

marcOgram

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



Volume 48, Number 4

January 2003

“DON DASHNEY ON ANTENNAS AND RADIO RELATED TOPICS”

Wednesday 29 January 2003

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

Donald R. Dashney, VE3RM will be giving a talk on antennas and radio related topics at the meeting on January 29, 2003 at the St Ignatius of Loyola Parish Church.

Please note: From now on, meetings will be held in the smaller lounge room at the back of the church. You may enter via the south side of the building via the door near the rear of the church building. Do not enter the church via the door marked "Parish Hall" as we will not be using that door this month.

A WORD FROM THE PRESIDENT

Hello,

Well, as I write this its getting cold enough to freeze the elements right off a yagi. Winter is certainly here and I hope that you are able to enjoy it and avoid the various bugs that are going around.

We are fortunate to have received an offer from John Grow and Cigentec who have found themselves with an overabundance of batteries. All else being equal you should find details of this offer

to the members in the pages of this issue. John will also tell us about it at the meeting.

The meeting promises to be interesting. Don's talks are always interesting and I have no doubt he'll have many interesting things to say.

While I am on the meetings, for those in need of parking there are two parking lots on the Loyola Campus, both accessible off West Broadway which offer parking for \$3.25. If you can't find anything on the nearby streets this might be helpful. One lot is

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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Directors

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Dave Melanson, VE2MPD

Club Call Sign: VE2ARC

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

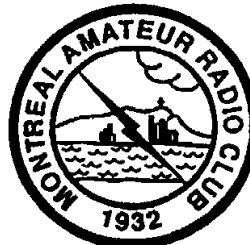
29 January 2003 - Don Dashney and Antennas
26 February 2003 - TBA
26 March 2003 - TBA
30 April 2003 - TBA
28 May 2003 - TBA

Radio Classes

A basic level course has recently started in association with the Concordia University ARC. Five students are participating and progress reports are available from Jim Hay or Vern Ikeda.

MARC Hamfest

The club will be holding its annual hamfest Saturday morning, 12 April 2003 at the Lasalle Branch of the Royal Canadian Legion Branch. Please contact Jim Hay for more information or to participate in the organization and running of this event. Further details are on page 4.



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

behind the church and the other is at the end of the same driveway.

I look forward to seeing you all at the meeting.

73 de Jim, VE2VE

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FROM THE EDITOR'S DESK

Hope you all had wonderful holidays and are enjoying the New Year. With the recent cold temperatures it seems we are getting an old fashioned winter, at least for a while. With the start of the New Year brings the start of another radio class. Jim and Vern are guiding this year's students through the material. Vern reports we have 5 students participating in the 2003 course. Welcome to Amateur Radio and best of luck to Sebastien Auclair, Pierre Gaudet, Brad Hamer, Dougal Macdonald and Roland Theriault.

Those of you who were able to attend the last meeting had the opportunity hear Ian Rosen, VA2IR, explain and demonstrate IRLP, (Internet Radio Linking Project). This was an excellent meeting and thanks to Ian for taking the time to make a presentation to the club. For those looking to refresh their memories and or looking for some background material below are few links from the Internet:

<http://www.irlp.net>

or

<http://www.eham.net/newham/irlp>

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.

January 2003

CQ 160-Meter Contest CW	2200Z Jan 24 - 1600Z Jan 26
REF Contest CW	0600Z Jan 25 - 1800Z Jan 26
BARTG RTTY Sprint	1200Z Jan 25 - 1200Z Jan 26
UBA DX Contest SSB	1300Z Jan 25 - 1300Z Jan 26

