



# Newscaster

The Official Publication of the  
Winnipeg Amateur Radio Club  
Winnipeg Senior Citizens Radio Club

March 2000

## APRS

Using a GPS, TNC & Radio to track  
movement of vehicles or objects.

**BY Wayne Schellekens, VE4WTS**

**Date:** March 13th, 2000  
**Time:** 7:30 p.m.  
**Place:** Sturgeon Creek Regional Secondary School

### Other Important Dates:

Articles: March 29th. - Article Deadline April Newscaster

WARC: Apr 10th - Home Brew Night  
May 8th - Meeting  
June 12th - last meeting of the year.

WSC: Mar. 15 - Board Meeting

ARES: Mar 21 - WPS Disaster Team.

Other: April 14th - MRS Annual Meeting  
June 18 - Manitoba Marathon  
June 24,25 - Field Day  
July 20,22 - Central States VHF Conference  
Aug. - MARM HamFest

### RADIOGRAM FROM THE PRESIDENT: by Darcy, VE4DDW

Hello Everybody. Well hasn't this just been one GREAT winter? Who would have thought winter would start in January, and almost be done by the end of February. I've marked the calendar with the day we got an inch of rain.

The club has a very busy spring lined up, with our Jacket order this month, Homebrew in April, and of course the BIGGGG Flea Market on April 16th. I would like to finalize the Jacket order this month, to ensure early receipt.

Here is the information one more time:

There are four "season" styles of jackets available for order this year:

**Summer**      **\$53.58**  
**Fall**            **\$66.12**  
**Winter**        **\$85.50**  
**Polar**          **\$53.50** (Polar fleece sweater, full zipper)

Each jacket is custom fitted, and they will each include the extra pocket on the inside liner. (Yes, it will be able to hold that big old brick of a radio.) We will maintain the current color scheme of royal blue and green.

**NOTE: Those members that would like to order jackets, please meet at the cafeteria at 6:30 pm.**

Next month is Homebrew night Do you have your project tested? Was there smoke and flames? You only have about 4-5 weeks left till the big night. Come on out and show us what you were up to this winter.

Remember April 16th is coming soon. Let's try and make this Spring Flea Market bigger and better than any other. This is the first WARC Flea Market of the 21st Century. Let's make it one to remember!!!

WARC: Executive for 2000			
Past President	Norm Coull	VE4EH	885-1692
President	Darcy Wilson	VE4DDW	783-0421
Vice-Pres./ PR	Tom Mills	VE4SE	837-6915
Secretary	Ruth Mills	VE4XYL	837-6915
Treasurer	Sue Collings	VE4SYM	694-1525
Membership	Mariska Maguire	VE4MMG	256-3143
Program	Tom Mills	VE4SE	837-6915
Goodwill	Vern Dutton	VE4VQ	256-5346

**NEWS from the Winnipeg Seniors' Radio Club**  
**by Gil Frederick, VE4AG**

Our newsletter "Sparks", a big 18-page issue containing the Annual General Meeting Minutes, Committee Reports, messages from the Executive, membership list, and much more, is now being distributed to the membership by various means. Board members and Duty Officers will find their copies in the mail slots at the Club. The latest issue of "Blips 'n' Blurbs" is also ready for pickup at the Club, and will be distributed at the upcoming Monthly Breakfast. This breakfast is being held on Thursday, March 9th, at the Garden City Inn, McPhillips at Jefferson. The attendance continues to grow (must be that draw for a free breakfast, George!), so let's keep up that trend. Time is 9:00 a.m. Further info by phoning 233-3122.

Our next Board meeting will be held on Wednesday, March 15, beginning at 9:30 a.m., with George, VE4GOM in the chair. Ed, VE4YU is still having a great time as a Portable XE1, and daily is working local stations, especially Adam, VE4SN. You will find Ed on 14.140 at 9 a.m. - usually going to 21.200. He'll be back around the end of the month.

