

# THE OVMRC RAMBLER

Volume 39, Number 3 - October, 1994

## Hams on the Hill...

### **Mobilers Take Over Parliament Hill !**

Story and Photos by Larry Wilcox, VE3WEH

For the first time in its history, eleven amateur bike mobilers invaded Parliament Hill in Ottawa for a group photo session. They represent a cross section of local hams belonging to the various amateur radio clubs in the area. Curious onlookers and tourists visiting the Parliament Buildings stared and wondered what was happening. The patrolling RCMP were blasé as the "invasion" was peaceful and orderly.



Mike Pilon, VE3BUP, was the prime organizer in arranging the photo get-together. It was such a big hit that it could become an annual event.

Mike Pilon, VE3BUP, was the spark behind the event, having invited the amateur mobilers to attend the get-together. Possibly you've seen their recent photo and read the feature story about them in the Ottawa Sun? After many months of talking to one another on the air, the photo event was an opportunity for them to meet each other for the first time.

A variety of colours and styles of bikes, clothing and ham equipment was on display.

Many different radios are being used such as the Kenwood TH-28A, TH-75A, TH-26A; ICOM 02AT, 2SAT, 2SRA; Yaesu FT-530, FT-509; the Alinco DJ-160, etc. They are mounted on belts, slung around the neck, in bike bags, or in Ed's, VE3CEJ, special drinking cup mount ! Antennas ranged from commercial to home brew and, of course, the old reliable rubber "duckie".



"Tout le gang", well almost ! Several bike mobilers were busy with other commitments. This energetic group of mobilers pedal their way to and from work almost every day.

The event included a special guest from Bonn, Germany, Andy, DL8BAH. He was heard talking on the air and was invited to come to the Hill to meet other amateurs. Andy was touring Ottawa on a rented bike and was delighted to take time out of his tour to meet and swap tall tales with some local amateurs.

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The Ottawa Valley Mobile Radio Club

# RAMBLER

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## **The 1994-1995 OVMRC Executive**

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**Treasurer:** Colin Findlayson, VE3UZU, 722-4452

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**Amateur Radio Training:** Bob Shaw, VE3SUY, 737-9443

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**Flea Market:** Ken Barry, VE3KJB, 746-4823

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**Publicity & Programs:** Larry Wilcox, VE3WEH, 747-5565

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## **Ramblerites**

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## **Mark Your Calendar !**

### **Next general meeting:**

Thursday, October 20th at 1930 hours in the main auditorium of the Museum of Science and Technology.

### **Deadline for next Rambler:**

Friday, October 28th, 1994.!

### **OVMRC's Repeater:**

**VE3TWO , 147.300MHz (+)**

## **Affiliated Clubs**

*The OVMRC exchanges newsletters with the following organizations:*

Algoma ARC, Sault Ste Marie, ON

Augusta Amateur Radio Assoc. Augusta, ME

Border City Radio Club, Windsor, ON

Chatham-Kent ARC Inc. Chatham, ON

Calgary Amateur Radio Assoc. Calgary AB

Comox Valley ARC, Comox, B.C.

Halifax ARC, Halifax, N.S.

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Thousand Island ARC, Brockville, ON

West Island ARC, Dorval, PQ

Winnipeg ARC, Winnipeg, MAN

## **Sponsors**

*The OVMRC provides newsletters to the following organizations for their past support of our activities:*

Bytown Marine, Ottawa, ON

Kenwood Electronics Canada Inc.

Mississauga, ON

Seaway Communications Co. Cornwall, ON

# Ramblings

Wise words from our President, Ernie Jury, VE3EJJ



Another month has slipped away and it seems only a few days ago that I was writing last month's column. However, on reflection it has been a very busy month for the Club executive. The presentation by Denis Mungham, VE3ASO, on amateur earth-moon-earth communication at the September regular meeting was both fascinating and timely. Larry, VE3WEH, our Program and Publicity Chairperson, is to be congratulated on getting such an interesting and authoritative speaker for our first meeting of 1994/1995. He has set himself a very high and difficult standard to maintain. I hope Denis' talk has sufficiently tweaked the interest of some of our more technically oriented members that they will try to establish contact, or at least listen for the EME signals in October. A reminder that the times and frequencies were listed in last month's Rambler. Some of the ladder supported beams pictured by Denis might be feasible, even in the city. If aiming the array is a problem, I might suggest you try sighting through a hollow beam tube.

