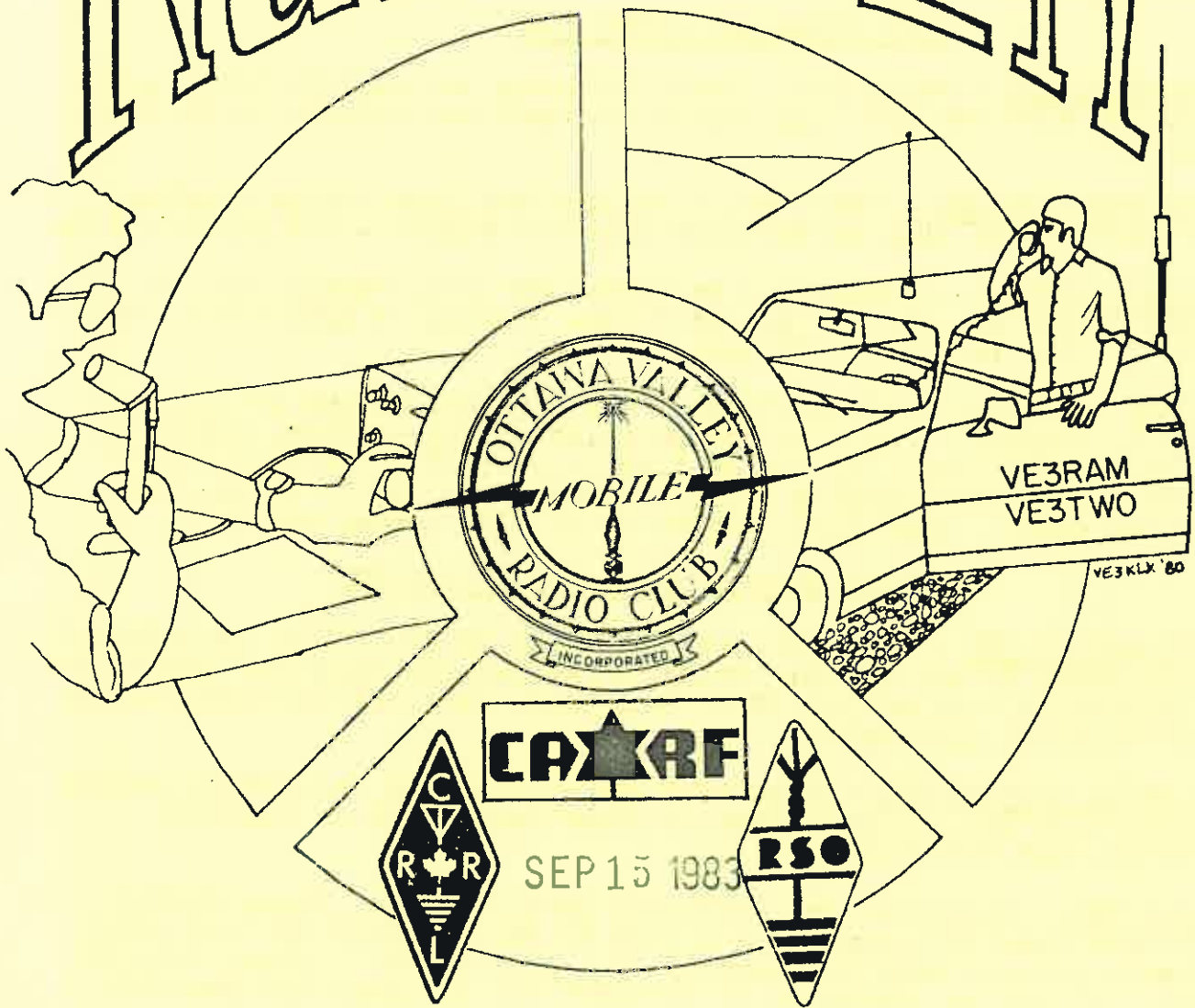


RÄMBLER



THE OTTAWA VALLEY MOBILE RADIO CLUB INCORPORATED

1982-1983 EXECUTIVE

| | | | |
|----------------|---------------|--------|----------|
| PRESIDENT | Dave Coutts | VE3KLX | 829-2537 |
| VICE PRESIDENT | Pat Brewer | VE3KJQ | 725-1528 |
| SECRETARY | Bill Seyler | VE3OAI | 836-5818 |
| TREASURER | Vance Johnson | VE3OAO | 824-9555 |
| TECH ADVISOR | Bill Balke | VE3NPG | 727-0743 |
| PUBLIC REL. | Les Patterson | VE3KHD | 828-9860 |
| EDITOR | Jerry Wells | VE3CDS | 225-7374 |
| PAST PRESIDENT | Russ Pastuch | VE3FSN | 828-9235 |

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 - 147.90/147.30 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, schedules and provides 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 Amateur TV is also demonstrated.

LOCAL AMATEUR RADIO NET ACTIVITIES

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

CAPITAL CITY FM NET - Sponsored and operated by the Ottawa Amateur Radio Club Inc. every Monday at 20:00 local time on repeater VE2CRA, 146.34/146.94.

SWAP NET - Sponsored and conducted by Ed, VE3GX. Every Sunday (except July and August) as a part of the POT-HOLE NET and every Monday (except July and August) as a part of the Capital City FM Net. Ed may be contacted at 733-1721 for listings and queries.

ALL CONTRIBUTIONS TO THIS BULLETING GLADLY ACCEPTED

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

CHIEF BRIEF

This is my own attempt at an equivalent to the Prez Sez. It is incredibly difficult to start without the word "Well". So, to start the club year right, I have avoided this tiresome practice.

Your executive has already met twice and are busily trying to get our mobile machine under way. Getting the bank account going is proving to be most difficult when the executive members are geographically far apart. Things to sign, deadlines to meet, are all in a day's work for the OVMRC executive.

By the time the Rambler hits the newstand, the Wise Owl Net and the Code Practice will have been reactivated for the new season. September 2 is the big day to get these things rolling again.

