

# THE OVMRC RAMBLER

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## ***Moffat moves members to make Morse mandatory!***

*The Romance of CW*  
by John Moffat, VE3NJ

Along with the arrival of Spring, one notices an influx of new callsigns. Clubs all over the country – such as the OVMRC – have been running courses to train new amateurs. One by one, they are successfully completing their studies.

Most new amateurs rush out to buy a VHF or dual-band handheld or mobile radio and use it to talk to the local amateur community, including the many new friends they've made at the course and at club meetings. This is a worthwhile venture. But before you spend all your hard saved pennies, consider the following scenario.

The children are in bed and the rest of your family is watching the Saturday night fights on television. Snowflakes are winging their way from the heavens on a steady wind that boasts a wind chill of -43°C. The frost is nipping at the ears of the squirrels, bundled into their nests atop the trees lining the city's boulevards.

You are in the shack, idly tuning across the bottom portion of the 80m band. The light is dim, and you press your headphones against your ears, straining to extract the faint whispers of CW tones from the rush of static. Rising from the noise comes a CQ, not strong but a steady Q5. CQ CQ CQ DE AH6... "Hawaii!", you exclaim. "It's not

the right time of day for propagation from the Pacific", you think, but you allow yourself the hope of a contact with a new state. "I've been looking for this one. It's the last state I need to complete my Worked All States (WAS)." You key your transmitter and quickly tune during the CQ so you will be ready to answer.

FS/0 AH6FS/0 AH6FS/0 K. Now you feel let down. He is not in Hawaii after all but portable in the northwest US somewhere. "Oh well," you think to yourself, "since I'm here I might as well answer." After 45 minutes of fascinating conversation with Phil, you are glad that you took the time and didn't abandon the contact before learning something about your newest acquaintance.

Almost since you passed the code and theory exams and obtained your amateur callsign, you have been riveted to the lower portions of the HF bands. It didn't start out this way. "CW was something to be learned to get HF band phone privileges, and then to be quickly forgotten", you used to think.

Then one evening, early in your amateur career, you heard a CQ near the bottom of the 40m band from a YV3 in Venezuela, and you decided to risk not being able to copy his code or understand his language. His signal had come across thousands of miles of black tumbling ocean, over Caribbean Islands, and

Appalachian Mountains, through turbulent weather systems, to you. Your hands were trembling, your heart pounding with fear. Seemingly paralyzed, you almost forgot your own call sign as you slowly and erratically hammered out a reply on your old war surplus straight key. Hearing that it was your first CW QSO, Sergio took time to have a short rag chew with you at your code speed. What resulted from this was totally unexpected. The experience was electric! And you were hooked!

Now four years later, CW is your main interest. Many of those hams you talk to share with you this same intense feeling that comes during a CW QSO, and you have a file box jammed full of QSL cards and letters to remind you of it. It's a charged atmosphere, filled with excitement and awe, and the mode is one where you share a skill that allowed radio amateurs to take those first steps in radio during its early days. It's a romance that knows no bounds, and when your fingers have "the twitch", you will not be able to get enough of it. I know – I've been there!

So the message is that HF CW, the traditional mode, is still alive and well. Be assured that it has a strong following among amateurs. And be warned: "If you try it, you might like it!"

See you there.

The Ottawa Valley Mobile Radio Club

# RAMBLER

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### **The 1992-1993 OVMRC executive**

*President:* Jerry Wells, VE3CDS, 225-7374  
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*Past President (ex officio):* Bob Sharp, VE3YBC  
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*Amateur radio training (acting):* Doug Carswell, VE3ATY, 839-5854  
*Field day:* Vic Bajaj, VE3BSV, 726-9270  
*Flea market:* Ken Barry, VE3KJB, 746-4823  
*Historical (acting):* Pat Brewer, VE3KJQ, 825-8721  
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*Membership:* Mike Beausoleil, VE3BGP, 739-8871  
*Newsletter:* See hysterical (don't ask)  
*Publicity and programs:* Keith Beardsley, VE3SVQ, 731-7912  
*Radio operations:* Ian Kennedy, VE3SNX, 747-8387  
*Technical:* John Pope, VE3ACI, 989-3629

