

OCTOBER 1987

THE GROUNDWAVE

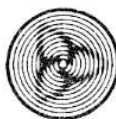
HAVE YOU RENEWED YOUR
MEMBERSHIP?



NEXT MEETING WILL BE ON
WEDNESDAY, OCT. 7

Club Call VE3RC

Repeater VE2CRA



THE GROUNDWAVE
Official Bulletin of the Ottawa Amateur Radio Club, Inc.

Managing Editor	Mike James	11 Pommel Crescent	592-2962
	VE3PDE	Kanata, Ont. K2M 1A3	995-2730
Graphic Design	Maria Townson		828-9573
	VE3KIP		
Contributing Editor	J. Gord MacKay	P. O. Box 1204	831-1004
	VE3JMT	Stittsville, Ont., KOA 3G0	
Production Committee	Bill Hall	69 Canter Blvd.	224-2107
	VE3JMC	Nepean, Ont., K2G 2M4	
	Chuck Baker	2061 Belcourt Blvd.	824-1941
	VE3PAP	Orleans, Ont., K1C 1M7	
	John Ellingham	1225 Southwood Drive	828-3577
	VE3GUW	Ottawa, Ont., K2C 3C2	
	Ted May	116B Laval St.	741-0862
VE3ADZ	Vanier, Ont., K1L 7Z4	993-9132	

THE OTTAWA AMATEUR RADIO CLUB, INC. is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

REGULAR MEETINGS of the OARC, Inc., are held on the first Wednesday of each month (except July and August) at the National Research Council Auditorium, 100 Sussex Drive, Ottawa, at 2000 hours. A bulletin board is available for posting notices of interest to other members about 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month in the Board Room of CFRA, 150 Isabella St., Ottawa, at 1930 hours. Contact the President to confirm the date of the next meeting.

DEADLINE FOR COPY is the second Wednesday of each month. Make yourself better known to fellow members and other amateurs, too, by giving us an article, technical or otherwise, relative to our hobby. They may get reprinted in far away places; and the family will be proud of you.

MATERIAL PUBLISHED herein does not necessarily represent the official OARC viewpoint. Items may be reprinted by Amateur Radio or other publications provided that proper credit is given to the author and to the OARC, Inc.

RADIO AMATEUR CALL BOOKS are available at many local libraries. Ask at the information desk.

SAFETY BELTS, 2-METER RIG AND AN ENGRAVING PENCIL are available for loan to club members. The 2-meter rig may be borrowed by members who are hospitalized. The engraving pencil (to mark valuables for identification in case of loss or theft) and the safety belts with pole straps are available to any member.

A \$100 refundable deposit is required for the belts. Contact the President for the 2-meter rig or the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) or Brian, VE3JKZ, at 523-1535 (East End) for the belts.

THE CAPITAL CITY NET meets every Monday at 2000 hours on the club repeater VE2CRA (146.34/94) to pass traffic and to make announcements of interest to Amateurs in the National Capital Region.

THE SWAP NET, is a service provided and conducted by Ed Morgan, VE3GX. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Ed Morgan at 733-1721.

POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club, and conducted every Sunday at 1000 hours on 3.760 MHz. All amateurs are welcome to check in. The Swap-Net is a regular feature.

POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed, VE3GX, and meeting every Sunday, except during July and August, at 1100 hours on 3.620 MHz, to promote interest in CW and CW procedures.

MINUTES OF THE OARC GENERAL MEETING OF SEPTEMBER 2, 1987

The meeting was convened at 2004 hours (local) by the President, John, VE3NVF.

John welcomed the visitors with an invitation of a free coffee and Groundwave. Visitors included: Tom, VE3CDM; Dave, VE7FLC; Jim, VE3NDJ; Markus, VE3NDL; Jean-Pierre, SWL; Roger, VE3BZR; Mike, VE3BUP; and Steve, VE7KZ.

