



# MARC



## MISSISSAUGA AMATEUR RADIO CLUB NEWSLETTER

June 8, 2000

Vol. 3-10

### From the Gavel - President's Message



Another MARC year is almost over. We have just had our Annual General Meeting, which is the meeting when elections take place. The existing Board of Directors (otherwise known as the Executive) was acclaimed, with the exception of **Neil (VA3NAA)** our Treasurer, who has stepped down due to an increasing workload at work. Neil has been replaced by **Ed Fedorowski (VE3TXN)** who held the Treasurer position a number of years ago. Thanks Neil for all the work you have done keeping track of the funds going in and out, and thank you Ed for agreeing to take this position. Also thank you to all of you who were officers and managers, and those who have agreed to take these positions again for the coming year. The Club would not be as effective as it is without your dedication and support.

As I write this we are gearing up for the Bread and Honey Festival special event operation, which will be over by the time you read this. We are also actively planning our Field Day 2000 operation.

I made a "state of the nation" report to the members at the AGM. I've reproduced it in the remainder of my column, for those who were not at the meeting.

I'm pleased to say that our club has continued to develop and has a productive year once again, and we have been able to move things forward in a number of areas.

With the aid of many members contributing their time, and the coordinating efforts of **Mike (VE3MSE)**, our Public Service Manager, we have been able to provide significant support to the community in the past year. In particular, we did Goblin Patrol, provided communications for the Santa Claus parade once again. As well, we participated in the Red Cross Y2K test in September, and stood by on December 31, in case there were problems. We provided communications services for the Miles for Myelin walk, and the Sunshine Foundation walk, and for the Garden Council on two occasions. The groups involved have appreciated the help. He has also prepared a club Call-Up Tree, which will be used to contact club members in the event of an emergency.

We have a fully functional club station (VE3MIS), with HF, VHF and UHF facilities. The station is used for teaching purposes, and is available for any licenced member to use. We have a club station manual, and members must demonstrate their familiarity with the manual and equipment, whereupon they are given a key to the station.

We now have a very active contest group, under the leadership of **Asim (VE3XAP)**. The Club has participated in eleven contests since the beginning of 1999 (ARRL, CQ, ODXA and RAC contests). We operated as a single station, multi-operator entry in these contests. **Alex (VE3UA)** is our cw expert and with his skills we placed very high in the list of

North American participants in the Russian M CW contest for 2000.

We have initiated the formation of a Club special interest group (a SIG) dedicated to DXing, under the leadership of **John (VE3WJK)** and **John (VE3DRZ)**. The intent is to meet very informally once every month, beginning in October, to provide a forum for discussion of DX activities and issues. All members are welcome to participate. (see the note elsewhere in the newsletter).

The Club once again ran special event stations at the 26<sup>th</sup> Streetsville Founders Bread and Honey Festival last June, and the Halton Radial Railway Museum in September. We made 139 and 120 QSOs respectively at each event, and sent out a total of 74 certificates to people who sent in QSL cards.

Our 1999 Field Day operation, organized by **Earle (VE3XEL)**, and **Asim (VE3XAP)** was held at the Chappell estates in Mississauga once again. We were a 10A operation (this means we operated 10 separate stations, all run from emergency power, in our case gasoline generators), and improved our score from last year. Those who participated thoroughly enjoyed themselves, and **Mary (VE3MCT)**, **Tony (VE3FTA)** and **Fred (VE3VRO)** once again demonstrated their culinary expertise for dinner and breakfast.

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#### Sunday Brunch

Sunday brunches will be held over the summer months on the first Sunday of each month as during the club season. Time is 9:30AM at the Golden Griddle located on the west side of Erin Mills Parkway just north of the QEW off Leanne Blvd. All are welcome to come out and have an opportunity to chat in an informal setting.

**FIELD DAY  
JUNE 24-25, 2000  
COME OUT & ENJOY IT**

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## From my Foggy Perspective...



It was a wild and stormy night. The wind was blowing hard, driving the rain with such force that, when it hit you, was painful. The thunder roared as quickly as the fierce and wild lightning flashed with its ever-threatening jagged points. Now that I've got your attention, it seems one of these must have struck me prior to the Annual General Meeting of May 25<sup>th</sup>.

On May 17<sup>th</sup> I received an email from Art (VE3SQG) on behalf of the nominating committee asking if I would stand for re-election to the Board as Secretary and also continue as Newsletter Editor. I very innocently answered back that "Actually, I'm thinking of resigning from the club etc. **JUST KIDDING!!!!!!**"

Well, I thought it was kinda funny! I went on to say that "Yes, I'm quite happy to continue to muddle my way along as club Secretary and newsletter editor amongst all the other stuff."

Fast forward to May 25<sup>th</sup>..I went downtown to visit the old workplace, have a little lunch, a lot of beer, and then over to the Royal York for a cocktail party of the Toronto Chapter of the alumni association of my old high school in Quebec City.

The following morning I received an email from Art entitled "While you were away...."

It went on to read:

*"Good morning Tony, I hope you had a good time bonding with your old work mates.*

*We had a surprise change of events last night at the Annual General Meeting. As you might have heard, we had trouble getting someone to run for the treasurer. Neil wanted to stand down due to work pressures. So in a surprise move, Michael/TKI decided to stand down from running for President and take over the Treasurers office.*

*Now the Presidents office was open. We called for nominees but no one stood up. So I nominated you for President and Michael seconded it. We had a show of hands and you were unanimously voted in to office.*

*So congratulations Tony, you can now brag to your friends how proudly you support Amateur Radio holding the*

*offices of President, Secretary and Newsletter Editor plus chief cook and bottle washer."*

I responded with "Gee...Thanks...I think. Are there any more surprises????"

Shirley, my wife, who thinks she's funny, also got into the act and sent Art an email which read:

"Dear Art,

*Thank you for solving all my problems. Where should Tony's mail and possessions be sent? Will he need a new bed, or does the club have facilities for roomers? Shirley"*

You can tell what she thinks of all of this can't you!

I went out with Michael (VE3TKI), and with Michael (VE3MSE), (Michael sure is a popular name isn't it??), and Tony (VE3FTA) to have a look at some old school buses which are being considered for our Community Services Vehicle. I was hungover, sick from some sort of a cold bug or the "Dreaded Blargy." Whatever! Gosh, now all these guys are congratulating me on my new appointments (read conscription). Others on the repeater are voicing their congrats as well. "Holy Moly" I think, "maybe this really did take place." I'm getting a little nervous. Maybe I should have stayed downtown and had some more beer. Maybe I should have gone to the meeting instead. No, better yet, I'm going back downtown for more. Please tell me this is not happening!

I receive another email, this time from Earle (VE3XEL) congratulating me on becoming the new Treasurer. Hmmm, so to recap, I'm now President, Treasurer, Secretary and newsletter Editor.

