and is with the Radiation Safety Branch of Atomic Energy of Canada at their Chalk River Nuclear Labs.



SCIENTISTS' FIELD DAY 60 DAYS

A small group of enthusiastic amateur radio operators who work at the Communications Research Centre and Department of Communications headquarters racked up an impressive 901 contacts with other stations during Field Day 1974.

Led by Dr. Jack Belrose, VE2CV, of CRC's radio research directorate, the CRC "hams" carted high frequency and VHF radio equipment, emergency power generators, antennas and plenty of insect repellent to Gatineau Park, just north of Ottawa.

Dr. F. D. Green, VE3IO, and Dr. Jules Lebel, VE3EHU, earned the CRC station extra points with a unique "natural power" source; an old automotive generator turned by a bicycle wheel.

CRC's Jules Lebel, VE3EHU, (pedalling) explains uniquely-powered ham radio set-up to a CBC-TV reporter, while VE3IO, Fred Green (right) makes contact with a fellow amateur in Renfrew, 40 miles away. The rear wheel of the bike turned an old automobile generator, providing sufficient power to operate the VHF transceiver.

NEW IARU MEMBER

The Radioklub of the German Democratic Republic has been elected as the 87th member of the IARU worldwide. The headquarters of the Radioklub der DDR is Hosemannstrasse 14, 1055 Berlin and the General Secretary is Gerhard Damm, DM2AWD. An invitation has been sent to the Radioklub to become a subscribing member society of the Region 1 Division.

DOC NEWS

MEXICO/CANADA RECIPROCAL AGREEMENT

The Federation has been advised by the Department of Communications (Oct 16) that the Mexican authorities have informed the Department of External Affairs that they do not wish to establish a formal Amateur Reciprocal Operating Agreement with Canada. It is also External's belief that, for the foreseeable future, Canadian Amateur radio operators temporarily resident in Mexico will not be permitted to operate their stations by the Mexican authorities.

In view of the above, Mexican nationals temporarily resident in Canada will no longer be authorized to operate their Amateur radio stations.

RAQI DIRECTORS MEET WITH CARF OFFICERS

At the kind invitation of the president of Radio Amateurs de Quebec Inc., Jean Louis Tetrault, the president, vice-president and Emergency Communications Committee chairman of the Canadian Amateur Radio Federation met with the directors of RAQI at their meeting in Montreal on September 28 to discuss the matter of RAQI joining the Federation.

Art Blick, Doug Burrill and Ron Belleville (VE3AHU, CDC and AUM) held informal discussions with the executive over lunch and then spoke to the RAQI directors and answered questions for an hour at the first of the meeting.

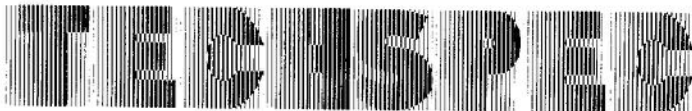
As a result RAQI is appointing a committee to study all aspects of membership in the Federation. The committee will correspond and meet with a committee to be named the Federation, in order to iron out details and to obtain the information on the Federation RAQI wishes to place before its directors and members.

NEW DOC OFFICE OPENS IN YELLOWKNIFE

The Department of Communications opened a new office in Yellowknife, NWT, on November 1, 1974.

The Yellowknife office will accept applications for radio station licences, including Amateur certificates and licences, and will investigate reports of interference to communications. The existing Fort Smith office provides similar services and, in addition, includes high frequency direction-finding equipment for monitoring the frequency spectrum.

The new office will be managed by Ian Macdonald with three radio inspectors.



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ONTARIO NEWS

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canadian capsule comment

GROUNDWAVES (WINDSOR)

I'm sure everyone is familiar with the age-old problem of seeing whether or not a piece of gear is less expensive by buying it in the U.S. or Canada. Much time has been spent comparing catalogues and price books from both countries, and hopefully with the chart below it will be easier to tell how much extra you will have to pay. The tariff item numbers are given to help eliminate long delays at the border, especially when the appraisal book is not hand for the officer.

All duty is compounded, in other words 15 per cent duty plus 12 per cent Federal Tax works out to 28.8 per cent total. A word to the wise: If one is caught smuggling goods in his car, the fine is as follows. You get charged for the appraised value of the goods plus twice the duty and taxes one would normally pay, that is if the total duty is over \$20.00. If it is below \$20.00 then you would probably be charged the normal duty with a strong warning.