Merv, VE3CV, noted an error in the previous minutes: The RSO convention will be held in Barrie, not in Bancroft as stated. The minutes were accepted as corrected on a motion by Gord, VE3DY, seconded by Ralph, VE3GG.

Brett, VE3JLG, presented the results of the Nominating Committee. All incumbents had agreed to re-run, with the exception of Mark, VE3OWL. Bill, VE3WSN, has agreed to run as a director, with the proviso that he may have to move in six months (depending on his wife). For each position, Brett asked for nominations from the floor. None were received, so the executive slate was acclaimed as follows: President: John, VE3NVF; Vice-president: Paul, VE3JLP; Secretary: Gord, VE3PPE; Treasurer: George, VE3NJJ; Directors: Dave, VE3JTZ; Ralph, VE3GG; and Bill, VE3WSN.

Tom, VE3CDM, spoke about the status of the Soviet/Canadian Ski Trek. The team size has been shrunk to 6 members, 4 will make the final journey. They will be using a 20M SSB 20W transceiver to keep in touch with the mission control stations at both ends. The communications will be conducted by hams. The ski team includes Leonid, UA3CI, and Dimitri, UA3HAH. The ski trek has been privately sponsored to the tune of \$2M. Tom is looking for volunteers to help operate the Canadian station, on

Elsemere Island, for a period of up to 90 days. If you can help, contact Tom.

John introduced our new Capital City FM Net Chairman, Wayne, VE3JSQ.

Gord, VE3PPE, announced the OARC flea market is being organized by Mike, VE3PDE, John, VE3NVF, and himself; it will be held on October 31st, at the Holy Redeemer Church in Kanata. Gord also announced that Peter, VE3PFB, has generously made available to the club, equipment to be loaned to Mike Baker to put him on the air. John is trying to reach Mike's sponsor, Craig, VE3KKU, to arrange delivery.

John reminded members to take the time to fill out the club questionnaire and submit them to either members of the executive or mail them in. Extra copies of the questionnaire are available at the front table or in the back pages of the June GROUNDWAVE.

Mike, VE3FFK, is organizing communications for the Nepean Industrial Soccer League. He is looking for people for September 12th and 13th and will leave a sign-up sheet at the front or you can contact him directly.

Kerry, VE3EV, is looking for 10 volunteers with hand-helds to help him with communications for the Barbershop Choir contest. It will be held on September 23rd through 24th, principally backstage of the NAC. Contact him on the net or at 824-8204 if you wish to help. (continued on next page)

* Speaker for October 7th Meeting *
* Peter Hafichuck *
* on *
* Basic Alignment of *
* FM Transmitters and Receivers *
* *

Dave, VE3JTZ, is looking forward to setting up the Advanced Amateur Course this fall, starting early October. There is less time pressure this year as exams will be held the first Wednesday of each month. Contact Dave if you are interested.

Merv, VE3CV, described the September 19th RSO meeting in Barrie, noting talk-in will be on VE3LSR, 147.85-. Merv has RSO membership applications and invites members to see him about joining the RSO.

Mike, VE3BUP, is from Chilliwak. He has had experience in public relations for ham clubs and presents his services to the OARC. He has taped Christmas greetings in many languages, and some of the communications made during the Mexican earthquake, and his local media has made good use of the tapes. If there is some sort of activity or newsworthy event, contact Mike at 731-1567 or 996-3311 and advise him - this is an image enhancing opportunity for the amateur service.

Jim, VE3JPC, was in Senegal (Africa) to give a talk and demonstration of HF and VHF packet communications. From Umboor, via gateway, he was able to reach the Canary Islands and impressed delegates in attendance. They are hoping to use packet to establish links between posts that are currently very expensive to drive to. He thanked John, Tom and other club members that helped make his trip a success.