February 2003

10-10 Inter.Winter ContestSSB0001Z	Feb 1 - 2400Z Feb 2
Minnesota QSO Party	1400Z - 2359Z Feb 1
Delaware QSO Party	1700Z Feb 1 - 0500Z Feb 2
	and 1300Z Feb 2 - 0100Z Feb 3
Mexico RTTY Int'l Contest	1800Z Feb 1- 2400Z Feb 2
North American Sprint Phone	0000Z - 0400Z Feb 2
Six Club 2nd Winter Contest	2300Z Feb 7-0300Z Feb 10
CQ/RJ WW RTTY WPX Contest	0000Z Feb 8 - 2400Z Feb 9
Asia-Pacific Sprint CW	1100Z - 1300Z Feb 8
YL-OM Contest CW	1400Z Feb 8 - 0200Z Feb 10
RSGB 1.8 MHz Contest CW	2100Z Feb 8 - 0100Z Feb 9
North American Sprint CW	0000Z - 0400Z Feb 9
QRP ARCI Winter Fireside SSB	Sprint2000Z - 2400Z Feb 9
ARRL School Club Roundup	1300Z Feb 10 - 0100Z Feb 15
ARRL Inter. DX Contest CW	0000Z Feb 15 - 2400Z Feb 16
YL-OM Contest SSB	1400Z Feb 15 - 0200Z Feb 17
CQ 160-Meter Contest SSB	0000Z Feb 22 - 2359Z Feb 23
North American QSO Party RTTY	1800Z Feb 22-0600Z Feb 23
Russian PSK WW Contest	0000Z - 2400Z Feb 23
High Speed Club CW Contest	0900Z - 1100Z Feb 23
	and 1500Z - 1700Z Feb 23
North Carolina QSO Party	1700Z Feb 23 - 0300Z Feb 24

March 2003

ARRL Inter. DX Contest Phone	0000Z Mar 1-2400Z Mar 2
SARL Field Day Contest	1000Z Mar 8 - 1000Z Mar 9
RSGB Commonwealth Contest CW	1000Z Mar 8-1000Z Mar 9
North American Sprint RTTY	0000Z - 0400Z Mar 9
Wisconsin QSO Party	1800Z Mar 9 - 0100Z Mar 10
10-10 Mobile Contest	0000Z - 2359Z Mar 15
BARTG Spring RTTY Contest	0200Z Mar 15 - 0200Z Mar 17
SARL VHF/UHF Contest	1000Z Mar 15 - 1000Z Mar 16
Russian DX Contest	1200Z Mar 15 - 1200Z Mar 16
Virginia QSO Party	1800Z Mar 15 - 0200Z Mar 17
Oklahoma QSO Party	2300Z Mar 21 - 2300Z Mar 23
CLARA and Family HF Contest	1700Z Mar 22-1700Z Mar 23
Spring QRP Homebrewer Sprint	0000Z - 0400Z Mar 24
CQ WW WPX Contest SSB	0000Z Mar 29 - 2400Z Mar 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>

2003 Hamfests

FEB 01 St. Catharines ON
Saturday, February 1 - The Niagara Peninsula Amateur Radio Club Big Event 25 - St. Catharines, Ontario
Location: Canadian Auto Workers Hall, 125 Bunting Road, St. Catharines, ON. Vendors 07h00 - Public 09h00 to 13h00

Admission \$6.00, Tables \$20.00 (includes 1 admission)

Talk-in: VE3NRS 147.240 (+)

For tables please call Dave at 905-262-5588/ve3bbn@rac.ca and for all other information call Ron at:

905-688-8137/ve3ndi@rac.ca

[Web Page: http://www.qsl.net/ve3vm](http://www.qsl.net/ve3vm)

March 01

Burlington ON

Saturday, March 1, Burlington Spring Fleamarket - Burlington, Ontario. Location: Royal Canadian Legion - 828 Legion Road, Burlington, Ontario

Vendors 07h00, Public 09h00. Admission \$6.00 Tables \$10.00. Talk-in VE3RSB 147.210 (+)

Information and Table reservations: Chuck Wilson, VE3IUO at 905-333-5785. Mail reservations and cheques to Chuck Wilson at 4113 Marcia Place, Burlington, Ontario L7L 5B6

E-Mail: va3iou@rac.ca

[Web page: http://barc.burlington.on.ca](http://barc.burlington.on.ca)

March 01

Montréal QC

On Saturday, March 1 the UMS Annual Fleamarket - Montréal, Quebec at Location: Centre Roussin, 12125 Notre Dame Est (East), Montréal, QC

Time: Vendors 07h00 am - Public 09h00

Admission: 5.00\$ Tables 10.00\$

Talk-in VE2RXW 146.700 (-)

Reservations/Information: 514-521-7765

E-mail: hamfest@ve2ums.ca

[Web page: http://www.ve2ums.ca](http://www.ve2ums.ca)

March 22

Brampton ON

Saturday, March 22, HAMEX 2003 - Brampton, Ontario
Location: Brampton Fall Fairgrounds, Heart Lake Road corner of Old School Road, Brampton, Ontario

Time: Vendors at - Public at 09h00 to 13h00

Talk-in VE3PRC 146.880 (-)

or VE3MIS 145.430 (-) 103.5 Hz PL Tone.