### **Ramblerites**

*Contributors to this issue:*  
John VE3NJ, Jerry VE3CDS, Larry VE3WLN, Ian VE3SNX, Roger VE3XRR, Ron VE3UWR.  
*Short month, short issue, short list.*

### **Circulation:**

Jacques Choquette, VE3TSC, Postal professional.  
Fred Haire, VE3NJF, Extraordinary exemplar.  
Dave Scobie, VE3BOX, again and again and again.

## Mark Your Calendar!

### **Next general meeting:**

Thursday, May 20, 1993 19:30 local time in the auditorium at the National Museum of Science and Technology.

### **Next executive meeting:**

Thursday, May 27, 1993 19:00 local time in the volunteer room at the National Museum of Science and Technology.

### **Deadline for the next issue of the Rambler:**

Thursday, May 27, 1993

### **Affiliated clubs**

*The OVMRC exchanges bulletins with the following organizations:*

Augusta Amateur Radio Association, Augusta, ME  
Border City Radio Club, Windsor, ON  
CARF, Kingston, ON  
CRRL, Arva, ON  
Chatham-Kent Amateur Radio Club Inc., Ridgetown, ON  
Calgary Amateur Radio Association, Calgary, AB  
Halifax Amateur Radio Club, Halifax, NS  
Heritage Amateur Radio Club, Cobourg, ON  
Kingston ARC, Kingston, ON  
London Amateur Radio Club, London, ON  
Ottawa Amateur Radio Club, Ottawa, ON  
Pioneer Amateur Radio Club, Nepean, ON  
Scarborough Amateur Radio Club, Inc., Scarborough, ON  
Seaway Valley Amateur Radio Club, Cornwall, ON  
Sudbury Amateur Radio Club, Sudbury, ON  
Saskatoon Amateur Radio Club, Saskatoon, SK  
Thousand Islands Amateur Radio Association, Prescott, ON  
West Island Amateur Radio Club Inc., Dorval, PQ

### **Sponsors**

*The OVMRC provides bulletins 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

**We gratefully acknowledge the support provided by Fulline Office Products in printing the Rambler.**

# Ramblings

Wise words from our President, Jerry Wells, VE3CDS



At last we see the end of winter and signs of spring. I thought the winter would never end, but we made it again.

Looking ahead a little bit, the next major club activity is the Annual General Meeting (AGM) in June and then Field Day at the end of June. Remember if you are interested in getting involved in the executive of the club say "Yes!" when you are called. There are many areas where even the newest ham can get involved. *[Like the Rambler! Ed.]*

Along the lines of getting involved, we had a most successful antenna dismantling task at the museum of Science and Technology on Easter weekend. It rained as is normal for antenna work. We had an excellent turnout of club members and we had the antenna and tower dismantled in less than two hours. Needless to say we were a pretty wet crew when we finished, but we all felt good that the job was done quickly and efficiently.

We will have a vertical antenna installed by the time you read this issue of the *Rambler*. As part of our New Horizons grant we were able to purchase an R-7 vertical. This antenna will tide us over until

we can get the new tower installed. The tower will be erected at the back of the museum, close to the area of the communications display where the new VE3JW station will be located. The vertical will let us get the Kenwood 850 on the air on Wednesday evenings and Sunday afternoons.

We may have just completed our annual spring flea market by the time you get this issue of the *Rambler*. *[Not if things go according to plan. Ed.]* I am sure that it will be as successful as it has in the past. There will be a full report at the June meeting.

It is a bit difficult to write an article for the *Rambler* when it is a couple of months ahead of time. *[Just try editing it! Ed.]* Our April meeting featuring Gerry King VE3GK is slated for this evening, and I am sure it will be entertaining and informative. More on that at the meeting.

