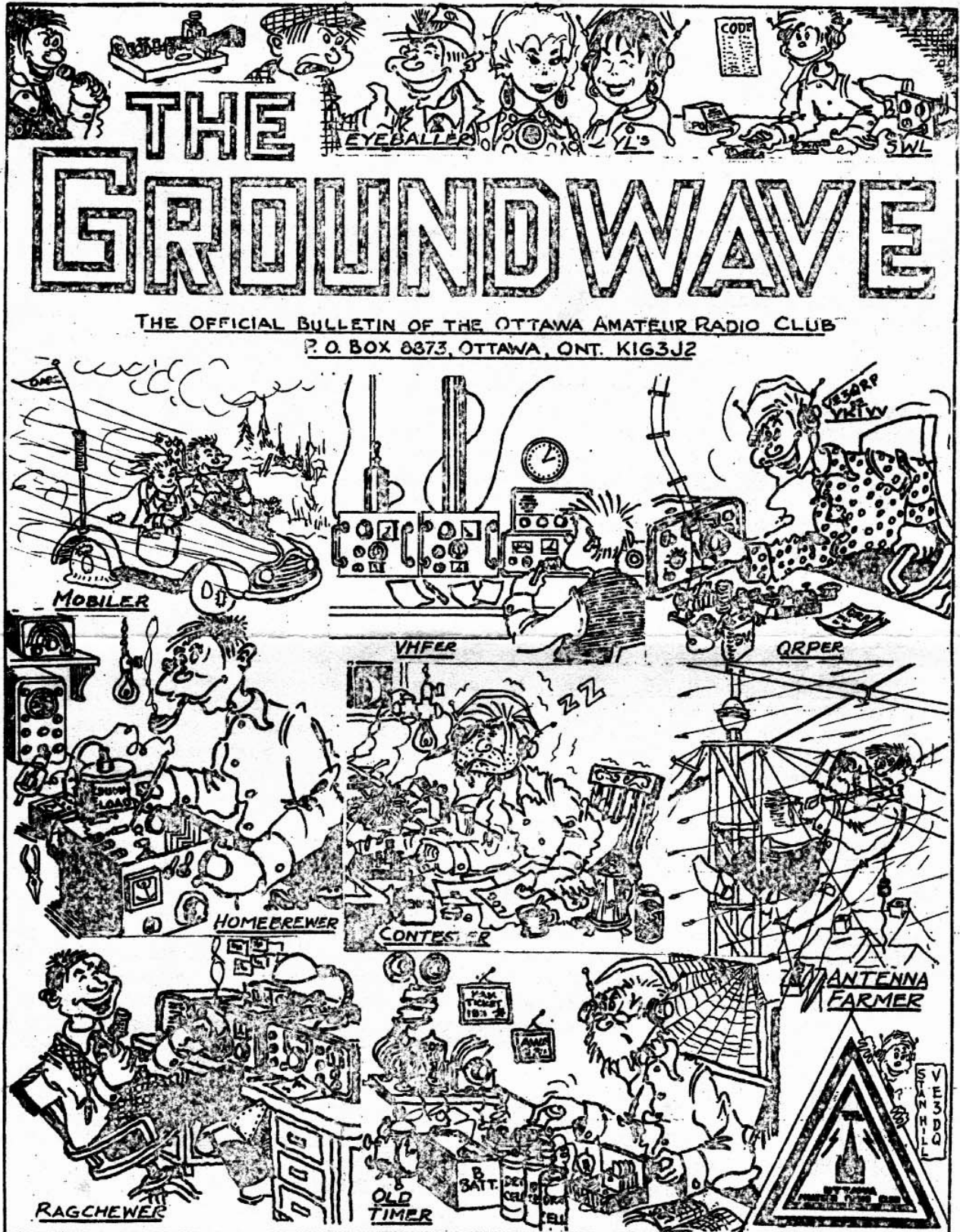


SEPT '75



1975 RSO CONVENTION - SKYLINE HOTEL, OTTAWA - OCT. 3 & 4, 1975

: THE GROUNDWAVE - OFFICIAL BULLETIN OF THE OTTAWA AMATEUR RADIO CLUB - SEPTEMBER 1975 :
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: -----

MATERIAL PUBLISHED HEREIN does not necessarily reflect the official viewpoint of the OARC. Items may be reprinted by Amateur Radio bulletins and newsletters provided that credit is given to THE GROUNDWAVE and any other source mentioned.

DEADLINE FOR COPY for the October issue of THE GROUNDWAVE will be September 13 for articles of length and September 20 for short paragraphs and announcements. All correspondence should be addressed to: Carl Everson, Box #4, Osgoode, Ontario, KOA 2WO.

