

marcOgram

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



Volume 50, Number 8

May 2005

“Murray Epstein, VE2AUU, on RAC”

Wednesday 25 May 2005

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)

Come on out to this must attend meeting. Murray Epstein, VE2AUU, will be giving a talk about Radio Amateurs of Canada, (RAC). Murray is dynamic speaker and this will be sure to be an interesting talk. So be sure to mark this date on your calendar and come out be part of this informative evening.

A WORD FROM THE PRESIDENT

Hello,

As I write this VE2RED and VE2RJS went off the air on May 15. By the time of the meeting if they are both not back on the air it should not be long. Owing to a change in ownership of the building a few years ago and also a change in the owners of the repeater site, and therefore the tower, we have had to remove the equipment. While we are hopeful that we may be able to return to the site this is not, at the moment, assured.

We expect to have VE2RED back on the air at a temporary location while we work on a more permanent home. VE2RJS should also be back from the former location of the cross-band repeater which the Cote St. Luc Amateur Radio Association had. In

the next few weeks I will try to determine if we can move back to the long-time home of VE2RED and failing that we are investigating alternatives.

On other fronts Ken Magee is still looking for volunteers for the St. Lazare Cyclo-Tour on May 29 which is always enjoyable and the Harmony Horse Trials are coming up in August. Raymond is looking for more help with the Jay Challenge which got glowing reviews last year. We'll be looking for a few bodies to help us with Canada Day in Dorval and there is also the antenna work at the MAB.

On the antenna front it is anticipated that on May 28 the antenna will be taken down at Earl's house. If you are able to assist with that please let me know. Also there is more work needed at the MAB including mounting Earl's antenna. If you can assist please let me know.

Summer is clearly on its way so we can finally get outdoors. Hopefully we'll see more of you at some of

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Editor:
 Craig Brander, VE2YKG craigyul@total.net 514-488-5109

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. Memberships received on or after June 1 commence immediately and extend through the subsequent membership year - covering a period of up to fifteen months.

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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.

Directors

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 dash@hawk.igs.net

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 Bob Paknys, VE2JBP ve2jbp@rac.ca
 Raymond Faguy, VE2SJA ve2sja@rac.ca
 John Grow VE2EQL jgrow@sympatico.ca

Club Call Sign: VE2ARC
 Club Website: <http://www.marc.ca>

Repeaters

VE2BG 147.06 MHz (+)
 Owned and operated by the Montreal Amateur Radio Club. Located on the Pointe Claire water tower.

VE2RED 147.27 MHz (+)
 Owned and operated by the Montreal Amateur Radio Club. Located near Decarie and Cote St. Luc Road.

VE2RJS 449.975 MHz (-)
 Owned by the Montreal Amateur Radio Club and operated by the Cote St Luc Amateur Radio Association. Located near Decarie and Cote St. Luc Road.

The repeaters are open to all amateurs and VE2RED also offers a phone patch available to all amateurs during the day and evening.

Meetings of the Board of Directors

Meetings of the Board of Directors are open to any member to attend. Board meetings are held 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.

Club Activities Monthly Meetings

Club meetings are held at the St. Ignatius of Loyola Parish Church which is located at 4455 West Broadway (the corner of West Broadway and Terrebonne) in the N.D.G. District of Montreal. The meetings will be held in the Lounge which is the rearmost door on the south side of the building 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 fleamarket and ragchew session starts at 19:30 with the formal meeting starting at 20:00. The STM Buses 51, 162 and 105 stop nearby.

25 May 2005- Murray Epstein, VE2AUU on RAC

Radio Classes

Each year the MARC holds a basic radio course. This year's session finished in April. For more information please contact Vern Ikeda.

ARRL Field Day Station

Preparations are ongoing to run an ARRL Field Day, 25 and 26 June, station in association with the MAB. For more information or to join this year's event please contact Jim Hay or Sheldon Werner

Canada Day Station

Preparations are ongoing to run a Canada Day station during Canada Day festivities in Dorval. For more information contact Jim Hay or Vern Ikeda.

DVCAM- Ham Project

Production of a video to promote Amateur Radio is currently ongoing. For a status report on the project check:

<http://rjcam.blogspot.com>

If you have an interesting story to share on camera please email video@marc.ca or contact Jim Hay or Ron Campbell.

IN CASE OF EMERGENCY

Montreal 911 Centre 514-280-2121
 Laval 911 Centre450-662-4240
 Longueuil 911 Centre450-646-8570
 Sûreté du Québec 310-4141
 Kahnawake Peace Keepers 450-632-6505

These numbers are for emergencies ONLY

our public service events to "show the flag" for amateur radio and enjoy a good time out of doors.