Well, you must realize that I am writing this on the 15th of April, quite a bit ahead of publication. Let's look at a couple of interesting happenings. There was a dinner meeting of the graduates of the class of '92 last night. It was well attended by students and guests and a good time was had by all. The class of '92 had a good mix of new hams that jumped right in and got involved in several aspects of ham radio. Their inauguration of the Welcome Mat net on Wednesday evenings has proven to be a major attraction on 2m. I understand that the net will continue since it is very popular.

Several of the members of this group have become involved with the Smith Falls club and that is good for amateur radio in

the region. Keep up the good work! I know of some of the forthcoming activities of this group which will be of interest to all radio amateurs.

Another significant milestone was passed with the OVMRC course held at the Museum of Science and Technology being completed with excellent results. The majority of students that stayed with the course were successful in both basic theory and code. There are still two or three who need to write the tests, but that is in the works and I am sure we will see a few more new hams.

I find it very satisfying to be able to help those who have an interest in amateur radio. There is nothing more delightful than seeing the look of relief and the sense of achievement on the faces of our newly licensed amateurs. There is something about becoming a radio amateur that makes people feel that they have done something really worthwhile. Congratulations to all of our new hams. Enjoy amateur radio.

On a closing note, we should all be aware of the changes taking place in our national amateur radio organizations. As of the first of May, the Canadian Radio Relay League and the Canadian Amateur Radio Federation have joined together to form the Radio Amateurs of Canada. One national body to speak for all Canadian amateurs. We will hear more as the new organization gets established. I encourage all members of the OVMRC to join and support the new national organization.

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# Minutes

from the last general meeting, by Larry Woram, VE3WLN

OVMRC General Meeting  
April 15, 1993

## 1) Call to Order

The meeting was opened by Jerry VE3CDS at 19:40. Members and guests were welcomed. Guests included Ken VE3PF, Jacques, Bill VE3WCE, John VE3AOQ, Don VE3KWI and Warren VE3OIJ.

## 2) Announcement

Doug VE3ATY thanked the "faculty" of the OVMRC amateur school for their dedication and help throughout the year. Faculty members included Doug VE3ATY, Jerry VE3CDS, Bryce VE3EDR, Ralph VE3BBM, Kevin VE3RKJ, Bob VE3SUY and John VE3NJ. Doug announced that 17 students received their basic licenses and 5 passed the advanced. Those included Ryan VE3YSJ, Peter VE3EPB, John VE3JAC, Gerard VE3QUE, Peter VE3IPD, Len VE3LGZ, Terry VE3YTJ, Ernie VE3EJJ, Eric VE3RKW, Glenn VE3GRQ, Lorne VE3YYJ, Ray VE3RLQ, Tim VE3EEP, Francine VE3XFP, Ron VE3WBE and Jim VE3WYO.

On behalf of his fellow students Ernie VE3EJJ thanked the faculty for their time and effort. Ernie also presented Jerry with a gift wrapped package, weighing three pounds, of code practice sheets, suggesting they may be of use in his fireplace.

## 3) Guest Speaker

Jerry VE3CDS introduced the evening's guest speaker, Gerry VE3GK. Gerry welcomed all the new amateurs to amateur radio and wished them well. While Gerry's main topic of the evening was antennas, he deviated from the subject on occasion and

entertained the audience with stories of remarkable feats.

He emphasized to the new amateurs that they should concentrate for the time being on a simple antenna, cut for one band, and to leave the multi-band antennas and antenna turners alone. His favorite simple antenna is the inverted-V which can be made very inexpensively, as he demonstrated. The inverted V configuration is resonant at 50 ohms.

New amateurs were encouraged to use CW and not to procrastinate in upgrading to 5 wpm and 12 wpm. Gerry also showed his "Best Western" 20m mobile antenna with which he has worked 280 countries, mobile. The antenna features a Best Western glass (plastic) which protects the coil. This protective cover is interchangeable with others from Days Inn, Holiday Inn, etc.

Gerry commented that it was his wish that amateurs not allow 2m to deteriorate and to use repeaters properly.