So there you have it. As you can see, I've taken over the second page which is usually reserved for the President's Gavel. Tough bananas, I've taken over!!! Heh! Heh! Heh!

It was a great "gotcha" guys. I deserved it and I enjoyed it. My apologies to you Art if I startled you with the first email, but my fingers get mischievous on occasion, and I have absolutely no control over them.

Comradeship, companionship and friends are what really matters. Life is good. I hope everyone has a great summer.

Thank you one and all for allowing me to be the editor of this newsletter. I trust I've been entertaining, informative and on occasion, thought provoking.

See you in September.

73 de Tony (VA3AJC)

**Mississauga Amateur Radio Club Directors and Managers**  
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 Email: [ve3mis@rac.ca](mailto:ve3mis@rac.ca)

### Directors

President.....	Michael Brickell	VE3TKI	1 <sup>st</sup> Vice President .....	Lorne Jackson	VE3CXT
2 <sup>nd</sup> Vice President.....	Mike Butler	VA3MDB	Treasurer.....	Ed Fedorowski	VE3TXN
Secretary .....	Tony Champion	VA3AJC	Past President .....	Art Sinclair	VE3SQG

### Managers

Membership .....	John Kenzie	VE3WJK	Education .....	Tony Allsop	VE3FTA
Ed. Asst (Theory).....	<b>OPEN</b>		Ed. Asst (CW) .....	Frank Lamb	VE3HTX
Repeater.....	Tony Allsop	VE3FTA	VHF Net .....	Don Brown	VE3UXC
HF Net .....	Lorne Jackson	VE3CXT	VHF Tech Net .....	Jamie Holmes	VE3GXQ
Club Station .....	Asim Zaidi	VE3XAP	Club Station Asst .....	Jamie Holmes	VE3GXQ
House .....	Philimene Barfoot	VA3PIE	Contests.....	Asim Zaidi	VE3XAP
Contest Asst 1 .....	Rick Brown	VE3IMG	Contests Asst 2 .....	Bob Strohm	VE3HEE
Contest Asst 3 .....	Alex Malikov	VA3UA	Newsletter .....	Tony Champion	VA3AJC
Special Events.....	Mike Sawitzki	VE3MSE	QSL .....	Michael Brickell	VE3TKI
Field Day .....	<b>OPEN</b>		Field Day Asst 1 .....	Neil Anderson	VA3NAA
Field Day Asst 2 .....	Asim Zaidi	VE3XAP	Field Day Asst 3 .....	Earle Laycock	VE3XEL
Canwarn .....	Louise Sawitzki	VA3CLC	Canwarn Asst .....	Chris Allsop	VE3SKH
Webmaster.....	Art Sinclair	VE3SQG	Programmes .....	<b>OPEN</b>	

### Public Service Events/ARES

Emerg Coord.....	Mike Sawitzki	VE3MSE	Emerg Asst 1 .....	Art Sinclair	VE3SQG
			Emerg Asst 2 .....	Jamie Holmes	VE3GXQ

### Audit Committee

Auditor 1.....	Mike Sawitzki	VE3MSE	Auditor 2.....	Bill Reid	VE3VBC
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## Minutes of General Meeting #16

Date: May 11, 2000

Location: Scout Hall, 80 King Street West, Mississauga

### Officers Present:

Lorne Jackson	VE3CXT	1st Vice-president
Neil Anderson	VA3NAA	Treasurer
Tony Champion	VA3AJC	Secretary

### Absent:

Michael Brickell	VE3TKI	President
Mike Butler	VA3MDB	2 <sup>nd</sup> Vice President

### Attendance:

31 including visitors: **Wayne(VE3)**, **Bob(VE3)**, **Peter (VE3VDN)**, **Steven (son of Rick VE3IMG)**, **Dana (VE3DSS)**

NOTE: If anyone can provide the complete call signs for Wayne and Bob it would be appreciated.

### Call to Order

Lorne (VE3CXT) called the meeting to order at 7:30PM

### General

- **Tony (VA3AJC)** reviewed to minutes of meeting number 15.
- The nominating committee, chaired by **Art (VE3SQG)** had nothing new to report
- **Michael (VE3MSE)** noted that the Bread & Honey Festival is coming up (June 3&4) and that there is a need for equipment, operators and loggers.
- **Michael (VE3MSE)** also noted the Sunshine Foundation Walkathon is on June 11 this year and that there is a need of between 6-10 people to man the route as we did last year.
- **Tony (VE3FTA)** reported that the club has acquired a GE UHF 110W base station which can be converted to a repeater quite easily.
- **Tony (VE3FTA)** also noted that he is becoming familiarized with the new controllers.
- **Asim (VE3XAP)** gave a brief overview of what Field Day is and also provided an update on the planning which has been done to date. Money will be collected at the next meeting to cover the costs of the annual supper and breakfast over the Field Day weekend, which is June 24 - 25.
- **John (VE3DRZ)** gave a summary of the trip he and **Michael (VE3TKI)** made to Ottawa to attend the **Central Region DX Group**. There are about 40 members of the group. He noted that it is not a club, there are no by-laws etc, but just a group of individuals who enjoy DXing. They meet once per month to discuss DXing and they have speakers who speak on a variety of topics which are of interest to DXers. John went on to say that many of this group are not active members of a club. When asked, he was told that the local clubs don't have anything that interests them. John also noted that this group started off with 2 members.

### Break

#### 50/50 Draw

Our guest speaker **Dana (VE3DSS)** selected the winning number and **Don (VE3RMD)** was the lucky winner of \$12.00, which he donated back to the club. Thank you Don.

### Speaker

**Dana Shtun (VE3DSS)** gave the assembled group an update on where things are with RAC. He noted that the deficit has been greatly reduced from what it had been and membership was slowly on the rise. He also talked about **DARF (Defense of Amateur Radio Fund)** and the fact that it could use a boost in donations. He also talked on the relationships with **Industry Canada**, noting that the relationship at the moment was quite amicable.

### Adjournment

The meeting was adjourned at approximately 9:10PM  
Prepared by: A.J. Champion (VA3AJC)  
Secretary.  
Date: May 24, 2000

## Minutes of General Meeting #17

### (Annual General Meeting)

Date: May 25, 2000

Location: Scout Hall, 80 King Street West, Mississauga

### Officers Present:

Michael Brickell	VE3TKI	President
Mike Butler	VA3MDB	2 <sup>nd</sup> Vice President
Neil Anderson	VA3NAA	Treasurer

### Absent

Lorne Jackson	VE3CXT	1st Vice-president
Tony Champion	VA3AJC	Secretary

### Attendance

28 including 1 visitor VA3BBW Bruce Baillie

### Call to Order

Michael VE3TKI called the meeting to order at 7:30PM

### General remarks by Michael VE3TKI

- **Mike (VA3MDB)** has managed to get his company PPG Canada Inc to donate to our club 7 laptops. They are all in working order some need an external monitor but they work!!! They will come in handy with field day and our new mobile command post. Mike VA3MDB will draft a letter of thanks that will be sent to PPG.
- **Michael (VE3TKI)** also presented a year end report summarizing the Club's activities for 1999/2000 and thanked all the Directors and Managers for making his job easier.