At the meeting Murray Epstein, VE2AUU will bring us up to date with RAC and that should be an enjoyable meeting. Unfortunately I will not be there as I have an annual conflict on that date however I hope that you will all be there.

73 de Jim, VE2VE

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FROM THE EDITOR'S DESK

This month's meeting is with Murray Epstein, VE2AUU, RAC regional director for Quebec. Murray will speak update us about what is happening at RAC. This should be another dynamic presentation.

This year the club is looking towards running a field day station in association with the MAB. This will be a great opportunity to participate in a field day operation and gain some operating and contesting experience. So if you are interested please contact Sheldon Werner or Jim Hay to confirm your participation or for more details.

73 de Craig, VE2YGK

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CONTEST CALENDAR

More on contests including full rules can be found on the Internet. Check:

<http://www.hornucopia.com/contestcal/index.html>

This site has concise rules etc., for the current week's contests.

May 2005

VK/Trans-Tasman 80m Contest Phone	0800Z-1400Z May 21
EU PSK DX Contest	1200Z May 21 to 1200Z May 22
Portuguese Navy Day Contest PSK31	1300Z May 21 to 1300Z May 22
Manchester Mineira CW Contest	1500Z May 21 to 2400Z May 22
His Maj. King of Spain Contest CW	1800Z May 21 to 1800Z May 22
CQ WW WPX Contest CW	0000Z May 28 to 2359Z May 29
ARCI Hootowl Sprint	2000Z-2400Z May 29
MI QRP Memorial Day CW Sprint	2300Z May 29 to 0300Z May 30

June 2005

VK/Trans-Tasman 80m Contest CW	0800Z-1400Z Jun 4
IARU Region 1 Field Day CW	1500Z Jun 4 to 1459Z Jun 5
RSGB National Field Day	1500Z Jun 4 to 1500Z Jun 5
QRP TAC Sprint	1800Z-2359Z Jun 4
WorldRadio Friends' Day QSO Party	1800Z Jun 4 to 1800Z Jun 5
RSGB 80m Club Championship Data	2000Z-2130Z Jun 6
ANARTS WW RTTY Contest	0000Z Jun 11 to 2400Z Jun 12

Portugal Day Contest	0000Z-2400Z Jun 11
Asia-Pacific Sprint SSB	1100Z-1300Z Jun 11
GACW WWSA CW DX Contest	1500Z Jun 11 to 1500Z Jun 12
ARRL June VHF QSO Party	1800Z, Jun 11 to 0300Z, Jun 13
RSGB 80m Club Championship, CW	2000Z-2130Z, Jun 15
SARL Kid's Day	0700Z-0900Z, Jun 16
All Asian DX Contest CW	0000Z Jun 18 to 2400Z Jun 19
AGCW VHF/UHF Contest	1600Z-1900Z Jun 18 (144) and 1900Z-2100Z Jun 18 (432)
West Virginia QSO Party	1600Z Jun 18 to 0200Z Jun 19
Quebec QSO Party	1700Z Jun 18 to 0300Z Jun 19
Kid's Day Contest	1800Z-2400Z Jun 18
RSGB 80m Club Championship SSB	2000Z-2130Z Jun 23
Marconi Memorial HF Contest	1400Z Jun 25 to 1400Z Jun 26
ARCI Milliwatt Field Day	1800Z Jun 25 to 2100Z Jun 26
ARRL Field Day	1800Z Jun 25 to 2100Z Jun 26
His Maj. King of Spain Contest SSB	1800Z Jun 25 to 1800Z Jun 26

July 2005

RAC Canada Day Contest	0000Z-2359Z Jul 1
World Lighthouse Contest	0600Z Jul 2 to 1200Z Jul 3

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COMING EVENTS

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>

2005 Hamfests

Sunday May 29

Amherstburg ON

On Sunday, May 29 the Amherstburg Radio Club 2005 Fleamarket at the Amherstburg Recreation Centre on the corner of Victoria and Simcoe Streets, Amherstburg, Ontario

Vendors 07:30 and the Public 09:00 to 13h:30 (1:30 PM)

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 or Carmine Cristofaro, VA3TRL at va3trl@rac.ca

Saturday June 11

Fergus ON

On Saturday, June 11, the Central Ontario Fleamarket and Hamfest, at the Fergus & District Community Centre, Fergus Ontario, 10 km north of Guelph off Highway 6. See 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 \$5.00 -- Vendors - \$10.00 plus admission -- Tailgaters \$5.00 plus admission.
Talk-in: 145.210 (-) VE3ZMG, switch to 146.520 simplex in Fergus.