EQUIPMENT	TARIFF #	RATE OF DUTY	FED. TAX
Antennas	44533-1	15%	12%
Xmtrs, rcvrs, xcvs	44533-1	15%	12%
crystals	29706-1	10%	12%
Microphones & Stands	44536-1	7½%	12%
Tubes	44542-1	15%	12%
Transistors	44544-1	15%	12%
VTVM, VOM, Scope, meters	44532-1	7½%	12%
Antenna Rotators	42700-1	15%	12%
Transformers	44514-1	15%	12%
Speakers	44540-1	15%	12%
Batteries	44512-1	17½%	12%
Antenna Coax & lead-in	44533-1	15%	12%
Earphones	44533-1	15%	12%

IN APPRECIATION

RAMBLER (OTTAWA)

Many thanks to Vic VE3DEP, Joe VE3BAD and Bernie VE3SH for their assistance in removing the tower, rotator and 3 element beam from the QTH of the late George Lafleur, VE3LG. The will stated that this equipment was to be given to a local deserving blind radio amateur. VE3GX was asked to make this selection and Bob VE3EEK and Milly VE3ETT La Rose were chosen. Bob has the necessary hole dug and the erection will take place in the near future. Incidentally Joe, VE3BAD is Bob and Milly's hard working sponsor.

OTTAWA HAMS HELP

A group of Ottawa amateurs recently gave up a weekend of their time to provide communications for the search for a drowning victim. Boats, cars, a helicopter and foot patrols were equipped with 2-meter gear and used to search about 15 miles of the Gatineau River and its shores, near Wakefield, Quebec. Operating mainly on 146.52 MHz, with occasional use of repeater VE2CRA for contact with Ottawa, the network allowed careful coordination of the search parties. A group of GRS people participated in the operation and cooperation between the groups was excellent.

The search lasted Saturday and Sunday, and on the following Tuesday, a helicopter and a boat, both with 2-meter gear aboard, made a final search. The victim was not found during the search, but was later discovered by some loggers on the river.

Participating were VE3's, EKS, GRJ, UD, ZS, LJ, EEU, GYz, BAP and CRX, plus VO2AH/3.

WRARC GARDEN PARTY

The third Annual Garden Party sponsored by the Wheelchair Roundup Amateur Radio Club took place June 15 at the Villa Private Hospital in Thornhill. Frank Bridkenden VE3EVU, Chairman of the Social and Visiting Committee welcomed over 100 amateurs and visitors, including about 40 members of the Wheel Chair Roundup ARC who came from several parts of the province. Richard Wood VE3ERW, this year's President thanked everyone for coming and asked Len Sumner VE3DOR to introduce the Villa Quarter, then Vince Mountford who sang some great old songs with Jack Ayre of the Orriginal Dumbells at the piano. Two lifetime memberships to the Wheelchair Roundup ARC were presented. The first to 86 year old Mrs. Mable Sumner, visiting here from Vancouver, and Jack Ayre who faithfully visits the Villa whenever he can. VE3 WCN welcomes everyone to check-in Monday to Friday at 7:30 pm on 3770 khz.

SASKATCHEWAN NEWS

PRINCE ALBERT HERALD

KUSHNERYK WINS TWICE

IN WESTERN CHAMPIONSHIPS

John Kushneryk (VE5ZM) of Prince Albert added further to his fiddling laurels in Red Deer, Alta., when he recently won the two events he entered in the Western Canada Old Time Fiddling championships.

Competing in the male and overall categories, Mr. Kushneryk topped a field of 22 top-rated musicians. He was accompanied by Frank Medve on guitar.

One of four judges for the championships was Buddy Knox, a noted recording artist.

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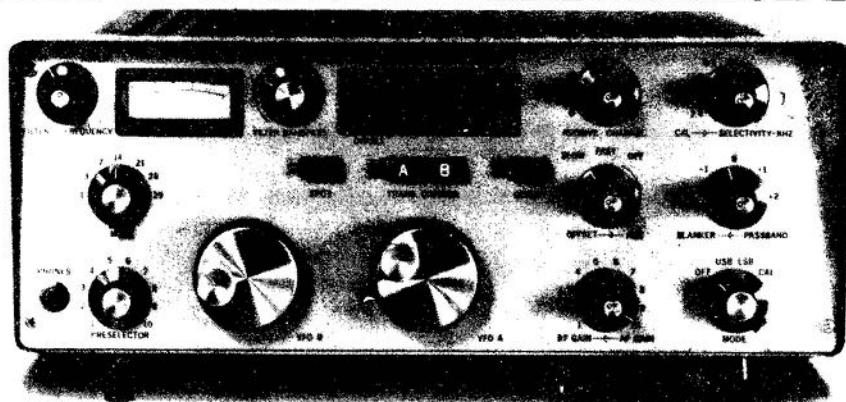
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SOUTH-EAST SASKATCHEWAN MINI-HAMFEST

Sunday afternoon, July 21, a group of amateurs, their wives, families and friends met on the lawn of Mr. and Mrs. Ray Brown in Windthorst.