### Speaker

- Our guest speaker was **Bruce Baillie (VA3BBW)**, who gave a talk on operating from the HMCS Haida. Bruce is the Chief Radio Operator (actually the only operator) and would like hams from the club to come out and operate on weekends and during several special events coming up in July and August. In particular Bruce mentioned the "Ships of Museums" event to be held on July 15/16, and the "Lighthouse-Lightship" event to be held on August 19/20. There are also plans for a visit by the SS John Brown, a Liberty ship, on August 5.
- The Haida's equipment is vintage and a Drake TR7. Antennas are trapped dipoles.
- The Haida has FIST#3077 (FIST is a CW club).
- The Haida season runs from May 20 - Sept 4. Operating hours on weekends are 10-6pm until June 16, and 11am - 8pm from then until Sept 4.
- More info can be obtained from calling Bruce or emailing him at the following:  
Phone: (416)252-3947  
Email: va3bbw@idirect.com  
Or  
contact **Jerry Proc (VE3FAB)**

### Break

- No 50/50 draw (we forgot...)

### Elections

- The Nomination committee consisting of **John Duffy (VE3DRZ)**, **Bill Reid (VE3VBC)** and **Art Sinclair (VE3SQG)** started by Art asking if anyone wanted to nominate himself or herself or anyone else from the floor for an executive position. There were no takers and Art asked for a motion to close nominations. It was so moved by **Neil (VA3NAA)** and seconded by **John (VE3DRZ)**.
- Art then read off the returning Board of Director nominees:

**Michael Brickell (VE3TKI)**, President  
**Lorne Jackson (VE3CXT)**, 1<sup>st</sup> Vice President  
**Mike Butler (VA3MDB)**, 2<sup>nd</sup> Vice President  
**Ed Fedorowski (VE3TXN)**, Treasurer (with the usual salary, (ZIP).)  
**Tony Champion (VA3AJC)**, Secretary (tough shoes to fill as I found out writing these minutes.)  
Note **Neil Anderson (VA3NAA)**, has stepped down as treasurer

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## OPTIMUM WORKING FREQUENCY- JUNE 2000

The monthly HF propagation forecast chart lists, in MHz, the OWF (Optimum Working Frequency) for various circuits originating/terminating in Canada. The number in each cell is the frequency that will sustain communications 90% of the time during the forecast period, at a specific time and over that specific circuit.

The OWF is, in theory, 80% of the MUF (Maximum Usable Frequency) for the same period and on the same circuit. Multiply the value in the cell by 1.20 and you have the approximate value of the MUF.

If you use a frequency higher than the listed OWF but less than the MUF, your chances of establishing and maintaining reliable communications decrease very rapidly. At MUF the chances of establishing a reliable contact or hearing clearly an international broadcaster are now of about 50%. For example, if the extrapolated MUF is found to be 10 MHz do not expect reliable, if any, communications on the 20 metres band, 14 MHz.

When the ALF (Absorption Lowest Frequency) is higher than the OWF the table will contain a 0 in that specific hourly cell. This does not mean that communications are impossible but that they are highly improbable, use the last listed OWF for that specific circuit.

The notation (P) after the name of one of the terminals of a specific circuit denotes that this is a polar circuit and that you

should expect poor to unreliable communications on this circuit during geomagnetic disturbances, theoretical auroral zone.

For the purpose of establishing these tables, all the circuits are assumed to be reciprocal, thus the listed OWFs can be used for transmission / reception from either end of the circuits.

The **District/NVIS** (Near Vertical Incidence Skywave) forecast frequency calculated for the six areas of Canada, can be used for local communications within 300 kilometres of the station. To properly use this propagation mode it is essential that an antenna having a maximum radiation angle between 75 and 90 above the horizon be used, such as a half-wave dipole erected one half wavelength over the ground. Most of the RF energy radiated by such an antenna and on the listed **NVIS** frequency will be returned to earth, as from a showerhead, within 300 kilometres of your station.

**NVIS** propagation mode can be very useful for emergency communications when the regular VHF repeaters are out of commission. For more information on this peculiar and interesting propagation mode and its possible uses see page 129 in "The NVIS Propagation Mode and the Ham" in the "ARRL Antenna Compendium, volume 5."

NOTE: The OWF chart is updated on or near the 15th of the preceding month.

UTC	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
<b>EASTERN TO</b>																								
District/NVIS	7	7	7	6	6	5	5	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	6
Atlantic Canada	10	10	10	9	8	7	7	6	5	6	7	8	9	10	11	11	11	11	11	11	10	10	10	10
Central Canada	9	10	10	10	8	7	6	6	6	6	6	7	8	9	10	10	11	11	11	11	11	10	10	9
Pacific Canada	14	13	13	13	13	11	10	9	8	8	8	8	10	13	14	15	16	17	17	17	17	16	16	15
Nunavut	11	10	10	9	8	8	8	7	7	7	8	10	12	13	13	14	14	14	14	14	14	13	12	11
Western Arctic	13	12	12	12	11	10	9	9	9	8	8	9	10	11	11	12	12	13	13	13	13	13	13	13
Eastern USA	9	9	9	9	8	7	7	6	6	5	5	6	7	7	8	8	9	9	9	9	9	8	8	8
Western USA	14	15	16	16	15	13	12	11	10	10	9	9	10	11	12	13	14	14	15	15	15	15	15	14
South America	21	22	21	20	19	19	18	16	15	14	14	17	19	20	21	21	22	22	22	22	21	21	20	21
Western Europe	14	13	13	12	12	12	11	11	*	*	*	13	14	15	16	16	16	15	16	16	16	16	16	15
Eastern Europe (P)	16	15	14	14	13	13	13	*	*	*	*	15	16	17	17	17	16	17	17	18	17	17	17	16
North Africa	17	17	16	14	13	12	11	*	*	*	*	15	17	18	19	19	20	20	19	19	18	17	16	17
South Africa	20	15	13	11	10	12	14	13	*	*	14	17	19	20	21	22	22	22	21	21	20	18	19	20
Middle East (P)	16	15	15	14	13	*	*	*	*	*	*	15	16	16	17	18	18	18	18	18	17	17	17	16
Central Asia (P)	16	16	15	14	*	*	*	*	*	*	*	14	16	16	17	17	18	17	17	17	17	16	16	16
India (P)	16	15	15	14	*	*	*	*	*	*	*	16	18	19	20	20	21	21	21	20	20	19	17	16
Indonesia (P)	17	17	17	18	16	14	*	*	12	12	12	12	15	17	18	19	20	21	21	20	18	19	19	18
Australia	17	17	18	18	18	16	14	13	12	11	11	12	14	16	18	18	17	*	*	*	*	15	20	19
China (P)	17	16	16	15	*	*	*	*	*	*	13	14	15	16	17	17	16	17	16	16	16	16	17	17
Japan	16	16	16	16	15	14	*	12	12	12	12	12	14	15	15	16	15	15	15	15	16	16	17	17
South Pacific	18	19	20	21	20	17	16	15	14	13	13	13	14	16	16	15	15	17	20	20	19	19	19	19

ASAPS for Windows is used to prepare these tables.