E-mail: info@hamfest.on.ca

<http://www.hamfest.on.ca>

Saturday June 18

Oshawa ON

On Saturday, June 18, the Whitby Hamfest, held at the Royal Canadian Legion - Branch 43, 471 Simcoe Street South, Oshawa, ON.

Vendors 07:00 Public 09:00 to 13:00. Admission - \$5.00

Tables \$10.00 + \$5.00

Admission - Talk-in - VE3WOM 147.150 (+)

Information/Reservations:

Betty Huider, 87 Thickson Road, North
Whitby, ON LIN 3P7 or Phone 905-579-1800

E-mail: ve3blh@rac.ca

<http://www.whitbyarc.org>

Saturday July 09

Milton ON

On Saturday, July 9, the Ontario Hamfest 2005 at the 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: ve3czi@rac.ca or Norm at (905)-335-8962

<http://home.cogeco.ca/~barc>

Saturday August 6

St. Romuald QC

Hamfest de ARES (St. Romuald Hamfest)

<http://www.aresqc.org>

Saturday September 03

Carp ON

Ottawa Amateur Radio Club 8th Annual Hamfest.

<http://oarc.net/fleamarket>

Saturday September 10

Ballston Spa NY

Saratoga County R.A.C.E.S - Hamfest 2005

<http://wa2umx.net>

Saturday September 24

Drummondville QC

17th Annual Hamfest Centre du Québec

17eme Annuale Hamfest Centre du Québec

<http://www.9bit.qc.ca/~ve2crd/hamfest/index.html>

Saturday October 22

Longueuil QC

Hamfest de Rive-sud de Montréal - Longueuil, Québec

Web page: <http://www.ve2clm.ca/hamfesta.htm>

73 de Vernon Erle Ikeda, VE2MBS/VE2QQ

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CAMP X ON THE AIR AGAIN!

Camp X will be on the air again on May 28 & 29, 2005! The North Shore Amateur Radio Club and the South Pickering Amateur Radio Club in conjunction with the Camp X Historical Society extend an invitation to all Radio Amateurs to join them in celebrating the contribution that Camp X made to the Allied victory in Europe. Amateur Radio operators will be telling the story of Camp X to the world by way of radio from Camp X, Intrepid Park, Whitby, ON on:

Saturday, May 28 from 10:00 to 17:00EST

Sunday, May 29 from 10:00 to 15:00EST.

This event will include displays of vintage World War II radio equipment as well as Militaria displays and Camp X artifacts.

This special event station will once again be transmitting from the original site of Camp X on the Oshawa-Whitby border using the call sign of VE3SCX. Tune up your rigs and get ready to make another exciting contact with this historical site.

<http://www.durham.igs.net/~lsolomon/nsarc/campx.htm>

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NEWS FROM RAC

INDUSTRY CANADA UPDATES ACCREDITED

EXAMINERS LIST

Industry Canada has been working hard at validating and updating the Accredited Examiners List. While the work is ongoing, the latest list is now available on the RAC web site. It has been sorted by province, city, and last name.

Accredited Examiners should report errors to the Amateur Radio Service Centre by e-mail at Spectrum.Amateur@ic.gc.ca (Thanks to Jim Dean, VE3IQ)

From:

<http://www.rac.ca/news/canada.htm#Historic%20Special>

The list is available at:

<http://www.rac.ca/regulatory/examiner.htm>

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ANNOUNCEMENT OF THE FIRST QSOs VIA THE MOON ON 47 GHz

The team of RW3BP, AD6FP, W5LUA, and VE4MA would like to announce that the first 47 GHz contacts via the moon have been completed. As you may recall, RW3BP heard the first lunar echoes on 47 GHz back in August of 2004. At that time he was heard by AD6FP, W5LUA, VE4MA and VE7CLD. Since the receipt of the first 47 GHz echoes via the moon, numerous tests between RW3BP and AD6FP led to improvements by RW3BP allowing him to copy calls from the lower power signal of AD6FP in January of 2005.

As of April 16, 2005 the team of AD6FP, W5LUA and VE4MA have each completed a CW QSO via the moon with RW3BP.