Paul, VE3JLP gave members present the following DX tips:

- SV/A--Mount Athos--a priest, Gerry, 5X5GK, has received permission and will possibly start on September 15th. Watch for the pile-up!
- JD1--Ogasawara--JA4GXS/JD1, starting either September 4th or 24th for 9 days, CW: 1.91 MHz, 80, 40, 20, 15, 10M + 3 KHz; SSB: 3.8, 7.08, 14.18,

21.18, 28.58 MHz. QSLs to JA4GXS
 - ZY0--Fernando de Noronha, Brazil--
 September 9th and 13th
 - XX9--Macao--Dias XX9MD, 14.225 MHz
 at 11:00 UTC; Peter/XX9KA/14.16/12:45;
 and Amir/XX9TTT is hoping to be on
 too.

Canada has received permission to operate 18.068 to 18.168 and 24.89 to 24.99 MHz. Little activity has been noted on these bands but Paul suggests the lower 40 KHz of 12M be reserved for CW, the rest for SSB. Best hunting on 17M is in the lower 3 KHz.

John adjourned the meeting at 2100 to 2123 hours for a coffee break and chit-chat.

Arn, VE3SD 'Sugar Dog' introduced the guest speaker Phil, VE3FAS. Dennis Gerod, VE3CYR, was unable to come tonight, so CRRL flew in Phil. Arn first met Phil in Toronto where he passed Phil a paper bag containing a vacuum tube for one of his radio projects. Now Phil has graduated from Ryerson and is employed as a teaching master at Humber College. Phil is the Eastern area Traffic Net Manager and both he and his wife (VE3GSQ) are active traffic handlers in the National Traffic Net.

Phil explained the purpose of the NTS is the passing of public 3rd party traffic. He lives in Shelburne, on a farm, with a 160 foot tower. He gets along well with his neighbours because he often passes traffic for them to their son in B.C. NTS operators are a friendly group and passing traffic has improved their skills. Phil recommends reading the ARRL Operating Manual and joining this group.

The original traffic system was changed by George Hart, W1NJM, in 1949. Before that, traffic was handled on 80M trunk lines by operators known as 'Iron Men'. Traffic tended to accumulate in the

middle of the trunk, making these operators most pressured and making the system less reliable.

Now the NTS is organized into three areas: Eastern, Central and Pacific Traffic Nets. There are four levels to each area: local, sectional, regional and area nets. There are four cycles per day during which the various levels of all areas meet. Normally the local nets meet first and pass traffic that can't be handled up to the next - the sectional net. Correspondingly, the sectionals pass traffic to the regionals and regionals to areas. Between areas are the Trans Continental Core nets, which pass traffic between areas. Phil is also a TCC operator.

Phil has seen traffic passed from the Eastern areas to Florida and back in one evening. During Christmas, 320 messages were passed through the EAN in 60 minutes.

Phil then put up a slide of a typical message and explained its contents.

The NTS is mode independent and includes packet in daily operations.

WORLI-style bulletin boards can be updated to traffic handling with commands to send, edit, read and kill traffic. Should anyone see a message on a bulletin board destined for an out-of-town address, they should take it off and forward it using whatever means necessary. Phil thinks it does amateurs a disservice to leave traffic sitting around for days.

Phil and the ARRL regularly compile and compare message statistics and are hoping to see a more effective National Traffic System.

The meeting was adjourned at 2227 hours on a motion by Bill, VE3UD, and seconded by Harrie, VE3HYS. No objections - CARRIED.

DEPARTMENT OF COMMUNICATIONS
RADIO ACT

Notice No. TRS-015-87 - Low-Power Wireless Video Transmitting Devices

The Department of Communications has received a number of requests from manufacturers and importers to revise the Radio Regulations to permit the use of low-power wireless video transmitting devices in the VHF and the UHF television broadcasting bands. Such devices, which are primarily intended for use in consumers' homes to transmit a television signal to one or more television receivers without the need for connecting cables or wires are presently not approved for use in Canada.

Following a review of this matter, including laboratory tests on a typical unit, the Department has concluded that these devices could potentially cause interference to the reception of television broadcasting stations, and mutual interference when such devices are operated in close proximity.

Accordingly, notice is hereby given that the Department does not intend to amend its Regulations to permit the use of low-power wireless video transmitting devices in the VHF or UHF television broadcasting bands.