The Club, operating as CIW510, with Gil, VE4AG and Bob, VE4RJH, took an active part in the C.F.A.R.S. February 29th 'Leaping Lizards' exercise, being Net Control for one hour during the morning. The Leap Year rollover didn't seem

to cause any computer problems respecting our responsibilities - so the Net, beginning at 1400Z on Feb. 29 and ending 0600Z on March 1 was used for check ins, traffic and general chatter. Gil, VE4AG, as CIW506, was also active as a Net Control station at his QTH.

Girl Guides filled our Clubrooms during G.O.T.A. on Saturday, Feb. 19 and Sunday, Feb. 20, where about 100 in number over the 2 days took part in communications with other Guides across the country and overseas. The station call used was VE4GGC, licensed for use at our location. Our Club is pleased to have such involvement with Youth in ham radio programs such as G.O.T.A. and J.O.T.A. (Scouts). 73.

**MINUTES for W.A.R.C. February 14th, 2000**  
**Submitted by Ruth, VE4XYL**

A hearty thank you to John VE4JNF who restored life in our tired old PA and it works quite well.

Darcy VE4DDW welcomed all who showed up, 52 in all along with 8 guests, introductions followed.

**MINUTES**

After having been reminded by Darcy VE4DDW that his right surname is Wilson not Williams, it was moved by Dick VE4HK and seconded by Ted VE4VID that the minutes be accepted as printed in the newscaster. Tom VE4SE explained about the mix up in Darcy's name, he said not only is he an amateur radio operator but also an amateur typist.

**MARCH PROGRAM**

Wayne VE4WTS will give a presentation on GPS and vehicle tracking.

**CORRESPONDENCE**

A letter from Jeff VE4MBQ on behalf of ARES thanking WARC for the use of the WARC HF and VHF equipment on December 31, 1999 to January 2, 2000

**BUDGET**

Susan VE4SYM presented a brief report to the membership explaining some of what it costs us to run our club annually.

**TREASURERS REPORT**

Susan VE4SYM reported the bank balance as of January 3, 2000 is \$4344.95

**RAC**

Adam VE4SN reported in Rick's absence that there is talk that RAC's plan is to drop the 12 wpm code in Canada and change it to basic plus 5 WPM to be allowed full access to HF privileges. There are pros and cons on this subject and many comments were discussed.

**ARES**

Jeff VE4MBQ reported on a very successful Festival du Voyageur sled dog races exercise for ARES on February 12th and 13th. A special thanks to Yori VE4ACX for the use of his repeater VE4TWO.

**NEW BUSINESS**

Industry Canada Amateur Centre  
 Voice 1-888-780-3333 (toll-free)  
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For more information or to place an ad please contact Tom, VE4SE or e-mail ve4se@rac.ca

.....  
 Comments or if you just want to reach us :

**Newscaster Editor**  
**Winnipeg Amateur Radio Club**  
**C/O VE4WSC**  
**598 St. Mary's Road**  
**Winnipeg, MB R2M 3L5**  
 http://www.freenet.mb.ca/amradio

Club Jackets, Darcy brought in various styles and materials and prices which were available to see and orders will be taken at our March meeting.

#### HELP MAYDAY SOS AU SECOUR PAN PAN

I need the members help for program suggestions. If you have ideas, a pet project or any thing that you think would make a good program please contact me. I would also need the name of the person who could put on the program. Give me the persons name and I will make the contacts and try to line up the program. All tipsters will remain anonymous. If you have a program you would like to put on please contact me. Tom VE4SE.

FIELD DAY This is on the agenda for the March meeting.

#### VHF CONFERENCE

Derek VE4HAY told the membership that a VHF conference will be held in Winnipeg this year on July 20-22 at the old Ramada Inn on Pembina Hwy. Barry Malowanchuk VE4MA is president and contact person for this event. Also the Pathfinders will hold a North America wide function at Lilac resort this summer. There will be more information at a later date.

INFORMATION. John VE4JNF told of a seminar on installing and operating Windows 2000 at the Crown Plaza Hotel on March 7th. Seminars are free but reservations are needed and can be obtained over the Internet at There are 2 seminars, one at 09:00 -12:30 and one at 12:30-21:00.

