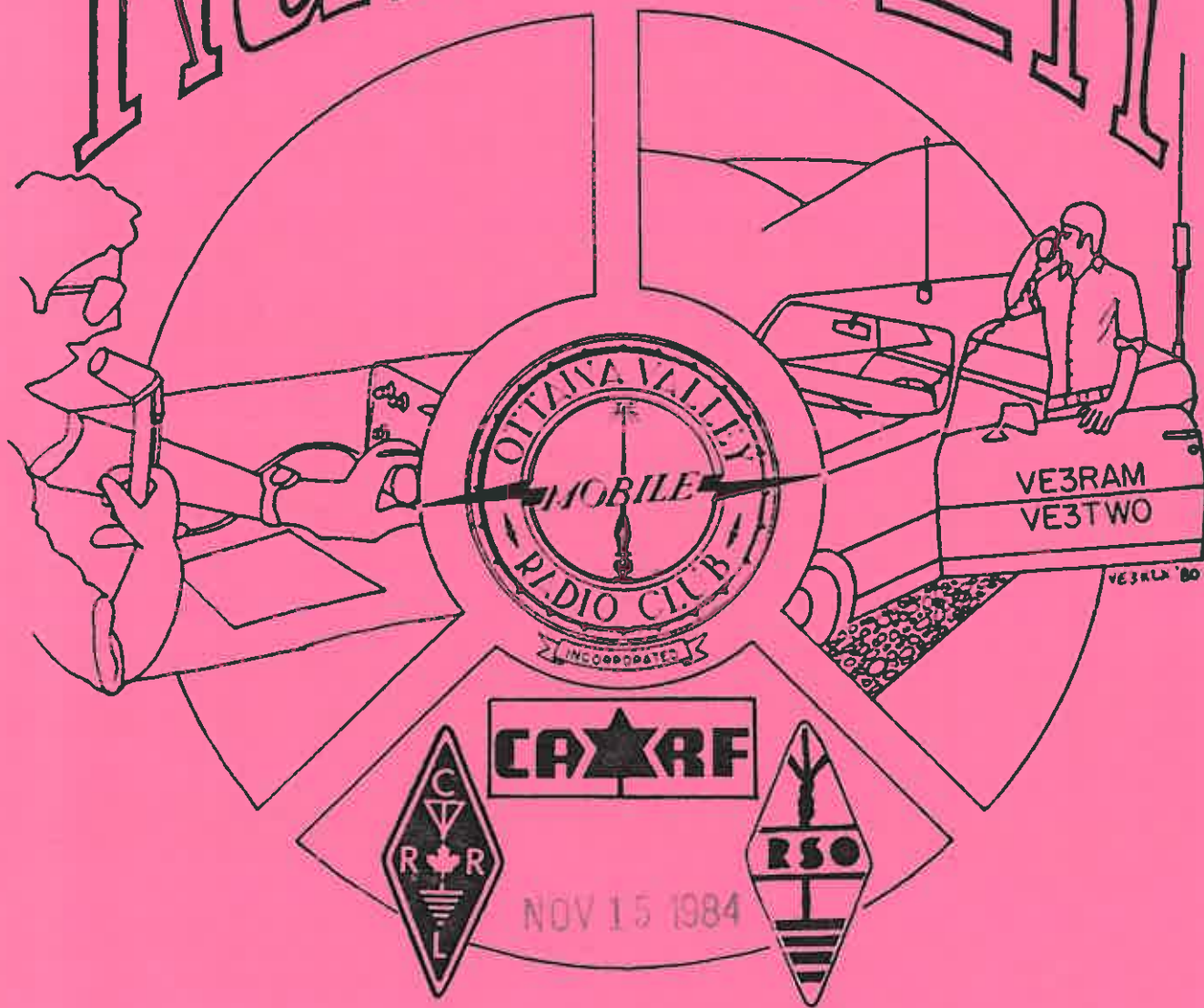


RÄMBLÄR



THE OTTAWA VALLEY MOBILE RADIO CLUB INCORPORATED

1984-1985 EXECUTIVE

PRESIDENT	Pat Brewer	VE3KJQ	725-1528
VICE PRESIDENT	Vance Johnson	VE3OAO	824-9555
SECRETARY	Bob Campbell	VE3KLK	729-7536
TREASURER	Fred Haire	VE3NJP	737-4638
TECHNICAL ADVISOR	Mike Shacklock	VE3LAR	523-1571
PUBLIC RELATIONS	Alan Boyce	VE3LNH	737-4937
EDITOR	Jerry Wells	VE3CJS	225-7374
PAST PRESIDENT	Jave Coutts	VE3KLX	829-2537

CLUB SPONSORED ACTIVITIES

POT HOLE NET - OVMRC Net - Every Saturday and Sunday, 10:00 local time on 3.76 MHz SSB. All radio amateurs are welcome to participate.