Interested parties may make written representations concerning this matter to the Director General, Broadcasting Regulation Branch, Department of Communications, 300 Slater Street, Ottawa, Ontario K1A 0C8. Submissions must reference the number and publication date of this notice.

July 2, 1987

de Canada Gazette
(Tnx VE3BBM)

YOUNG MAN OF THE SEA

Perhaps he was influenced by Ernest Hemmingway's novel, or maybe it was just because the sea has such a fascination for so many, but something drove Tom McLean to row across the Atlantic and set a new record. He did it once before only to have a fellow from France do it faster a few days later.

Tom McLean, 42, is a writer, born in Ireland, married to a Scottish girl, has two children, and lives in England. He left St. John's, Nfld., on June 16, 1987, to row a 20-foot dory, 5.5 ft. beam, with canopies over bow and stern, with destination England. He used a 10 watt Japanese transceiver, EC-150, which the members of the St. John's Radio Club helped set up and adjust, with an 8 ft. antenna. He didn't have an amateur licence but planned to operate on 20 metres as soon as he was in international waters.

Ron Bellville, VE3AUM, heard him on June 19th, and kept skeds with him until June 25th when he had a call from DOC suggesting that this was not a legitimate station, and that he should cease communicating with him. It is not easy to abandon a fellow on the high seas to the mercy of the winds and the sharks who is doing something that none of the rest of us have even the courage to think about.

Ron, with great respect for DOC, set up skeds with several hams in the U.K. who would listen for Tom, discuss his progress, talk about the weather conditions over the Atlantic, but not communicate directly with him. This went on through July and into August when on August 7th, with my beam working again, I could hear Tom, very weakly, and near the English coast.

On July 2nd Tom reported 50 km winds and seas of 10 metres. Later that day

the seas increased to 15 metres, and the curl-over of one flipped him over. He was upside-down for about 15 seconds before he got righted again. He lost his cooking equipment, rudder control, navigation radio, and wind generator. For the next 6 days he ate cold food. Somehow the transceiver continued to work. On July 22nd he met a Russian trawler and they replaced some of his cooking gear, provided some food, and a loaf of bread with a note inside from the Russian radio operator, wishing him luck.

Tom passed the magic line through Bishop's Rock on Monday, August 10th, and was intercepted by a chartered boat and towed into port. He made a new record, got a tremendous welcome at Falmouth and later at London. At London he was met by HMS Belfast and the London Harbour fire boats as he made a ceremonial row up the Thames. London Bridge was opened and he was greeted by the Lord Mayor as he signed a book in the Tower of London. The British press and TV made a big thing of it all. There are many details missing that will have to wait until Tom gets his book written.

It is amazing what some people will endure to make a record, or write a book. George, G4UHO, who met Tom on the dock to shake his hand, said that it was like grasping a lump of sandpaper. Ron would have done the same except that he had to attend his daughter's wedding.

de Gord Grant, VE3DY

WARC

The 17m (18.068-18.168 MHz) and 12m (24.890-24.990 MHz) bands are now legal.