A slide presentation showed various accomplishments of Gerry's including his home-brew collapsible tower which supports his four-over-four stacked array at 45 and 100 feet. Also shown were his "hockey stick" 2m beams, a seven-element beam on a 65-foot boom, an 80m quad on a 75-foot boom, various home brew amplifiers and his doodlings, made in various room of his home, or rough schematics of his designs for his amplifier.

## 4) Flea Market

Ken VE3KJB reminded everyone that the flea market is scheduled for May 15 at the HMCS Carleton Drill Hall at Dow's Lake. Anyone interested in

obtaining a table should call Ken at 746-4823. The OVMRC is going to have a table, and anyone with items they would like to donate are also asked to call Ken. A large truck is needed to transport tables, please contact Ken if you have one available.

## 5) Rambler

Neil VE3PUE thanked Bill Chapman VE3RWC for his help in folding and stuffing the Rambler. Jacques VE3TSC has volunteered to take Bill's place.

## 6) Announcements (cont.)

Len VE3LPH announced that the "club" jacket would be available in dark blue and XXL. He took orders after the meeting. Ed VE3RDZ reminded everyone that a bulk order would be placed for coax and those interested should contact him. Last year the RG-213 was approximately 42¢/ft. If enough interest is shown, 9913 coax may be available. Brian VE3YBT announced that in celebration of the 30th anniversary of the XM49'ers that they would hold a BBQ at Vincent Massey Park on July 17. For information contact Brian or Joe MacPherson. Sue VE3SLC is looking for donations of cookies, squares etc. for the "Flea Bite" for the flea market. Please contact Sue.

## 7) Door Prize

The door prize was won by Earl VE3AB. It was three raffle tickets on the Kenwood TH-28A, kindly donated by Bytown Marine for the draw at next month's flea market.

## 8) Adjournment

At approximately 21:30 the meeting was closed and followed by coffee and donuts.

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# From the mailbox

by Larry Woram, VE3WLN



The Heritage Amateur Radio Club announced in their spasmodic publication *The Heritage Award*, which will be presented to amateur radio stations or SWLs who meet the required criteria. Commencement date is July 1, 1992. VE3 stations must make two-way logged contacts (or SWL heard) with 50 different Ontario amateur radio stations, ten of which are along that portion of Ontario's Heritage highway (old #2) from Toronto to the Quebec border.

All members of the Heritage ARC qualify as Heritage Highway contacts. The rest of Canada and the US require 30 VE3 contacts with six along the Heritage highway. Contacts may be made on any band and in any mode. Copy of logged contacts and \$4 required.

The Sudbury Amateur Radio Club has grown to 81 members and is recruiting new members from the local area. Twenty three students are studying for their licenses and hopefully will increase the number of SARC members. The club's New Horizons project is said to be progressing nicely, and the duplexer and heliack have been ordered for the new repeater. The Parry Sound flea market is scheduled for May 15, 1993 from

10:00 to 14:00.

The members of the London Amateur Radio Club have been busy with special events. Jeff VE3JVB is organizing two special events stations in celebration of World Red Cross week. On May 29, the club will set up a HF station for a Boy Scout event. At the last LARC meeting the video, *Winds of Terror* provided a shocking look at the aftermath of the Edmonton tornado. Tony VE3SQU and Kevin VE3OVY are arranging for a hot air balloon ride. They will operate on 2m, 70cm and FSTV. A letter from the Parkwood Hospital thanked the members of the LARC for the service provided at the hospital's 10k road race. The race raised \$12 000 for the hospital's rehabilitation research program.

The February issue of the Scarborough Amateur Radio Club could not have arrived at a better time. One of the technical articles was a reprint of an article in TCA by Larry Joe VE7DIE, *TVI on Channel 18—Solutions*. Three days before reading this article I received a notice from the cable company that they had detected a leakage from my home. Armed with Larry's article and his suggestions on how to properly wire cable to the VCR, splitters, amplifiers etc. my problem was easily solved. The culprit was the push on coax connector that goes from the VCR to the TV.