There was no organized program, but a series of interesting discussions took place. Of course amateur radio in all its phases from the early days of radio to modern transistor sets was discussed, buy many other topics of interest were also aired.

A picnic lunch was shared in the shade of the trees, and enjoyed by all.

We would certainly recommend this sort of a group gathering of Hams; especially in the more remote areas where there are no amateur clubs. This is of course in addition to the regular Provincial Hamfest.

JAMBOREE REPORTS NEEDED

For all those stations which participated in the Boy Scouts 17th J.O.T.A. session 19-20 October 1974; don't forget to send in your reports, especially with photos to L. F. Jarrett HB9AMS Case Postale 78, 1211 Geneva 4. Switzerland.

B.C. DOES IT AGAIN!

The wide-awake Amateurs of our "Pacific Rim" latched on to the "New Horizons" program again to set up an Amateur club in Penticton. The Penticton Amateurs of the professional loafer crowd got together and got fourteen grand (\$14,000) from the National Health and Welfare Department's "New Horizon" program for retired Canadians.

Forming the Okanagan Aateur RAdio Society, the gang has got a completely equipped radio station and the first year's rent on some excellent premises all ready to go.

There is another group in Vancouver that has latched on to the federal funds and also one shaping up in Ottawa.

The "New Horizons" program is a fund-dispensing project which gives out bucks to sponsor recreational ideas for retired citizens. For further information write to "New Horizons" Department of National Health and Welfare, Developmental Programs Branch, Ottawa, Ont. K1A 1B3.

VE8 ACTIVITIES

VE8RA: Keeping the Shack warm with a new Henry 3-K.

VE8AH: Now signing from Mile 804 (Alaska Highway), Yukon Territory.

VE8NH: Temporarily QRT Hamming. Congradulations to Regan and his XYL on the new harmonic (a boy).

VE8CX: New tower and Yagi for 10-15-20m.

VE8MN: Just bought a 30 foot cabin cruiser and also a gem-quad tri-bander.

VE7AZ/8 AND VE7KC: Swapped QTH (again)

V 7/8CV: ARL fifty, ARL ninety three Queen Charlotte Islands (VE7).

DOC NEWS

The Department of Communications announce the following appointments of senior officials:

- Jean-Pierre Lauzon - Co-ordinator and Special Assistant to the Senior Assistant Deputy Minister
- Robert A Gordon - Director-General of Federal-Provincial Relations.
- Gilles Courtemanche - Director of the Atlantic Regions.
- K.T. Hepburn - Director-General of the National Telecommunications Branch.

WHEELCHAIR ROUNDUP

RICK HEDGES VE3GJI

On December 7th the W.C.R.U. are holding a Christmas Dinner and Dance. This year it will be held at the Richvale Lions Hall on Spruce Avenue (west off Yonge Street). All members are welcome and anyone wanting information please contact VE3VPH on the air or phone Colleen Lesperance at 889-0186.

The W.C.R.U. will again be selling Christmas Cakes and Cheese. The cakes will be selling for \$6.00 and the cheese will cost \$6.50. Anyone wanting to order, please contact any W.C.R.U. Net Controller.

We have another new recruit to the W.C.R.U. His name is Bill McElroy and he is a former member of Metro's Finest (Metropolitan Toronto Police). He has received his Certificate of Proficiency and is awaiting his Call. Bill has just finished building his own HW-101 and is chomping at the bit to get on the air.

SERVICE WITH A SMILE**NEWFOUNDLAND AMATEUR**

The following letter has been received from Miss Fifi Paree, Manager of the Seymour Nudist Camp for Girls..... Gentlemen;

I wish to express my sincere thanks to you for the excellent service your linemen performed last summer. It was explained to us that the transformer on the pole next to our swimming pool was of a special type that had to be dusted twice a day, oiled once a week, and have the bolts tightened every ten days.