THE WISE OWL NET - OVMRC Net - Ragchew net each Friday evening at 20:00 local time on the club repeater VE3TWO - 147.30/147.90 MHz.

CODE PRACTICE - Transmitted on VE3TWO by Dave, VE3KLX Wed. at 1900 local, 18, 15, 13, 10 and 7 wpm. Friday at 1900 local 40, 30, 25, 20, 18, 15 and 13 wpm.

VE3JW - Amateur Radio Station of the National Museum of Science and Technology. The OVMRC helps maintain the station and schedules operators for the station as part of an Amateur Radio public relations display. VE3JW operates on all HF Bands, both CW and phone. Slow scan TV is also demonstrated.

LOCAL AMATEUR RADIO ACTIVITIES

POT LID NET - Sponsored by Ed, VE3GX. An informal slow speed CW net meeting each Sunday (except July and August) at 11:00 Hrs on 3.62 MHz, to provide and stimulate interest and proficiency in CW procedures.

CAPITAL CITY FM NET - Sponsored by the Ottawa Amateur Radio Club Inc. every Monday night at 20:00 Hrs. Conducted on VE2CRA repeater 146.94/146.34.

SWAP NET - Sponsored and conducted by Ed, VE3GX, each Sunday as a part of the Pot Hole Net and each Monday as a part of the Capital City FM Net (except July and August). Ed may be reached at 733-1721 for listings and queries.

ALL CONTRIBUTIONS TO THIS BULLETIN GLADLY ACCEPTED

Membership in the OVMRC is open to all those interested in Amateur Radio. Regular meetings are held on the third Thursday of each month (except July and August) at 20:00 Hrs unless otherwise posted. Meetings normally take place in the auditorium of the Museum of Science and Technology on St. Laurent Blvd. (south of the Queensway)

THE VIEWS FROM THE TOP

The big news from the Presidential Palace this month is that it has moved. I am now a resident of Bells Corners. After five years in an apartment I can now put up an antenna and really operate on HF. If you want to update your directory I now live at 17 Tybalt Cres., Nepean, Ontario, K2H 8J6. My new phone number is 820-9309, and my work number is the same.

With the RSO convention a thing of the past, club activity has slowed down to a more leisurely pace. The amateur radio course is moving along nicely. We have lost two students and picked up one more. Right now we could use some people to volunteer as "mentors". A mentor is someone that the students can call when they need extra help between classes. If you would like to help in this way please contact one of the "gang of four" (FSN, LAR, KLX, KJQ). Thanks to the efforts of Bob VE3KLLK, we now have a fitted, padded case for the club rig. Once I am a little better settled into my house I will be ordering the power supply and antenna for the club rig. If you are one of the club members who hasn't picked up your Ottawa area directory from Mike VE3LAR, do so soon or we will be making it available to other club members. Don't forget the OARC "Flea Market" on November 10. The annual OVMRC club banquet is this month. For more information see Alan's article in the Rambler. If you have not renewed your membership yet, this will be your last Rambler. Please do it now before you forget again.

I hope to see you at the November 15 meeting. This will be our second annual "computer night".

de Pat VE3KJQ

TECH TALK

There are a few things I must do before I get into some technical things. First I must express my appreciation to a small number of people who helped me with the Registration activities at the RSO Convention; I apologize for not mentioning their contribution last month. I was assisted by Bill, VE3YK; Pat, VE3KJQ; Jim VE3GJY; Alan VE3LNH; Joyce Wells, Betty Fraser and my wife Ellen. There may have been others that helped out too but the weekend is too much of a blur in my mind now! Thanks!

The next thing I should do is correct an error I made in the last Rambler. I neglected to finish off the schematic leaving off one line. So here it is "-----". But seriously folks, if you have your copy of the October Rambler handy please draw a vertical line downward from the bottom centre of the IC until it intersects with the horizontal line below. Sorry, I guess the quality control department will have to make up a report on that one.