Information: ham-ex@sympatico.ca

[Web page:http://www.peelarc.org](http://www.peelarc.org)

March 29

Laval QC

On Saturday March 29, the Hamfest Laval-Laurentides 2003, at (**New Location**) Polyvalente Georges Vanier, 2995 boul. Lévesque Est, Saint Vincent de Paul (Laval).

Vendors: T.B.A. Public 09h00 Admission: 5.00\$ per person. Tables: 10.00\$

Talk-in: VE2REL 147.315 Mhz (+)

Information and reservations: (514)-708-8033

e-mail: hamfest@ve2crl.qc.ca

[Web page: http://www.ve2crl.qc.ca](http://www.ve2crl.qc.ca)

April 12

LaSalle (Montreal) QC

Saturday, April 12 - **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 07h30 Public 08h30 to 12h00. Admission - 4.00\$

Talk-in: VE2RED 147.270 (+)

Information: James R. Hay, VE2VE - (514)-697-7205

E-mail: ve2arc@rac.ca

[Web page: http://www.marc.qc.ca/fest.html](http://www.marc.qc.ca/fest.html)

April 12

Oshawa ON

Saturday, April 12 - Whitby Hamfest - Oshawa, Ontario

Location: Jubilee Pavillion, 55 Lake View Park, Oshawa, ON

Vendors 07h00 Public 09h00 to 13h00. Admission - \$5.00

Tables \$10.00. Talk-in - VE3WOM 147.150 (+) or

VE3RPT 147.060 (+). Information: Betty Huider, 87

Thickson Road, North Whitby, ON LIN 3P7 or Phone 905-579-1800 E-mail: ve3blh@rac.ca

April 19

Iroquois ON

Saturday, April 19 - Iroquois A.R.C. 8th Annual Flea Market - Iroquois, Ontario. Location: Iroquois Civic Centre

Vendors: 08h00 Public: 09h00 - 12h00 Admission - Free Tables 10.00\$

Talk-in VE3IRO 145.290 (-) Table reservations/

Information: Gord, VE3UGW (613)-657-3640 or

E-mail ve3ugw@recorder.ca

[Web Site: http://cc.recorder.ca/~ve3ugw](http://cc.recorder.ca/~ve3ugw)

April 26

Whitby ON

Saturday, April 26 - Durham Region Hamfest - Whitby, Ontario. Location: Iroquois Park Recreation Centre - Victoria Street corner of Henry Street

Vendors 07h30 - Public 09h00 to 13h00 Admission 6.00\$

Tables 25.00\$ - includes 1 admission. Talk-in: 147.375

(+) VE3SPA Information/Reservations: Peter Henry,

VA3PWH at 905-436-9236 or e-mail at:

va3pwh@idirect.com

Reservations by mail only. Postmark must be before April 5, 2003.

[Web Site: http://drhamfest.tripod.com](http://drhamfest.tripod.com)

A reminder - if you have web access you can also check the list of hamfests on the club's web page at:

<http://www.marc.qc.ca/festcal.html>

73 de Vernon Erle Ikeda, VE2MBS
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PUBLIC SERVICE
CANADIAN SKI MARATHON 2003
CALL FOR RADIO VOLUNTEERS!
FEBRUARY 7 TO FEBRUARY 9, 2003

It's this time again, the hills are calling! Think you have a good set-up for emergency communications? Think you are ready for minus 20 degrees C? How about volunteering to support the CSM 2003 radio communications.