***(Anyone who would like a reprint please contact me and I will be glad to provide a copy of this or any other article referred to in this column. Larry, VE3WLN)***

The April issue of *The Groundwave* notes that the members of the Ottawa Amateur Radio Club are busy preparing to

defend their first-place finish in Canada in category 1A on Field Day. Marcus Leech VE3MDL is leaving Ottawa for a VE7 call-sign. Also noted was an article on why Japan has more than a million amateurs. The main reasons cited are Japan's fourth-class no-code "telephone" license which allows 10W on all bands including 10,15,40 and 80m and the fact that a license is issued for lifetime. While apparently contrary to ITU amateur service guidelines, Japan allows amateur operation below 30 MHz without code on the basis that it does not cause interference to other radio services.

The March issue of *Key Klix* reported that the feature speaker at the March meeting of the Calgary ARA would be Dennis VE6CH. Dennis' topic was "All About Hot Air Ballooning." Reg Odegard VE6LV in his Satellites column discussed satellites (mainly Oscar 13) from a beginner's perspective. Reg suggested reading *The Satellite Experimenter's Handbook, 2nd Edition* available from the ARRL and *A Beginner's Guide to Oscar 13* available from AMSAT. On the same topic, John VE6LL provided plans for a dual band antenna, originally from *The AMSAT Journal*, March 1990. The antenna was built for packet radio eavesdropping on satellites and is only five feet in length. The CARA DX Club came third in the CARF Winter Contest for single TX, multi op class with 98 212 points.

The Chatham Kent Amateur Radio Club in their April issue of *Clear Signals* sadly announced the passing of Hank Bruhlman VE3CGV.

*See Mailbox..... page 8*

# The "other" modes

by Ian Kennedy, VE3SNX

## R U really ready for RTTY?



One of the first forms of digital communications that amateurs employed was known as RadioTeletype (RTTY). RTTY, as we know it, is defined as being a frequency-shift-keyed single-channel start/stop teleprinter system.

When used in the amateur bands the frequency shift is limited to 170 Hz. RTTY contains no error correcting mechanism, so is very vulnerable to all sorts of noise and interference. This can cause your received copy to become garbled to the point of illegibility.

The Baudot, or Murray code is the most common type of RTTY code in use today. Baudot is a five data baud per character code, providing 32 possible baud combinations.

Because this does not provide enough characters for the 26 letters, 10 digits and punctuation used in the English language, this form of coding has to use two cases, letters (LTRS) case and figures (FIGS) case. As you would expect, letters case is used for sending letters while figures case is used for sending numbers

and punctuation. The control codes for space, carriage return, line feed and for switching between letters and figures case are repeated in both cases.

The signal structure for RTTY is described in the following paragraphs.

### Cycle length

Seven or more elements depending on the number of stop elements

### Cycle structure

Element 1 = start (normally a space)

Elements 2 to 6 = information elements

Element 7 = stop or latch baud (this can vary from 1 to 2 bauds in length with 1.42 bauds being the norm)

### Keying speeds

Can be used at any keying speed, however the standard keying speeds for RTTY are 45, 50, 57, 75 and 100 baud. It has been my experience that the amateur community normally uses 45 bps.