The next thing I would like to mention, seeing as I have your attention, is something to do with two metre repeater activity. Procedures at that! "Break!" or "Break-Break!" When should you use them? Almost never! Good repeater users always leave a second or so before they go back to the other party (or parties) to leave room for someone to get in whether there is a courtesy Beep, timer or whatever. This someone, having been given the chance to get in

should simply give his (her) callsign and wait to be acknowledged. IF, however, there is some URGENT traffic to pass, use the word "Break!" ONCE. If there is a life and death situation going on, which you must report or get assistance, by all means use "Break-Break!". I don't know of any law which states the above but it does make good sense.

Well that was quite a bit and I didn't get too technical did I? Perhaps I'll leave it at that for now and see what I can dig up for next month. Vance, VE3OAO, our VP, has given me a suggestion to expound on the "J" portable antenna. I believe that was the one that Jack Belrose, VE2CV, wrote about in TCA a few years ago. That sounds like a good idea. Once again, if you have any ideas for articles or projects (not too complicated now!) please let me know and I'll see what I can do. So -

TTFN
Mike - VE3LAR

PROVINCE OF ONTARIO QSL CARDS

There are still a few bundles of the Ontario Bicentennial QSL cards available. If you can use them, get them out to the rest of the country or the world for that matter, give Mike, VE3LAR, a call at 523-1571 to make arrangements to get them.

FINANCIAL STATEMENT

Brought forward from previous report3,053.66

REVENUE

Interest	14.81	
Memberships	213.00	
Course fees	39.00	
TOTAL CASH	266.81	3,320.47

EXPENSES

Course tape recorder	149.75
Paper & pens code test	7.79
Zurich Insurance Co.....	192.00
Total expenses	349.54

CASH ON HAND2,970.93

1984-85 Budget anticipated expenditure to 20 Jun 851,270.93

Estimated uncommitted balance to 20 June 851,700.00

Fred VE3NJF

MINUTES OCTOBER MEETING

The president called the meeting to order at 2002 hours and introduced the visitors.

The minutes of the September meeting were approved on a motion by Vance VE3OAO, seconded by Art VE3ZS.

COMMITTEE REPORTS:

PRESIDENT: expressed his thanks to club members who actively participated in the recent RSO Convention. He particularly mentioned VE3LAR, Mike who handled the entire registration for the convention; VE3NJF, Fred for supervising the OVMRC hospitality suite; VE3NJJ, George who took on the chore of treasurer for the Convention; and VE3KLX, Dave who gave able assistance at the CW Proficiency tests.

VICE-PRESIDENT: VE3OAO, Vance reported the current membership at 87 members.

TECHNICAL ADVISOR: VE3LAR, Mike offered a special thanks to all who helped at the Convention, particularly those who assisted him at the Registration Desk.

PUBLIC RELATIONS: VE3LNH, Alan, spoke concerning the Museum Station VE3JW and asked for more volunteer operators to fill in gaps in the roster. Alan also asked for an indication of the number of members interested in attending the banquet during the latter half of November.

RAMBLER EDITOR: VE3CDS, Gerry reminded members of the need to provide articles for the RAMBLER.

CARF: VE3ZS, Art, reported that the DOC Study of the Amateur service was almost complete. He also tabled the agenda for the next meeting for those that wished to make submissions.

RSO: Merv, VE3CV reported that the RSO had been successful in having the fee for Special "Amateur" vehicle licenses restored to the former \$25 level from the current \$100. He suggested members withhold applications until all motor license issuing offices were fully aware of the change.

The President presented Convention CW Proficiency Run Certificates for perfect copy (at the speeds shown) to VE3BAJ (20 WPM VE3NVL, (15 WPM) and VE3GVI (15 WPM).

The VE3FSN project to install a "Call Ham" telephone is still encountering problems with Bell Canada.

The Amateur Radio Course is seeking "Mentors" to aid students.

Authority to purchase a suitable power supply and a Mag-Mount antenna for the new club VHF rig was approved on a motion by VE3KLK seconded by VE3LNH for a total expenditure of \$185.

To complete the inventory of club property, members should report any club equipment currently in their care.

Responding to a question VE3CV, Merv reported the delay in linking area repeaters is due to lack of some decisions (ah Bureaucracy!!!)

The November meeting will be a Computer evening.

Date of next Executive meeting flexible???????

