

# marcOgram



Official Publication of The Montreal Amateur Radio Club Inc. Box 53047 - RPO Dorval, Dorval Quebec H9S 5W4

A MARC Monthly Newsletter

Volume 51, Number 6 March 2006

## *Meeting - Wednesday 29 March 2006*

Ragchew and Fleamarket: 19:30 Club meeting: 20:00

St. Ignatius of Loyola Parish Church

4455 West Broadway (corner of Terrebonne) in N.D.G. - Montreal

(Please enter by the back door)

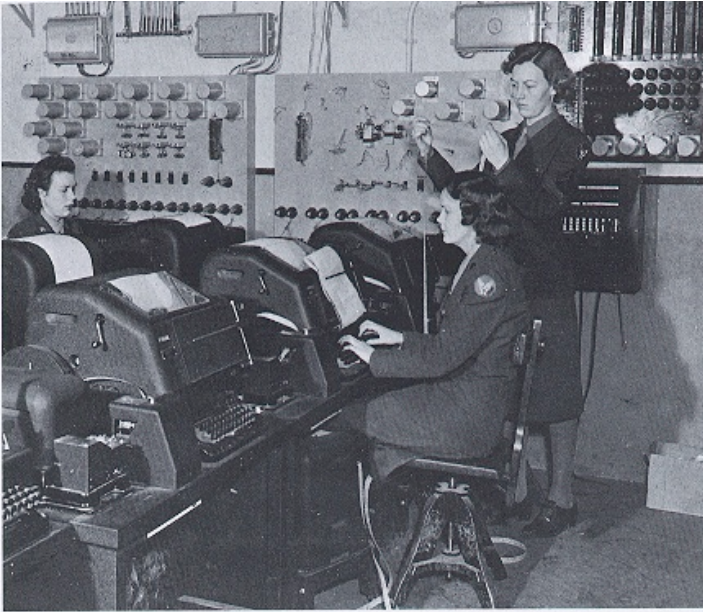
## **The end of an Era**

**The telegram service  
see pages 2 & 5**

## **MARC HAMFEST**

**Saturday April 22 - Be There!!!**

*See some of our members in action.....page 6*



WACs assigned to the Eighth Air Force in England operate tele-type machines. (DOD photograph)



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## A Word from The President

Hello,

As I write this it is clear that spring is on its way. Winter may yet get out its last gasp but the snow is disappearing and the temperature gets a bit warmer each day. The surest sign of all is that the annual St. Patrick's Parade will be making its way down the street for the 182nd. consecutive time and for the third year we are providing assistance to the organizers.

Events like this, and the equestrian events, the Jay challenge, Canada Day and others are all important. The organizers of these events are well aware of the value of amateur radio operators as are the participants.

This year the turn-out for March 19 is not what I had hoped. I am hopeful that our assistance will be

requested next year but I also hope that we will have better participation. We'll be asking for your help for the Cyclo-Tour, the Harmony Horse Trials, Canada Day and the Jay Challenge and quite possibly other events and I hope that more of you will pitch in, show off our hobby, your skills and generally work to boost the profile of amateur radio. Even if ours isn't the only flag being shown lets all try to do a bit more to show our flag.

Don't forget the MARC flea market coming up on April 22. tables are still available so you can still sell off that surplus equipment and the extra parts you're never going to get around to using and if you're not selling be sure to come out, meet your friends and pick up one of the treasures being offered for sale. I look forward to seeing you all at the meeting.

73 de Jim.