"SAFETY1, This is net control VE3RC, Relaying message that injured skier has been delivered to Hawkesbury Hospital." Some of you in the Montréal - Ottawa corridor might have heard these tactical call signs and messages on 2 metres in early February last year. Over 40 Hams from the Ottawa-Montreal area participated as volunteers in this annual event which takes close to 2000 cross-country skiers from Lachute, Qué to Gatineau near Ottawa, or at least part of the way. The marathon is always a success, thanks in part to our communication services, organized mainly by the Ottawa Amateur Radio Club (OARC) and the Ottawa Valley Mobile Radio Club (OVMRC). This exciting event requires the operation of a controlled network from Friday noon to Sunday evening to handle calls for administration, trail and food management, safety, first aid and military interface.

As in the past, amateurs were posted at checkpoints, with administration officers and at key locations to relay messages in a controlled way. The information passed along was quite varied:

1. routine traffic, such as number of skiers in and out of checkpoints, co-ordination of trail management,
2. co-ordination of re-supply of food and water at checkpoints,
3. enquiries about shuttle schedules,
4. tracking down skiers that did not check in properly at verification points,
5. emergency traffic to co-ordinate the evacuation of

injured skiers

6. general co-ordination of the marathon, opening and closing of sections

7. weather forecasts and current conditions

The key aspect is definitively the safety of all participants. There is usually little time for chatting and all operators put in a tremendous effort in keeping this network as professional as possible, even at times were the communication was less than perfect.

The controlled net will be on a repeater installed for the purpose of the marathon and is complemented by direct contacts inside the trail sections (so unless you are a sky patrol, you absolutely need 2 mobile radios and antennas). Operators have to expect to set up their equipment at road crossings and other strange locations, including possibly beams, masts, amplifiers and sometimes serious battery systems to provide communications in situations much like field day, but at sub-zero temperatures.

To find out about the marathon, check the full CSM web page is at

<http://www.csm-mcs.com/>.

By the way, they will not answer any radio questions. They are too busy with skiers. Read on.

The CSM radio operators site is again:

<http://cpu1894.adsl.bellglobal.com/csm>

and is set-up by Richard Hagemeyer, VE3UNW, who is the Director of Radio Operations for the marathon. Please review the information on the website and email Richard at richard@cpu1894.adsl.bellglobal.com with any corrections. There is a comprehensive guide on the page of what you need for the event.

On that page, the first link is to the contact database. Please review your record and make corrections yourself. Some fields have rules such as the province is only two characters. Please think of what "rule" may apply if you get an error when you modify your record.

The interested volunteers should fill in the volunteer info page on their own and check the page regularly for their assignment.

Still not sure what to expect? For one, I strongly recommend that you go as a 2 partner team, and weather commanding, warm clothes.

Richard will try to make teams up if you are

alone. If you need to chat about what this is all about and to check that your equipment is sufficient, you can contact me directly, I've done this for 7 or 8 years now, and also skied in the marathon once as a participant.

Please note that I will not be at the WIARC meeting before the marathon, so contact me via e-mail early enough at ve2tbh@rac.ca .

CSM has some additional requirements this year so feel free to encourage others to volunteer.

Thanks and 73 de Jean-François, VE2TBH

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BEST WISHES FOR A SPEEDY RECOVERY

This to let you know that Don, Devey, VA2DWD is doing well after some minor surgery this past week. When I spoke to him earlier this evening (Fri, Jan 17), he sounded like he is on the road to recovery though he did mention that he would be missing this month's meeting. Get better soon Don and hope to see you at a meeting in the near future.

73 de Vernon, VE2MBS

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BATTERIES AVAILABLE

Here is an excellent opportunity for members interested in picking up some batteries. Capacities are listed on the chart on page 7. Prices are Canadian and payment should be made to John Grow. If he receives orders by Jan. 28 he'll bring them to the meeting on the 29th. John can be contacted at jgrow@sympatico.ca or by phone at the office, 514-745-7550. The club will receive a percentage from any sales.

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SCANNERS HEAR IT FIRST

BY FREDERICK HART, VE2LSQ

And a happy 2003 to all of you. The saying says Happy New Year but I say Happy New Ear as we all like to hear what we listen to. Is it me or am I sounding confused already? I hope the holiday season was good to you and to all of you who got a new trunktracker under your tree, good luck, or as they say in Tokyo, good ruck!