THE MEETING ADJOURNED ON A MOTION BY VE3GOG SECONDED BY VE3LAR

Have you renewed your membership? This will be the last issue of the Rambler that you will receive if your renewal is not received by the club before the end of November. Take a few minutes and write out your cheque now.....

OTTAWA AND EASTERN ONTARIO CALL DIRECTORIES

The following people have yet to claim their free Ottawa and Eastern Ontario Call Directory.

VE3AAW	VE3ABC
VE3GQE	VE3JQJ
VE3KHP	VE3KMG
VE3LC	VE3MSJ
VE3NPG	

You may claim your Directory by contacting Mike, VE3LAR, at 523-1571. They cost \$0.85 to mail so if you want it mailed to you, send a SASE to him at 2133 Lemay Cres., Ottawa, K1G 2X5. If these 9 Directories are not claimed by 30 November, 1984, they will be made available for sale to any interested Amateur and the funds returned to Club.

QUA VE3OAO

The OVMRC is pleased to announce to all our readers that we have four new members that have joined during this past month. They are: Brice Wightman, VE3EDR; Ted Turner, VE3JGQ; Mrs. Siegrid Preis, VE3OMF; and Margaret Hughson (Family Associate member to Mike, VE3DVH).

In addition to the above listed new members a total of 69 renewals have been received. There are still approximately 29 members from last year that have not renewed.

Editors Note

Vance had listed all of the renewals by call sign which is quite a job of typing. We will provide a list of paid up members in the December issue of the Rambler. If you haven't renewed you will not be on the list. Send in your dues now!

P.S. I renewed my membership last week.

73 Jerry VE3CDS

Even with the "Red-dot-on-the-mailing-address-label" campaign, some people may not have noticed these red dots and are unaware that they haven't renewed their memberships because they continue to receive the RAMBLER every month. This is the last issue you will get unless you renew your membership NOW!

The OVMRC memberships for the '84-'85 year now stands at 97!

73 Vance Johnson
Vice President SK

Congratulations to Tom VE30FM. Tom recently passed his advanced ticket and he is busy checking into the various phone nets on 75. Well done Tom!

If you have not renewed your membership do so now.

Congratulations also to Bill, VE3OAI on getting his advanced ticket. Well done Bill! Bill is an OVMRC course Grad.

A SIMPLE RESISTIVE AUDIO MULTIPLE DISTRIBUTION SYSTEM

By Stephen Mendelsohn, WA2DHF

The time comes in any ham's life when he is called on to do public service work of one type or another. If he is public relations oriented he may want to take the audio from his receiver and feed it to several broadcast audio tape recorders, or the audio input to a commercial video tape recorder. These devices all use a 600 ohm balanced input. The receiver frequently has an output that is 8 ohms, unbalanced. The trick of designing an audio multiple output distribution system, or "mult box" as it is known in the broadcast trade, is to match the drive impedance (the receiver) to the load impedance for the broadcast equipment. Levels are the second thing that one must match. The input to most of the

broadcast equipment is either "mic" level which is -45 to -60 dB at 600 ohms, or "line" level which is -10 to -25 dB at 600 ohms. The output of the average receiver, whether 2-meter fm or low bands, will vary between plus 6 and -10 dB at 8 ohms. Now that we have all of the required data, how do we make it all work together?

If you take the output of your headphone jack and connect it to the line input jack on a piece of professional equipment, you may wind up with lots of hum and distortion. This is because the impedances are badly mismatched. To use an antenna term, the SWR is too high. The hum will be from a lack of isolation. What we need is a resistive device that will perform three functions. 1) Isolation of the source from the load; 2) Match different impedances and 3) Drop the line level output of the receiver to a mic level satisfactory for the broadcast equipment. This requires the design of two different types of audio pads. Each pad is designed using common resistors that could be assembled on a standard perf board using "flea" clips to allow connections to be made to the equipment.

Section A of the pad is a standard "0 pad". It acts to give isolation, and match impedances. Because not all receivers give the same audio output, several values of resistors (listed in table 1), which will give various levels of attenuation. In all cases the driving impedance is 8 ohms, and the load impedance is 600 ohms.

Section B of the pad is designed to take a single input and produce 4 outputs at 600 ohms with a 12 dB loss between input and output. In each case the four outputs will be isolated from each other, and provide correct level. All resistance values are 610 ohms for this section.