Prepared by: Jacques d'Avignon, VE3VIA

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### On Air Events for June

- 10.....Portugal Day Contest
- 10.....QRP Day Contest
- 10.....Asia-Pacific Sprint, SSB
- 10-11 .....ANARTS WW RTTY Contest

- 10-11 .... TOEC WW Grid Contest, SSB
- 10-12 .... ARRL June VHF QSO Party
- 17 ..... Kid's Day Contest
- 17 ..... West Virginia QSO Party

- 17-18..... All Asian DX Contest, CW
- 17-18..... SMIRK 2000 QSO Party
- 24-25 ..... Marconi Memorial HF Contest
- 24-25 ..... ARRL Field Day



## RAC News

### WRC 2000 Canadian participation

The World Radio Conference 2000 (WRC2000) held in Istanbul, Turkey, is now in the fourth and final week of Working Group Committee meetings.

On the Canadian front, Radio Amateurs of Canada Vice President of Government and International Affairs, Dr. Ken

Pulfer, VE3PU, was recommended by RAC and authorized by the Canadian government to attend as a member of the official Canadian Delegation to WRC2000. Dr. Ken Pulfer's attendance is made possible through the many donations to the Defence of Amateur Radio Fund (DARF). Your donations have made it possible for Canadian Amateurs to be well represented at these important conferences. Continued donations to DARF are essential to ensure attendance of a Canadian Delegate at the next WRC in 2003. Further information regarding DARF can be found at <http://www.igs.net/~darf/>

### ARRL-VEC picks up personnel, processing pace

The ARRL-VEC now has seven full-time, three temporary, and eight just-added volunteer staff members chipping away at the mountain of applications resulting from the April 15 license restructuring. ARRL-VEC Manager Bart Jahnke, W9JJ, reports his staff now is wrapping up April 24 receipts from VE sessions. The ARRL-VEC received nearly 23,000 applications between April 15 and May 26.

ARRL-VEC staff was able to submit some 5000 applications to the FCC this week, up significantly from previous weeks. On May 25 alone, 1453 applications were filed with the FCC. Jahnke still estimates it will take approximately six weeks from exam session to the time the paperwork is filed electronically with the FCC, although some grants have been showing up sooner than that. The key is when the session paperwork arrived at ARRL-VEC. The FCC typically grants applications overnight.

Jahnke says there were approximately 4000 applications in the April 24 receipts alone that include sessions as long ago as March 25 and as recent as April 18. ARRL-VEC processes applications according to the date the package arrives in the mail. "We have staff working over the weekend, and we will have staff working over the holiday weekend," he said.

Inquiries concerning the status of applications continue to impair the staff's ability to rapidly process the incoming stacks of applications. "You can't blame people for wanting to know what their status is, but when everyone wants to know, progress slows," Jahnke said. Another thing that slows progress is having to follow up on missing or incomplete information on the NCVFC Form 605 application from a test session.

Jahnke has estimated that the first 30 days of the restructuring surge--April 15 through May 15--will yield 17,200 new Generals and 13,100 new Extras.

The ARRL Letter, Vol 19, No 21

### DAYTON 2000: Hamvention-Convention 2000 a hit!

Amateur Radio's upbeat mood spilled over into Dayton Hamvention 2000, which hosted the ARRL National Convention. Early indications were that the three-day event, which ended Sunday, attracted more than 30,000 visitors for the first time in its history.

The ARRL Letter, Vol 19, No 21

### Willem van Tuijl released from hospital

Willem van Tuijl, the 13-year-old from the Netherlands wounded by gunfire during an attack by pirates off the coast of Honduras last March, has been released from a Dallas hospital. The Dallas Morning News reports Willem "did wheelies in his wheelchair to celebrate" as he left Our Children's House at Baylor University Medical Center on May 24. The son of Jacco and Jannie van Tuijl, KH2TD and KH2TE, Willem faces another two to three weeks of outpatient care. He is expected to be paralyzed from the waist down as a result of his injuries. After the pirate attack, the family was aided by Amateur Radio operators who called the Coast Guard and provided medical advice during the family's trip to shore. With the help of a friend, Jacco van Tuijl recently sailed his boat from where it had been moored in Honduras to a slip in Southern Florida.

While there, van Tuijl spent a few days with Ed Petzolt, K1LNC, one of the hams who had aided him on the air after the pirate attack. ARRL President Jim Haynie, W5JBP, was instrumental in getting Willem and his parents transported to Dallas, where the youth could get specialized medical care.

The ARRL Letter, Vol 19, No 21

### Ham radio helps rescue Pacific boaters

According to a May 14 report in The Honolulu Advertiser, ham radio operators in Hawaii and on Fanning Island in the Republic of Kiribati worked together to help the US Coast Guard rescue a group of teachers adrift in the Pacific. Five Fanning Island teachers were aboard a 36-foot outrigger canoe on a day-long fishing trip May 10 when the canoe's engine failed, said Lt Michael Wessel of the Coast Guard Rescue Coordination Center in Hawaii. A relative reported the missing boat to a ham radio operator on Fanning Island who, in turn, reported it to a ham operator in Hawaii. The Hawaii operator reported the missing canoe to the Coast Guard. After coordinating with the US embassy in the Republic of Kiribati (to assure fuel would be available on Easter Island) the Coast Guard dispatched a C-130 from Oahu early May 12. The airplane found the boat at noon. The aircraft crew dropped food and water to the teachers, as well as a radio and beacon. They then contacted the coastal freighter Matangare on Washington Island in Kiribati. The freighter rescued the crew and salvaged the boat May 13.--thanks to Russell Houlton for sharing this report.

The ARRL Letter, Vol 19, No 21

### Mir mission to end in June

According to news reports, Russia will evacuate the Mir space station in June but will keep the aging spacecraft in orbit in case money becomes available for future missions. Mir was designed to stay in orbit for five years, but it's been in space nearly three times as long. Russian space officials insist that the Mir is funded by private money and has no impact on the International Space Station--already behind schedule in part because of Russian delays. The two cosmonauts aboard Mir, Sergei Zalyotin and Alexander Kaleri, are due to abandon the craft in mid-June after preparing it for months of hibernation. Russian space officials still have not ruled out the possibility that



they'll jettison Mir by late summer if no new money becomes available. There has been some Amateur Radio operation from aboard Mir since it was brought back to life in April and a leak repaired by the current crew.