The wireless microphone and acoustic patch to the Museum's sound system worked very well. Matter of fact, it gave the speaker so much freedom that, some of time, he was able to lecture while sitting in the front row and using his laser pointer. The Club owes Jacques, VE3TSC, Larry, VE3WEH, and Rick, VE3IHI, a debt of gratitude for purchasing and modifying the wireless mic. It has certainly helped overcome the long standing problem of being able to hear our guest speakers if you were seated in the back half of the auditorium.

Cy Webster, VE3SIY, has given me a report which summarizes the activities and results of his three year tenure as Chairperson of the Museum Exhibit Committee. He has worked with the Museum staff on the design and layout of the new station exhibit which is now under construction and due to be completed in February, 1995; he helped form the Senior Operators Group; solicited donations of equipment from manufacturers for the new station; and obtained New Horizons grants to finish equipping the new station. The combined value of the donations and grants is \$10,577.44 ! Cy is particularly appreciative of the assistance and guidance he received from Joel Martin, VE3OPS, Craig Delmage, VE3OP, and Jerry Wells, VE3CDS. In his quiet and unassuming way Cy has done much more for the Club than most of us realize. We all owe him a large "thank you and well done !"

In the coming months I hope to share this page with the various section chairpersons. It is intended that they use this space as a platform to tell the membership at large what they have accomplished, are planning, and what help they would appreciate receiving. The annual chore of updating the Club's membership list is now underway. It is this list that controls the monthly distribution of the Rambler and the listing of members in our annual Club Directory. The master list will be based on paid-up memberships as of the end of October. For those members who have not yet renewed their membership but want to continue receiving their Rambler and be included in the Club's Directory, I urge you to renew now - \$15 for individual membership, \$20 for a family membership.

# Minutes

OVMRC Regular Meeting  
15 September, 1994.

President Ernie, VE3EJJ, called the meeting to order at 1935 hours. He welcomed two visitors - Anthony Matlock, VA1MAT and Harry Splett, VE3HHS

Larry, VE3WEH, introduced the guest speaker, Denis Mungham, VE3ASO. Denis spoke of his experiences with moon bounce communication, particularly his amateur experiences with the (VE3ONT) EME DXpedition at Algonquin Park Radio Observatory dish. His impressive multi media presentation was comprised of colour slides, video and audio tapes. John Moffat, VE3NJ, thanked Denis on behalf of the Club and showed a few overhead slides which depicted a much younger looking Denis in the 'good old days'.

President Ernie introduced the Club's new executive officers and the chairpersons of the various committees. He also introduced Lillian Getkate, VE3ZDK, who prepares the coffee and snacks for our social hour after general meetings.

A few announcements were made by the President: Leo Desjardins, VE3NVL, still has a few Wise Owl Net certificates for distribution. Members entitled to receive them are asked to contact Leo.

The Club sponsored survey is producing some very interesting results. One such result is that the Club's membership is comprised of "older" amateurs who have been licensed less than five years. Members were asked to complete their copy of the survey, if they have not already done so, and turn them in.

Jerry Wells, VE3CDS, presented Cy Webster, VE3SIY, with a OVMRC Certificate of Appreciation for his outstanding work in re-equipping the Club's station at the Museum, (VE3JW) and obtaining New Horizon grants with which to purchase new equipment for the station.