The station at RW3BP consists of a 2.4M offset fed dish and 100 plus watts while the station at AD6FP consists of a 1.8M offset fed dish and 30 watts. At W5LUA and VE4MA 2.4M offset fed dishes and 30 watt TWTs were used. Noise figures of all stations are in the 3.5 to 4.7 dB range.

Since the doppler shift can be as much as 100 + kHz at 47 GHz, one must continuously adjust the receive frequency to keep the station centred in the passband. Precision frequency control was obtained by using GPS controlled, Rubidium locked, or TV sync controlled phase locked local oscillators. Various techniques were in use to keep the Doppler shifted frequency in the passband of the receivers.

Thanks to RW3BP, AD6FP, W5LUA and VE4MA

From:

[http://www.rac.ca/news/
canada.htm#Historic%20Special](http://www.rac.ca/news/canada.htm#Historic%20Special)

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MARC REPEATER NEWS

Some of you may have heard that VE2RED will be moving. As you may know there was a change in ownership of the repeater site where VE2RED has been located since the 1970s. Owing to work which will be done to the building we have to move the equipment for VE2RED and VE2RJS by May 20. On or after May 14 we will be taking VE2RED and VE2RJS off the air. It is our intention that both repeaters will return to the air from new locations very quickly.

Once the repeaters are back on the air from temporary locations we will then see what we can do to find a good permanent home should we not be able to move back to the site we've had.

The club is committed to keeping VERED on the air and the Cote St. Luc Amateur Radio Association will be continuing to keep VE2RJS up and running.

(Editors Note: See next story just received before the Marcogram goes to press.)

73 de Jim, VE2VE

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REPEATER UPDATE

Sunday, May 15, 2005

This afternoon, VE2RED and VE2RJS went off the air from the Chateau Bonavista Apartments. VE2RED and VE2RJS will be returning to the air at a temporary location as soon as some adjustments are made to the repeaters.

The Club would like to thank the following people for volunteering helping move the repeater from the Chateau Bonavista to it's temporary storage location - Andy Beard, VE2DWT; Raymond Faguy, VE2SJA; Shawn Englehart; VA3STE; James Hay, VE2VE; James Keep, VE2KHC; Paul MacDougall, VA2YQ and Bob Paknys, VE2BJP.

For updates please check:

<http://www.marc.ca/repeater.html>.

73 de Montreal Amateur Radio Club

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HARMONY HORSE TRIALS

August the 6th is the all to important Harmony Horse Trials in Ste-Justine de Newton. This is a cross country equestrian event where ham communication is at it's best and provides a very good service for the competitors. If you are interested please contact Ken at ve2exc@rac.ca

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ST. LAZARE CYCLO-TOUR

Ken Magee, VE2EXC still needs a few volunteers

to help with communications for the St. Lazare Cyclo-Tour on Sunday, May 29, 2005.

If you are available please contact Ken at ve2exc@rac.ca

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JAY CHALLENGE

The preparations for the Jay Challenge is in full swing and I am looking for hams that might enjoy spending a lovely weekend in the Vermont countryside. This is a cross country 3 day event. The event will begin on Friday the 29th of July and ends on July 31st. Last year we covered this event and we had a great time.

The three days event happens as follows:

On Friday is the "Jay Crossover" a 25 miles crossing of lake Memphremagog from Magog Que. to Newport Vermont;

On Saturday is the "Jay Mountain Marathon" a 28 miles off road marathon up Jay Peak;

On Sunday is the "Jay Mountain Bike Race" a 64 miles race up and around Jay including a total climb of 10,000 feet.

The lodging and food is supplied. If you want more info on the event, contact me, Ray, at ve2sja@rac.ca or visit the website at

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

73 de Raymond, VE2SJA

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MAB SPRING STATION WORK

Jim Hay is looking for volunteers to perform some work on the antenna of the Montreal Association for the Blind radio station. For the moment the required work will be done in two stages , first to remove an Earl Paris' existing antenna, and second to replace the existing MAB antenna. We are planning to do the first stage on Saturday May 28. Please contact Jim Hay if you can help.

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CLASSIFIED

DEADLINE for classified ads is the second Wednesday before the monthly meeting.