## The end of a telecommunications era

### DIRECTORS

- President:** James R. Hay, VE2VE  
514-697-7205  
[jrhay@HayA.qc.ca](mailto:jrhay@HayA.qc.ca)
- Vice President:** Sheldon Werner, VA2SH  
[va2sh@rac.ca](mailto:va2sh@rac.ca)
- Secretary:** Paul MacDougall, VA2YQ  
[redmaple@ca.inter.net](mailto:redmaple@ca.inter.net)
- Treasurer:** Vernon Ikeda, VE2MBS  
514-684-7944  
[ve2mbs@rac.ca](mailto:ve2mbs@rac.ca)

### Directors:

- Don Dashney, VE3RM/VE2SH  
613-675-4715
- Earl Paris, VE2ESP 514-524-4633
- Bob Paknys, VE2JBP  
[ve2jbp@rac.ca](mailto:ve2jbp@rac.ca)
- Raymond Faguy, VA2RY  
[ve2sja@rac.ca](mailto:ve2sja@rac.ca)
- John Grow, VE2EQL  
[jgrow@sympatico.ca](mailto:jgrow@sympatico.ca)
- Ron Campbell, VA2RJC  
[va2rjc@rac.ca](mailto:va2rjc@rac.ca)

Club Call Sign: VE2ARC

Club Website: <http://www.marc.qc.ca>

**Repeaters**

**VE2BG 147.06 MHz (+)**

*Owned and operated by Montreal Amateur radio Club. Located on the Point Claire water tower.*

**VE2RED 147.27 MHz (+)**

*Owned and operated by the Montreal Amateur radio Club.*

**VE2RJS 449.975 MHz (-)**

*Owned by the Montreal Amateur Radio Club and operated by the Cote St. Luc Amateur radio Association.*

**Meetings of the Board of Directors**

*Meetings of the Board of Directors are open to any member to attend. Board meetings are held on the first Wednesday of the month (Sept. to June) at 7:30 PM at the Montreal Association for the Blind, 7000 Sherbrooke St. West.*

*Should you wish to attend one of the meetings you are welcome. Just speak to one of the directors before-hand to make certain that the meeting has neither been cancelled, nor the location changed.*

*The MarcOgram is published nine tomes per year on the second to last Wednesday of September through June, excepting December, by the Montreal Amateur radio Club. Advertising and copy deadline is one week prior to publication.*

**Editor**

Ron Campbell, VA2RJC [va2rjc@rac.ca](mailto:va2rjc@rac.ca)

Tel: 514-767-2804 Cell: 514-825-8954

**Annual Fees are:**

- General Members... ..\$23.00
- Associate Members ...\$23.00
- White cane members ...\$10.00
- Family members (per family) ..\$30.00

*The membership year runs from September 1 to August 31. Membership received on or after June 1 commences immediately and extends through the subsequent membership year - covering a period of up to fifteen months.*

*Articles published in the MarcOgram may be reproduced providing credit is given to the original author and the Montreal Amateur radio club.*

*The opinions expressed herein are, unless otherwise stated, solely those of the authors concerned, and not those of the Club, the*

*Directors or members and do not represent the policy of the Club.*

*James R. Hay, President*

**A SATSUIT-1 Story**

**Jim Nagle and SATSUIT-1**

One night (at 4:00 am) Jim was on his apartment building roof completely equipped to communicate with SARTSUIT-1. While labourously setting-up his com equipment, he suddenly felt a tap on his shoulder. Low and behold there stood two of Montreal's finest, yes, two police officers. Naturally they wanted to know what the heck he was doing at 4:00 am in the morning. Jokingly our Jim stated that he was searching for extraterrestrial beings!! After checking his identification (good he had some with him on the roof), the constables confirmed with the concierge that a Mr. Nagle did reside in the building. Jim is still with us so I assume the police accepted his story, with a grin on their faces.

**St. Lazare Cyclo-Tour - Sunday, May 28, 2006.**

This is to announce that the St. Lazare Cyclo-Tour will be on Sunday, May 28, 2006 starting at the usual location of Bedard Park in the Town of St. Lazare. This communications event will start around 10h00 so you need to be there about 08h30 A.M. for the briefing. We will be using the M.A.R.C. portable repeater on 147.015 (+) and 146.460 simplex, so have your radios pre-programmed for this event. This event is mostly done roadside, so most stations/checkpoints can be operated from one's car.