Jerry also asked for volunteers to assist in erecting the new tower and assembling the new bean antenna for the station at the Museum. The work is to be done this fall. In addition, Jerry is looking for bilingual

operators to assist with the Boy Scouts Jamboree On The Air. Some Club members will host French speaking Scout groups. This event will take place October 16th and 17th. Al Barnes, VE2TYJ, gave a report on Field Day. He gave special thanks to Richard, VE3UNW, Rick, VE3IHI, Dave, VE3QQQ, Richard, VE3ZXZ, Dan, VE3GUU, Arty, and Jerry, VE3CDS, for their work in setting up the tents and antennas. He also thanked the Class of '94 for their superb job operating and Jake, VE2TQX, for his work on 6 metres. Al reported that the Club had well over 4,000 points this year. Anyone interested in taking part in a Field Day interest group is asked to contact Al Barnes, VE2TYJ.

It was announced that Hans, VE3REL, has some copies of the Canadian Callsign disk. These are for sale from Hans.

Jerry, VE3CDS, announced he proposes to start a course for members who have their Basic qualifications and who want to get their 5wpm CW. He was not certain of the exact start-up date but asked that those interested contact him.

Rick, VE3IHI, gave a short report on the work done on the Club's repeater, VE3TWO. He showed a series of coloured slides depicting the equipment and repeater site. Rick thanked Mike, VE3FFK, Richard, VE3UNW, and Mike, VE3QDX. Rick also reported that he felt confident that the 70cm receiver will be ready by the end of September.

The door prize for the evening was a \$25 gift certificate redeemable at Bytown Marine was won by Leo Desjardins, VE3NVL.

The meeting was adjourned at 2150 hours and was followed by a social hour with coffee and cookies prepared by the Club's Social Hostess, Lillian Getkate, VE3ZDK.

## *From the Editor's Desk*

### **Devolution of Services**

Recessionary times creates strange and wondrous effects particularly within the federal government. No doubt you have noticed the development and use by politicians of such key words as "downsizing", "re-engineering", "economic restraint", "decentralization", "contracting out", etc.

Amateur radio operators will soon realize the impact of all this bureaucratize as a result of negotiations between RAC and Industry Canada. Industry Canada is apparently anxious to devoid itself of all "public services" associated with amateur radio such as the selection and appointment of designated examiners, conducting qualifying examinations for candidates for amateur radioliceses, call sign assignment, licensing of amateur radio operators, and the overall policing of the hobby. In effect, the government wants to maintain its legislative and policy formulation responsibility and hand over responsibility for almost everything else pertaining to amateur radio to the amateur radio community.

It is understood that the target date for the transfer of the foregoing responsibilities is mid 1995 .

### **Do You Know ?**

Do you know that Industry Canada will release to the public all information that appears on radio licences to facilitate frequency coordination between users ? The only exceptions to be made are where the information relates to national security, to federal, provincial or municipal police operations or to that which pertains to foreign governments and embassies.

This is of particular benefit to amateurs using bands shared with other services who want to coordinate amateur frequencies with those of other services in the band. A fee may be charged for the release of this information by Industry Canada.

### **Unveiling of New Antenna Tower Policy Due Soon**

The long awaited Industry Canada new policy concerning the erection of antenna towers is scheduled for release sometime this fall. However, usually reliable sources have indicated that the new policy is designed to quell constituents' complaints to their MPs, and not necessarily to satisfy amateur radio operators. Apparently the new policy will spell out the requirement that prior to erecting an antenna tower amateurs will have to first "consult" with municipal authorities to ensure the tower does not destroy the aesthetics of the neighbourhood (interpreted this means a control on the height of the tower, its location on your property and even the colour of paint you use to paint it). The new policy, it is hoped, will put an end to the rash of complaints the department is forced to deal with from neighbourhood residents about "unsightly" antenna towers and, more particularly the effects of EMI. In addition, the new policy should end the arguments which have been going on for a number of years with municipalities across Canada who have challenged the federal government over who has legislative authority over the erection of antenna towers.