The "Big Time" code enthusiasts will be pleased to hear that I have added 40 and 30 wpm to the Friday night session. The other change is that the practice will start at 7 PM. Wednesday night will be for 18, 15, 13, 10 and 7 wpm. Friday night will be for 40, 30, 25, 20, 18, 15 and 13 wpm.

That's it for now. See you on September 15th.

DAVE, VE3KLX
PRESIDENT

V.P. VIEWS

It seems like only yesterday that it was May. Time always goes by faster in the summer. Here I am back again, in a new office, but with the same furniture. Actually I have retained some of my former duties as treasurer. Under our revised Constitution, the Vice President is now responsible for the membership. This means that you now give your membership applications to the Vice President instead of to the Treasurer. There is an application in this issue of the Rambler or you can see me at a meeting.

Once again the "Gang of Four" will be running the Amateur Radio Course. Classes start September 13, so if you know anyone who is interested please see Russ, Mike, Dave, or myself. If you are interested in helping us with the course as a "mentor" or otherwise let us know.

In July I found that two more of our students have passed the DOC exams. Frank Duncan passed some time ago, but decided to keep it a secret. He passed everything on the first try and is now waiting for a special call sign to come up before getting his station licence and going on the air. Gerry Wall passed the code in July and is now VE3OFT. You may hear him on 2 meters. Recently the code portion of the exam has undergone some changes. DOC is now using headphones instead of those terrible speakers. Gerry says that there was no problem copying the code this way. They have also changed the format of the text. It is now similar to WIAW practice sessions with groups of numbers following the plain language. We understand that the sending test will be brought back starting in February.

As a parting comment I would ask that the person who took the new Treasurer please return him to the executive. He disappeared at the end of June and hasn't been seen since.

Pat Brewer VE3KJQ
Vice President

WHAT TWENTY METRE PHONE - BAND EXPANSION?