The ARRL Letter, Vol 19, No 21

## ITU World Radio Conference

The ITU World Radio Conference took place from May 8th to June 2nd in Istanbul Turkey. The following are some of the highlights of the conference of interest to Canadian Amateurs.

Amateur Radio was represented at the conference by three delegates from the International Amateur Radio Union, Larry Price W4RA, Dave Sumner K1ZZ, and Wojciech Nietyksza SP5FM. In addition Paul Rinaldo W4RI, David Wardlaw VK3ADW, and Ken Pulfer VE3PU, represented Amateur Radio as part of their national delegations.

The conference was chaired by a radio amateur, M. Yurdal TA2MY from Turkey, and other important officials included Bob Jones VE3CTM, Director of the Radio Bureau of the ITU, and E. George DL7IH of Germany who chaired the all important committee on future agendas.

The conference lasted for four weeks, with an attendance of over 2000 delegates from around the world. Many issues of vital importance for the future of telecommunications were discussed, and of course Amateur Radio was only a small part of the action

## Highlights (40Metres)

For many years, radio amateurs have been concerned about international frequency allocations for the 40 metre band. At the present time, Amateurs in the western hemisphere have a band of 300 KHz from 7000 to 7300 kHz, while amateurs in most of the rest of the world have only 100 kHz, from 7000 to 7100. In those countries, the rest of the band from 7100 to 7300 is allocated to Short Wave Broadcasting.

For Canadians, this means that the upper two thirds of the band are made almost unusable by the presence of powerful broadcasting stations in Europe.

Amateurs have worked at this and previous WRCs to try to get the situation improved. The object, of course is to try to get 300 kHz allocated to Amateur Radio worldwide.

This year, at WRC 2000, we were successful in having an item placed on the WRC 2003 agenda, "to consider realignment of the allocations to the amateur, amateur satellite and broadcasting services around 7 MHz on a worldwide basis"

This now means that we have three years to consult with Canadian amateurs, formulate our plan, obtain the support of the Canadian government, and negotiate with the other users of the spectrum. It will not be easy. Neither the Broadcasting Service above 7100 kHz nor the Fixed Service below 7000 kHz are anxious to give up their present allocations.

Finally, it is important to note that the WRC 2003 agenda is very full, and the ITU conference budget is limited, so there is a definite possibility that some agenda items may have to be postponed to a future conference.

*Ed note: More highlights will follow when available.*

## 12WPM Vs 5WPM Survey

At the present time, if you wish to have full access to the HF bands in Canada, you must pass a 12 words per minute Morse test.

RAC has requested your opinion on a proposal that the 12 wpm Morse test be dropped, to be replaced by a 5 wpm test and a more comprehensive written examination.

We have had an overwhelming response to the question, but the average results have not changed significantly during the past month.

Here is what Canadian Amateurs have said during the past 6 weeks.

**Retain 12 wpm Morse test -- 33.20 %**

**Drop 12 wpm test and replace with 5 wpm and more comprehensive written examinations -- 66.80 %**

(More than 2 to 1 in favour of the proposed change)

Multiple votes were not counted.

Votes with no call signs or foreign call signs were NOT counted.

Votes using club or repeater call signs were NOT counted

Votes from the same person using more than one call sign were NOT counted.

Votes from family members with different call signs at the same mailing address WERE counted.

## MARC Club News

The **Bread & Honey Festival** (June 3-4) was a grand success. The week-end was near picture perfect, especially Saturday. Over the 2 day period, we made approximately 180 contacts and had a chance to work quite a few stations who had contacted us in years past.

**Mike (VA3MDB)**, **Bob (VE3HEE)** and **Tony (VE3FTA)** had some fun sending SSTV pictures back and forth to the delight of onlookers, and they also demonstrated APRS. **Mike's (VA3MDB)** "station in a case" was quite impressive.

The rest of us worked the IC-706 on SSB, working exclusively on 40 Metres as the other bands were not in good shape.

**Matt (VE3SAX)** made his FIRST CW contact under the watchful eye and coaching of **Frank (VE3HTX)**. I think it is safe to say that Matt was thrilled as were the rest of us for him. He then went on to work quite a number of stations on SSB, which he enjoyed as well.

**Bill (VE3FQF)** also appeared to enjoy the opportunity to do some operating and came out both days.

The rest of us spent time operating, logging and when doing neither, talking, eating and socializing.

We had a good turnout of people and wish to thank all who managed to come out. Our motley crew consisted of: **Art (VE3SQG)**, **Tony (VE3FTA)**, **Mike (VA3MDB)**, **Bob (VE3HEE)**, **Mike (VE3MSE)**, **Louise (VA3CLC)**, **Matt (VE3SAX)**, **Bill (VE3FQF)**, **John (VE3DRZ)**, **Mike (VE3TKI)**, **Lorne (VE3CXT)**, **Frank (VE3HTX)**, **Fred (VE3VRO)** and yours truly, **Tony (VA3AJC)**

We had a number of inquiries from people who saw us there and handed out a number of club brochures. Hopefully some of these people will attend a meeting and join up in the new year.

One of the big attractions was the SSTV and APRS demonstrations. On behalf of the club, thanks to all who came out.



## Why Are Antennas Built to Look Like They Do?

Published by The Tech Bench Elmers Amateur Radio Society

By: John Wendt WA6BFH

We come to recognize the proportionate shape and appearance of antennas. If we see a half wavelength dipole we recognize it for the antenna it is. When we see a Ground Plane antenna we know what it is. Its just the same as when we see a Ford automobile next to a Volkswagen we know which is which. It is possible though for Ford to build a car that looks like a Volkswagen but, it's not possible to build a dipole that looks like a Ground Plane, or a "J" antenna that does not look like the letter J! Lets investigate this, and in fact we can start with the "J" antenna as our object model.

"J"  
Observe that the vertical portion of the letter J is about two times higher than the portion that forms the crook of the J, or we could say that the height of the J is three times the height of the crook. It is for this reason that the J antenna got its name.

The crook portion of a J antenna forms a "Linear Impedance Matching Transformer" or "Q-Line" transformer because of these two parallel conductors that are 1/4 wavelength long. Above this Q-Line is the radiating portion or "radiating element" that is 1/2 wavelength long.

At the bottom end of this quarter wavelength Q-Line which is electrically shorted together, there is a dead short zero Ohm impedance. One quarter wavelength above this dead short is an infinitely high impedance of thousands of Ohms. This is how any Q-Line device such as a "Bazooka Balun" works.

Now some who have read this article so far might be scratching their chins about now thinking, he said the radiating element is 1/2 wavelength long. Gee, a dipole is one half wavelength long! That's right, a "J" antenna is merely an "end-fed" dipole!

Another name for an end-fed dipole is a "Zepp", because this form of dipole was first used on Zeppelins. So how is the more common version of a dipole different?