If the foregoing is true, and we have every reason to believe it is, the new policy will certainly satisfy the politicians as it will calm troubled waters - but it will certainly cause amateur radio operators to be irate. But then again who are amateur radio operators - they are only the group who pay for the right to operate radio stations and the group to whom the authorities and the public alike depend upon for communications in disasters and emergencies

#### **Definitions:**

Beauty Contest: - A Lass Round-up.  
University; a place for 2,000 in classrooms and 50,000 in the football stadium.  
Racket: The other man's formula for making a living without having to work for it.

## VE3RAM at the Ex

This year's Central Canada Exhibition in Ottawa was, for its two week run, was the home of the OVMRC's special events station, VE3RAM. On an almost daily basis some 20 Club members took turns operating their own rigs from the Club's booth at the Ex. Prior to the opening of the exhibition, a work crew installed a Ringo Ranger for 2 metre operation and a G5RV for HF operations. In addition, during the Ex a few members brought in and set up their portable packet stations.

Overall, the number of contacts which were logged far exceeded expectation. So much so that the Club's Executive has authorized the production of a special events QSL card which will be sent to the close to 300 2 metre and HF contacts and 100 packet contacts. It is interesting to note that when local contacts grew quiet, operators opened the link to the tower in Toronto and "bingo" the mention of a special events station at the Central Canada Exhibition in Ottawa pulled check-ins from Buffalo, Toronto, Brampton, Lindsay, North Bay, Pembroke, Algonquin Park and others all along the linking network.



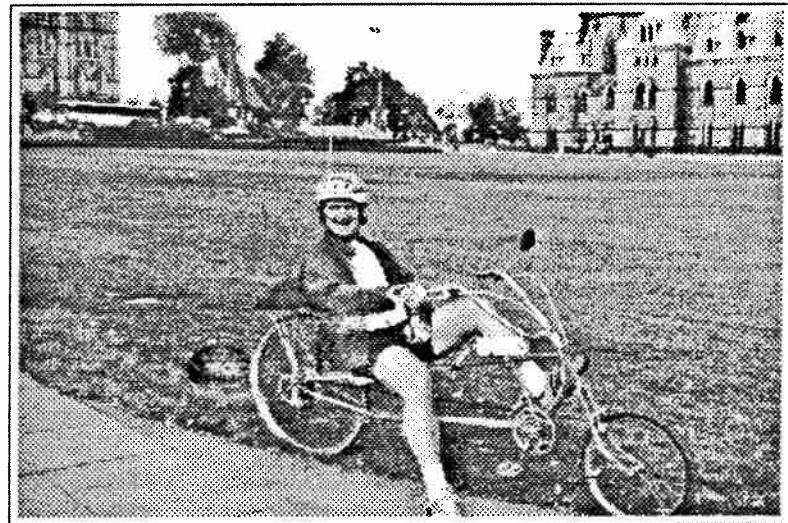
A busy three-some working VHF and HF at the OVMRC's Central Canada Exhibition booth. A surprising number of contacts were logged. From left to right, Wayne, VE3WQS, Larry, VE3WEH and Jacques, VE3TSC.

HF operations logged QSOs with stations throughout the USA and interestingly had contacts with stations in France, Belfast, Ireland, and the Dutch West Indies. While radio contacts were important, of more importance were the large number of visitors to the booth who inquired about amateur radio. Various printed material was freely distributed, particularly to those who expressed an interest in acquiring an amateur radio licence.

## Mobile Bikers

Continued from page 1

Adrio, VE3ADE, was a hit with his home made "recliner" bike which he said he built from two bikes. Several of the hams took turns riding around the Hill on the recliner to discover its features. Also in attendance were "Joe, VE2JHT, from Gatineau, Canada", Ronald, VE2SXE, who wants the bikers to get together again for more fun, VE3XL, Ric, Steve, VE3ICU, who by the way was working with a borrowed radio, Mike, VE3FFK, with a new bike, Chris, VE3CUZ, with a home brew 1/2 wave dipole, John, VE3NJ, with a home brew 300 ohm J pole mounted on a fiberglass whip with a florescent red flag at the top for safety. And speaking of safety, Mike, VE3FFK, has more reflectors and tape on his bike than most Mack trucks.