**From the Editor's Desk**

*So it's March already!!!!*



Well, your editor has been kind of under the weather, or something. Since early February I've made so many trips to a local hospital that feel I should have made a permanent reservation, only problem is there's a waiting list to get on the reservation list!!!

My medical problems have really played havoc with my planned dvcam and ham activities. I should have spent an evening taking video footage with John Grow VE2EQL educating some scouts on the good fun of amateur radio and, today Sunday 19th, of March I was to be part of the ham contingent for the 182nd St. Patrick's Day Parade and at the same time I would have made good use of my DV camcorder.

I guess whatever plans we make, they can always be diverted by something beyond our control.

As I mentioned, today is Montreal's St. Patrick's Day, so I thought I would include a few shots taken at last year's parade, of hams in action.

That's it for now, your Ed...  
rjcam the video-ham.

**VA2RJC**



## Club Activities - Monthly Meetings

Club meetings are held on the last Wednesday of the month. The meetings will be held in the Lounge which is the rearmost door on the South side of the unless we have reason to hold it in the Parish Hall which is the first door on the South side of the building. An informal flea-market and ragchew session starts at 19:30 with the formal meeting starting at 20:00. STM buses 51, 162, and 105 stop nearby.

### 29 March 2006

A preview of the DVDCAM-HAM will be given by Ron (VA2RJC). This session will provide some details regarding the pre-production planning, the production stage (taking of video footage) and the post-production stage (editing, titling and sound). A selection of the footage taken will be shown. This presentation may be postponed due to Ron's health.

### 26 April 2006

TBA

### 31 May 2006

Annual Show and Tell Meeting

## Radio Classes - Winter 2006

We started the Winter 2006 classes on January 21 with eleven students, most of whom are boaters via the Canadian Power and Sail Squadron. Many thanks to Steven Faguy, VA2SMF of the Concordia University ARC for getting us a room and to Sheldon Harvey, VE2SHW of Radio HF for getting us the books for the course.

This week is the last week of instruction and the exam follows. So I take this opportunity to wish good luck and success to all the participants and we look forward to welcoming them to

the radio amateur world-wide fraternity.

## Other Activities

Other club activities that are in the planning stage. The amateur radio fleamarket to be held on 22 April 2006. Now is the time to book your table.

## 2006 Hamfests

**Montreal Amateur Radio Club 2006 Fleamarkets/Hamfests page** For up to date Canadian Fleamarket listings, please check the Radio Amateurs of Canada site at: <http://rac.eton.ca/> or for up to date American listings, go to the American Radio Relay League Hamfest website at: <http://www.arrl.org/hamfest.html>

Saturday, March 25

**HAMEX 2006 - Brampton, Ontario.** Location: Brampton Fall Fairgrounds, Heart Lake Road corner of Old School Road, Brampton, Ontario. Time: Vendors at - Public at 09:00 to 13:00 - Seminars 1300-1800. Talk-in VE3PRC 146.880 (-) PL 103.5 Hz Admission: 6.00\$ - Tables TBA. Information: [ve3xr@rac.ca](mailto:ve3xr@rac.ca) or 905-453-6096 Web page: <http://www.ham-ex.ca>

Saturday, April 1

**Hamfest Laval-Laurentides 2006 - Laval, Québec.** Location: Polyvalente Georges Vanier, 3995 boul. Lévesque Est., Saint Vincent de Paul (Laval), QC. Vendors: 07:00 Public 09:00 Admission: 5.00\$ per person. Tables: 10.00\$ Talk-in: VE2REL 147.315 Mhz (+). Information and reservations: (514)-708-8033 or via e-mail at [hamfest@ve2crl.qc.ca](mailto:hamfest@ve2crl.qc.ca). Web page: <http://www.ve2crl.qc.ca/hamfest.htm>