THE NEXT REGULAR MEETING of the Ottawa Amateur Radio Club will be held at the National Research Council, 100 Sussex Drive, Ottawa, on Wednesday September 3, 1975 (not two days before the RSO Convention as reported in the last issue of THE GROUNDWAVE, but a whole month and two days before it) at 2000 hours (8:00 PM). The program agenda has not been finalized as yet but the ragchew coffeetime should be good for a lot of eyeball QSO's after all the summer activities. Be sure to ask President Ron about eating at McDonalds on his way home from the OARC picnic.

CODE AND THEORY CLASSES leading to an Amateur Radio Operator's Certificate will not be conducted this year by the OARC in view of the fact that an excellent course is being given by Gerry King, VE3GK, under the auspices of Algonquin College. Anyone interested in this course should contact: Continuing Education at Algonquin College, 725-7478.

A VISITOR to Ottawa during the summer months was Rolf Backstrom, OH2BEW, who was here from Finland attending a convention of the International Lightkeepers Association. Rolf is a well-known Ham in Finland and is quite active on the VHF bands there.

MEMBERSHIP CHAIRMAN VIC, VE3DEP, is looking for assistance with, or someone to take over, the membership roll. This is not too involved a job after the brief flurry of renewals at the new year and would be an excellent way for someone to get involved in Club activities. Remember, you only get out of an organization in proportion to what you put into it. The fellow who sits in the back row and just 'belongs' doesn't have to exert himself too much but he sure misses a lot of fun and comradeship.

THE SEVERAL OTTAWA AMATEURS who attended the Montreal Hamfest on August 3 report a very enjoyable outing and Ron, VE3AUM, has his sights set on the Moncton Hamfest on Labour Day weekend. We hope you're doing a good selling job boys!

THE QCWA NET, conducted by the National Capital Chapter, will re-open on Sept 6 after a quiet period during the summer months. This net meets every Saturday at 1100 hrs on 3760 kHz and is conducted by Ed, VE3GX. All members are encouraged to check in and non-members are invited to participate also. All Amateurs who have held an Amateur Licence for 25 years or more are eligible for membership in the QCWA. Further information may be obtained from the secretary, Hank Harley, VE3BR, RR#2, Orleans, Box #25, or phone 824-3895.

THE LAST OF THE GREAT RADIO PIONEERS is gone. Ernst Frederik Werner Alexanderson passed away on May 14, 1975 at the age of 97. Famous for the invention of the high-freq alternator which made trans-Atlantic R/Telegraphy possible, he was granted over 300 patents - an average of one every seven weeks during his career with GE. His improvements to Fessenden's HF alternator produced the 'standard' transmitter for HF high power transmission until it was superseded by vacuum tubes. His work with Harold Beverage produced an antenna which not only eliminated the German radio barrage during WWI but also greatly reduced natural static. In 1927 he had the first demonstration of home television. A truly great Radio Pioneer is gone.

MINUTES OF THE LAST REGULAR MEETING June 4, 1975. In the absence of the President, the Vice-President, Larry, VE3CRX, opened the meeting at 2005 hours by welcoming the following guests: Mike, VELAVR; Jim, VE1DH; Gari MacNab; Mike, VE2DNX; Jerry, VE2DNU; Bill Mitchell; Merryll Cook; and Barbara Everson (Mrs. VE3BYX).

It was moved by Gord, VE3EKS, and seconded by Croft, VE3OR, that the minutes of the May meeting as printed in THE GROUNDWAVE be accepted. Carried.

The Treasurer, Cy, VE3CVK, reported on the financial status of the OARC.

The Membership Chairman, Vic, VE3DEP, reported that we have 196 regular and 29 associate members. The Chairman called for volunteers to take over Vic's job as Vic wishes to retire from it.

The Editor of THE GROUNDWAVE, Carl, VE3BYX, reported that there would be a summer issue of THE GROUNDWAVE in July, with the end of June being the deadline for input. He thanked the members for their support, and was given a hearty round of applause by the members for his excellent work on the paper.

The members welcomed Rick, VE3HVA, to the ranks of Amateur Radio after his recent graduation from the code and theory class.

Bill, VE3EKA, reported on the progress of the Field Day Committee. They hope to use a balloon/kite supported 200-foot vertical.

George, VE3BNO, reported that the RSO program is almost settled, registration forms have been sent out via the RSO Bulletin, and THE GROUNDWAVE. There was a display set up at the Rochester Hamfest. Volunteers were solicited to address envelopes and the following generous souls stepped forward: VE3EWP, VE3LJ, VE2BMH, VE3ARJ, VE3GNU, Barbara Everson, and Linda Meier.

George also reported for the Repeater Committee. The repeater coupling/decoupling circuitry has been built and will soon be installed.