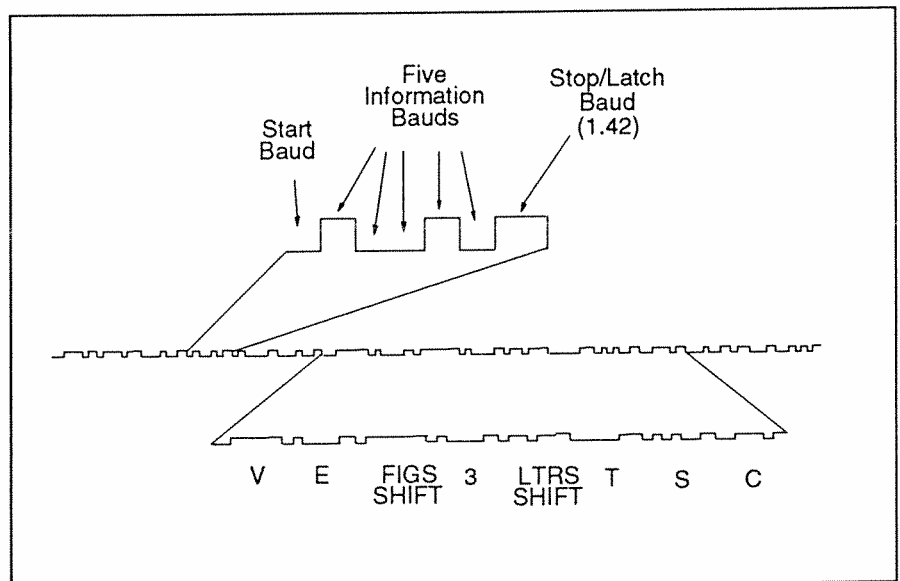
### WPM

Using the above the keying speeds the WPM breaks down as 60, 67, 75, 100 and 135 wpm.

### What it looks like

The figure below is a pictorial representation of an RTTY signal built using the phrase "CQ DE VE3TSC AR" with blowups showing the signal structure and coding used.

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RTTY boasts beaudacious bauds bearing bags of bits

Figure: VE3SNX



# Rambler regulars Ron and Roger write-up reunion at Robbie's – class of '92 has big do

by Ron Clément (VE3UWR) and Roger Rose (VE3XRR)

There was a strange group of people at Robbie's on St. Laurent boulevard the other night (Wednesday the 14th of April to be exact). This group was celebrating. They were meeting for an informal dinner on the first anniversary of their successful entry into the world-wide hobby of ham radio.

We know you probably have hundreds of questions about this special event and the people who took part, but unfortunately this *Rambler* just can't handle all that can be said about it. Suffice it to say that everyone present had a great time and the food was (in our view anyway) good.

There were so many of us there that we can't possibly mention everyone, but we will try anyway. There was Lorraine VE3VAT of course, who did such a good job organizing the event. And without her, who would have taken the pictures? It wouldn't have mattered anyway since the event wouldn't have taken place.

Then we had the instructors, Doug VE3ATY, Jerry VE3CDS and John VE3ACI, who made it possible for us to have a reason to celebrate in the first place.

And who can forget the graduates? Well, we could but they won't let us do that. So here is the list of the ones who showed up, whether they wanted to be listed or not: Bill VE3FWW and his wife Fran, Steve VE3RUU, Dave VE3ZZU with his wife Joan and daughter Heather, Sue VE3SLC (we're told she knows a lot about Doug), Ted VE3KEH and his wife Margaret VE3WIR



Ron VE3UWR



Roger VE3XRR

or is that the other way around? We had to make an impartial decision and it is the other way around, since Margaret was the graduate. Sorry Ted but you are the "XYM" in this case. Patrick VE3TZR, Bill VE3HCW and his wife were sitting at the better table, the one that Ron and I were sitting at.

As you can see, quite a group. Oh yes, we should mention that Al VE3TYJ and his wife were also there but do we have to? After all, isn't he the one who checked-in the whole group on the Welcome Mat net? The net controller didn't have anybody to talk to! And isn't Al around on all repeaters and at all events all the time anyway? So many things to do and so little time to do them in. Right Al?

Anyway, we hope we didn't miss anybody. Oh yes, we almost forgot Larry VE3WEH. Don't blame us though, he didn't sign the guest list. Too busy ragchewing we suppose. By the looks of the scribbles we had on the piece of paper, a few of the graduates have picked up on their CW and took a step ahead on the ladder of amateur radio. Congratulations.

Larry and Roger spoke with Bill VE3HCW who is in the market for a 2m handheld and

tried to sell him on the value of their own radios. We sincerely hope Bill will soon join us on the air with his new (make the right choice Bill!) radio.