In the J antenna we feed the dipole on its end at the high voltage point of the antenna. If we feed it at the center at its high current point, we will see a much lower impedance or alternating current (AC) resistance. In fact the characteristic "radiation resistance" of a center fed dipole in free space is 72 Ohms. Free space by the way means that the antenna is several wavelengths above the ground, or any other conductive object. Usually free space means at least 10 wavelengths but, for practical design considerations 3 to 5 wavelengths is often times hard enough to achieve!

What happens if we feed a dipole not at the center, and not at its end but, half way in between. This sort of dipole we call a "Windom" named after the antenna's originator. This type of dipole has a characteristic impedance or radiation resistance of 600 Ohms. This feature allows this sort of dipole to be operated on almost any frequency within several octaves of its design frequency, and always present a relatively moderate impedance and consequently a decent "SWR".

Next let's take a look at "Ground Plane" antennas, afterall, aren't they just another variation on a dipole? Well, it's certainly true that they are "current-fed" at the center of one half wavelength. If you have ever seen a Ground Plane fabricated on a chassis mount coax connector you can see how this antenna works.

You start by cutting five quarter wavelength metal rods, I have always used Brazing rod. If we were going to make such a Ground Plane for the 2 meter wavelength band we would cut these rods to about 19.25 inches. If we start by just soldering on two of them, one to the center connection, and one to one of the flange holes, we have sort of a dipole. Actually this probably looks closer to an "Inverted V" type dipole but, I think you get the picture! So, now we have one of these 1/4 wave rods connected to the center conductor of our coaxial transmission line, and one of them connected to the shield. So, why should we solder on the other three, won't the antenna work with just these two? It would work as far as the transmitter is concerned. It would have a characteristic impedance pretty close to 50 Ohms, so the transmitter would be happy! The trouble is that without the other "radials" to form a uniform "counterpoise", the antenna is not the "omni-directional" antenna we were seeking! If we left it looking like an Inverted-V, it would have a figure-eight radiation pattern broad-side to the two rods. If we provide three radials 120 degrees from one another, or four radials 90 degrees from one another, the antenna will have an omni-directional radiation pattern. By the way, the radials really should be about 5% longer than the radiating element. Also, if the antenna has 3 radials, they will have to be bent down at a lower more acute angle to achieve a 50 Ohm impedance match to the transmission line.

So, what's the bottom line to all this palaver? Simply this, all antennas, any antenna can be analyzed as to its design by analyzing its current and voltage distribution. The end or tip of the antenna is always going to represent a high impedance and high voltage point. If we measure down 1/4 wavelength we will find a high current point and a relatively low impedance. If we follow this process all the way back to the feed-point we can determine all aspects of the antenna including the antenna's aperture size, and the aperture size will tell us the antenna's approximate gain. Every time you double the aperture size of an antenna you double its gain, which means you pick up 3 decibels of gain.

Lets check this out by looking at one last J antenna which has come to be called a "Super J". A Super J starts with a normal looking J just like we see so many of nowadays. At the tip top of this J a quarter wavelength phase de-coupling stub is added, and then another half wavelength dipole is placed on top of the phase decoupler. Guess what happens next, we gain 3 "dBd", or 3 dB's above a dipole reference! In "dBi" this would be 5.2 dB's compared to an "Isotropic" reference.

### Terms

- **Q-Line, Bazooka Balun, or linear impedance matching transformer:** All of these are electrically speaking the same thing. A Bazooka Balun only differs in that it is fabricated from two lengths of tubing, as well as a central coaxial inner conductor. These are all one quarter wavelength long!
- **Radiating Element:** This term is both hard to closely define, and in fact is a bit of a misnomer. The vertical element in a Ground Plane is sometimes called the radiator or radiating element but, it really radiates in conjunction with other associated elements that form part of a half wavelength.
- **End-fed, and center fed:** These terms are closely associated with the terms, "Voltage Fed and Current Fed".. At the end of a half wavelength there is an infinitely high impedance and consequently an infinitely high voltage. At the exact center of a half wavelength is an infinitely high current and virtually by contrast, no voltage and a very low impedance.
- **Characteristic Impedance:** All conductors or wires have both some amount of inductance and some distributed capacitance, this in itself provides a "lumped constant" derived impedance. In various configurations such as two wires parallel to one another, a characteristic impedance will result. Wires that are brought more closely together will have a lower impedance as parallel capacitance rises, or if they are farther apart this impedance will rise as capacitance is reduced.
- **Radiation resistance:** All antennas have a characteristic radiation resistance because of the comparative effects of their distributed inductance and capacitance. This can also be expressed as a current to voltage ratio. Whatever this ratio is, a characteristic impedance will result. For a dipole this is 72 Ohms, for a 1/4 wave Ground Plane with radials at 90 degrees to the radiating element this is about 34 Ohms, and for a 5/8 wavelength Ground Plane its about 90 Ohms.
- **SWR:** Standing Wave Ratio is the term given to the measurement of current or voltage distribution as imposed within the antenna. It is usually measured as a voltage and therefore the term often used is "VSWR". If an antenna has a radiation resistance of 72 Ohms and we feed it with 50 Ohm coaxial cable, the SWR will be 1.44:1. If we fed a 90 Ohm antenna directly with 50 Ohm cable the SWR would be 1.8 to 1 (1.8:1 or 90/50 = 1.8).
- **Phase de-coupling:** When ever the aperture size of an antenna is increased we have to make provision for the additional antenna elements to work in phase with the other elements. On vertical omni-directional antennas this is done by phase de-coupling half wavelength radiators with quarter wavelength phase de-couplers.
- **Gain:** Antenna gain is often times a controversial subject. It really shouldn't be, for the following reason. Every time an antenna's aperture size is doubled, its gain will double. If I properly stack one beam antenna of equal size over its predecessor I will have doubled its aperture size. If I ignore the losses imposed by the feed line and phasing network, I will have added 3 dB's of signal gain. Don't forget though, there's no free lunch. If I put a 10 dB gain antenna on a 100 foot tall tower and use poor or cheap coax cable to feed it, it may well turn out that I have less signal gain than I would have had by putting a unity gain "J" up at 30 feet with good coax.



## The DX Page

### Notes from DX Group Meeting.

#### Attendees:

Asim VE3XAP  
Mike VA3MDB  
Tony VE3FTA  
Tony VA3AJC  
John VE3DRZ  
Michael VE3TKI  
John VE3WJK

**Location:** Scout Hall, 80 King Street West

**Date:** May 29, 2000

#### General

A discussion was held about the response from the clubs that had been contacted and the interest shown at Hamex. We only heard back from one club confirming that they received our note and would let their members know. Only 4 people responded at Hamex.

Although we would have liked to have created a DX group similar to Ottawa we released that the chance of doing the same thing here is remote. There are clubs and other groups in the area that do similar things at present.

Following are the ideas that we came up with.