The Emergency Coordinator, Larry, VE3CRX, reported briefly on the 3-day exercise at Fitzroy Harbour for the Boy Scouts.

Doug, VE3DC, reported on the recent CARF meeting, and announced that CARF is going to allow individual memberships with full voting rights.

Ken, VE3LJ, presented ARRL Handbooks to John, VE3GUW, and Ross, VE3DWU, the winners of the recent hidden-transmitter hunt.

The Chairman announced that the OARC picnic would be held on Sunday July 20 at Vincent Massey Park, Section "V", from 2:00 to 6:00 PM. Tickets are on sale at 50¢ per person with a \$2.00 maximum per family and are available from members of the Executive.

The Chairman spoke briefly about the problems Mailes, VE3BCO, had with the Canadian Customs at Cornwall while trying to get a card for his rig on leaving the country. He was ordered to prove that his rig had been legally imported into Canada, and was unable to do so. He was given a length of time to do this and was told that his rig and his car would be impounded otherwise. He finally got off the hook after some anxious days. A discussion ensued about how we should try to protect ourselves from over-zealous customs types.

The Chairman then introduced Dr. Jack Belrose, VE2CV, who gave a most interesting talk on "Vertical Antennas, Short and Tall".

The discussion on the licensing proposals from Earl, VE3ECJ, and Bill, VE3NR, which began at the May meeting, was resumed. After much discussion, a vote was taken as to whether the club would endorse these proposals. The result was that we would not.

On a motion by VE3GVI which was seconded by VE3GCK, the meeting was adjourned at 2245 hours.

Hank Harley, VE3BR, Acting Secretary

A CERTIFICATE to honour the 1976 Summer Olympics will be awarded to licenced Amateurs who comply with the following requirements:-

1. Canadian Amateurs must work 10 Montreal Island stations.. (Montreal Island Amateurs must work 20 Montreal Island stations - VHF/UHF Repeater contacts disallowed)
 2. Foreign Amateurs must work 5 Montreal Island stations.
 3. Contacts must be made between Aug 1, 1975 and July 31, 1976. ANY MODE.
 4. Send \$1.00 or 5 IRS's and a copy of your log containing: Date, Time, Station worked, and Operator, Mode, Frequency, Received Signal Report, Sent Signal Report. NO QSL's Req'd.
- SEND TO: Secretary, Westminster Amateur Radio School, Box 323,
Montreal Int'l Airport, A.M.F., P.Q., Canada.

(WARS)

A FABLE OF FANTASY by WALTER DOLPHIN, VE2TD, reprinted from MARCOGRAM

AND it came to pass in the land of HAM, that the people were troubled with doubts and fear about the future of their estate in the world of RADIO. Some said that the people in the land of TENFOUR will come upon us in their tens of thousands and we shall be lost.

A FEW said, fear not, for have we not got PUBLIC SERVICE, which is supposed to be the duty of the people of HAM? Let us acclaim everything we do as PUBLIC SERVICE, and we will survive and flourish.

OTHERS said, let us get the government to enact restrictions against the people of TENFOUR which will keep them in check so that they will be without DX, high antenna gain or much power.

YET others said, let us bear down upon the TENFOUR with Pride and Arrogance so that they may be put into disarray and will depart our land and leave us in peace.

OTHERS in the region of OARC made plans to re-arrange the specifications of the services of HAM and TENFOUR.

THEN THE LEADERS in the land of HAM, which were the Chief Lord Whotts, the Chief-tain Mirth, with the Lords Chark and Boil, and others who were greatly respected and loved by the people of HAM, arose and addressed the people of HAM saying, behold, we must get together and talk on what we shall do and on what we shall not do. And there was wisdom in their talk for they sought all points of view.

ONE of the leaders said, let us go nigh to the valley of COTE and hear what the OLD ONE says on the problems that doth trouble us. One other said, I will not go for he calleth me a bag of gas and I was much vexed.

NOTWITHSTANDING, the leaders mounted their horses and betook themselves to COTE which is by the Shore of the South. The Prophet was following a game of Chess on Simplex between the Lord Beeftee and another, and on entering the tent of the OLD ONE, one of the leaders faltered and fell against the Chess Board. He called out in anger saying, thou clumsy ox, now I shall know not if Bob will take him in Check or Checkmate.

THUS rebuking them he added, if all in the land of HAM played Chess there would be less problems, for all would be wise.

OF THE REMEDIES that they had discussed, he spake unto them thus, PUBLIC SERVICE in the way thou hast spoken is for the fouls of the air, for few in the land of HAM have real interest because it requires them to do work dedicated to others, and voluntary work in the emergency field is confined because of the overwhelming influence and some-time contempt of the professionals. To write up an organization and keep it secret without activity save for a roll-call is a false PUBLIC SERVICE and it is like trying to drive a chariot with the wheels removed.