Well how are you finding the band now our American friends have come down to 14,150KHz? Frankly I thought it was going to be a disaster. I had gloomy friends who professed all kinds of dire consequences. I remember one in particular; 'The South Americans will move down into the CW portion of the band'. Since I operate mostly on CW I paid particular attention to this one and sure enough, about a week after the changeover I found a couple of Spanish speaking phone stations at about 14,180KHz. Its the beginning of the end, I thought, gloomily expecting the plague to slowly creep down in frequency until I would be squeezed into the last few kHz just above 14,000. But what happened? I never heard another phone QSO below 14,000! "Never" is perhaps too strong a word, just now and then I would hear brief signs of distorted audio somewhere within the sacred 100 KHz but only very rarely. The threatened invasion just didn't materialize.

"You don't operate much phone, Paul, how can you tell what the effect of the expansion has been?" That's a fair comment, I suppose, however I quite often take a quick look at the old segment we used to enjoy without US stations and though the portion 14,200 down to 14,150 is very busy I've never found a time when I couldn't find a few quiet frequencies in the 50 KHz below it. I gather some of the regular nets have moved down below 14,150 and really, there's plenty of room for them in that lower half of the band, it was never fully occupied, just a few French speaking stations congregating in the bottom 20 KHz, as I recall.

To give you an example of how 'our' portion of that 100 KHz is still perfectly usable let me tell you about my regular sked with my friend Stan, 2LLASO, which has been going on now for some 3 months, once a week. When I set it up I was a bit dubious about how often we would be able to get through. The sunspot cycle is declining month by month and what about the new pattern of usage on 20 metre phone now the US band has been expanded? I picked a frequency inside our remaining 50 KHz and time when propagation to the South Pacific is at its best and what has happened? We've made contact every sked we set up! Mind you signal strengths in both directions have been low, sometimes pitifully low, as Stan only has a dipole in his back yard, but we got through every time. That sort of regularity doesn't sound like manifestation of a stricken band rendered useless by an invasion from South of the border!

Let me finish these meanderings with a glimpse of a 20 metre paradise I sampled just a day or two ago. Imagine a quiet band, open to the Pacific. As I tune up from the bottom of the CW portion I hear a CQ, completely in the clear, at about 589.

I wait expecting to hear that its a North American station. He signs 'de FK8BM', New Caledonia. I grabbed the key and squeezed off a reply conscious as I reached forward that someone else was also replying. When I finished my call the FK8 came straight back to me and we had a nice QSO absolutely solid in both directions and no QRM. Tuning further up the band I hear a T32... just signing. That one did get away but by going QRT, I didn't hear him coming back to anyone else, indeed nobody else had even noticed that he was there! What about the phone portions of the band? I started at 14,100 and slowly moved up the band checking every signal. It was clear from the accents that the vast majority of the transmissions were from stations in the Pacific area, I think I noticed 2, I repeat 2 only, US stations in those 250KHz. Up at 14,220 I found a strong Australian signal which turned out to be the redoubtable Jim Smith, VK9NS, running a DX net whose check ins seemed to be almost exclusively stations from around the Pacific. He had a 3X4 on the side who was weak with me but just readable and when I gave Jim a quick shout for information he came back immediately. It was obvious I was putting a good signal into Norfolk Island. Does it all sound a bit unbelievable, some extraordinary aberation of propogation that opened the Pacific to VE3 and VE3 only? Not so, my friends, there is a simple explanati n and you to can experience the joys of the 20 metre band empty of North American stations and full of DX of various kinds. How? Just do what I did the other night, get up at 3.30am local time and spend time in the shack instead of wasting your precious HMMIS asleep!

Paul Cooper VE3JLP

FROM CRRL NEWS

CRRL President Tom Atkins, VE3CDM, represented Canadian amateurs at the Triennial Conference of IARU, the International Amateur Radio Union, Region 2, held in Cali, Colombia, on June 6-11. Tom was elected to the executive committee of IARU Region 2, and will serve as treasurer for the next three years. Full details on this important conference will appear in September QST.

CRRL did file a formal submission with FCC, protesting FCC's plans to expand the U.S. phone subbands on 10, 15 and 80-metres. CRRL said that Canadian amateurs were particularly concerned about possible expansion on 80-metres, and warned that if FCC went ahead with its proposals, Canadian amateurs would likely call for expansion of their own, into the region between 3675 and 3700 kHz. This would certainly have an adverse effect on U.S. cw operation now on these frequencies.

