

# marcOgram

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



Volume 50, Number 7

April 2005

## “MARC ANNUAL SHOW AND TELL SHOW MEETING”

Wednesday 27 April 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 the Annual Show and Tell meeting. This is always an interesting and informative meeting. One never knows for sure what will show up, whether it be home brew or an antique classic or a modern marvel and what discussions will follow. Be sure to come out and bring along something to show. This is always an entertaining and informing evening. So mark this date on your calendar to attend.

### A WORD FROM THE PRESIDENT

Hello,

Spring is definitely here and the hamfest season is well underway. I would like to thank everyone who contributed to making this year's flea market successful. While attendance was down there was still a happy procession of folks carrying new acquisitions to their cars and everyone seem to have had a good time.

Since Murray Epstein, VE2AUU will be speaking to the club about RAC in May the annual

show & tell will be this month. I trust that you have all have your prized possessions and projects ready.

As I have been mentioning we will need some help with the work at the MAB. We really do need to get the antennas working properly before the summer if at all possible to encourage clients to use the facility. As always we are also looking for volunteers for the Cyclo-Tour, Harmony Horse Trials and also the Jay Challenge not to mention Canada Day in Dorval.

73 de Jim, VE2VE

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The MarcOgram is published nine times 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:  
 Craig Brander, VE2YGK 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

President: James R. Hay, VE2VE.....514-697-7205  
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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.

27 Apr 2005 - Show and Tell - Homebrew  
 25 May 2005- Murray Epstein, VE2AUU on RAC

### Radio Classes

Each year the MARC holds a basic radio course. This year's course has recently concluded. The course was run in association with the Concordia University Amateur Radio Club and was held at the Loyola campus. For more information please contact Vern Ikeda.

### Canada Day Station

Early preparations are ongoing to run a Canada Day station during the local Canada festivities. For more information contact Jim Hay or Vern Ikeda.

## IN CASE OF EMERGENCY

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

These numbers are for emergencies ONLY

## FROM THE EDITOR'S DESK

This month's meeting is the Annual Show and Tell presentation. Why not bring along something of your own that you could show and perhaps demonstrate. This is always an interesting evening so be sure and come out and catch up with what others have been doing lately.

Welcome to the new hams who recently passed the basic course. Also please check out the article on the DV-CAM Ham project on page 6. This is a very worthwhile endeavour, and the project team would look forward to any contributions that would help promote the hobby.

73 de Craig, VE2Y GK

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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.

### April 2005

SP DX RTTY Contest	1200Z Apr 23 to 1200Z Apr 24
Helvetia Contest	1300Z Apr 23 to 1300Z Apr 24
Florida QSO Party	1600Z Apr 23 to 0159Z Apr 24 and 1200Z-2159Z Apr 24
EUCW/FISTS QRS Party	0001Z Apr 24 to 2359Z Apr 30
SBMS 2 GHz and Up WW Club Contest	0600 local Apr 30 to 2400 local May 1

### May 2005

AGCW QRP/QRP Party	1300Z-1900Z May 1
RSGB 80m Club Championship SSB (May)	2000Z-2130Z May 2
MARAC County Hunter Contest CW	0000Z May 7 to 2400Z May 8
Nevada QSO Party	0000Z May 7 to 0600Z May 8
US IPARC Annual Contest CW	0000Z-2400Z May 7
10-10 Int. Spring Contest CW	0001Z May 7 to 2400Z May 8
Microwave Spring Sprint	0600-1300 local May 7
Oregon QSO Party	1400Z May 7 to 0200Z May 8
Indiana QSO Party	1600Z May 7 to 0400Z May 8
ARI International DX Contest	2000Z May 7 to 1959Z May 8
New England QSO Party	2000Z May 7 to 0500Z May 8 and 1300Z-2400Z May 8
US IPARC Annual Contest SSB	0000Z-2400Z May 8
RSGB 80m Club Championship Data (May)	2000Z-2130Z May 11
Portuguese Navy Day Contest CW/SSB	0800Z May 14 to 2300Z May 15
CQ-M International DX Contest	1200Z May 14 to 1200Z May 15
VOLTA WW RTTY Contest	1200Z May 14 to 1200Z May 15
Mid-Atlantic QSO Party	1600Z May 14 to 0400Z May 15 and 1100Z-2400Z May 15
FISTS Spring Sprint	1700Z-2100Z May 14

50 MHz Spring Sprint	2300Z May 14 to 0300Z May 15
RSGB 80m Club Championship CW (May)	2000Z-2130Z May 19
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

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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

### Saturday, April 23

The Durham Region Hamfest at the Iroquois Park Recreation Centre, Victoria Street corner of Henry Street, Whitby, Ontario.

Vendors 07:30 - Public 09:00 to 13:00

Admission 6.00\$ Tables 25.00\$/50.00\$ - Hydro \$5.00 extra

Talk-in: 147.375 (+) VE3SPA

Information/Reservations: Peter Henry, VA3PWH at

905-436-9236 or e-mail at: [va3pwh@rac.ca](mailto:va3pwh@rac.ca)

Reservations by mail only.