A Mr. Watt explained to me that unless the transformer was dusted regularly, the dust would coagulate with the paint which would set up a chemical imbalance of the hydrofil and cause a great deal of trouble. I am happy to report that your line crew stopped every morning and afternoon and spent 15 minutes dusting the transformer.

While this operation was being carried on, a Mr. VOLT stood on top of the truck cab overlooking the 8 ft. fence around our camp and carefully warned the girls around the pool not to get too close to the transformer. Your crew was always very conscientious in making repairs. On one occasion a crossarm broke on the pole next to the tennis court where some of the girls were playing tennis. Nine men with three ladder trucks worked four hours to replace the crossarm. They had quite a little trouble making the repairs, as they would put up a crossarm, put a level on it, then unbolt it and install another. A Mr. SHOCK explained to me that unless the crossarm was absolutely level, the wires to the transformer would sag, the power flow would be uneven and as a result only half of the swimming pool would be heated while the other half remained cold.

Evidently we have a special type of meter by the swimming pool. The meter reader told us it had to be read twice a week by two men so that an exact average of power could be calculated. One of your meter men is rather clumsy, because during last summer, he fell over two lawn chairs, a picnic table and a garbage can while walking over to check the meter. I wish to thank you again for the wonderful attention your line crews and readers gave us this past summer. I have been assured that all the men will be on the job again next summer. I understand that this past summer two men gave up their summer vacation just to make sure that our electrical equipment worked properly.

Summary Report of 1974 Annual Meeting

[Continued from Page 2]

address for Canada. The Wheel Chair Roundup group enthusiastically welcome this demonstration of service to the Amateurs.

DOC LIAISON: A draft of the revised Canadian Amateur Radio Regulations Handbook has been submitted to the Editor CARF for publication. Expected date of printing is early December, 1974.

CARF has proposed to the DOC, and offer accepted, that the Radio Regulations pertaining to the Amateur Experimental Service be re-written and compiled in one section of the Radio Regulations. Art Stark, VE3ZS and Steve Chisholm, VE4AI, were appointed to administer the detail.

DOC examinations are being updated and printed for use in late 1974. The provincial executives are being canvassed re the conduct of examinations by selected Amateurs.

EMERGENCY COMMUNICATIONS: The Canadian Forces are considering forming a service that would use frequencies just outside of those allotted to Amateurs to be used primarily for transmission of Third Party Traffic, as defined for the Amateur service, from isolated forces Bases both inside Canada and overseas. Amateurs would be selected to work within this system under special licence. The meeting heartily approved Amateur involvement in this system.

Moved and approved that CARF set up a National Traffic Committee to work within the Canadian Forces system and to institute a Trans-Canada system that could handle newsletters, DOC releases and other length traffic that can not be readily handled by existing Amateur systems. The use of RTT was advocated and Frank Merritt, VE7AFJ, was appointed as chairman of an ad hoc committee to investigate the possibilities and to confer with CARTG.

Noted that CEMO was disbanded in May and EMO communications have been turned over to DOC, including reports on the formation of the Canadian Amateur Radio Emergency Service. No definite word on the future of CARES has yet been heard.

CRAG: Formed under the joint sponsorship of ARRL and CARF. Initially CRAG bulletins were sent directly to repeater licencees, etc., but now are contained in The Canadian Amateur due to costs and administration involved. Direct liaison between CRAG and its ARRL counterpart in the USA has been effected and has resulted in a free exchange of information and comment.

The response to CRAG has been excellent with BC, Alta, Ont and NS having first class repeater programs in effect. Other provinces are organizing provincial and area councils. Most repeaters in Canada are now on, or are planning to be on, CARF's national channel plan for two-metres (based on the ARRL plan).

MEMBERSHIP: Associate membership as of June 20 is 716, an increase of 156 for the preceding twelve month period. The meeting approved that a membership promotion campaign be started by forwarding an application blank plus a back issue of The Canadian Amateur to Amateurs as given in the listings supplied to CARF by the DOC and this campaign to be increased in scope as finances and administration permit.

PUBLICATION: The Canadian Amateur is now on full photo offset printing. Problems were encountered with the

supply of paper, but these have now been overcome. Costs have increased since January but indications are that these should remain steady for the time being.

A discussion followed on the lack of payment for subscriptions sent to Canadian ARRL officials and affiliated societies. Approval given that these subscriptions be discontinued forthwith with due notices to addressees.