The meeting was adjourned at 20:25 followed by a coffee break.

A very interesting program on transmitter identification was presented by Witold Kinsner VE4WK followed by an informative question and answer period.

### Hints & Kinks de Ralph, VE4RY

As we become middle-aged hams, [if I remember right, hihi] one of the first things to go is our eyesight. I guess it comes from squinting at those dials, but it seems that far-sightedness is part of the deal. Repairing and building things gets mighty hard on the eyes.

While those large magnifying glasses on a spring-loaded, swinging cantilever contraptions [with a built-in lamp] look very impressive in the shop, you can set yourself up for close work on small projects for a mere fraction of the cost.

First, for less than ten bucks buy a small gooseneck lamp at a department store. Then, slip over to the surplus store, where for less than five bucks you can purchase a pair of non-prescription 3 or 4 diopter magnifying eyeglasses. Total cost: \$15 - tops!

I find this portable setup actually better than that big thing on my workbench, and it is far less cumbersome and has the bonus of giving some eye protection.

## Contest Calendar

### March

05-07	1600-2359	CW CZEBRIS Contest
06-07	0000-2400	SSB ARRL DX Contest
06-07	2200-0159	RTTY Open Ukraine
09-10	1700-1700	CW/SSB CLARA & Family HF
13-14	0000-2400	CW/SSB World Wide Locator Cnst
13-14	1200-1200	CW Commonwealth Contest
13-15	1400-0600	SSB QCWA QSO Party
13-14	Periods	SSB DIG QSO Party
14	0700-1100	SSB UBA Spring Contest
14	1800-2200	RTTY High Speed Sprint
14-15	1800-0100	CW/SSB Wisconsin QSO Party
20-21	0000-2400	SSB YL-ISSB QSO Party
20-21	0001-2400	CW/SSB Bermuda WorldWide
20-22	2 periods	CW/SSB Virginia QSO Party
20-22	0200-0200	RTTY BARTG Spring RTTY
20-21	1200-1200	CW/SSB Russian DX Contest
20-21	1200-1200	SSTV DARC HF SSTV Contest
20-21	0000-2400	CW/SSB Alaska QSO Party
20	4 hours	CW/SSB Somerset Homebrew
27-28	0000-2400	SSB CQ WW WPX

### April

01-02	1300-1300	CW/SSB YLRC Elettra Marconi
01-02	1500-1500	CW/SSB SP DX Contest
01-02	1600-1600	RTTY EA RTTY Contest
06-08	1400-0200	CW DX YL to NA YL Contest
07-09	2300-2300	CW Japan Int'l DX, High Bands
08-09	1800-1800	CW/SSB King of Spain Contest
08-09	Periods	CW DIG QSO Party
09	0700-1100	CW UBA Spring Contest
15	0000-2400	CW/SSB Australian Post Code Con
15	0500-0859	CW/SSB ES Open Championship
15-17	2 periods	CW/SSB Michigan QSO Party
15-16	1200-1200	CW/SSB YU DX Contest
15-16	Periods	AMTOR SARTG WW Amtor
15	1500-1859	SSB EU SPRINT Spring
15-16	1800-1800	CW/SSB Holyland DX Contest
20-22	1400-0200	SSB DX YL to NA YL Contest
21-22	2200-0200	CW Good Friday CW Sprint
22-23	1200-1200	RTTY SP DX RTTY Contest
22	1600-2400	CW QRP to the Field
24	1500-2000	CW Low Power Spring Sprint
29-30	1300-1300	SSB/CW Helvetia Contest
29-30	2 periods	SSB/CW Florida QSO Party
29-30	1700-1659	CW/SSB Nebraska QSO Party
29-30	1800-1800	SSB/CW Ontario QSO Party

## Winnipeg ARES Report

by Jeff, VE4MBQ - Winnipeg EC

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Our operation for 2000 Festival du Voyager Sled Dog Races went very well. This was our fourth year covering the event - the organizers are still most impressed with what we can do for them! The weather was much colder than previous years but all of our members were "dressed to survive". Thanks to our 21 volunteer operators: VE4s ACX, AJR, AND, EH, GWB, GWN, HAY, HAZ, KAZ, KU, MAB, MBQ, MGR, RCJ, SE, SYM, TRO, WF, WTS, XM, XYL

Special thanks to: Yori VE4ACX for use of VE4TWO repeater Brad VE4XM for bringing out his snowmobile Richard VE4KAZ for use of telescoping mast Richard Andrigh and staff of the Forks Market for their help with Net Control location.