- Decided to make it a small group within the club.
- Start small.
- Have one meeting a month on a Thursday night.
- Encourage people to become interested in DX
- Put a column in the newsletter.
- Forum to "shoot the breeze".
- Not restricted to MARC members.
- Possible web page in the future.
- Have members of the group ask questions at the meeting. If no one has an answer topic could be researched and presented at next meeting.
- New name: **DX SIG** (SIG = Special Interest Group).
- First meeting on last Thursday(28<sup>th</sup>) in Sept. 2000
- Put a small notice in the newsletter.
- Michael TKI will be Honored Guest speaker at first meeting.
- No minutes at regular DX SIG meetings, only a topic list for next meeting.

### Canadian bandplan

(Basic and 5WPM CW or 12WPM CW)

#### 160 Metre Band - Maximum bandwidth 6 kHz

1.800 to 1.820 MHz - CW  
1.820 to 1.830 MHz - Digital Modes  
1.830 to 1.840 MHz - DX Window  
1.840 to 2.000 MHz - SSB and other wide band modes

#### 80 Metre Band - Maximum bandwidth 6 kHz

3.500 to 3.580 MHz - CW  
3.580 to 3.620 MHz - Digital Modes  
3.620 to 3.635 MHz - Packet/Digital Secondary  
3.635 to 3.725 MHz - CW  
3.725 to 3.790 MHz - SSB and other side band modes\*  
3.790 to 3.800 MHz - SSB DX Window  
3.800 to 4.000 MHz - SSB and other wide band modes

\* 80 metres normally LSB, to stay within Band Plan SSB should not be lower than 3.728 MHz.

As example note US stations cannot operate below 3.753 MHz

#### 10 Metre Band - Maximum band width 20 kHz

28.000 to 28.200 MHz - CW  
28.070 to 28.120 MHz - Digital Modes  
28.120 to 28.190 MHz - Packet  
28.190 to 28.200 MHz - Beacons  
28.200 to 29.300 MHz - SSB and other wide band modes  
29.300 to 29.510 MHz - Satellite  
29.510 to 29.700 MHz - SSB, FM and repeaters

#### (Basic and 12WPM CW)

#### 40 Metre Band - Maximum bandwidth 6 kHz

7.000 to 7.035 MHz - CW  
7.035 to 7.050 MHz - Digital Modes  
7.040 to 7.050 MHz - International packet  
7.050 to 7.100 MHz - SSB  
7.100 to 7.120 MHz - Packet within Region 2  
7.120 to 7.150 MHz - CW  
7.150 to 7.300 MHz - SSB and other wide band modes

#### 30 Metre Band - Maximum bandwidth 1 kHz

10.100 to 10.130 MHz - CW only  
10.130 to 10.140 MHz - Digital Modes  
10.140 to 10.150 MHz - Packet

#### 20 Metre Band - Maximum bandwidth 6 kHz

14.000 to 14.070 MHz - CW only  
14.070 to 14.095 MHz - Digital Mode  
14.095 to 14.099 MHz - Packet  
14.100 MHz - Beacons  
14.101 to 14.112 MHz - CW, SSB, packet shared  
14.112 to 14.350 MHz - SSB  
14.225 to 14.235 MHz - SSTV

#### 17 Metre Band - Maximum bandwidth 6 kHz

18.068 to 18.100 MHz - CW  
18.100 to 18.105 MHz - Digital Modes  
18.105 to 18.110 MHz - Packet  
18.110 to 18.168 MHz - SSB and other wide band modes

#### 15 Metre Band - maximum bandwidth 6 kHz

21.000 to 21.070 MHz - CW  
21.070 to 21.090 MHz - Digital Modes  
21.090 to 21.125 MHz - Packet  
21.100 to 21.150 MHz - CW and SSB  
21.150 to 21.335 MHz - SSB and other wide band modes  
21.335 to 21.345 MHz - SSTV  
21.345 to 21.450 MHz - SSB and other wide band modes

#### 12 Metre Band - Maximum bandwidth 6 kHz

24.890 to 24.930 MHz - CW  
24.920 to 24.925 MHz - Digital Modes  
24.925 to 24.930 MHz - Packet  
24.930 to 24.990 MHz - SSB and other wide band modes

*Ed Note: In September, and henceforth there will be a page devoted to DXing with information such as nets, propagation, QSLing etc. Any suggestions for topics and articles would be welcomed.*



## President's Message (Cont'd)

Thanks to **Mike (VA3MDB)**, the Club is now the proud owner of no less than 7 working laptops, kindly donated by his company. These will be put to good use at various events.

Our twice per month meetings have been attended on average by about 31 members. Our monthly Sunday brunches, held on the first Sunday of the month, have turned into a regular event, and have been well attended, with 15-20 club members participating each time.

The Peel Amateur Radio Club and we partnered to put on the Hamex Fleamarket in March. We again provided tons of volunteers, and as a result of our efforts shared in the profits.

We put a very significant effort into fund raising this year, and as a result we obtained a \$6,500 grant from the City of Mississauga's Corporate Grant program, and \$5,000 from Lakeview Generating Station. The funds, the Hamex profits and any other funds we can raise in the remainder of this year are being put into significant repeater system upgrades, coordinated by **Tony (VE3FTA)**. We are installing a new VHF repeater at the Hurontario site (Tony is testing it now), and are relocating the UHF repeater to the top of the Lakeview GS powerhouse. The two repeaters will be linked with UHF link radios, and we also will be installing a remote VHF receiver to fill in some dead spots in our current repeater coverage. The existing repeater controllers are being replaced with new up to date equipment with better features. We will as well be purchasing an emergency communications vehicle later this summer. These upgrades should significantly improve our ability to provide communications services to the community in emergencies, and should enhance our ability to communicate with each other.

As part of this fund raising effort, we have forged a very productive and mutually beneficial relationship with the City of Mississauga's. Department staff have been most helpful in facilitating our efforts with regard to obtaining the Corporate Grant, and have helped in other areas as well. In particular thanks are due to **Russ Pooley**, our Recreation and Parks Department liaison. As a result of this relationship the Club is joining the Mississauga Garden Council.

Our experience with these fundraising activities has shown that it is possible to raise funds if you approach it in a focused manner, with a clear goal. We will be following up on this over the summer.

The regular weekly nets have been a success. **Don, (VE3UXC)** has organized a series of net controllers for the Tuesday night regular net. **Neil (VA3PLT)** manages the Wednesday night technical net, and **Lorne (VE3CXT)** has organized controllers for the Sunday 80m net.

The Club is now a member of WNYSORC, the Western New York Southern Ontario Repeater Council. **Tony (VE3FTA)** is our member on the Council, which coordinates repeater frequencies in the area.

Thanks to the efforts of **Murray (VE3JMY)**, we have had some interesting and entertaining speakers this year.

Our twice per month meetings have been well attended, due in no small part to the refreshments provided by **Pie (VA3PIE)** our House Manager.