Saturday, April 1

**Iroquois A.R.C. 11th Annual Flea Market - Iroquois, Ontario.** Location: Iroquois Civic Centre. Vendors: 08:00 Public: 09:00 - 12:00. Free Admission / Tables 10.00\$. Talk-in VE3IRO 145.290 (-). Table reservations/ Information: Gordon Knights, VE3UGW. (613)-657-3640 or E-mail [ve3ugw@ripnet.com](mailto:ve3ugw@ripnet.com) Web Site: <http://www.iarc.dyndns.org:8080/>

Saturday, April 22

**Montreal Hamfest and Fleamarket LaSalle (Montreal), Québec.** Location: Royal Canadian Legion Branch 212 (LaSalle), 7771 Bouvier, corner of Shevchenko. STM Bus

109 at the door. Vendors 08:00 Public 09:00 to 12:00. Admission - 4.00\$ Talk-in VE2RED 147.270 (+) - Information: James R. Hay, VE2VE - (514)-697-7205 E-mail: [ve2arc@rac.ca](mailto:ve2arc@rac.ca). Web page: <http://www.marc.qc.ca/fest/fest.html>

Saturday, April 22

**Durham Region Hamfest - Whitby, Ontario** Location: Iroquois Park Arena - Victoria Street corner of Henry Street. Vendors 07:30 - Public 09:00 to 12:00 Admission 6.00\$ Tables: 25.00\$/50.00\$ - Hydro \$5.00 extra. Talk-in: 147.375 (+) VE3SPA Information/Reservations: Gary Heagle, VE3EPY at e-mail at: [ve3epy@rac.ca](mailto:ve3epy@rac.ca) Reservations by mail only. See web site for more information. Web Site: <http://drhamfest.tripod.com>

Sunday, April 30

**Brandon Amateur Radio Club Mini-fest - Brandon, Manitoba.** Location: Riverview Curling Club, 420 Maryland Avenue, Brandon, MB. Vendors - 11! General Admission 12:00 - Tables \$5.00 - General Admission \$2.00. Talk-in: VE4CTY 146.640 (-) Information - Dave Snyder, VE4XN at 204-728-2463 or via e-mail at: [dsnydal@mts.net](mailto:dsnydal@mts.net)

Sunday, May 7

**O.C.A.R.C. 2nd Annual Flea Market - Kelowna, British Columbia.** Location: Ellison Heritage School Community Centre, 4411 Old Vernon Road, (East of the Kelowna Airport), Kelowna, B.C. Vendors 08:00, Public 09:00 Admission 2.00\$ Tables 10.00. Talk-in: 146.680 (-) Information: Keith Manhard, VE7KNG, 250-766-2179 or Carl Bertholm, VE7CLC 250-769-4184 E-mail: [ve7kng@rac.ca](mailto:ve7kng@rac.ca) Web page: <http://www.ocarc.ca/hamsale>

Saturday, May 13

**22nd Annual Smiths Falls Amateur Radio Fleamarket - Smiths Falls, Ontario** Location: Smiths Falls Youth Arena (behind 150 Elmsly Street North, Corner of Cornelia Street (County Road 43) and Elmsley Street) Smiths Falls, ON. Vendors 07:00 Public 09:00 to noon Tables 10.00\$ General Admission 3.00\$. Talk-in: VE3RLR 147.210 (+) Table reservations/Information via The Rideau Lakes Amateur Radio Club Inc., c/o John Aikman VA3JHA, Secretary, RR 1, Portland, ON, K0G 1V0 E-mail: [irmajohn@perth.igs.net](mailto:irmajohn@perth.igs.net). Web page: <http://www.falls.igs.net/~rlarc>

Saturday, May 13

**Down East Fleamarket - Halifax, Nova Scotia** Location: Halifax Forum Complex at the corner of Young and Windsor Streets. Time: Vendors at 06:30 and General Public at 09:00 - Tables: T.B.A. Vendors must reserve tables in advance - General Public: T.B.A. Talk-in: VE1PSR 147.270 (+) E-mail: Web Page:

<http://www.halifax-arc.org/harcweb/Events/Fleamarket.html>

Saturday, May 27

Amherstburg Radio Club 2005 Fleamarket - Amherstburg, Ontario. Location: Kinsmen Scout Hall on the corner of Victoria and Simcoe Streets. Vendors 07:30 and the Public 09:00. Tables 5.00\$ General admission Free. Talk-in: 145.290 (-) VE3EXT and 146.520 simplex Information and Reservations: Carey Collard, VE3CFQ at 519-736-7694 e-mail [ve3cfq@hotmail.com](mailto:ve3cfq@hotmail.com)

Saturday, June 10

Central Ontario Fleamarket and Hamfest. - Fergus, Ontario. Location: Fergus & District Community Centre, 10 km north of Guelph off Highway 6. See [www.hamfest.on.ca](http://www.hamfest.on.ca) for a map. Vendors at 06:00, Tailgaters at 07:00 and the Public at 08:00 to 12:30. Admission \$6.00 -- Vendors - \$12.00 plus admission -- Tailgaters \$7.00 plus admission. Talk-in: 145.210 (-) VE3ZMG, switch to 146.520 simplex in the Fergus.. E-mail: [info@hamfest.on.ca](mailto:info@hamfest.on.ca) Web page: <http://www.hamfest.on.ca>

Saturday, July 8

Ontario Hamfest 2006 - Milton Ontario. Location: Milton Agricultural Fairgrounds, Milton ON. Times Inside Vendors: 07h00 - Robert Street Gate only. Tailgaters:08h00 - Robert Street gate only - General Admission: 09h00 - Thomas St gate only. General Admission - 6.00\$ Inside Vendors - 10.00\$ per table plus

6.00\$ per person Tailgaters - 5.00\$ tailgate permit (per space) + 6.00\$ per person. Talk-in: 146.520 Simplex. E-mail: Registration: [ve3czi@rac.ca](mailto:ve3czi@rac.ca) or Norm Freidin at (905)-335-8962 - Information: Chuck Wilson, VE3IUO E-mail: [ve3iuo@rac.ca](mailto:ve3iuo@rac.ca) phone (905) 667-8534 Web Page: <http://home.cogeco.ca/~barc>

Saturday, September 2

Ottawa Amateur Radio Club 10th Annual Hamfest. - Carp, Ontario. Location: Carp Agricultural Fair Grounds, 3970 Carp Rd (at Falldown Lane), Carp, ON. Vendors - 08:00 Tailgaters - 08:00 General Public - 10:00 to 13:00. Forum T.B.A. - 13:00 General Admission 5.00\$ Tables 10.00\$ plus admission Tailgaters 5.00\$ plus admission. Talk-in: VE2CRA 146.940 (-) Greg Danylichenko, VE3YTZ at (613) 236-9291 (H) E-mail: [fleamarket@oarc.net](mailto:fleamarket@oarc.net) Web Page: <http://oarc.net/fleamarket>

Saturday, September 16

West Island Auction - Dollard des Ormeaux (Montreal), Quebec, Location: Karnak Shiners Hall, 3350 Boulevard des Sources, Dollard des Ormeaux, QC. Vendors - T.B.A - General Public T.B.A. - Auction General admission T.B.A. - Tables T.B.A. Talk-in:

VE2RWI 146.910 (-). Information: e-mail to [ve2cwi@rac.ca](mailto:ve2cwi@rac.ca) Web page: <http://shell.pubnix.net/~wiarc>

## Submissions for entry into marcOgram

*For submissions of text only it is preferable that you send as a ".txt" file, however, MS Word is acceptable.*

*For pictures please use "jpg" format with maximum size 400 x 240. Where possible use at least 240 dpi.*