INDEX TO GROUNDWAVE ARTICLES

D. O. C. doings

Discussion Paper Jan. 86, 6

Response to D. O. C. Sep. 86, 7

Restructuring of Amateur Service . . Sep. 86, 7

Review of Amateur Radio Jan. 86, 5

Hardware

ACSB

 Compandoring Nov. 86, 5

 Receiver Dec. 86, 5

Amateur Satalite,

 USSR May 87, 10

 Telescope Apr. 87, 11

Amplitude Compandored Sideband

 I Sep. 86, 11

 II Oct. 86, 9

 III Nov. 86, 5

 IV Dec. 86, 5

Battery Minder May 86, 10

Bicycle Mobile Jun. 86, 10

Cellular Telephone Oct. 86, 5

Did You Know (Static Electricity) . . Sep. 86, 14

Direction Finding Project Jan. 86, 9

 (followup) Sep. 86, 5

Electronic Trivia (condenser) Apr. 86, 11

Fast Scan Amateur TV Sep. 86, 8

Fuji Satalite Launched Jun. 87, 6

Haida Prject Dec. 86, 6

Insurance Coverage and Amateurs . . . Jun. 86, 6

Leading Edge (of Technology) May 86, 7

Lightening Protection and Prevention May 86, 8

Microwave Experiments

 (1) Sep. 86, 14

 (2) Oct. 86, 6

 (3) Nov. 86, 9

 (4) Jan. 87, 5

Microwave Receiver Oct. 86, 7

Minimizing the Birdies May 86, 9

Over the Horizon Radar, etc. Oct. 86, 5

Slow Scan TV Sep. 86, 12

Travel Among Electronic Shows Jun. 86, 8

VE3NAR Aboard HMCS Haida Dec. 86, 10

Warning About Computers Jun. 86, 13

Joe Norton Trust

History Mar. 86, 5

Trust Award Elegibility Feb. 86, 5; Mar. 87, 9

Miscellaneous

Big Bug Dec. 86, 9

Distress Flares Dec. 86, 7

Insurance Coverage and Amateurs . . . Jun. 86, 6

Miscellaneous (continued)

Meaning of Second R in CRRL Feb. 87, 8

Member Who Never Came Back Apr. 87, 10

Membership Survey Mar. 87, 6

Nuisance, Law on (Col. 1, para. 3) . Feb. 87, 6

President's Report Sep. 86, 4

Radio Myths (Saving Money and Space) Dec. 86, 9

Required Reading Reminder Apr. 87, 10

Satalites to Become Obsolete? Sep. 86, 10

Silent Key -- VE3YQ Mar. 86, 6

State of the Art Jun. 86, 12

Tempus Fugit May 87, 6

Ten Commandments of Electronics . . . Apr. 86, 7

VE2CRA -- OARC Repeater Feb. 86, 7

WWII Radio Man's Lament (Poem) . . . Jun. 86, 13

What is Ideal Amateur Sep. 87, 5

Operating

CW

 On Teaching Dec. 86, 11

 Hard to Master? Sep. 86, 6

Differences Dec. 86, 8

Eavesdropping (The RTTY/AMTOR World) Jan. 86, 10

Emergency Measures Apr. 87, 6

Hamband Birdwatching Sep. 86, 12

Islands -- From A - Z Jun. 86, 5

Minimizing the Birdies May 86, 9

Postscript to Ski Marathon (advice) . May 86, 4

Recognition of Amateur Radio Mar. 86, 8

Eavesdropping (The RTTY/AMTOR World) Jan. 86, 10

VHF Time Honored Procedures Mar. 86, 9

Weather or Not Jun. 87, 5

Radio Frequency Interference

Amateur Susceptibility Mar. 87, 7

EMI

 Resolution Concerning Apr. 86, 10

 on the Road Oct. 86, 8

Fixing Telephone Interference Feb. 86, 7

Optimizing Toroids - EMC Application Mar. 86, 6

RFI Susceptibility Labeling Oct. 86, 11

Susceptibility Mar. 86, 7

Ravenscroft Case

Appeal Jun. 86, 7; Apr. 87, 8

Comic Releaf May 87, 7

Fund Status Report Sep. 86, 9

Judgement Jun. 86, 14

Passage of Time May 87, 11

ODE TO CODE

1. It's more than dots and dashes
It's a place.
A sanctuary for those who've learned
To love the mysterious magic of
Thoughts arriving in mile-long strings
On roads of ether or wire.

2. Even more, it's peace,
A shield from the disordered sounds
Of traffic, angry people
And industrial clutter clatter;
Within its warm mantle
We find soothing respite.

3. And the sharp patter of bright
ideas it is,
The sharp focusing of others' thoughts
From miles beyond our vision's range.
As in a dream we sit so still,
It floats in our ears and stirs our
minds
With concern, remembrance, speculation
and mirth.