THE FUNCTION of governments is to manage our affairs so that all may have a just share in the wealth of the land and an equal measure of the responsibility that must go with it. To receive and not to give in return is not the way of good folk. To enact laws without enforcement is short-sighted childishness and futile.

TO BEAR down upon the TENFOUR with Pride and Arrogance is folly because Pride always goeth before a Fall. It is only those with little knowledge that guard it as a precious jewel. Those who have much knowledge will share it with others for their hearts are as big as their minds. Go thou unto the people of TENFOUR and gather them unto you with Goodwill and Generosity, for you have so much and they so little. Help them become as of the people of HAM.

TO MAKE new plans and specifications on how the peoples of HAM and TENFOUR may be recognized is foolish and divisive because it deals only with the symptoms and not with the cause of the problem.

SEARCH thou first thine own hearts, for if thou understandeth not thine own self, how canst thou understand others? Mutual understanding is the key to the problem, and this is done through Publicity, which is the tool of PUBLIC RELATIONS.

STRAIGHTWAY the leaders of HAM departed hence and made plans to extend goodwill to the heathen and embrace them with techniques, advice, and aid of all kinds. The people of TENFOUR were mightily pleased and joined in the Clubs and Associations of the land of HAM. The people of HAM were also much content for they found themselves with greater Status and more Prestige.

SOON there was much rejoicing and the united peoples of HAM and TENFOUR were

(continued on page 3)

A FABLE OF FANTASY (continued from page 4) dancing together at Hamfests and many of the land of HAM found suitable husbands for their comely daughters from among the young men of TENFOUR.

THERE was much increased activity and much Business and Commerce resulting from the application of Common Sense as decreed by the leaders of HAM, and the land flowed with the milk and honey of transceivers, VHF rigs, teletypes, etc. and the united peoples of HAM and TENFOUR were well pleased with the wisdom and action of the Lords and Leaders.

IN the great temple of CAPRI, the united peoples of HAM and TENFOUR flocked in their thousands to the sayings of their leaders and overflow meetings were held in the streets around the temple. So large were their numbers, and so strong was their purpose, that they became exceedingly powerful and their voice was heard like thunder demanding justice in the allocation of more frequencies for their use.

A FOUR-WEEK, 7000-MILE MOTOR TRIP to Western Canada was enjoyed by your Editor and members of his family this past summer, during which VHF Ham Radio played an important part. Limited to two repeater channels (one of which packed up while getting directions in Edmonton) activity was not what it might have been otherwise. However, many enjoyable contacts were made through repeaters in North Bay, Cobalt, Sudbury, Sault Ste Marie, Thunder Bay, Winnipeg, Brandon, Saskatoon, Regina, Edmonton, Calgary, and Vancouver, and with Paul, VE3FAA, through Northern Ontario (he had a synthesizer and could operate 34/94-reverse). Paul saved us many miles of driving one evening when he reported a campsite near Thunder Bay, which had been our target for that night, to be filled up. We were able to change our plans accordingly and really appreciated this information. Many thanks Paul! Many thanks also to Ian, VE6OB, for route information through Edmonton even though my rig packed up on 46/06 halfway through the QSO. However, sufficient information had been obtained to guide us through that maze of dead-end streets to our desired destination. In Calgary, Ken, CY6CCT, and Jake, CY6CCZ, assisted with phone calls and directions, and so the story goes!

Because of Ham Radio, our trip was much more enjoyable and we never had the feeling of being strangers or of being alone, even though we were a few thousand miles from home. -----Vive Ham Radio!-----

THE DIRECTORS OF TESHMONT CONSULTANTS LTD. are pleased to announce the appointment of A. George Spencer as President of the Company. Mr. Spencer is a graduate in Electrical Engineering from the University of Toronto, a member of the Associations of Professional Engineers of Ontario, Quebec, Newfoundland, British Columbia, and Yukon, and is better known (in Amateur circles) as VE2MS, ARRL Director, Canadian Division. In his new position he is responsible for all aspects of Teshmont's operations and will be based in Winnipeg. Congratulations George and all the best in your new position. (VE3CDC)

THE RSO CONVENTION appears to be shaping up quite nicely. A dozen exhibitors have confirmed attendance and several others have indicated interest. An impressive list of technical speakers and forum moderators includes a good percentage of local Amateurs and the sessions promise to be very entertaining and worthwhile. The Ladies Programme includes many handicraft exhibits and demonstrations as well as a choice of bus tours. George, VE3BNO, and his Committee are certainly doing a 'bang-up' job. Prizes to be won include a Kenwood TS-520, a Model 28 KSR Teletype, and a microwave oven, along with a host of lesser prizes. The windup Banquet is being co-hosted by RSO and the Government of Ontario and is one of the 'musts' of the weekend. Further information and a programme of the convention activities appears elsewhere in this issue of THE GROUNDWAVE along with a registration form. -----See you there!-----

C O U N T D O W N T O C O N V E N T I O N

As of today (August 25), 37 full days remain until convention time.....