The resistors are all standard value half-watt types that can be found in a junk box or purchased at a parts store for a dollar or two. The resistors may be laid out in any fashion within reason. Keep the leads short since RF can creep into anything. In most cases, the broadcast equipment will be clipped on with small alligator clips provided by the reporter, but it doesn't hurt to have a Sony type mini-plug connected to one of the outputs. If you can save the reporter even one step, it will help to assure your story getting on the air. And getting the story on the air is the name of the game in the public relations business.

See schematic on the following page.

INPUT 8 ohms from receiver
 Outputs 600 ohms to recording equipment

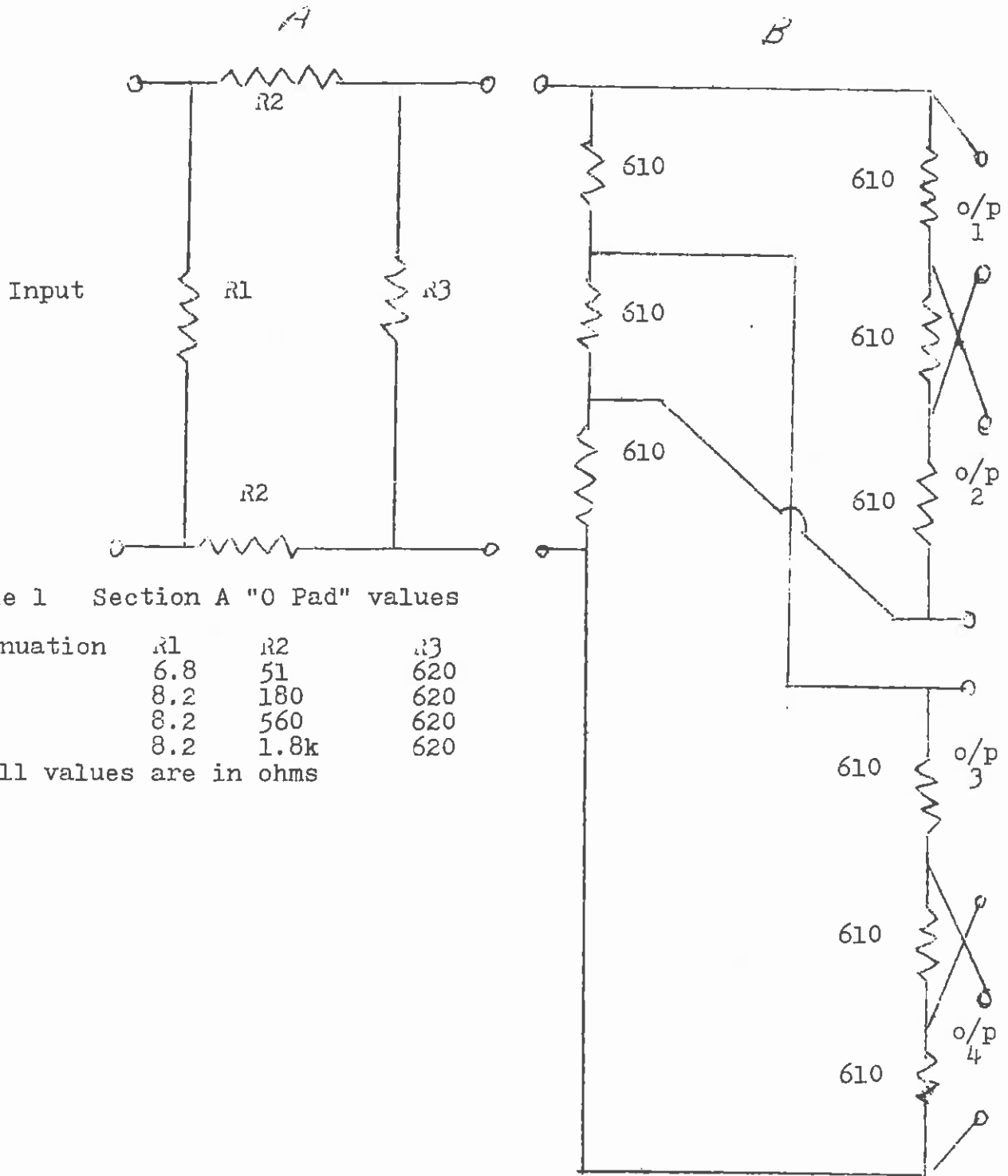


Table 1 Section A "O Pad" values

Attenuation	R1	R2	R3
10dB	6.8	51	620
20dB	8.2	180	620
30dB	8.2	560	620
40dB	8.2	1.8k	620

All values are in ohms

OVMRC BANQUET

Based on the recommendation of several members of the executive, and having a committee of investigation (VE3LNH & VE3KVV) assess the quality of their egg rolls, the Dragon Tavern at 971 Montreal Road has been selected as the location of the OVMRC Fall 1984 Banquet.