Adrio, VE3ADE, with his "home made" recliner mobile bike. He certainly attracted a lot of attention - and it wasn't because of his muscular legs!

## Part 2

# Rechargeable Batteries

Summary of a talk given by Doug Bannard, VE3SPF

### Discharge Characteristics of Batteries

Battery manufacturers have chosen to rate their products by the quantity of charge which they are capable of delivering from a fully charged state. This is known as the battery capacity, abbreviation C. The expression :  $C = I \times t$  - where C is the charge in ampere-hours; I is the current in amperes : t is the time in hours. This gives us the charge moved by a current of I amperes in t hours.

We have already seen from the basic descriptions that it is necessary during charging to deliver 15% to 30% more ampere-hours than have previously exhausted from the battery in order to fully recharge it. When we go to USE the energy which we have stored in the battery however, we find that the number of ampere-hours available to us declines with increasing current. For example, take a battery rated for 5.0A-hrs: it might deliver 0.25 amperes for 20 hours (total 5.0 A-hr) or 0.50 amperes for 9 hours (total 4.5 A-hr) or 1.0 amperes for 3 hours (total 3.0 A-hr).

The reason that we cannot extract as much energy from the battery at the higher discharge rates is a physical (chemical) one. The chemical reactions which take place at the plates in a battery require time to go to completion. If we try to "rush" the reaction by discharging at a high rate, the reactions do not take place throughout the entire volume of the plates and tend to restrict themselves to the plate surfaces...with a consequent reduction in battery capacity.

As a result, battery manufacturers also specify a discharge rate when they specify a battery's capacity. These rates are normally specified as a fraction of the capacity C. Let's look at a couple of examples :

1) A battery is specified at 5.0 Amp-hours at the 20 hour rate.

This means that it will provide us a total of 5.0 Amp-hours over a discharge period of 20 hours. The constant discharge current

over this time must be:

$$I = 5.0/20 = 0.25 \text{ Amperes}$$

Note that we can state the same specification for this battery in another way :

Rated for 5.0 Amp-hours at C/20.

or

Rated for 5.0 Amp-hours at 0.05C

Remember that the discharge rate is specified as a fraction of the battery capacity C, and is in amperes.

2) A battery is rated for 35 Amp-hours at 0.2C.

Now 0.2C just means the same as the 5 hour rate, or C/5. To completely discharge the battery in 5 hours would therefore require a current of

$$I = 35/5 = 7.0 \text{ Amperes}$$

or

$$I = 35 \times 0.2 = 7.0 \text{ Amperes}$$

Regardless of whether the battery is NiCd or lead-acid the same rules apply. If you require a certain number of Amp-hours for an activity such as field day for example, if you are to obtain the rated battery capacity then you must not exceed the discharge rate specified by the manufacturer. If you do intend to exceed the recommended discharge rate, the manufacturer will be able to give you an estimate of the number of Amp-hours you may expect to obtain.

As a general rule, when you see an A-hr rating on the side of an NiCd battery, it is Continued on page 8

# Rechargeable Batteries

Continued from page 7

given for the 5 hour rate (0.2C). For a lead acid battery, the most common rate is the 20 hour rate (0.05C) although an increasing number of sealed lead-acids are specified at the 10 hour rate (0.1C).

## How Far To Discharge A Battery

If NiCd and lead-acid batteries are well taken care of, their lifetimes are measured in years and in excess of 1000 charge/discharge cycles. As the depth of discharge is increased however, the number of cycles obtained before the battery has reached its end of life decreases markedly. Although NiCds are fairly resistant to the effects of "deep-cycling" lead-acids are not, and we need to take a few precautions:

- 1) Avoid "deep-cycling" a lead-acid battery, by buying a battery with double the amp-hour capacity which you will need.

Reason:

The battery which is discharged 100% each time it is used will reach its end of life in 80 to 100 discharge/charge cycles. A battery discharged to 50% capacity each time will last 400 - 1000 cycles. It's obvious that the cost of ownership is far less for this larger battery. Its cost will be well under double the cost of the smaller battery and it will last at least 4 times ( and maybe 10 times) as long .