*For clip art if possible use "gif". Maximum size 480 x 340 pix. This will give a picture size of approximately 8 Kb.*

Contact me at:

[va2rjc@rac.ca](mailto:va2rjc@rac.ca) [va2rjc@marc.ca](mailto:va2rjc@marc.ca)

Home Tel: 514-767-2804

Snail mail: Ron Campbell, 201 Du Club Marin, Apt. 209, Verdun, QC. H3E 1T4

## The End of an Era

As of January 2006, The Western Union website now shows this notice:

"Effective January 27, 2006, Western Union will discontinue all Telegram and Commercial Messaging services. We regret any inconvenience this may cause you, and we thank you for your loyal patronage. If you have any questions or concerns, please contact a customer service representative. "

This ends the era of telegrams which began in 1851 with the founding of the New York and Mississippi Valley Printing Telegraph Company, which spanned 155 years of continuous serv-

ice. Western Union reports that telegrams sent had fallen to a total of 20,000 a year, due to competition from other communication services such as email. Employees had been informed of the decision in mid-January.

## History

Western Union was founded in Rochester, New York in 1851 as "The New York and Mississippi Valley Printing Telegraph Company".

After a series of acquisitions of competing companies by Jephtha Wade, the company changed its name to "Western Union Telegraph Company" in 1856 at the insistence of Ezra Cornell, one of the founders of Cornell University to signify the joining of telegraph lines from coast to coast.

Western Union completed the first transcontinental telegraph line in 1861. In 1865 it formed the Russian American Telegraph in an attempt to link America to Europe, Western Union Telegraph Expedition via Alaska, into Siberia, to Moscow.

It introduced the first stock ticker in 1866, and a standardized time service in 1870. The next year, 1871, the company introduced its value transfer system money transfer service, based on its extensive telegraph network. As the telephone replaced the telegraph, money transfer would become its primary business.

In 1914 Western Union offered the first charge card for consumers; in 1923 it introduced teletypewriter's to join its branches. Singing telegrams followed in 1933, intercity fax in 1935, and commercial intercity microwave communications in 1943. In



1958 it began offering Teleprinter/telex to customers. In 1964, Western Union initiated a transcontinental microwave beam to replace land lines. Western Union became the first American telecommunications corporation to maintain its own fleet of geosynchronous communication satellites, starting in 1974. The fleet of satellites, called Westar, carried communications within the Western Union company for telegram and mailgram message data to Western Union bureaus nationwide. It also handled traffic for its Telex and TWX (Telex II) services. The Westar satellites' transponders were also leased by other companies for relaying video, voice, data, and facsimile (fax) transmissions.

*St. Patrick's Day Parade  
- March 19, 2006.*

By the time you are reading this, the 2006 st. Patrick's Day parade will be over. But here's a couple of pictures taken at last years parade....



**SMALL ADS**

FOR SALE: A HYGAIN ANTENNA "JUNIOR 10-15-20" IS AVAILABLE FROM MAB. THE ANTENNA WOULD REQUIRE SOME WORK TO BRING IT BACK TO STANDARD. IF INTERESTED PLEASE CONTACT EARL PARIS, VE2ESP, HOME 514-524-4633, WORK, 514-489-8201 LOCAL 1015.

**For Sale** – Used Ameritron AL 80B Linear Amplifier – 1 KW output. Used very little. Too big to store. Worked fine when I disconnected it from Grandfathers station ~ 2 years ago. \$1000 obo. Serious inquiries only. [belyea\\_david@yahoo.ca](mailto:belyea_david@yahoo.ca) or 514-624-3904

**For Sale** Mosley 3 element beam Ta-33 (10/15 & 20 m) with balun Excellent condition and 40 ft tubular tower. \$375.00. Contact: Carlo VE2CCF Tel: 450-622-6065

Jay Challenge Friday July 28, Saturday July 29 and Sunday July 30th 2006. The event web site is:

<http://www.jaychallenge.com/>

A description of the event:

**Friday** is the boat race. A crossing of lake Memphremagog by Kayaks. 26 miles. This is the easy one. 5 or 6 hams required.