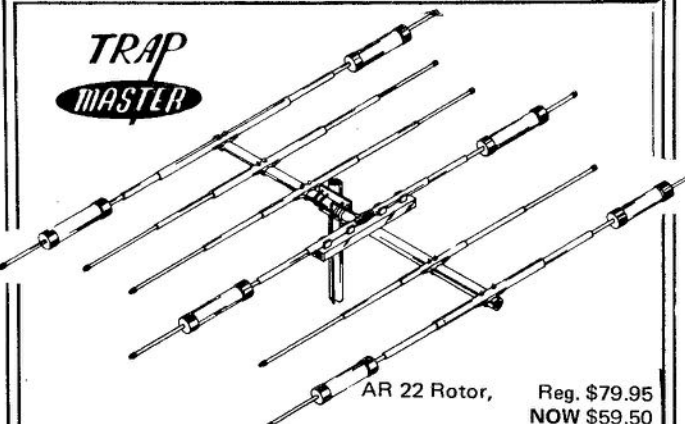
PROVINCIAL REPORTS:

ALBERTA: A query was made on the Honorary membership to C. Harris, VE6HM. Apologies were tendered by the chair for not going through the ARLA due to the urgent nature of the request.

There is a problem in Alberta with broadcast harmonic interference to Amateur activity in Edmonton, Medicine Hat and Lethbridge. CARF advised that the senior executives in the stations concerned be contacted. If no action results, then the local and regional offices of the DOC will be consulted. The national Federation stands ready to take up the complaint with DOC Ottawa if necessary. Noted that local universities should have the necessary facilities for accurate measurement of frequency, harmonic content, etc.

MANITOBA: ARLM suggests that a National Amateur Week be proclaimed in connection with the Manitoba Centennial celebrations in Sept.-Oct. 1974. Advised that the time is too short due to the impending federal elections, etc.

Action suggested for an annual week to be proclaimed in connection with an Amateur anniversary.



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ELECTION OF DIRECTORS: Stella Broughton, VE6VF, Mike Koval, VE1AJI, Steve Chisholm, VE4AI and Lorne Doreen, VE3SZ were acclaimed as Directors to hold office for the period Sept. 1, 1974 to Aug. 31, 1976.

The delegates approved the Board appointment of Frank Merritt, VE7AFJ, to fill in the unexpired term (to Aug. 31, 1975) of the late Jim Strain, VE3BSG.

NEW BUSINESS:

CARF has been invited to participate in the Calgary Convention, Aug. 1-4, 1975. Approved that the Federation bear the expense of the President attending the convention. The President will consult with the Calgary Convention Committee as to CARF's role in the convention, facilities available, forums, etc.

The present situation in British Columbia ARA was discussed. Noted that BCARA is now based on individual membership and that their present by-law states that BCARA will be a member of CARF.

Discussion on the CARF administrative practices with respect to DOC, in particular with the new procedures re submissions received by the Department. The deadline given in announcements made in the Canada Gazette may

not be suitable to gain comment necessary and the Federation will request additional time if found necessary.

Discussions on CARF's relationships with the ARRL. Relations are excellent, but relations with their Canadian Division still leave something to be desired. CARF is preparing a gradual takeover of certain of the ARRL functions in Canada and this should be presented to the ARRL Board of Directors in early 1975.

Discussion on the "Apprentice Class". From returns made to the CARF questionnaire to the provincial executives, there appears to be no general pressure for this type of licence. Noted that the Ontario Community Colleges now have night programmes in Amateur Radio and these have led to a significant increase in the numbers of Amateurs in the province.

A Vote of Thanks was given to Mssrs. Blick, Burrill and Rolison for their work in support of the Federation.

A Vote of Thanks was given to Glen Maddess of Glenwood Trading Company for his support and promotion of the Federation.