21 days remain until the cut-off of the early
 registration discount - better mail it soon.....

TO MOST OF US money is no object.....it's a myth!

SHINERAMA SEPTEMBER 5-6 1975 Once again this year the Ottawa Amateur Radio Club will be providing communications support for the University of Ottawa student campaign for Cystic Fibrosis research. Cystic Fibrosis is one of the most common serious chronic disorders of Canadian infants and children. With it, certain glands do not function properly - the mucus glands secrete an abnormal thick gluey mucus, and the sweat glands produce an unusually salty sweat. Cystic Fibrosis occurs when a child inherits two genes for the condition - one from each parent. The parents are carriers of C.F., but show no signs of it themselves, as each of them has only a single gene of the disorder. It is when two genes combine in their child that Cystic Fibrosis results. The chances are one-in-four that the child will be a C.F. victim. With luck it will live 20 years. Apply this to the population of our city and you'll know why help for research is needed. Dollars are needed for the Canadian Cystic Fibrosis Foundation to carry on its research to find a cure or control for the disorder.

Fifty-eight colleges and universities from coast to coast are competing to raise money for C.F. by conducting a shoe-shine blitz in their respective cities. Ottawa U. is one of these and has been top-of-the-heap on many occasions - and plan to be again this year. The OARC is proud to be a part of their campaign. The Ottawa-Hull area will be divided into five parts. Two mobile units will be assigned to each part and will be supported by a student co-ordinator for each mobile. Two additional mobiles will be used as supply vehicles and the Ottawa-Hull area will be divided between them. The O'Keefe Caravan will also be on hand and will have a radio assigned to it.

This all takes place on Friday Sept. 5 (5:30 PM to 9:30 PM) and Saturday Sept. 6 (8:30 AM to 12:30 PM and 12:30 PM to 6:00 PM (two shifts)) and will be directed from the U. of O. Campus on Cumberland St, south of Laurier Ave. using as a Net Control Station, VE3RC/3 through the Ottawa Area FM repeater VE2CRA. More than forty Amateurs are required to complete the project successfully. If YOU can help by

- a) giving your time
- b) loaning equipment
- c) loaning a van or truck

contact any of the following: DAVE PARKS, VE3GSA, 232-6255
 EARL ANDREWS, VE3ECJ, 722-2786
 LARRY BRADLEY, VE3CRX, 824-3753

-----but don't tell your XYL that you get to drive around all day with a pretty Ottawa U. co-ed --- she might not let you go!

FRIENDLY HAMS I recently completed a 2-month, 7000 mile trip through Canada during which I operated both portable and mobile VE1, VE2, and VE3. My experiences were so extraordinarily pleasant, I just had to write about them.

First, the Canadian Telecommunications people. Talk about promptness - I sent my request for permission to operate in Canada on a Monday. The permission arrived at my home QTH on Thursday! We should learn a lesson in efficiency and promptness from the Canadians.

Next, the Canadian hams. They are just out of this world! Everywhere I went they gave me a royal welcome. When I had trouble with my trailer in Moncton, New Brunswick, a whole covey of them converged on me to help. One of them used his influence to have a municipal campground that was closed, opened just for me. And then he came to that campground for an eyeball, just to see that everything was all right. In Timmins, Ontario, they have a small but very active 2 meter group. One of them wouldn't take no for an answer and directed me to his QTH for coffee and to visit his family. Another insisted that I visit him and, when I did, I found that he had arranged for a whole group of 2 meter operators to be there just to meet me! And all over Canada they directed me through their cities, filled me in with local history and lore, or just chewed the rag and accompanied me along the road.

This has been one of the greatest experiences in my operating career. I would surely hope that if any of us here in the States ever hear a Canadian ham, we will be half as cooperative and friendly as they were to me. I have written a personal letter to each one of the contacts I made while on this trip. I just couldn't do less. Ham radio is one fine fraternity. -Daniel W. Willingmyre, WA3SKO, College Park, MD

(Reprinted with permission from QST, February, 1975)



OTTAWA AMATEUR RADIO CLUB

RADIO SOCIETY OF ONTARIO



OTTAWA CONVENTION NEWS

OCTOBER 3, 4, 5, 1975

Dear OM/XYL/YL

This is an invitation to you and your family to visit Canada's Capitol and attend the Radio Society of Ontario's 1975 Convention. Ottawa is at it's best in the Autumn, with colourful scenery and historic landmarks such as Parliament hill, the Royal Canadian Mint, the National Arts Centre, the Rideau Canal, and the National War Museum all close to the Skyline Hotel.