**Saturday** is the cross-country marathon. This is a 26 mile run to the top of Jay Mountain and around the countryside. 10 to 12 hams required.

**Sunday** is the mountain bike race. This is a 60 mile race to the top of Jay and around the countryside. 15 to 17 Hams required.

What is required of the Hams is very simple, to man check points with other volunteers and pass messages.

Lodging is supplied at Jay Peak. Please contact me at.

[VA2RY@RAC.CA](mailto:VA2RY@RAC.CA)

Ray VA2RY

**Fun Corner**

Hi All,

I was just at Home Depot to buy some rosin core solder for a "Show and Tell" project I hope to finish for the upcoming meeting. I was told the solder was \$2.43 per package, and "Oh, Sir, would you like the extended warranty with that for \$4.98? "

Don't blame the sales clerk as she showed me that it was on the computer/register to have her ask...  
Jim KB1JVF  
Hampden County Radio Association



## NORTH EASTERN QRP FORUM

JULY 7<sup>TH</sup>. TO JULY 9<sup>TH</sup>, 2006

Thomas Point Beach Camp Ground, Brunswick, Maine

[www.thomaspointbeach.com](http://www.thomaspointbeach.com)

# Lobstercon 2006

### Planned Activities

<b>Friday Evening:</b>	No-Host Dinner, Seafood Restaurant "Cook's Lobster Pound" Maine's 1 <sup>st</sup> . Choice
<b>Saturday Morning:</b>	Walk-a-bout, meet your fellow QRP'ers.
<b>Saturday Lunch:</b>	BBQ Buffet. Hosted by Hendricks QRP Kits & Pacific Antenna's. Makers of QRP and associated radio kits. And the famous PAC-12 Portable HF Antenna.
<b>Saturday Afternoon:</b>	QRP Swap-fest, Giant Kite-Flying, Operating
<b>Saturday Dinner:</b>	Lobster Feast, Hosted by QRPme
<b>Saturday Evening:</b>	Prize raffles, Campfire, Chatting and Music
<b>Sunday Morning:</b>	Breakfast at May's Café.
<b>Sunday Mid-morning:</b>	More kite flying, Operating, and departure
<b>Monday:</b>	Many brave souls will only depart on Monday. Giving more time to operate, chat, etc. Please note, extra camping fees will apply for the extra night.

### Famous QRP'ers Attending:

**Doug Hendricks, KI6DS, NORCAL**  
**Dave Benson, K1SWL, "Small Wonder Labs"**  
**Steve Weber, KD1JV "Kit Designer"**  
**Jim Kortge, K8IQY, "2N40 fans"**  
**Bill Noyce, AB1AV**  
**Jim Fitton, W1FMR**  
**Jim McElroy, NS1E**  
**Brian Riley, N1BQ of NVQS**  
**Dennis Marando, K1LGQ, "New England QRP Club"**  
**Jim Cluett, W1PID**  
**Seab Lyon, AA1MY "Kite Flying"**  
**Jeff Hetherington, VA3JFF**  
**Mike Pechura, WA8BXN**  
**Greg O'Brien, NE1OB**  
**Jim Cummings, VE3XJ**

**COSTS:** \$ 35.00 Per Person, USD, which includes, Saturday buffet lunch and Lobster supper & Lobstercon activities. Camping is \$ 20.00 night per family / \$ 10.00 per person. Day tripper entrance fee at campground is \$ 3.50

### CONTACT INFORMATION:

**Rex Harper, W1REX**  
 P.O. Box 160  
 Limerick, Maine  
 04048, USA  
 Email or PayPal Payment: [w1rex@megalink.net](mailto:w1rex@megalink.net)