And then we heard all about the flying exploits of Ted and Margaret. They lived and breathed flying lessons and both got their licenses. What an incentive for us to stay on the ground. And we thought the highways were dangerous. Anyway, congratulations to you both.

Well, that's about the extent of what we recall of this event. Everyone appeared to have a good time. The ones who didn't sure put up a good front. We all agreed to make this an annual reunion, and I'm sure Lorraine will volunteer again to get it off the ground. Un gros merci Lorraine.

And Ron VE3UWR even though you co-write this column with me, I must ask you to keep your speeches short. After all, people had just finished eating and it is so easy to doze off with a full stomach. A BIG thank you to all for showing up and, until next year, happy hamming.

Support this venture!

## Upcoming Events, Help Wanted

### **HELP the flea bitten!**

Sue VE3SLC is looking for volunteers to staff the Flea Bite at this year's flea market (see May 15, below). She is also looking for donations of squares, cookies, muffins, sandwiches and so on. The loan of a couple of 30-50 cup coffee urns would be greatly appreciated. To help with any of these items, please call Sue at 839-5854 after 17:00.

*Contributed by VE3SLC*

### **May 1, 1993**

The Smith Falls flea market in Lombardy. Contact Diane Buckley VE3IGG at 283-2182.

*Contributed by VE3CGD*

### **May 15, 1993**

OVMRC flea market. Canadian Forces Reserve Barracks, Dow's Lake, Ottawa, Ontario. Free admission. Doors open to vendors at 08:00, to the public at 09:00. Tables (\$20 for commercial vendors and \$10 for all others)

can be reserved by contacting Ken Barry, VE3KJB at 746-4823. Wheelchair accessible. Refreshments. Talk-in on VE3TWO, 147.300+.

*Contributed by VE3NVL*

### **June 26-27, 1993**

Field Day! Contact Vic VE3BSV evenings at 726-9270.

### **Still (always!) looking**

Net controllers needed to relieve the regulars. The Wise Owl net, the Pot Hole net etc., etc. No experience necessary. Contact Ian VE3SNX at 747-8387.

*Contributed by VE3SNX*

To put a notice in here,  
call Leo VE3NVL  
at 225-0902.

## Stolen Radio

TM731 Kenwood dual-band radio, serial number 20500948. Anyone with information please contact Randy Wagner, VE3RWW at 825-5171 anytime.

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## Ken's Keen to Commandeer Carriers!

### **Help out your club!**

Volunteers are needed to load and unload chairs and tables for the flea market. If you can help, please report to HMCS Carleton at Dow's lake at 16:00 on Friday, May 14, 1993. For more info, or to volunteer, call Ken Barry, VE3KJB at 746-4823.

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### **Mailbox..... from page 5**

Hank was a past president and was instrumental in the forming of the CKARC. The CKARC school of amateur radio graduated 19 students this year. Well done.

The Seaway Valley Amateur Radio Club recently sponsored a contest to name their newsletter. Bob VE3KCP submitted the winning name and now it will be known as the *SVARC Gap*. The

SVARC will hold a hamfest on June 12 at Murphy's Inn, 917 Second Street West, Cornwall. Doors open at 0830 and talk in is on VE3SVC 147.180 MHz+.

*Ground Waves*, published by the Windsor Amateur Radio Club carried an interesting article, *CHU Canada*, gathered together by Andrea IW1CXZ. CHU Canada, which operates under the auspices of the NRC, went on the air in 1922 as an experimental station with the callsign 3AS.

The following year it became 9CC and later VE9OB. Continuous operation began in 1933 and in 1934 it became known as CHU. It's transmission is USB with carrier re-inserted and is AM compatible. It can be heard on 3330, 7335 and 14670 kHz. The 40m signal is 10 kW while the other two are 3 kW.

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## It's not how long you make it, it's how you make it long

by Rambler staff

Fans of old advertisements may be amused, but regular Rambler readers were short-

changed a few pages in the current issue. The editor claims his current meagre offering is due to "travel commitments", but sources in the know suspect that

he has run out of original stuff to print. He refuses to fill the pages with reprints.

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