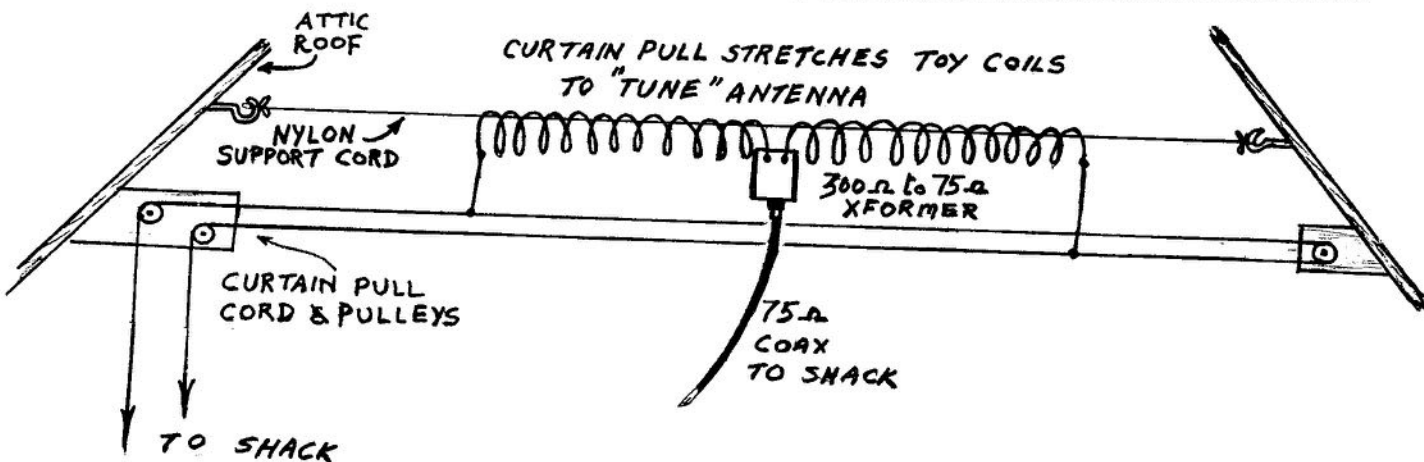
Meeting adjourned at 1640 hours.



Slinky: Tuneable Dipole

Jack Holman, VE1CP, Lepreau, N.B., is well-known for his unique engineering feats and experimentation and has carried out some intriguing variations on tuneable dipoles with two "Slinky" toys.

Jack bought a couple of these stair descending toys made up of flat coils of springy steel when he saw they would make a variable inductor. He manufactured the following arrangement out of curtain pull cords and the toys. It had somewhat of a matching problem and had a rather high SWR but it did get out and Jack had a lot of fun tuning it by stretching the Slinky coils by means of the curtain pull cord, which of course varied the inductance and the capacitance of the "antenna". The coils stretched enough for Jack to make a 75 metre dipole effect out of the arrangement.



ANTIQUE RADIO

CQ ANTIQUE COLLECTORS

An excellent and comprehensive exhibition showing the development of communication and telecommunications in Canada opened at the new Public Archives building in Ottawa on October 7, 1974.

Every conceivable method of communication from pony express to satellite is covered...with one glaring exception...you guessed it...Amateur radio. The printed program states that in some areas archival material was scarce. "For instance, despite the outstanding contribution of "ham" operators in the development of radio, no meaningful manuscripts of this activity are presently in the Public Archives of Canada".

How about it, you old-timers? Old logs, photos, station or operators' certificates will be welcomed by the Public Archives. As for artifacts, the Museum of Science and Technology has a modern radio station, VE3JW, but no old-time Amateur equipment.

Dig around the shack or old albums and see what surfaces. Donors may contact the Director, Historical Branch, Public Archives of Canada, 395 Wellington Street, Ottawa, K1A 0N3. For documentary donations and the Curator, Communications Technology, National Museum or Science and Technology, 1867 St. Laurent Blvd, Ottawa, K1A 0M8, or VE3CDC, Doug Burrill, CARF's vice-president, 151 Fanshawe Ave. Ottawa. K1H 6C8.

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AUTHORITY TO OPERATE IN THE USA

The national Federation has copies of the FCC Form 410. This form, properly filled out and stamped, is necessary for Canadian Amateurs to operate their equipment while in the United States. Send a self-addressed, stamped envelope (marked U.S. FORM) to CARF, Box 356, Kingston, Ont. K7L 4W2.



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.

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

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NEW ITU MEMBER

The Republic of Gambia become the 147th member country of the International Telecommunication Union by its accession to the Montreux Convention on 27 May, 1974.

NEW CALL SIGNS

The ITU has allocated the following call sign series:

A9A - A9Z — Bahrain

C4A - C4Z — Cyprus (Republic of)

H3A - H3Z — Panama (Republic of)

BANNED COUNTRIES

P.D.R. OF YEMEN VS A.R. OF YEMEN

There has been some confusion among Amateurs as to the permissibility of working Amateurs in Yemen. The confusion apparently arose due to the fact that there are two Yemens.