<http://drhamfest.tripod.com>

### Fri May 6 and Sat May 7

Hopkinton NH  
Hosstraders 2005 at the Hopkinton State Fairgrounds, Warner Street, Hopkinton, NH

Talk-in W1CPL - 146.895 (-) 100Hz CTCSS

Gates are open at 9 AM on Friday through the night till the end of event on Saturday.

Cost: Friday 09:00 to 15:00 (3 PM) - \$10 per person and \$10 per sellers space. After 3 PM on Friday, \$5 per person and \$10 per sellers space.

Note: There is a \$10.00 fee for camping on Friday night.

Information: Joe Demaso, K1RQG att: k1rqg@aol.com  
<http://www.qsl.net/k1rqg/>

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

**Saturday May 14 Smiths Fall ON**

The 21th Annual Smiths Falls Amateur Radio Fleamarket at the Smiths Falls Youth Arena (behind 150 Elmsly Street North, 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 contact the club at Rideau Lakes Amateur Radio Club Inc., PO Box 1256, Smiths Falls, Ontario, K7A 5C7

E-mail: irmajohn@perth.igs.net

<http://www.falls.igs.net/~rlarc>

**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

**Saturday, May 14 Etobicoke (Toronto) ON**

Skyward Annual Spring Hamfest And Fleamarket.

<http://webhome.idirect.com/~jproc/sarc>

**Sunday, May 29 Amherstburg ON**

Amherstburg Radio Club 2005 Fleamarket

Information and Reservations: Carey Collard, VE3CFQ at 519-736-7694

or Carmine Cristofaro, VA3TRL at va3trl@rac.ca

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 Swapfest, Gaint 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

**Saturday June 11 Fergus ON**

Central Ontario Fleamarket and Hamfest.

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

**Saturday June 18 NEW DATE Oshawa ON**

Whitby Hamfest

<http://www.whitbyarc.org/Activities.htm>

**Saturday, September 03 Carp ON**

Ottawa Amateur Radio Club 8th Annual Hamfest.

<http://oarc.net/fleamarket>

73 de Vernon Erle Ikeda, VE2MBS/VE2QQ

© 2004 - Vernon Erle Ikeda

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

Known QRP'ers attending include:

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

Pre-paid attendees for Lobstercon, will receive a free

Lobstercon free kit. Super Fox(hole) Radio Kit.

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**LOBSTERCON 2005**

**NORTH EASTERN QRP FORUM**

For those interested the 2005 Lobstercon Convention will be held from July 8th to July 10th 2005 at the Thomas Point Beach Camp Ground, Brunswick, Maine.

**RAC BULLETINS**

**RAC BULLETIN 05-004E**  
**CF3VEDAY SPECIAL EVENT STATION**

Industry Canada has issued an authorization to Bob Cooke, VE3BDB, to operate May 7 to 14 inclusive using the special event call sign CF3VEDAY.

The authorization is to mark the opening of the new Canadian War Museum on May 8, 2005, a date that coincides with the 60th anniversary of VE-DAY, which ended World War Two in Europe. The special call sign is historic in that this is the first time that an Amateur Radio call sign having a five-letter suffix has been issued in Canada.

VE3BDB and other members of The Wireless Set No. 19 Group will alternate modern equipment with vintage WW II era military radios during the seven-day operation.

Full information can be viewed on-line at:

<http://www.qsl.net/cf3veday>

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**RAC BULLETIN 05-005E**  
**SPECIAL PREFIXES AUTHORIZED TO**  
**CELEBRATE OPENING OF THE NEW**  
**CANADIAN WAR MUSEUM AND VE DAY+60**  
**SPECIAL EVENT STATION**

At the request of Radio Amateurs of Canada, Industry Canada has authorized all Canadian radio amateurs to use special event prefixes for the month of May, 2005, to mark the opening of the new Canadian War Museum in Ottawa on 8 May, 2005 coincident with the 60th Anniversary of VE Day.

The official opening of the new Canadian War Museum in Ottawa, the national capital of Canada, on May 8, 2005, coincides with the 60th anniversary of Victory in Europe Day -- VE Day -- which, on May 8, 1945, officially ended the Second World War in Europe.

The year 2005 has been declared The Year of the Veteran by the Canadian government in recognition and commemoration of the determination, service and sacrifice of Canada's WW II veterans.

Canadian radio amateurs are authorized to use the following special event prefixes during the period 1 May to

31 May, 2005 inclusive:

- \* CF for VA stations
- \* CG for VE stations
- \* CH for VO stations
- \* CI0 for VY0 stations
- \* CI1 for VY1 stations
- \* CI2 for VY2 stations

Debbie Norman VA3RGM  
General Manager  
Radio Amateurs of Canada Inc.  
720 Belfast Rd, Suite 217  
Ottawa, ON K1G 0Z5  
1-877-273-8304

<http://www.rac.ca>

73 de Vernon, VE2MBS/VE2QQ

<http://www.rac.ca/news/canada.htm>

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**NEW HAMS**

I am very happy to report that we now have four new Amateur radio operators. Guy Foster, John Friedrich, Derek Gaucher and Juan Osorio passed their Amateur Radio - Basic Qualification exam with flying colours.