- 2) Watch the terminal voltage (under load) of your battery as you discharge it. Unfortunately, we have no accurate "fuel gauge" to tell us when our batteries are nearly exhausted . The best we can get from battery manufacturers is as follows :
  - a) Avoid discharging NiCd batteries below 1.0 volts/cell (7.0 volts for an 8.4 volt or 7 cell pack) . When a cell is discharged below this voltage, there is a good chance that if it is in series

with other cells in a pack, it or one of the other cells in the pack will become reverse-charged. Reverse charging shortens the life of the cell and reduces its capacity.

- b) Lead-acid batteries must NEVER be discharged below a terminal voltage of 1.75 volts/cell or 10.5 volts for a 12 volt battery. To discharge below this voltage causes serious, irreversible damage to the battery.

## Charging Batteries

Once the battery has been discharged it is necessary to replace the amp-hours that it has delivered, plus another 15 to 30% by means of a suitable charger. NiCds and lead-acid batteries have much different charging requirements however:

The preferred way to recharge a NiCd is with a constant-current charger. These are widely available or are easily constructed. The charging rate (current), unless otherwise specified by the manufacturer should not exceed 0.1 C. For example - to recharge an AA NiCd rated for 650 mA-hr after it has been discharged to <1.0 volt we would charge it at a constant current of:

$$0.1 \times 650 \text{ mA} = 65 \text{ mA}$$

for a period of approximate

$$(650 \text{ mA-hrs})$$

$$1.3 \times \frac{\text{-----}}{(65 \text{ mA})} = 13 \text{ hrs}$$

It is possible to recharge at a higher current for a shorter period of time...particularly with "fast charge" batteries, but the manufacturers recommendations must always be followed. Some cells cannot be fast charged and will "vent", losing electrolyte and shortening their lives.

In part 3 of this series, Doug continues his discussion with "Voltage Depression - The So-Called Memory Effect" and some "Dos and Don'ts" about battery care.

Many parents speak about the population explosion as if they had nothing to do with loading the bomb.



# Artificial Intelligence To Assist Radio Interference Inspectors

Reprint from Industry Canada's September '94 Argus

Radio interference inspectors will soon be using a new expert system to diagnose problems quickly and accurately to keep the show on the road.

Radio interference problems occur in four areas: FM; AM; TV; and RC (radio communications). The problems range from static on your favourite AM station to unauthorized transmissions interfering with police communications equipment. Not only is radio interference a broad field, it varies with geography and evolves with time. New technology creates new potential sources of interference (the cellular phone is a recent example) and known sources (computerized equipment, etc) are moving closer to the radio equipment that could interfere with.

Glen Lockwood, Manager of New Technology Assessment in Industry Canada's Engineering Programs Branch, decided that to keep up with the clamour of complaints, radio interference inspectors needed a system that could match current problems with solved cases.

Radio interference complaints are stored under SCOMS (Spectrum Control Operations and Management System) in each district office. While this data base contains information about the locally-solved cases, new complaints cannot easily be matched with solved cases, and certainly not with solved cases in other offices.

This is where the Radio Interference Advisor (RIA) comes in. It was created by Acquired Intelligence Inc. to combine an expert system containing the information from SCOMS, with a method of accessing it.

Here is how it works . If an inspector is stumped by a certain case he calls up the

RIA on his computer. He is presented with a menu of 35 major problems. Examples include "dark wavy horizontal bars" on a client's TV screen or music being transmitted over a communications system.

Once the inspector chooses the problem that matches the case he's working on, he has two options - "text" or "tree". If he chooses "text" the Advisor supplies a series of questions relating to the problem. The inspector can browse through the questions, answering the ones he thinks are important. If he chose "tree" the program will ask an initial question or set of questions and decide from the answer(s) what questions should be answered next. The program also provides the user with a (tree)graph which explains why a question is being asked at that point. Either way, the end result is the same; the CBR (case based reasoning system) searches for cases in the knowledge base that match the symptoms the user has entered. The inspector can view all the details of the matched cases - a description of the complaint, the methods of the inspector and the final solution - to get ideas of how to approach the case he is working on.