From all reports, amateur participation at the 1983 World Scout Jamboree, held in Kananaskis County just outside of Calgary, was a huge success. In ten days of operation, special-event station VE6WSJ made over 1500 contacts and gave over 4000 scouts from all over the world a first-hand look at Amateur Radio.

THE OTTAWA VALLEY MOBILE RADIO CLUB INC (OVMRC)
IN ASSOCIATION WITH RHO-MAR TRAVEL TREND (TRAVEL TREND)
PRESENT
DAYTON HAMVENTION TRIP '84

The Event: -Dayton Ohio Hamvention '84.
The Dates: -26, 27, 28 and 29 April 1984.
Includes : -Bus Transportation via Carleton Bus Lines highway bus.
 - Hotel Accomodation at Days Inn North, Dayton, Ohio
 (based on double occupancy).
 -\$1,000,000 Hospital and Medical Travel Insurance.
 -Transportation to and from the hotel and Hamvention
 site 27 and 28 April 1984.
The Cost : -\$150.00 Canadian Funds.
Leave : -12:00 Hrs 26 April, 1984 (pick up points TBA).
Duration : -13 Hours (approx). Includes two rest stops.
Return : -Depart Dayton 08:00 Hours Sunday, 29 April 1984.
Numbers : -Limited to 47 persons.
Seating : -An attempt to designate smoking and non-smoking areas
 on the bus will be made.
Accomodation : -Double occupancy. Smokers will be roomed with
 another smoker unless specific requests are made.
Not Included : -Meals.
 - Baggage Handling.
 - Hamvention registration.
Payments : -\$50.00 on booking or prior to 1 March, 1984.
 - Remainder by 30 March 1984.
Documentation: -Proof of Canadian citizenship is recommended and is
 the responsibility of the traveller.
Cancellation : -Up to 30 March 1984, deposit refundable on request.
 - From 31 March 1984 to departure, \$100.00 refundable
 on request. NOTE: on request means in writing and
 received by RHO-MAR TRAVEL TREND.
Liabilities: -The OVMRC and Travel Trend shall arrange for the
services indicated above but these are subject to alteration or
cancellation at any time with or without prior notice for any
reasonable cause. Should it become necessary to cancel this tour
the OVMRC and Travel Trend shall have no responsibility beyond the
refund of all monies paid by the traveller which will be deemed to
constitute full settlement. The OVMRC and Travel Trend shall not
be held liable for the loss or damage resulting from any delays,
substitution of equipment or any act, omission, negligence or any
other fault by the carrier or hotelier nor any additional
expenses caused thereby and the traveller hereby expressly waives
any such claim for loss or damage therefrom.

***** REGISTRATION FORM ON NEXT PAGE *****

WHERE ARE THE 6 METRE HAMS ?

This has been a very good summer for sporadic E conditions. We would be interested in hearing how the local VHF enthusiasts are making out. Drop me a line or call me and we'll get an article in the "RAMBLER"

Jerry VE3CDS

5
DAYTON HALVENTION 1984
TRAVELLER REGISTRATION FORM

NAME _____ CALL _____

ADDRESS _____

CITY _____ PROVINCE _____ POSTAL CODE _____

HOME PHONE _____ BUSINESS PHONE _____

I WOULD LIKE TO SHARE A ROOM WITH _____

I DECLARE THAT I WISH TO BE CONSIDERED A SMOKER / NON-SMOKER

MAKE YOUR \$50.00 DEPOSIT PAYABLE TO RHO-MAR TRAVEL TREND AND MAIL TO RHO-MAR TRAVEL TREND, ELMVALE SHOPPING CENTRE, 1910 ST. LAURENT BLVD., OTTAWA, ONT., K1G 1A4 ATTENTION SUE TEL: 521-7281
OVMRC CONTACT:- MIKE, VE3LAR TEL: 523-1571

AMATEUR RADIO COURSE

Again this year the OVMRC is offering a course for the prospective amateur. The course will give you sufficient background in the following areas:

International Morse Code - Radio Regulations - Radio & Electronic Theory

Armed with this knowledge you will be equipped to take the D.O.C. amateur radio exam.