The four new Amateur radio operators also now have callsigns:

- \* Guy Foster, VE2HVZ
- \* John Friedrich, VE2TTZ
- \* Derek Gaucher, VA2EAE
- \* Juan Osorio, VE2ITZ

Many thanks to James Hay, VE2VE and Steven Faguy, VA2SMF for helping me teach this year's course. As well, many thanks to Sheldon Harvey of Radio HF for arranging to get the Study Guides to the club in timely manner.

73 and hope to hear you on the air!  
Vernon, VE2QQ/VE2MBS

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## THE DVCAM-HAM PROJECT

As some of you may be aware, the club is currently supporting one of our members, Ron Campbell, in his effort to produce a video to promote the activities of amateur radio operators.

Ron and his team filmed our involvement in the St Patrick's Day parade, and will film the Fleamarket (last April 9th) and the Jay Challenge at the end of July.

He is looking to interview a couple of you who can tell stories or anecdotes relating, but not limited, to the following themes:

**Public service / emergency communication** - How amateur radio operators work together with authorities and relief agencies to provide communications in times of need. For example St Patrick's Day Parade, stories about the recent tsunami, Nicobar islands, etc.

**Technical or "Gee whiz" factor** - one of the attractions of amateur radio operation is the equipment and "gadgets" that are used. The equipment can be purchased or built from scratch for those inclined to tinker. Interesting to the technically inclined.

**Camaraderie** - like any special interest, amateur radio has clubs where people meet, and exchange experiences, knowledge and have fun.

**Radio skills** - the technology needs to be able to function in a variety of contexts and conditions (weather, atmospheric). To keep these skills sharp, amateur radio operators stage events such as the "Fox" hunt and triangulation exercises.

**Chance conversations** -The international scope of amateur radio means that you can wind up talking to anyone: kings, astronauts, people in remote or isolated places, etc.

If anyone has an interesting story that they would like to relate on camera, please send an email to [video@marc.ca](mailto:video@marc.ca) along with a description of your story.

For information regarding the status/activities of the DVCAM-HAM production, go to site:

<http://rjcam.blogspot.com/>

We attempt to keep it current. Thanks for your help,

73 de James R. Hay, VE2VE &  
Ron Campbell, VA2RJC

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## INTERNATIONAL LIGHTHOUSE/LIGHTSHIP WEEKEND

The 2004 International Lighthouse/Lightship Weekend took place over the weekend 21/22 August 2004 when over 380 lighthouse stations were established in 52 countries. A full list of stations with their details can be found at

[http://illw.net/2004\\_list.htm](http://illw.net/2004_list.htm)

This year the event will run from 0001 UTC 20 August until 2359 UTC 21 August 2005.

Guidelines for the International Lighthouse/Lightship Weekend 2005 can be found at

<http://illw.net/index.html>

So come and join the fun and let us have over 400 stations at lighthouses or lightships.

73 de Mike, GM4SUC  
[gm4suc@compuserve.com](mailto:gm4suc@compuserve.com)

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## MARC HAMFEST PRIZE WINNERS

Here is the list of prizes and winners:

Radio HF gift certificates:

VE2JF Lavertu Emeril

VE2GLQ Carl Galipeau

VE2WHH Wayne Houlzet

2004-2005 ARRL Repeater Directory:

VE2WRE Bob Watson

RAQI membership:

VE2SHW Sheldon Harvey

The grand prize this year was the 2005 ARRL Handbook and Antenna Book along with the RSGB Antenna Hints book. The winner was VE2QXP, Stan Patacic.

73 de Jim, VE2VE

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## MARC HAMFEST VOLUNTEERS

A big thanks to all off you who came out to support the hamfest. and thanks to volunteers who helped out:

Sheldon Werner, VA2SH



David Melanson, VE2MPD  
Steven Faguy, VA2SMF  
Raymond Faguy, VE2SJA  
Normand Pitre, VE3NHK  
Fred Hart, VE2LSQ  
Pierre Provencal, VE2PPF  
Don Devey, VA2DWD  
David Belyea, VA2AEQ  
Joseph Glover  
Eric Marin  
Howard Ikeda

The lodging and food is supplied. If you want more info on the event, contact me, Ray, at [ve2sja@rac.ca](mailto: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. Please contact Jim as we would like to complete this work as early as possible in the spring.

Thanks to Radio HF and RAQI for the door prizes

73 from the Hamfest Organizing committee  
James Hay, VE2VE - Vernon Ikeda, VE2QQ

73 de Jim, VE2VE

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### **ST. LAZARE CYCLO-TOUR**

Ken Magee, VE2EXC is looking for volunteers to help with communications for the St. Lazare Cyclo-Tour on Sunday, May 29, 2005.

If you are interested in helping, Ken can be reached at [ve2exc@rac.ca](mailto: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.

### **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](mailto: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.

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**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**

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**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