For the Radio Amateur we offer a complete program of technical sessions, forums, commercial displays, hospitality and display rooms, demonstrations and a chance to win major prizes of Amateur equipment.

The Ladies program includes an Arts and Crafts market and display, a bus tour of Ottawa and region, a trip to the Glenayre Knit Ltd. "Kitten Factory" (high quality clothes at very reasonable prices) and a chance to win attractive prizes.

For the socially minded we are offering "Octoberfest" time on Friday evening with a buffet meal and dancing, and on Saturday night there is the traditional RSO Banquet followed by dancing in the Grand Ballroom of the Skyline .

Make your plans now, send in the registration form below, and welcome to Ottawa in the Fall !

CUT OFF HERE

R.S.O. CONVENTION 1975

OCTOBER 3,4,5 THE OTTAWA AMATEUR RADIO CLUB OTTAWA, ONTARIO.

Please reserve as follows TOTALS

REGISTRATIONS-RSO MEMBER \$.....NON MEMBERS \$.....LADIES PROGRAM \$.....	\$.....
FRIDAY EVENING-German Beer Garden, Buffet & Dance...Persons at \$6.00	\$.....
SATURDAY NIGHT-Banquet & Dance	Persons at \$10.00 \$.....
TOTAL AMOUNT ENCLOSED ---\$.....	

NAME.....	CALL.....
ADDRESS.....	TELEPHONE NO.
CITY/TOWN	POSTAL CODE
XYL/YL	CALL

REGISTRATION AT THE DOOR AND AFTER	BEFORE 15 SEPTEMBER
SEPT. 15 -- RSO MEMBER \$7.50	-RSO MEMBER \$6.50
NON MEMBER \$8.50	NON MEMBER \$7.50
Ladies Program \$5.25	Ladies Program \$4.25

Cut off where indicated and mail with your cheque or money order payable to "RSO CONVENTION COMMITTEE" to;

RSO CONVENTION
P.O. BOX 8873
OTTAWA, ONTARIO.-CANADA
K1G 3J2

XYL/YL Will you be going on
Ottawa City Tour?
Kitten Factory Trip?

Banquet attendees must be registered. Full registration req'd for Ham prizes.



RADIO SOCIETY OF ONTARIO
OTTAWA AMATEUR RADIO CLUB



CONVENTION

SKYLINE HOTEL OTTAWA OCTOBER 3,4,5.

INFORMATION AND TICKETS WILL BE MAILED TO THOSE WHOSE REGISTRATION FORMS ARE RECEIVED BEFORE SEPTEMBER 15. THOSE RECEIVED LATER WILL BE HELD AT THE REGISTRATION DESK.

SKYLINE HOTEL ROOM RESERVATIONS CAN BE GUARANTEED UP TO SEPTEMBER 3. AFTER THAT YOU TAKE YOUR CHANCES. WE WILL MAIL A HOTEL RESERVATION FORM WITH YOUR TICKETS, AND IF YOU IDENTIFY YOURSELF AS WITH THE CONVENTION SPECIAL RATES ARE AVAILABLE.

PARKING IS AVAILABLE ADJACENT TO AND UNDER THE HOTEL. MAXIMUM VEHICLE CLEARANCE FOR UNDER HOTEL PARKING IS SIX FEET.

ARRANGEMENTS CAN BE MADE AT THE CONVENTION FOR GROUP RESERVATION OF TABLES FOR THE SATURDAY BANQUET.

TALK IN STATIONS WILL BE ACTIVE FROM NOON ON FRIDAY ON 3765 SSB, 146.52, 146.94, AND REPEATER VE2CRA 146.34/94.



RADIO SOCIETY OF ONTARIO
OTTAWA AMATEUR RADIO CLUB



CONVENTION

CONVENTION ACTIVITIES-

FRIDAY 3 PM Registration desk opens.

8 PM German Beer Garden, Buffet, & Dancing.

SATURDAY 9 AM

8 Technical sessions including an antennae seminar, program for the handicapped, repeater forum, amateur band spectrum management, new class of licencing forum, DX forum, Etc. RSO Forum --RSO Delegates meeting. Operating displays of RTTY & SSTV. Department of Communications display. Hospitality rooms-PARC (Ottawa), OVMRC, QCWA (Capital Chapter), Etc.