Our February meeting featured a thought-provoking presentation by Don Mackinnon VE4DJM on Future Directions for ARES in Manitoba. We welcome Ian Clark VE4CLK to the membership. Ian and Richard VE4KAZ are working on a new web-site for Winnipeg ARES. Thanks to Maiko VE4KLM for hosting our web-site until now!

The next monthly meeting is Tuesday 21MAR00 1900h at Sir Wm Stephenson Library 765 Keewatin St. INSP Bruce Foster from WPS will be giving us a presentation on WPS Disaster Team.

## UMARS disappearing ??

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Just received news that the UMARS station was shut down tonight (March 1st). A couple of hams are currently scrambling to try to revive it as I type. So if you are a current student at the U of M or an alumni for the school and want to make sure the station is kept going, please get in touch with UMSU and ask how you can join the club and help out. Without your support the station will fold. Time is quickly running out.

## *Parkside Appliance & Electronics*



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[ve4jnf@escape.ca](mailto:ve4jnf@escape.ca)

## Radio Amateurs of Canada

by Derek, VE4HAY

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Now that we will not longer have to submit monies to the government on an annual basis for our operators license. Just what are you going to do with all that loot. Please seriously consider joining Radio Amateurs Of Canada (RAC). This is your national group, and they need your support now more than ever before. For some reason only about 13% of current licensed amateurs are members of RAC. And with the World Radio Conference (WRC) happening in May this year. Your interests need to be expressed. Unfortunately, without support from the amateur community, this will never happen.

What else does RAC provide, How about a great magazine, published 6 times a year. Feature articles in the current issue are:

- Defending our Frequencies
- International Amateur Radio Union (IARU)
- VK9RS - Rowley Shoals Dxpedition
- Central States VHF Conference

Technical Articles are:

- G5RV antenna
- LF beacon on 136.745 kHz
- APRS

Regular Columns and Department articles:

- 6 Metres and Down
- 29 MHz and up
- On the Bench - Tips for the shack
- CQ DX, CQ DX
- QUA
- YL News and Views
- Crosswaves
- Public Service/ ARES
- Contest Scene & calendar
- Section News
- Feedback
- Silent Keys
- Coming events/hamfests

And this doesn't even cover the advertisements of current and new Amateur Radio equipment, accessories and dealers.

The magazine itself is worth the membership, But RAC can offer so much more. The Incoming and outgoing QSL Bureau System. The Field Services, (NTS and ARES), Web site of information, CEPT permits, and so much more. Just talk to the RAC Regional Director, Rick , VE4OV or the Assistant Director Adam, VE4SN. They will be able to show you how great RAC is.

So please consider sending your normal annual license fee to RAC instead of spending it foolishly on a new log book or something of the such.

## Defense of Amateur Radio Fund

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Even if you do not want to join RAC for some reason please consider sending money to the Defense of Amateur Radio Fund (DARF). This fund was established in the early 90's by CRRL to provide financial support for research and to defray travel expenses of a delegate to the WRC to defend the Amateur Radio Bands. The trust is entirely separate from RAC and can not be used by RAC. Currently the is only about \$7500. in the fund and this is not enough to send our delegate to the WRC in Istanbul, Turkey this coming May.

Donations may be made by cheque only to:  
 Defense of Amateur Radio Fund  
 Suite 217 - 720 Belfast Road  
 Ottawa ON K1G 0Z5

## RAC Bulletins

<http://www.rac.ca/~racnews/othernotices/racbulletin.htm>

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### RAC Bulletin 00-013E

RAC to ask Industry Canada to drop 12 wpm Morse requirement.