This event is to take place starting at 6:00 PM on Saturday November 24th and the menu is open. The Dragon offers a wide range of Cantonese and Szechuan food, and even offers sweet & sour chicken balls and forks for the less adventurous.

All club members, their families, and friends are welcome to attend; the dress is casual and there is no formal program. In other words the emphasis is on socializing, eating, and TSING-TAO (come and find out).

Anyone interested is asked to inform me by the 15th Nov. meeting, although arrangements can be made as late as Wed. Nov. 22. we hope to see you there.

Alan VE3LNH
737-4937

The Dragon Tavern
971 Montreal Road
at Bathgate Drive
Saturday Nov. 24th
6:00 PM

VE3JW

I spent Monday evening at the station working on a few of the bugs that have been giving problems to operators. The mic cord was re-soldered, so there should be no more RF in the audio, and several loose screws and connectors inside the TEN-TEC were tightened. Among other things, this should prevent the pre-selector from mysteriously re-adjusting itself.

On Wednesday November 14th a meeting will be held to plan next year's activities and budget for VE3JW. Special projects such as RTTY and SSTV will be discussed along with regular operation and scheduling. Any and all are welcome to attend, and other area clubs are invited to send representatives.

The meeting will be in the National Museum of Science and Technology at 7:00 PM on Wednesday November 14th. It will be brief; I don't like long meetings either.

Alan VE3LNH

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THE OTTAWA VALLEY MOBILE RADIO CLUB INC.
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FROM CRRL NEWS

Good news for Ontario amateurs. Thanks to the efforts of the Radio Society of Ontario, cost of call letter licence plates will soon be reduced from \$100 to \$25.

South of the border, FCC has released a Notice of Proposed Rulemaking, which, if adopted, will close the U.S. 10.109-10.115 MHz window in the 30-metre band, remove the 250 watt power limit from that band, give early access to part of the 12-metre WARC band, end routine operation along the Canadian border on 420-430 MHz, and give amateurs everywhere in continental U.S.A., except in Colorado and Wyoming, access to the 902-928 MHz band. Canadian amateurs have had access to the 902-928 Mhz band for some time, but have been limited to A3 or F3 transmissions. DOC is now proposing to allow other modes, on condition that amateurs check with a district DOC office before beginning to transmit. This would be to prevent interference with other services that will be primary users of this band.

CQ Magazine will return to the VHF contest scene after a ten-year absence. A CQ VHF WPX Contest will be held each year during the third full weekend in July. This new contest will be modelled after the popular CQ WW WPX Contest.

The next North American Teleconference Radio Net will be held at 0000 UTC, Sunday December 2. Lyle Johnson, WA7GXD, President of the Tucson Amateur Packet Radio Society, and Harold Price, NK6K, Project Manager of PACSAT, will speak on "Packet Radio: an Overview and Perspective". For information on how you can link your repeater into this net, contact the TRN Net Manager care of Midway Amateur Radio Net, Box 1231, Kearney, Nebraska 68847.

CRRL members in the Atlantic, Ontario and Prairies Regions: deadline for returning ballots in this round of CRRL Director elections is November 20.

DOC didn't give out many secrets at the recent Radio Society of Ontario Convention held in Ottawa. Concrete proposals on "deregulation of mode subbands" are still a long way off. Apparently, the Privy Council Office must now approve proposals even before they are released for public comment. This is taking six to eight months for high-priority items and changes in Amateur Radio regulations aren't in that category. On "restructuring the Amateur Service", DOC indicated they were looking at a variety of approaches, including some form of "communicator's licence" for those who want to become radio amateurs but may not have a need for technical knowledge at the level required for the Amateur licence, or for Morse Code.