4. And code is music,
From sounders and speakers it dances
In the shack to each sender's inner
clock;
And comes butter-smooth, deliciously
swinging.
Or choppy staccato from a "fist"
Praising definition;
Or perfectly metered, flowing
exquisitely
From the gentle hand of an artist.

5. A place,
And peace,
Intelligence and
Music.
Code is more than dots and dashes.

de SPLATTER
York Region Amateur Radio Club

A BATTERY-CHARGING HINT

Some of you may remember the circuit for a fancy battery charger that Fred Green displayed in the Groundwave. Unfortunately it came out too late for me to take advantage of the wonderful things that it would do. I needed something to keep a storage battery up to scratch over the winter and I needed it in a hurry. There was no time to build Fred's charger.

So I tried an experiment. With a timer that had a failed switch, I fitted a microswitch to turn on a charger periodically, in hopes that an intermittent shot each day would save the odious job of charging it up in the spring. Also, I felt that a fully charged battery would deteriorate less over a six-month period. It was an experiment that paid off handsomely. When I came back in the spring, the battery was fully charged and ready to put in the trusty VW. The timing was slightly adjustable, but on first test it came on once a day for 18 minutes. I left it at that and now three years later the battery is still fully charged. The charging rate was about 1/2 ampere which I figured would not evaporate too much water and that was the case also. This worked so well I felt that someone else with the same general problem might find it useful.

de Gord Grant, VE3DY

The problem is: By the time you get it all together, you are too old to lift it.

de WESTCUM BULLETIN
and Halifax Amateur Radio
Club Inc.

OARC MEMBERSHIP DUES

The 1987-88 OARC dues are \$12 for individual or \$14 for family memberships.

Renewals may be sent to the Club P.O. Box or paid at the regular Club meeting.

Membership cards can be picked up at the regular meeting or they will be mailed with the Groundwave.

de Peter Hafichuck, VE3LEW

EMI

We note that EMI/EMC is a problem in more areas than in consumer devices. Health and Welfare Canada (BRMD) is sponsoring a Workshop on Electromagnetic Interference and Electromagnetic Compatability in Health Care Facilities, November 18-19th, in Edmonton.