The People's Democratic Republic of Yemen has been allocated the call sign block 70A to 70Z and has notified the ITU that its Amateur stations - if any - are forbidden to conduct communications with stations in other countries. It is therefore ON the Banned List.

The Arab Republic of Yemen has been allocated the call sign block 4WA to 4WZ, and, in turn, have allocated the subblock 4W1 to 4W3 to its Amateur stations. They have NOT indicated that they object to their Amateurs communicating with stations in other countries. The Department of Communications has therefore advised that Canadian Amateurs may communicate with Amateur Stations whose call signs commence with 4W1, 4W2 or 4W3.

CANADIAN AMATEUR RADIO REGULATIONS HANDBOOK

Work on the Canadian Amateur Radio Regulations Handbook is nearing completion. Copies of the booklet will soon be available from the Canadian Amateur Radio Federation, Box 356, Kingston, Ontario.

A special advertisement in a future issue of the Canadian Amateur will herald the arrival of the handbook and orders will be promptly filled at that time.

BANNED COUNTRIES LIST

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

* - Stations XV5AA, XV5AB, and XV5AC have been authorized to exchange communications with Amateurs of other countries.

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

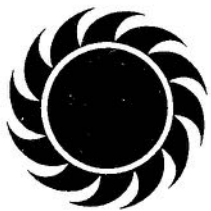
THIRD PARTY TRAFFIC AGREEMENTS

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

RECIPROCAL LICENCING AGREEMENTS

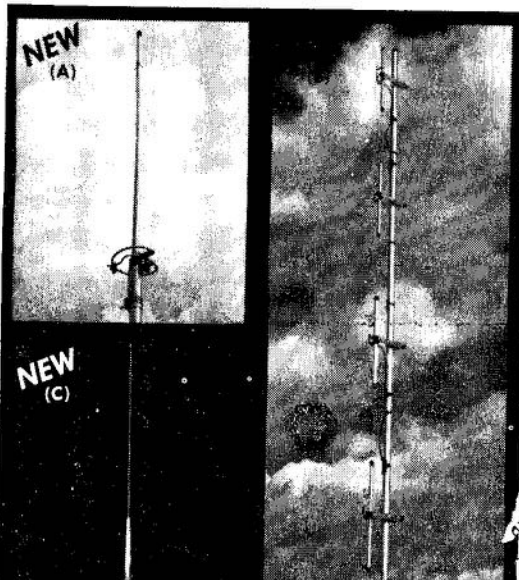
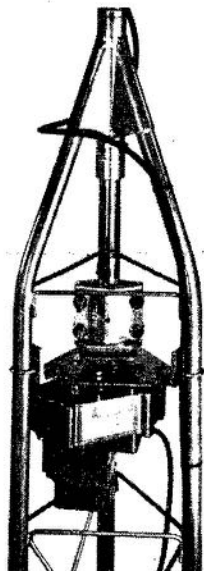
Belgium, Brazil, Dominica, Dominican Republic, France, Ecuador, Federal Republic of Germany, Guatemala, Israel, Peru, Luxembourg, Mexico, Netherlands, Norway, Nicaragua, Portugal, Republic of Panama, Senegal, Sweden, Switzerland, U.S.A., Uruguay, Venezuela and Denmark.

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

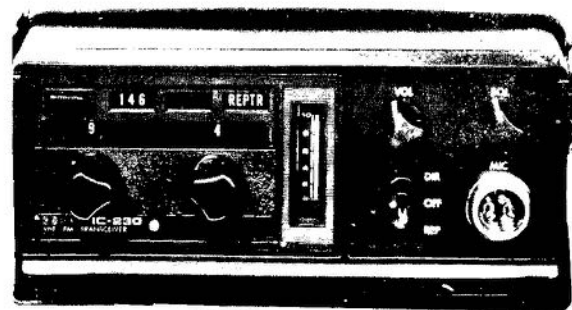
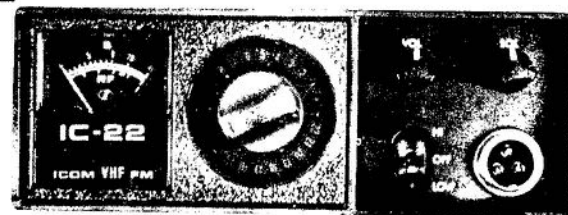


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