What's the current amateur population of Canada? According to DOC, here's the breakdown as of 1984 August 24: British Columbia - 3916, Alberta - 1928, Saskatchewan - 791, Manitoba - 791, Ontario - 8633, Quebec - 4016, New Brunswick - 722, Nova Scotia - 1118, Prince Edward Island - 206, Newfoundland and Labrador - 456, Yukon Territory - 51, and Northwest Territories - 69, for a total of 22,697 amateurs in all. The Amateur Service is growing, but only by 3-4% a year. Total amateur population for March 31, 1983 was 21,822, for 1982 March 31 was 21,225.

NOTICE OF MEETING

The next regular meeting of the Ottawa Valley Mobile Radio Club will be held at The Museum of Science and Technology on St Laurent Blvd. Meeting starts at 3 pm. See you there.....

HALLEY'S COMET

Halley's Comet will pass through the inner part of the solar system in less than two years. This exciting event is now the subject of much activity and planning. The comet itself was recovered (identified for the first time on a photograph) very near the predicted location with the 5 metre (200 inch) telescope at the Hale Observatory on Palomar Mountain on October 16, 1982. It was then over 11 times the Earth's average distance from the Sun, more distant than the planet Saturn and so faint that only the largest telescopes with the best detectors could hope to find it. This established a new record for the most distant recovery of a comet.

In April 1984, a year and a half after its recovery, the comet is about 6.4 times the Earth's distance from the Sun, or halfway between Saturn's and Jupiter's distance, and is travelling at 13 kilometres every second. By January 1984 it will reach Jupiter's distance and its velocity will have increased to 16 kilometres per second.

Several large telescopes have been monitoring the comet since its recovery keeping track of its position, its apparent and, since late 1983, recording its spectrum. These early observations will be used to determine at what point the volatile material from the comet's nucleus begins to evaporate and forms the coma. One of the major goals of the research into the present return of Halley's Comet is to learn more about the physics and chemistry of this gaseous material as it escapes from the nucleus. Recent examinations of the observations made at the previous approach in 1910 raise the interesting possibility that the brightness may have been underestimated due to difficulties in measuring all of the light from a diffuse object relatively close to the Earth. This may mean that the coming apparition, (late 1985 and early 1986), will be brighter than early predictions - most welcome news for those observers planning to watch the comet with binoculars or with the naked eye.

Halley's Comet will be observed intensively by ground-based telescopes, from Earth's orbit and by space missions that will fly past the comet at a very high velocity. Astronomers throughout the world are cooperating to insure that the best use is made of observing facilities. The International Halley Watch (I H W) is coordinating plans in each of seven specialized types of observation. The I H W has teams of Discipline Specialists in the seven areas and world-wide networks of observers to keep the comet under continuous observation during periods of special importance called Halley Watch Days. An important test of the system was conducted during the March 1984 using a lesser object, Comet Crommelin, as a target.

Final decisions on the space missions have now been made. Launch dates for the three flyby missions, which involve five vehicles, are scheduled between December 1984 and July 1985. Information on these missions and the experiments to be conducted from satellites above the Earth will be given in the next Bulletin of this series.

This bulletin available through the cooperation of:
 The Royal Astronomical Society of Canada
 The Herzberg Institute of Astrophysics, NRC
 The National Museum of Science and Technology

(the next bulletin in this series will be published in
 the Rambler)

VE3JW SCHEDULE

		<u>MORNING</u> <u>10AM-1PM</u>	<u>AFTERNOON</u> <u>1PM-4PM</u>
Nov. 10 Sat	Bob VE3MFG & Russ VE3LOW		Lloyd VE3AYE & Fred VE3NJF
11 Sun	Open		Dick VE3EYJ & Marjorie VE3CAM
17 Sat	Open		Alan VE3LNH
18 Sun	Open		Open
24 Sat	Open		Fred VE3BAJ & Jim VE3GJY
25 Sun	Dan VE3EBI		Susan VE3OSP & Joan VE3OSE
Dec. 1 Sat	Rick VE3NJM & Gord VE3OSM		Jerry VE3GDS & Vance VE3OAO
2 Sun	Open		Dave VE3GOG & Tom VE3OPM
8 Sat	Merve VE3CV & Bill VE3YK		George VE3NJV & Leo VE3NVL
9 Sun	Dave VE3OSY & John VE3FKF		Joan VE3OSE & Susan VE3OSP
15 Sat	Don VE3ATJ & Bucky VE3JRR		Bob VE3JDB & Rick VE3HVA
16 Sun	Open		George VE3BNO & Fran VE3HKG

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