REGISTRATION

Tues. Sept. 13, 1983 7 - 9 PM
Emergency Measures Organization H.Q., 495 Richmond Rd.

Course Fee

\$60 paid in full at registration. Class size is limited! Each student will receive at no extra cost: Carf Study Guide, Morse Code prep. cassette tape, one yr. assoc. membership in OVMRC.

FIELD DAY 1983

Back in June, after a lot of head scratching about where to go for field day, Merv VE3CV and Bill VE3YK go the OK to set up at the Carp fairgrounds. We set up two stations, one on 80 and 20 the other on 40. Early on a beautiful Saturday morning Merv, Bill and Jerry surveyed the fairgrounds and chose our location. Bill really had things organized right down to templates for the tower guys. We got the towers up and strung the antennas without difficulty.

The 80-20 station we set up in Bill's tent, the 40 m. station in the tent trailer. We were ready for action right on time. Several visitors showed up during the afternoon and evening. We had a good day. Results were just about as good as last year and the band conditions were excellent. Jerry VE3CDS

RSO CONVENTION 1983

Reserve the weekend of September 23rd 1983 for the annual RSO Convention to be held at the Inn on the Park, TORONTO, Ontario. The Inn on the Park is situated near the Ontario Science Centre on a site which includes 500 acres of beautiful parkland. Enjoy swimming, racquet sports and choose from six restaurants. There are walking trails nearby and registrants may make use of complementary bicycles. The technical programme is still being developed. At present there are talks scheduled on a South Pacific DX-expedition, AMSAT Phase III, other OSCAR activities, interfacing home computers to the Ham shack and computer controlled computers.

Social activities include a Friday night "eyeball" session. No formal activities are planned for this event, but a cash bar will be available. Saturday night will be the social highlight, with a banquet featuring good food, music and dancing. There will be a special Ladies program, but the details have not been announced. Registrants to the convention will be able to purchase admission tickets to the Ontario Science Centre at a 20% discount. Talk-in will be provided on two metres by Phil Johnson VE3APZ. For advance registration, send the following information to:

The Radio Society of Ontario, Inc.
P.O. Box 246
Port Credit Postal Station
MISSASSAUGA, Ontario
L5G 4L8

| | | |
|---|-------|----------|
| Number of Registrants (\$7.00 advance registration) | _____ | \$ _____ |
| No. Ladies Registrations (\$2.00) | _____ | \$ _____ |
| No. Banquet Tickets (\$25.00) | _____ | \$ _____ |
| TOTAL | | \$ _____ |

Payment may be made by cash, cheque or Money Order, or you may pay by VISA. Include

VISA Number _____ Expiry Date _____
Signature _____

There will be draws for numerous smaller prizes during the day, Saturday with the major prize draw at the banquet. Ladies registrants will be eligible for a special prize draw. Registration at the door will be \$8.00.

To join the RSO add the appropriate fee to the total above and include it with your registration. Regular membership fees for full member (holder of amateur certificate or licence and resident of Ontario) is \$15 for one year, \$27 for 2 years, \$35 for three years and \$200 for Life Membership (must have VE3 Call for latter). Associate membership for up to three years is at the same rates and is open to anyone (non voting). Any number of members of the same household may join the RSO for an additional \$3.00 per person per year. If you wish to join the RSO, include your Call and class of membership desired. In registering for the Convention be sure to include your Name _____ Call _____ and Postal Address _____

Above information courtesy of Ottawa Amateur Radio Club "Groundwave"
Remember-next year the RSO convention will be in Ottawa.
Enjoy the convention!

OVMRC MEETING 16 JUNE, 1983INTRODUCTION:

President Russ - VE3FSN opened the meeting at 20:04. Twenty-six members and guests were present.