LADIES PROGRAM

Information Centre (Shopping, dining, tourist.)
Pamphlet Table. (help yourself)
Ottawa City Tour. (2 hours)
"Kitten" factory trip (3 hours)
Displays and demonstrations including:
leatherwork, leaded glass, beaded necklaces,
spinning, weaving, copper enamelling, batik,
needlepoint, CNIB arts, microwave cooking, etc
CLARA & TOT displays and forum.
Prizes galore.

SATURDAY 7 PM

Annual RSO Banquet, followed by dancing and draw for Major Prizes (incl. TS-520 transceiver and a brand new Model 28 KSR Teletype.)

SUNDAY 10.30 AM

Technical Forum (for survivors only)

RADIO SOCIETY OF ONTARIO - 1975 CONVENTION - OCTOBER 3, 4, 5.
SKYLINE HOTEL, OTTAWA

P R O G R A M M E

FRIDAY, OCTOBER 3

2:00 p.m.-Registration Desk Opens	Convention Floor
7:00 p.m.-Oktoberfest Opens	International Ballroom
8:00 p.m.-Oktoberfest Buffet will be served	International Ballroom
9:00 p.m.-Oktoberfest Dancing 'til Midnight	International Ballroom

SATURDAY, OCTOBER 4

8:00 a.m.-Registration Desk Opens	Convention Floor
8:30 a.m.-Commercial Displays Open	Richelieu, Frontenac, Joliet Rooms
9:00 a.m.-Glenayr "Kitten" Factory Tour Leaves	Albert Street Door
-Film Showings Start	Confederation Room
-Slow Scan and RTTY Demonstrations Start	Seigniory Room
-"R.S.O. Forum"	La Chaudiere Room
-"Amateur Space Activities"	Victoria Room
-Frequency Synthesizer Design	Carleton Room
9:30 a.m.-Ottawa Sightseeing Tour Leaves	Albert Street Door
-Arts and Crafts Displays and Demonstrations Open	International Ballroom
10:30 a.m.-Coffee Break	International Ballroom
11:00 a.m.-Amateur Licencing Forum	La Chaudiere Room
-Two Metre Repeater Sophistication	Victoria Room
-Electronic Aids For Blind Amateurs	Carleton Room
12:00 Noon-Electronic Aids For Paraplegic Amateurs	Carleton Room
1:00 p.m.-Lunch Break	
2:00 p.m.-Meeting of R.S.O. Delegates	16th Floor
2:30 p.m.-DX Forum	La Chaudiere Room
-Antennae Seminar	Victoria Room
-Frequency Proposals For Amateur Bands	Carleton Room
6:00 p.m.-Reception (cash bar)	International Ballroom
7:00 p.m.-Radio Society of Ontario Banquet	International Ballroom
8:30 p.m.-Drawing for Major Prizes	International Ballroom
9:00 p.m.-Dancing (10 piece orchestra)	International Ballroom

SUNDAY, OCTOBER 5

10:30 a.m.-Transmission Lines and S.W.R.	Victoria Room
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DURING CONVENTION - HOSPITALITY SUITES - 16th Floor

COMMERCIAL EXHIBITORS WHO HAVE CONFIRMED ATTENDANCE ARE:-

Collins Radio, Ottawa, Ontario.
Dollard Electronics, Vancouver, British Columbia.
R. L. Drake, Ohio, U.S.A.
Glenwood Trading, Vancouver, British Columbia.
Hal Electronics, California, U.S.A.
Heathkit, Toronto, Ontario.
McFarland TV Reg'd, Battersea, Ontario.
Payette Radio, Montreal, Quebec.
C. M. Peterson Ltd, Peterborough, Ontario.
Ray Hunter & Associates, Toronto, Ontario.
Wackid Radio & TV Laboratories, Ottawa, Ontario.
73 Magazine

Several others have indicated attendance, but have not yet returned the paper work.

The Ladies Programme has been set up as a continual "drop-in" centre with tea and coffee available from 10 until Noon and from 2 to 4 o'clock. Displays and demonstrations such as painted china, ceramic necklaces, semi-precious gem jewellery, spoon rings, spinning, leathercraft, photography and weaving will be complimented by an exhibit of Indian and Eskimo artifacts loaned by the National Museum of Man. The artisans will be glad to discuss their crafts with you and perhaps help you choose a gift.

The Ontario Trilliums and Canadian Ladies Amateur Radio Associations are looking forward to meeting you and presenting their involvement in Amateur Radio.

The one and a half hour Ottawa City Bus Tour will give you an opportunity to see your National Capital, while the three hour Glenayr "Kitten" Tour is for those who wish to do some clothes shopping at reasonable prices while getting a glimpse of the Ottawa rural areas.

Some Prize Drawings will take place during the day - there will be time for a swim in the pool - or a visit to the Hotel's beauty salon and/or barber-shop before the Banquet. You should try and attend the microwave cooking demonstration - you may be the lucky one to win a microwave oven.