Tnx VE3BBX

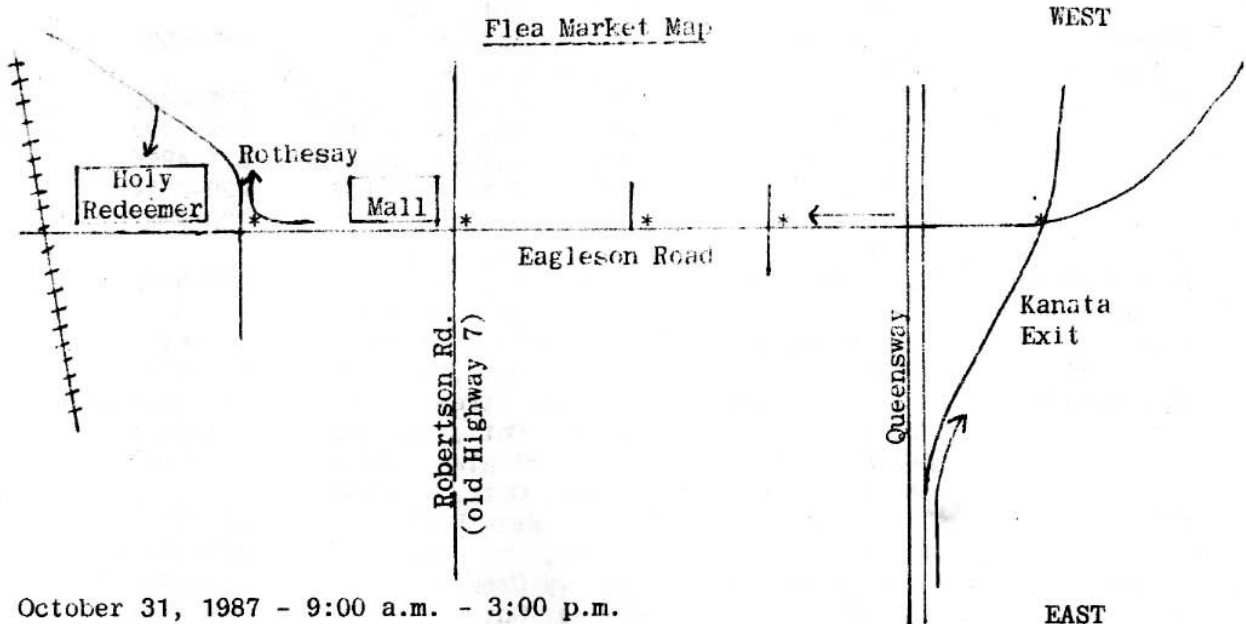
ADVANCED AMATEUR COURSE

This course will start Tuesday, October 6th, and will last 15 weeks. Classes are weekly (Tuesday) from 7:30 to 10:00 p.m. Contact Dave Anderson, VE3JTZ at 225-0886 (home) or 592-2122 (office) for details.

OARC MEMBERSHIP

Club membership is low enough that we barely have enough funds to print the Groundwave. Please check and see that you have paid. If you do not renew your membership, this is your second last issue. If enough people do not renew, the Groundwave will have to cease or curtail production.

If you have any suggestions, call your friendly Editor, Mike, VE3PDE, at 592-2962.



October 31, 1987 - 9:00 a.m. - 3:00 p.m.

Admission: \$1.00

Tables: \$3.00 single (ham prices)
\$5.00 double



The Ottawa Amateur Radio Club, Inc., Box 8873, Ottawa, Ont. K1G 3J2

President	John Drajewicz	38 Fuller Street	722-1854
	VE3NVF	Ottawa, Ont., K1Y 3R8	952-1904
Vice-	Paul Cooper	R. R. 2,	821-2167
President	VE3JLP	Metcalfe, Ont., KOA 2P0	
Secretary	Gord Dey	49 Stable Way	592-0680
	VE3PPE	Kanata, Ont., K2M 1A8	726-5219
Treasurer	George Caskey	19 Argue Drive	224-6415
	VE3NJV	Nepean, Ont., K2E 6S2	
Past-	Dan Holmes	33 Crownhill Street	746-0968
President	VE3EBI	Gloucester, Ont., K1J 7K5	
Directors	David Anderson	299A Craig Henry Avenue	225-0886
	VE3JTZ	Nepean, Ont., K2G 4E9	592-2122
	Bill Neil	1476-E Heatherington Rd.	521-4966
	VE3WSN	Ottawa, Ont., K1V 6S1	990-0724
	Ralph Thomas	2180 Benjamin Ave.	729-9252
	VE3GG	Ottawa, Ont., K2A 1P4	
Packet Group	Dick Atkinson	20 Mancil Drive	825-5619
Chairman	VE3JBO	Nepean, Ont., K2J 2J5	
Repeater	Harrie Jones	2-147 Arlington Avenue	237-6427
Chairman	VE3HYS	Ottawa, Ont., K1R 5S6	233-6241
Net Manager	Wayne Greenough	5 Summer Street	836-5320
	VE3JSQ	Kanata, Ont., K2L 2L3	724-5464
Emergency	Ken Kendall	777B Springland Drive	731-0892
Coordinator	VE3IHX	Ottawa, Ont., K1V 6L9	
EMI Committee	Ralph Cameron	30 St. Remy Drive	825-1634
Chairman	VE3BBM	Nepean, Ont., K2J 1A3	225-2850
Membership	Peter Hafichuk	118 Ivy Crescent	745-0608
Chairman	VE3LBW	Ottawa, Ont., K1M 1X6	993-1740
National Cap.	Brian Summers	2231 Hillary Avenue	523-1535
Award Manager	VE3JKZ	Ottawa, Ont., K1H 7H7	996-7885