The Board of Directors of RAC has voted unanimously in favour of a motion to approach Industry Canada with a proposal to drop the requirement for a 12 words per minute Morse code test in Canada. Following the lead of the recent FCC decision in the US, as well as in some European countries, RAC proposes that Canadian amateurs who have passed a 5 wpm Morse code test as well as the necessary written examination, be allowed full access to the HF bands. A formal proposal will be submitted to Industry Canada in the near future.

## Hints & Kinks

de Ralph, VE4RY

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Many of us save used Popsicle sticks for spreading glue on small items, and other craft uses. They are quite handy as they are, but try this simple modification.

Every ham should own a pair of diagonal cutters, and by using them to cut off the rounded end of the wooden sticks, the end becomes a straight edge. This gives a lot more contact area, and the sticks work much better, especially when mixing epoxy glue. The cutters leave a real clean edge on the wood.

This is just another way of explaining to the wife why you need all those tools, hi hi.

## Central States VHF Society Conference

By Barry, VE4MA

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This year the 34th Annual Central States VHF Society Conference will be held in Winnipeg, Manitoba Canada from July 20 through July 22, 2000. This is the first ever CSVHF conference to be held outside the USA, and the conference team is working hard to make the Millennium edition something special. The conference will be held at the Canad Inn Ft. Garry, conveniently located in the south central part of Winnipeg.

Barry Malowanchuk VE4MA is in charge of the technical program and the proceedings. If you are interested in presenting a talk, please contact him as soon as possible by Email - [ve4ma@csvhfs.org](mailto:ve4ma@csvhfs.org) by phone at 204-254-4178

The speakers and topics confirmed thus far are:

KB0HH "Tower Construction"  
 K6MIO "Solar Physics & VHF Propagation"  
 N6TX "Practical SETI Installations"  
 VE7BQH "2m EME"  
 W3EP "Aurora Propagation"  
 W0PHD "Narrow Band Data on Weak Signal VHF/UHF"  
 W0UC "How to Be Competitive in VHF/ UHF Contests"  
 W3EP "Tropospheric Propagation Prediction"  
 W5IU "Update on New Satellites"  
 W5LUA "Receiver Dynamic Range"  
 WA5TKU "Power/ VSWR Measurement Methods for HF/VHF/UHF"  
 W5UC "High Speed Meteor Scatter"  
 WA8WZG "Practical Tower, Antenna & Cable Installations"  
 W9FZ "Roving, A New Experience Every Time!"

Membership in the CSVHFS is only US\$5.00 per year. the cost of the conference is still being determined and will be posted as we get closer to the date. please keep this on your calendar.

## Amateur License Renewals

Telephone Conversation with Industry Canada

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If you're checking the daily mail for your Amateur Radio Operator License renewal, you can stop now. I just got off the phone with an Industry Canada official who said that the requirements to annually renew the operators license has been abolished. When asked for this in writing, I was told that it will be published in the Canada Gazette on March 15th, 2000. So look for it there.

## Amateur Radio news

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### *Several New Amateur Satellites Launched*

Several new Amateur Radio satellites were launched at 0403 UTC on 27 Jan 2000, using an experimental launcher - an old Minuteman missile converted for use as a satellite launcher.

### *WORLD QRP DAY (17th June 2000)*

At the last IARU Region 3 Conference in Beijing it was agreed to promote QRP activities, and organize a QRP day on the 17th June each year.

### *Cross border agreement on 220-222MHz now public.*

Industry Canada has just released the new Canada/US cross border agreement for 220 to 222 MHz. It is a 27 page document in pdf format

Any questions should be sent to , the chair of the RAC VHF/UHF band planning committee. Graham and his committee will be reviewing the document and translating it into proposed revisions to the RAC 220 MHz band plan.