We have a number of new faces in the crowd this year as a result of our ham classes put on by **Tony (VE3FTA)**. And some of these new faces have obtained their CW endorsements, entitling them to operate on the HF bands, thanks to a lot of hard work under the guidance of **Frank (VE3HTX)**, our CW guru

Various club members have introduced themselves to the wonders and secrets of APRS and GPS, so now we always know where they are.

**Tony (VA3AJC)** had an article on CW published in TCA, and a letter written by **Earle (VE3XEL)** on the same subject was published.

Our newsletter has been published monthly by **Tony (VA3AJC)**, our very able editor. We have been able to produce these in PDF format for the last several months.

**Art (VE3SQG)** has continued to make significant improvements to the Club's web page ([www.marc.on.ca](http://www.marc.on.ca)).

The Club remains affiliated with the City of Mississauga, and is a member and supporter of RAC.

None of these very significant achievements would have been possible without the support of our very committed executive and Managers, and you, our members. Thank you everyone for your help and enthusiasm. You have made it a pleasure to be the President of the Club this year!

73 for now, and have a great and safe summer.

Michael (VE3TKI)

## Minutes of General Meeting #17 (Annual General Meeting) Cont'd

**Tony Allsop (VE3FTA)** moved that the Board of Directors be accepted as nominated. The motion was seconded by **Louise Sawitzki (VA3CLC)**.

A vote was taken and it was unanimous

## Field Day

- Our field day managers **Earle (VE3XEL)** and **Asim (VE3XAP)** updated us on the field day site. It appears we are not sure what the site will be but this should be resolved in the next week. Still a lot of operating slots to fill so come out and help set up, operate or just enjoy a good meal or two.

## Adjournment

The meeting was adjourned at 8:50PM

Prepared by M Butler VA3MDB  
2<sup>ND</sup> Vice President

Date: May 26,2000

## STATEMENT BY THE PRESIDENT REGARDING THE UNITED STATES' DECISION TO STOP DEGRADING GLOBAL POSITIONING SYSTEM ACCURACY

"Today, I am pleased to announce that the United States will stop the intentional degradation of the Global Positioning System (GPS) signals available to the public beginning at midnight tonight. We call this degradation feature Selective Availability (SA). This will mean that civilian users of GPS will be able to pinpoint locations up to ten times more accurately than they do now. GPS is a dual-use, satellite-based system that provides accurate location and timing data to users worldwide."

*Ed. Note: This is a partial text of the announcement made by President Clinton on May 1, 2000*



## CLUB CALENDAR FOR 1999-2000

	<b>JUNE</b>	22	Thursday	Pot Luck Social
08	Thursday	24-25	Sat & Sun	ARRL Field Day
				<b>JULY</b>
		01	Saturday	RAC Canada Day Contest
				<b>SEPTEMBER</b>
11	Sunday	14	Thursday	First Meeting, Sign-up for Club & Classes, Budget Presentation
15	Thursday			

**NOTE: ALL MEETINGS START AT 1930 HOURS (7:30PM)**

**Visit our website for any updates of the calendar**

### Items for Sale

Icom R-71A communications receiver c/w manuals. For further information call (905) 507-1389 or call Blago (VA3AMB) at (905) 238-8111 Price: \$500.00 Firm

Glen Martin Engineering roof-tower, Mod. RT-832-Never used. Still in box-Specs: 8'0" tall c/w 4 legs for roof mtgng. Base 32"W-Supports 120lb ant. Max ant area 6 sq ft at 100-mph winds. Contact Lorne (VE3CXT) at (905) 858-8594

**Price: \$200.00**

Radio Shack handheld 2 Meter Transceiver Mod. HX-202 c/w manual, charger & battery pack. Contact Darren (VA3EGG) at (416) 207-9383. Price: \$120.00

Magellan GPS receiver (Magellan GPS 315) complete with computer cable. Contact Lorne (VE3CXT) at (905) 858-8594. Price: \$175.00

### Wanted

10 meter radio, AM/SSB, 10 to 25 watts, reasonably priced. Call Don, VE3SIL 905-819-4821, e-mail: VE3SIL@RAC.CA

### Upcoming Fleamarkets

Central Ontario Hamfest  
Guelph/Kitchener-Waterloo Amateur Radio Clubs  
Saturday, June 10, 2000, Fergus ON

ONTARIO HAMFEST  
Burlington Amateur Radio Club Inc  
Saturday, July 8, 2000, Milton ON

Eastern Ontario Hamfest/Computer Fleamarket  
Tri-County Amateur Radio Club  
Saturday, July 29, 2000, Marmora ON

B.A.R.C. Hamfest 2000  
Brantford Amateur Radio Club  
Saturday, August 12, 2000, Burford ON

AHARC 2nd Annual Fleamarket  
Almaquin Highlands ARC  
Saturday, August 12, 2000, Burk's Falls ON

Victoria-Haliburton HamFest 2000 (formerly Lindsay HamFest)  
Victoria-Haliburton Amateur Radio Association  
Saturday, August 26, 2000, Lindsay ON

### Items for Sale

VHF Radio Kenwood 7950 (FM); CDE Rotor Control and HAM 2 rotor; HEAVY Duty tower (approx. 40 ft); TH-3 Mk3 Tri-band beam; Power Supply Kenwood PS-30; Coax Switches (2) Model #375; 24 Hour Clock TD2400; Desk 6 1/2 ft x 30 inches. This equipment belongs to a ham who due to advancing age, is reluctantly getting out of amateur radio. Contact Tony (VE3FTA) for further information.

**Price: BEST OFFER.**

### Special Events

Authority has been granted to amateur radio station VE3JOK (James Bruce) to use the special call sign VC3SDA during the quinquennial world session of the Seventh-day Adventist Church, to be held at the Toronto Convention Centre from June 26 to July 8, 2000. This authority is valid from June 26 to July 8, 2000.

The Special Even Call Sign VD1VIK as been authorized to be used by the St. Anthony Amateur Radio Association, to celebrate the Viking 1000 Millennium at L'Anse aux Meadows. <http://www.gov.nf.ca/tourism/Iconmenu/viking/default.htm>. This special call sign is valid from July 15, 2000 to August 15, 2000. The contact person for this event is Mr. Carl H. Milley VO1UL

Authority has been granted to amateur radio certificate holder VE3GID to use a Special Event Call Sign to commemorate Old Home Week this summer in Smiths Falls Ontario. The Special Event Call Sign assigned to this specific amateur radio station for the above special event will be VB3SF. This authority will be valid from June 30th to July 3rd, 2000.

### An Appeal from HCMS HAIDA

The HMCS Haida is in need of volunteer radio operators to man the amateur station, VE3CGJ, located in Radio 1 on the upper deck.



Both weekday and weekend schedules are available. If you are interested, contact Bill Baillie VA3BBW at

(416)252-3947 or va3bbw@idirect.com

### What is a Consultant?

A consultant is a person who knows 49 ways to make love, but who knows no women.

Readers Digest June 2000