FOR SALE: Yaesu FT-847 hf - vhf -uhf Transceiver with Heil HM-10 Microphone, Astron SS-25M Power supply in excellent condition \$1900.00

Also - M2 2mcp22 - M2 435cp42 satellite antennas, G5400B az/el Rotor, Delhi 48 ft self supporting tower, \$1500

Please contact Larry, VE2ME, 733-4110 or 344-5108 or by email: mail4larry2000@yahoo.ca

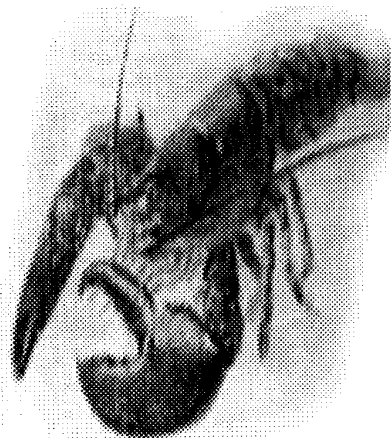
WANTED: Earl Paris, VE2ESP is looking for a manual to borrow for a Cushcraft ATB-34 Tribander. Contact Earl at 514-489-8201 local 1015.

FOR SALE:

- 1) 136 KHZ Receive Loop, FREE for PICK-UP
- 2) COMPACT RECEIVE / TRANSMIT LOOP, NEEDS VARIABLE CAPACITOR, READY TO INSTALL.
- 3) COPY OF MFJ COMPACT LOOP FREE FOR PICK UP
- 4) 2 SETS OF TV ANTENNA'S FREE FOR PICK UP
- 5) BUTTERNUT HF6V ANTENNA, READY TO INSTALL \$ 125.00
- 6) CUSHCRAFT AB-34, 4 ELEMENT BEAM \$ 100.00

Contact: jgrow@sympatico.ca

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NORTH EASTERN QRP FORUM

JULY 8TH. TO JULY 10TH, 2005

Thomas Point Beach Camp Ground, Brunswick, Maine

www.thomaspointbeach.com

Lobstercon 2005

Planned Activities

Friday Afternoon: "CandlePin Bowling" Rex's QRP Bowling
Friday Evening: No-Host Dinner, Seafood Restaurant
Saturday Morning: Walk-a-bout, meet your fellow QRP'ers.
Saturday Lunch: Sandwich & BBQ Buffet. Hosted by QRPme
Saturday Afternoon: QRP Swap-fest, Giant Kite-Flying, Operating
Saturday Dinner: Lobster Feast, Hosted by QRPme
Saturday Evening: Prize raffles, Building Contest, Judging, Campfire, Chatting and Music
Sunday Morning: Breakfast at May's Café.
Sunday Mid-morning: More kite flying, Operating, and departure
Monday: Many brave souls will only depart on Monday, Giving more time to operate, chat, etc.

Planned, but not yet scheduled:

A trip to a Downeast silver mine for collection of galena crystals to be used to 'convert' Super Fox (hole) radios into TRUE crystal radios

Contra dancing (kon'tra'dans) *v.* wicked fun dancing style
see: <http://www.sbcds.org/contradance/whatis/#Def0>

Known QRP'ers Attending:

Doug Hendricks, Norcal
Dave Benson, Small Wonder Labs
Steve Weber, KD1JV Kit Designer
Jim Kortge, 2N40 Fame, 2N30
Rich Arland, QRP Writer, QST
Jim Fitton, QRP Gentleman
Jim McElroy, QRP Gentleman
Brian Riley, NVQS
Dennis Marandos, New England QRP Club

Lobstercon Kit

Pre-paid attendees for Lobstercon, will receive a free kit. Super Fox (hole) Radio Kit.

COSTS: \$ 35.00 Per Person, USD, which includes, Candlepin bowling, Weekend camping fees, Saturday buffet lunch and Lobster supper.

CONTACT INFORMATION:

Rex Harper, W1REX
P.O. Box 160
Limerick, Maine
04048, USA
Tel: 207-838-5548
w1rex@megalink.net

John Grow, VE2EQL
100A Walnut Street
Door 15, Suite 135
Champlain, New York
12919, USA
Tel: 450-672-1545
jgrow@sympatico.ca

DOOR PRIZES: Small Wonder Labs, DSW II Transceiver & Hi-Mite 20 M transceiver
Batteries for QRP, Many more



RADIO HF
C.P./BOX 67063-Lemoyne
St. Lambert, Quebec
J4R 2T8

Sheldon Harvey, Prop.
VE2SHW

TELEPHONE & FAX: 450-671-3773

SANS-FRAIS/TOLL FREE:
1-800-463-3773

E-MAIL/COURRIEL:
info@radiohf.ca

WEB:
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, WIL-
SON, 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 AN-
TENNA, 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, OPTOELECTRON-
ICS, 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