The agreement can be found on the IC web site at <http://strategis.ic.gc.ca/SSG/sf02068e.html?he=y>

It is entitled - Interim Sharing Arrangement Between the Canadian Department of Industry, the National Telecommunications and Information Administration, and the Federal Communications Commission Concerning the Use of the Band 220 to 222 MHz along the United States-Canada Border.

### *Australian hams lose 2302 - 2400 MHz*

The Australian Communications Authority (ACA) has withdrawn amateur access to the 2302 - 2400 MHz band.

The ACA announced on Thursday evening (post-1700 AEDT) on its website that the Amateur Licence Information Paper has been updated "to reflect recent amendments" to the Licence Conditions. The key item of interest is the withdrawal of 2302 - 2400 MHz, which "has been designated, by the Minister for Communications . . . to be allocated by issuing spectrum licenses."

Also, 3.425 - 3.4425 GHz and 3.475 - 3.4925 GHz have been withdrawn in "certain parts of Australia" and are in the process of being declared by the Minister "for re-allocation by issuing spectrum licenses." The regions affected are geographically confined to 12 areas covering the environs of the State and Territory capitals (NT excluded) and major regional areas (eg. Albury, Townsville, Cairns etc).

### *VK CONSIDERING 5 WPM MORSE*

Australia could be the next nation to lower the maximum Morse code speed to 5 words per minute. The Wireless Institute of Australia has been actively considering this issue for the past six weeks. It is likely to be discussing the matter in detail next month with the Australian Communications Authority. That's Australia's version of the US FCC.

Here is where the 5 word per minute issue stands. The seven state based Divisions of the WIA, which form the policymaking WIA Federal Council are about to vote on a new policy. Four WIA Divisions have already declared "in favor" while only two are undecided. Only four are needed to pass. The Wireless Institute of Australia also expects the general issue of Morse code license requirements to be debated at the International Amateur Radio Union Region 3 conference later this year. (Amateur Radio Newline courtesy WIA)

### *70cm Synthetic Aperture Radar still a threat*

During the week of January 24th to 28th 2000, Ken Pulfer VE3PU representing the International Amateur Radio Union (IARU), and Walt Ireland WB7CSL, representing the ARRL attended meetings of the International Telecommunications Union (ITU) at Orlando in Florida to defend the 430 to 450 MHz band against a proposed allocation for Spaceborne Synthetic Aperture Radar (SAR).

A Synthetic Aperture Radar carried on a satellite bounces echoes off the earth to produce terrain maps useful in monitoring environmental problems. Most such radars operate in the 1200 MHz and the 5000 MHz frequency range, but there is a unique requirement for a new radar operating around 450 MHz. Radars at frequencies between 420 and 470 MHz can penetrate the forest canopy and return echoes from about a metre below the surface of the earth. They can therefore provide information about the soil moisture, and general health of tropical forests.

Many countries, including several European countries and the USA have an interest in building and flying a 430 MHz SAR, but at present there is no international frequency allocation for such a purpose.

Spaceborne SARs may use transmitter powers in the kilowatt range, and have antenna gains of about 30 dB, since they must hit the ground with a strong enough signal to produce an echo detectable back at the satellite.

Ever since WRC 95, there have been proposals for a spaceborne radar allocation around 430 MHz, but the allocation has been opposed by the IARU because of possible interference to amateur radio, and by the US military, because they operate ground based radars in the same frequency range. The SAR proponents have the environmental movement and many third world countries on their side.

Since WRC 97, VE3PU has been attending ITU study group meetings and presenting arguments showing that existing SAR designs, if flown, would cause severe interference to amateur radio, and in particular to Moon bounce and satellite operations.

We can expect that this issue may surface again at WRC 2000, and at WRC 2003, so that continued vigilance is required.

**Editor Ramblings**  
**By Derek, VE4HAY**

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Well, it finally happened. I have run out of articles, and I have resorted to showing pictures of my family. I told you this would happen if I did not have a supply of articles ready to go. Okay, so the pictures are amateur related. They are on Guides On The Air (GOTA), which I wrote about last month.