Some of our technical speakers and forum moderators are: Keith Bentley VE3DHL, Al Hewitt, D.O.C., Jim Swail VE3KF, Marv Nash VE3FON, Bruce Carveth VE3BC, Larry Kayser VE3QB/AMSAT, Earl Andrews VE3ECJ, Dr. J. Belrose VE2CV, Ian Ridpath VE3EZM, Norm Dennis VE3ZH, Wayne Green W2NSD, Hal Parsons VE3QA, Gerry King VE3GK, Bill Loucks VE3AR, Bud Punched VE3WD.

SEE YOU THERE!

THE CANADIAN AMATEUR RADIO FEDERATION is developing as the National Amateur Radio Organization in Canada. The past twelve months have been ones of planning for re-organization and advancement. The Board of Directors unanimously approved a change to individual voting membership and ratification of this will be sought at the 1975 Annual meeting. The Canadian Amateur Radio Regulations Handbook was edited and brought up to date and two other books are in the works - a Canadian Amateur Call Book, and a Canadian Amateur Licensing Manual along with possibly a Canadian Amateur Year Book. These major undertakings should result in the generation of substantial support and enable the Federation to push ahead with plans for additional development. Although the past year has been one of decision and planning for the future, the response has been excellent and has left little doubt that Canadian Amateurs are aware of the need for a Canadian National Amateur Organization and that they will support CARF in this role. Individual associate memberships may be had by sending \$5.00 to P.O. Box 356, Kingston, Ont., K7L 4W2. (CARF Annual Report)

REFERENCE ORBITS for the OSCAR satellites for September are as follows:

OSCAR VI : Sept 1, 1975; Orbit # 13153; Equator crossing (S-N) 69 deg.; Time 0113 GMT.

To update 1 orbit, add 1 hr and 55 min and 29 deg.

" 13 "(1 day) add 55 min " 14 "

" 88 "(1 week) " 39 " " 10 "

OSCAR VII: Sept 1, 1975; Orbit # 3625; Equator crossing (S-N) 64 deg.; Time 0056 GMT.

To update 1 orbit, add 1 hr and 55 min and 29 deg.

" 13 "(1 day) " 55 min " 14 "

" 88 "(1 week) " 36 " " 9 "

CAUTION: This information is rounded to the nearest degree and minute. If the updates are repeated sufficiently many times, errors will creep in. However, this will give a ball-park figure and an idea of when to expect satellite activity.

OSCAR VI is operating on a limited schedule - check the first orbit of each day (GMT days) for announcements and 'on' times. Look around 29.495 MHz.

OSCAR VII operates in Mode A (2-10 meters) on odd days of the year, in Mode B (70 cm- 2 meters) on even days of the year and is off on Wednesdays.

Larry Kayser, VE3QB, will be on the program of the RSO Convention with a presentation on behalf of AMSAT. Full details on times, frequencies, and telemetry data are available from AMSAT, Box #27, Washington, D.C., 20044, for a yearly membership of \$10.00.

LEARNING TO LIVE WITH IC'S - Just as hand-wired circuits gave way to printed-circuit boards, so are PC discrete assemblies giving way to integrated circuits (IC's). The principal reasons are the same - lower manufacturing costs, elimination of human labour, and the advertising value of "something new". The first IC's simply replaced audio amplifiers, or some similar circuits, they were what was called "SSI" (small-scale integration). Then came devices with more and more functions on each chip and we had "MSI" (medium-scale integration), and finally "LSI" (large-scale integration). This has resulted in complete computers consisting of a half-dozen chips wired together. Sooner or later, the more venturewome of us are going to have these little beasts to troubleshoot. The best approach is the observation of the signal input and the signal output, after first making sure that the correct DC supply voltages are present. When using a VOM for testing "live" IC's, it is good practice to use an isolating resistor in series with the meter test probe. For example, if your meter is a 20,000-ohms-per-volt unit and you are using it on the 25-volt range, the input resistance is 500,000 ohms. A 500,000-ohm resistor in series with the test lead will act as a very effective choke. And to read the meter now, you merely multiply the reading by two.

The most common IC defect is the failure of the internal connections, wires about one-quarter the size of a human hair. They must be welded at each end and these welds often fail after factory testing at the rate of 1-2 percent a month for the first few months. Other causes of failure are due to excessive heat, voltage, or current, usually caused by the failure of some other component. There are no IC failures due to "wearout" because IC's have lives in the millions of hours. Before replacing an IC which has failed, it is advisable to make sure, with the IC out of the circuit, that the proper voltages and currents are applied to its terminals. Remember, an IC goes out in microseconds, with no noise, no flash, no warning at all. (VE3BYX)