**John Grow, VE2EGL**  
 100A Walnut Street  
 Door 18, Suite 135  
 Champlain, New York  
 12919, USA  
 Tel: 450-672-1545  
[jgrow@sympatico.ca](mailto:jgrow@sympatico.ca)

**DOOR PRIZES:** To be announced

**RADIO HF**

TELEPHONE &amp; FAX: 450-671-3773

C.P./BOX 67063-Lemoyne

SANS-FRAIS/TOLL FREE:

St. Lambert, Quebec

1-800-463-3773

J4R 2T8

E-MAIL/COURRIEL:

[info@radiohf.ca](mailto:info@radiohf.ca)

Sheldon Harvey, Prop.

web:

VE2SHW

[www.radiohf.ca](http://www.radiohf.ca)

**SHORTWAVE & AM/FM RADIOS / RADIOS ONDES COURTES & AM/FM**  
A.O.R., DRAKE, FAIRHAVEN, GRUNDIG/ETON, ICOM, SANGEAN, SONY, YAESU

**SCANNERS / BALAYEURS D'ONDES**

A.O.R., ALINCO, ICOM, UNIDEN/BEARCAT, WINRADIO, YUPITERU

**AMATEUR RADIO / RADIO-AMATEUR**

A.D.I., ALINCO, ICOM, KENWOOD, RANGER, YAESU

**CITIZENS BAND (CB) / BANDE PUBLIQUE (CB)**

ALAN, ASTATIC, COBRA, GALAXY, K40, MACO, MAGNUM, MIDLAND,  
PARADYNAMICS, RANGER, ROAD NOISE, SHAKESPEARE, SOLARCON/ANTRON,  
UNIDEN, VALOR/PRO-AM,  
WILSON, WORKMAN

**FAMILY RADIO SERVICE (FRS) / DISPOSITIFS RADIO DOMESTIQUES (DRD)**

AUDIOVOX, COBRA, ICOM, KENWOOD, MOTOROLA

**ANTENNAS / ANTENNES**

ALPHA DELTA, ANTENNA SUPERMARKET, ARROW, ATOC, BUTTERNUT, COMET,  
CREATE, CUSHCRAFT, DIAMOND, FIRESTICK, FORCE 12, HUSTLER, HYGAIN,  
LARSEN, MFJ, MIRACLE ANTENNA, OUTBACKER, PRYME, SCANMASTER,  
VALOR/PRO-AM, VAN GORDEN, WORKMAN

**SPECIALTY PRODUCTS / PRODUITS SPECIALISES**

AMERITRON, ASTRON, BENCHER, DAIWA, D.C.I., GARMIN, GEOCRON, HEIL,  
KANTRONICS, KIWA ELECTRONICS, L.D.G., MAGELLAN, MAHA, MFJ, MIRAGE, NYE  
VIKING, OPTOELECTRONICS, PALOMAR ENGINEERS, PALSTAR, PREMIER, RF  
CONCEPTS, R.F. SYSTEMS, RIGBLASTER, S.G.C., TIMEWAVE, UNADILLA,  
UNIVERSAL, VECTRONICS, VIBROPLEX,  
WEST MOUNTAIN RADIO

**PUBLICATIONS / PUBLICATIONS**

AMERICAN RADIO RELAY LEAGUE (ARRL), ARTSCI, BAYLIN PUBLICATIONS,  
BILLBOARD (WRTH), CQ, CRB, HIGHTEXT, IBS (PASSPORT), KLINGENFUSS,  
LOOMPANICS, NATIONAL RADIO CLUB, RADIO SOCIETY OF GREAT BRITAIN,  
RADIO AMATEUR CALLBOOK, RADIO AMATEURS OF CANADA, RADIO AMATEURS  
DU QUEBEC, SCHIFFER BOOKS, SONORAN, TAB,  
TIARE, UNIVERSAL RADIO