As you can see from this months newsletter it is only 8 sides. 2 sides short of what I normally produce. Also you will see that I had to resort to a lot of news feeds and web content to get the short notices that I did find. This newsletter could have easily been on 4 sides, if I had not taken a day off work to watch my kids and scour the net for something.

So what's my point. I NEED YOUR ARTICLES !! Please send anything that is amateur radio related to ve4hay@rac.ca. I can read most word processor formats.

What else is happening. if anyone knows of any events that are coming up please let me know so I can put them in the newsletter and on the front page calendar listing.

Yippe!! no more license fees. Is this a good thing or not. Only time will tell. My only concern is that Industry Canada will just push amateur radio to the back burner, and

**COME ONE , COME ALL**

**The Winnipeg Amateur Radio Club  
 Semi - Annual Flea Market**

Sunday April 16th.

Heritage Victoria Community Club  
 950 Sturgeon Road  
 Between Ness & Silver

Admission is \$1.00  
 Doors open at 10:00 a.m.  
 For table rentals contact Ruth,  
 VE4XYL at 837-6915 or mail to  
 VE4WSC. 598 St. Mary's Road R2M 3L5

he hobby will fall into the GRS type of environment. Lets hope it doesn't. That is why my annual membership fee was sent to RAC to renew my membership. I have been a member ever since I was a licensed Amateur. I thank my Elmers for lending me their CARF magazines and suggesting I join. Speaking of which, if you just read and throw away your copy of TCA. Please bring to the news meeting and give it to a non RAC member. Maybe then they will see the benefit of joining. If you feel you don't like to be pushed about RAC issues, Then send me an article to fill the space. 73

**Guides On the Air (GOTA) Feb 19-20,2000**  
**By Derek, VE4HAY**

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The Canadian Girl Guides were on the air at VE4GGC (a.k.a. VE4WSC). In total they had about 100 girls through there. And from what I could tell everyone had a great time. I personally want to thank everyone who helped out. I know a lot of people were involved in the planning and the execution of the event. I would personally like to thank Roy, VE4ROY for keeping the license going and for taking the time to talk to the girls. When I read about GOTA in the last issue of TCA, I contacted Roy and Adam VE4SN, and asked how I could get my girls troop out to the event. Roy gladly said to send them on down, and was he in for a surprise when 24+ girls descended on the clubhouse. Here are a few of

the picture that were taken.



Brittney Hay chatting with Ollie from VE3

Austin Hay talking up a storm. She did not want to get off the air and let others on.



Jim, VE4MT giving some helpful last minute instructions to Brittney Hay before she starts her QSO.

**KENWOOD** power in **COMMUNICATION**

## Comtelco Electronics

### March Kenwood Specials:



- \* TH-22AT - 2M hand-held - ..... \$269.00
- \* TH-G71A - dual band deluxe hand held ..... \$379.00
- \* TM-261A - 2M 50 watt mobile ..... \$319.00
- \* TM-G707A - dual band mobile deluxe ..... \$519.00
- \* TH-D7A - dual band hand-held data communicator ..... \$559.00
- \* TM-V7A - dual band mobile deluxe ..... \$719.00

(Prices in effect until Jan 31,2000)  
 (Sale prices are for cash/cheque - Add 2% for credit card order)

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## Membership application form

Radio Amateurs of Canada  
 720 Belfast Road, Suite 217  
 Ottawa Ontario  
 K1G 0Z5

FAX: (613) 244-4369

New \_\_\_ or Renewal \_\_\_ ?

For clubs only: Affiliation Number # \_\_\_\_\_

Name \_\_\_\_\_ Callsign \_\_\_\_\_

Address \_\_\_\_\_

City / Town \_\_\_\_\_ Province \_\_\_\_\_ Postal Code \_\_\_\_\_

1-year single at \$39.95 (GST incl.)..... \_\_\_\_\_

Each additional Family member at \$20 ..... \_\_\_\_\_

(Name/Call sign of additional family members \_\_\_\_\_

VISA/ MasterCard No. \_\_\_\_\_ Expiry Date \_\_\_\_\_

Signature \_\_\_\_\_