MINUTES OF MAY MEETING:

Rene - VE3JKR moved that the minutes be accepted. Seconded by Bob - VE3KLK, the motion was passed.

OLD BUSINESS:

President : Nil report.

Vice President: Dave - VE3KLX thanked the following individuals for assisting with communications for "Operation Horse People: Bob VE3KLK, Joyce and Jerry VE3CDS, Marion and George VE3NJN, Russ VE3LON, Mike VE3LAR, Kit and Bill VE3NPG, Gert DF605, Lloyd VE3FHC. He also reminded the club that there are two more "Wise Owl" nets and two more practice sessions before summer break starts.

Secretary: Nil report.

Editor: Nil report.

Technical Advisor: Absent.

Public Relations: Mike - VE3LAR reported that the OARC has begun planning for the 1984 RSO convention in Ottawa. Chairpersons are being sought for various posts such as: publicity and exhibits, technical entertainment, ladies program, banquet, etc. The convention will be held in the new Weston Hotel. Mike also represented the club at a recent meeting for linking Ottawa repeaters in southern Ontario. The group is looking for parts and equipment for 450 Mhz (diplexer, heliex cable, antennas). Assembly will start in the fall. The link will be open and available to all hams. Donations from clubs and individuals are requested to help support the project. Mike closed by thanking all members who participated in "Meters for Millions".

Treasurer: Absent.

Field Day: Bill - VE3YK announced that he and Merv - VE3CV are setting up a field day site at the Carp fairgrounds. Maps are available and all members are welcome to participate.

RSO: Merv - VE3CV reported that the European satellite was successfully launched. He also noted that VHF propagation was very good.

CARF: Bill - VE3NR reported that the National Amateur Radio Symposium will be held at the Nova Scotian Hotel in Halifax on Oct. 15, 1983. He also reported that amateurs are not happy with DOC docket TRC24, so CRRL and CARF are getting together to try and improve it.

CRRL: Ray - VE3FN echoed Bill's comments concerning TRC 24. Although major changes are recommended, DOC will accept only minor amendments. Copies of the Canadian Repeater Directory have been published by CRRL and are available from Ray at no charge

NEW BUSINESS:

VE3FNO: Pres. Russ reported that the repeater will be off the air for about a week in early July for tuneup. He also displayed a copy of the June issue of QST; the cover shows the OVMRC in the "act". Rene VE3JKR noted that the picture was reversed.

Financial Statement: Bob - VE3KIK moved that the 1982/83 statement as published on page 4 of the June "Rambler" be accepted. Seconded by Mike - VE3LAR, the motion was carried.

Budget: Mike - VE3LAR moved that the 1983/84 budget as published on page 8 of the June "Rambler" be accepted. Seconded by Merv - VE3CV, the motion was carried.

Elections: Pres. Russ turned the chair over to Vance VE3OAO who conducted the elections. Except for the post of treasurer only one candidate was nominated for each of the offices. The following individuals were elected by acclamation:

| | | |
|----------------|---------------|----------|
| President | Dave Coutts | - VE3KLX |
| V. President | Pat Brewer | - VE3KJQ |
| Secretary | Bill Seyler | - VE3OAI |
| Tech. Advisor | Bill Balke | - VE3NPG |
| Editor | Jerry Wells | - VE3CDS |
| Pub. Relations | Les Patterson | - VE3KHD |

For Treasurer Vance Johnson VE3OAO was elected over George Caskey VE3NPN by 15 to 8.

The remainder of the meeting was chaired by the club's new president, Dave - VE3KLX.

VE3JW: Barb VE3AHV, who processes QSL's for VE3JW offered to continue with this task. As the stock of QSL cards is almost depleted she suggested that the club consider a new card. Pres. Dave offered to contact the Museum of Science and Technology, who print the cards, to see what could be done.

Next Meeting: To be held on Sept. 15, 1983 at the Museum of Science and Technology at 2000 hours.

Executive Meeting: To be held in conjunction with the club's barbeque in September.

Adjournment: Moved by Mike - VE3LAR and seconded by Bob VE3KIK, the meeting was adjourned at 21:25 hours.