The system can be constantly upgraded. Supervisors can review recently solved cases and choose interesting or unusual ones to be added to the knowledge base for use across Canada.

A version of the Advisor has been tested in six district offices across Canada - Victoria; Vancouver; Saskatoon; Toronto; Quebec; and Moncton. Feedback from the test sites indicates that the RIA should make it a hit with both radio inspectors and their clients.

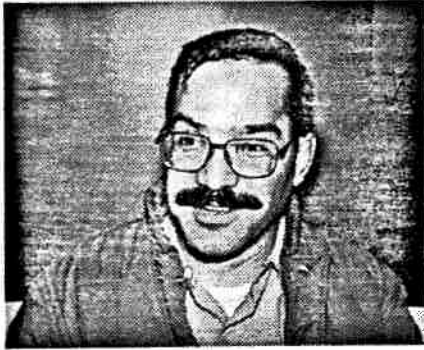
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## This 'N That

Jerry Wells, VE3CDS, is trying to organize a once-a-week class to start in November, to teach a 5wpm CW course... Bob Shaw, VE3SUY, has a few Amateur Radio Course

books for sale - an ideal reference book... The new ham shack at the Museum is now under construction should be ready by February, 1995.

# Potpourri



*A sampling of news and comments from newsletters and newspapers from across the country - written by Jacques Choquette, VE 3TSC*

Saskatoon - The Saskatoon club has been very active this summer by providing communications for several events such as the MS-150 Bike Rally, Glacier-Waterton Peace Park Hamfest, Hearts in Motion Bike-a-thon and Sunnyside's "Walk by the River". (Good work lads - VE3TSC).

Ottawa (Pioneers) - The TRC-86 that had several people thinking that it was biased towards amateurs has been withdrawn and replaced with EMCAB-2. It is neither regulation nor mandatory but states that any origin of harmful interference may be accessed by an inspector with measurement of the radiated field strength. RAC is concerned that the standard for the measurement procedure has not been addressed, nor that a manufacturer has no obligation for the immunity of their products. Twenty-three Pioneer members along with their trailer mounted emergency generator provided communications for the Multiple Sclerosis MS-150 Bike tour. The event raised about \$100K for those afflicted with this ailment.

Chatham - This area had a foxhunt which was a little different than usual. One sly person outfoxed all the hunters by hiding on a small island. Two other hams who were foxes got a little restless and kept on moving (a no-no in the rules!).

Montreal (West Island) - An excerpt from the Halifax newspaper: A Mr. Richards suffered a broken bone under one eye after being twice punched after eavesdropping on his

neighbour's sexual habits and broadcasting the action over a CB radio.

The neighbour and his girlfriend were having intimate relations early one morning when Richards was sitting in his car and describing what he heard over the air. He was caught when the girlfriend heard his comments on her scanner!!!!

Ottawa (OARC) - A twist of humour in their newsletter:

**NEW REPEATER RULE** - Anyone having trouble accessing the repeater while using less than 10W with a dipole may no longer complain.

USA (FCC) - This group has a new tool to fight radio piracy. Several cars will be equipped with \$75K worth of gear involving 2 computers, a colour printer and a satellite receiver - among other things - in the trunk. Driven in the cities, it can detect interfering and/or unlicensed radio signals. (Big competition for the Industry Canada DF vehicles! - VE3TSC).

Fifty-nine people are to be re-examined after apparent irregularities indicated that their exam sessions were compromised. It showed that they had been given access to the answer key by the volunteer examiners. The accreditation for 16 examiners has been suspended.

Industry Canada - In a move to mark the UN International Year of the Family, Industry Canada has authorized the use of a special prefix from October 19 to December 19, 1994. VA 3 becomes VB3; VE3 becomes VG3.