Tim Evangelatos VE3EME
Secretary

NOTICE OF MEETING

The first meeting of the Ottawa Valley Mobile Radio Club will be held on Sept. 15 at the Museum of Science and Technology on St. Laurent Blvd.

Meeting starts 8:00 PM
See you there!

OVVRC FALL BBQ

Once again this year a BBQ is in the works. The date is Sept. 10 at the QTH of Paul VE3JLP.

Contact Dave VE3KIK if you plan to attend.

Listen to the Wise Owl Net for details or the Pot Hole Net.

FROM CARF NEWS SERVICE

Keeping a radio log is no longer necessary except for amateur class operators who will need them and QSL cards as proof of operation when applying for 10 metre and VHF phone privileges. DOC promulgated the change on June 22. Another change in the regulations made at the same time makes it easier for those with amateur grade certificates who live remote from exam centres to obtain authorization for advanced class privileges, good for one year. Logs and QSL cards are also required when applying for this permission. Minor changes have also been made to the various Certificates of Proficiency.

If the DOC follows its newly published agenda for the next few months the changes to the regs put out for comment away back in January 1982 will probably come into effect before the end of November. These changes proposed repeater operation between 29.50 and 29.79 megahertz, slow scan TV in the HF bands, six meg bandwidth for fast scan TV, and would let foreign operators whose countries have reciprocal operating arrangements, use the whole of the two-metre band from 144 to 148 megs. Some power restrictions on 160 metre band operations are to be removed with the phasing out of three Loran stations. The DOC policy with regard to foreign operators will be clearly spelled out. When operating in Canada they will adhere to the frequencies and emissions permitted to them in their own country except where these are counter to Canadian regulation. They will also abide by Canadian regulations.

DOC will soon ask for public comments on special consideration for handicapped exam candidates to be written into the regulations. Also up for comment will be a change to require candidates for the Advanced certificate code test to know figures and punctuation marks. At present these are only required for the Amateur class test. Comment will also be asked on a proposal to drop licensing of scanning receivers, a requirement which has proven practically unenforceable.

Suggested amendments to the DOC exam syllabus, TRC-24, which appeared with the label "draft" in April, were presented by CARF and CRRL to DOC, at its request, on June 30. Changes to have the Amateur exams reflect a hobby rather than a technician's test were presented to DOC late last year by CARF but were not all included in the April issue of TRC-24. The forecast now is that a new TRC-24 will be off the press in August, in time for the start of classes this fall. It will be effective as of February 1, 1984. On the related subject of examination questions, the DOC has asked for consultation on them, starting sometime in September.

OCTOBER 29 - "AUCTION"

The Ottawa Amateur Radio Club will be sponsoring the fall auction again this year.

The location is the usual place, Canterbury High School.

- Flea Market in the morning

- Auction in the afternoon

Plan to attend - more details next month.

OVMRC 1983-84 Membership Application

New Renewal Date _____
Name _____ Call _____
Address _____ Home Phone _____
_____ Postal Code _____ Bus. Phone _____
Spouse _____ Family Club Members _____

Member of: CARF (), ARRL/CRRL (), RSO (), RAQI ().
Other (indicate) _____

| Please check applicable class of membership: | Annual Dues |
|--|--------------|
| <input type="checkbox"/> Full Member: Licenced radio amateur interested in mobile operation | \$10.00 |
| <input type="checkbox"/> Family Member: Licenced dependant of a member | \$1.00 |
| <input type="checkbox"/> Associate Member: Non-licenced person interested in mobile operation | \$10.00 |
| <input type="checkbox"/> Associate Family Member: Non-licenced dependant of a member | \$1.00 |
| <input type="checkbox"/> Rambler subscription only | \$6.00 |
| | <u>TOTAL</u> |

OVMRC
P.O. Box 5530, Stn. F.
Ottawa, Ontario
K2C 3M1

JIM HAMILTON VE3GJY
2038 ARCH ST.
OTTAWA ONT.
K1G 2H1

FIRST CLASS

FIRST CLASS

FIRST CLASS