Word has it that the new BC250XLT has started to make its appearance around North America. One included supposedly in Winnipeg. Hang on to your pocket change folks because on the portable the APCO25 board is

as expensive as the radio. We are now officially into the second year of SSIM. Congratulations to the SSIM for their first year of the amalgamation. Everybody has growing pains on systems amalgamated, everyone has comments, and all-in-all it looks to be a good system. There seems to be less and less big-big fires than before.

Radio-wise it seems that all the municipalities now have that 800 MHz swish in the carriers they speak on and central sometimes drives us nuts by silencing the vehicles so we only hear dispatch sometimes. Lets hope 412.7625 is around for a lot longer to hear the retransmissions of the 800 MHz system. I noticed the other day that they were dispatching all of the municipalities from the stations over the air and not through hard-wired system. Technical adjustments for technical difficulties. Either way the calls got put out.

South shore, the new Longueuil megacity, is rumoured to be using 410.2875 MHz. I'm still to hear anything on that frequency. Maybe its local to them but I don't think so because they cover to St. Bruno. Noted reduction in sensitivity and reception on 410.8375 MHz, Vaudreuil-Dorion fire. From what I hear the SQ is now dispatching them and its either from a different location or they have reduced power. All-in-all not a whole lot of new stuff in the region. Still awaiting the great APCO25 debate results. Still can't understand why Bell Mobility EDACS is there for the majority of systems and the system works then try something new and probably more expensive. But then again I'll probably upset somebody that drives a big red truck so I'm shutting my mouth!

The new BC250XLT apparently can be viewed on the Uniden website www.whet-ever-the-Uniden-website-is.com Hope to have more news in the February issue. As soon as we hear it we'll pass it on because if we were to pass on all the information we get daily from the rumour mill the MarcOgram would look like the new mega-



phonebook.

Stay safe, get an earful, and **MAKE SURE THAT YOUR SMOKE DETECTOR IS WORKING** - 8 deaths locally and that was the cause.

Smoke detectors save lives. Is yours working?

73 de Fred and the cats.

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Editor's Note:

[Uniden's web site is: http://www.uniden.com](http://www.uniden.com)

CLASSIFIED

And for you keen ones pdf versions of the operating manuals are available at: DEADLINE for classified ads is the second Wednesday before the monthly meeting.

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<http://www.uniden.com/pdf/BC250Dom.pdf> for the 250d
and
<http://www.uniden.com/pdf/BC785Dom.pdf> for the 785D

		Dimensions	Weight	Cdn Sell
Battery Model	Description	L x W x D	Lbs.	
6 Volt Batteries				
SA 645	6 Volt 4.5 Amp	2.7 x 1.8 x 4.2	2.00	\$7.75
SA 670	6 Volt 7.0 Amp	5.9 x 1.3 x 3.9	3.00	\$12.25
SA 6120	6 Volt 12.0 Amp	5.9 x 1.97 x 3.9	4.50	\$16.74
12 Volt Batteries				
SA 1245	12 Volt 4.5 Amp	3.5 x 2.7 x 4.2	3.80	\$12.17
SA 1270	12 Volt 7.0 Amp	5.9 x 2.5 x 3.9	5.80	\$16.28
SA 12120	12 Volt 12.0 Amp	5.9 x 3.8 x 3.9	9.00	\$36.65
SA 12180	12 Volt 18.0 Amp	7.1 x 2.2 x 6.5	13.30	\$43.89
SA 12260	12 Volt 26.0 Amp	6.5 x 6.8 x 4.9	19.40	\$65.43
SA 12350	12 Volt 35.0 Amp	7.8 x 5.1 x 7	33.30	\$80.02
SA 12400	12 Volt 40.0 Amp	7.7 x 6.5 x 6.9	36.00	\$100.75
XSA 12700	12 Volt 70.0 Amp	13.7 x 6.5 x 6.8	53.00	\$150.98
XSA 12800	12 Volt 80.0 Amp N.A. Size	10.2 x 6.5 x 8.7	62.00	\$162.94
XSA 121000A	12 Volt 100.0 Amp Recessed post	13 x 6.7 x 8.7	75.00	\$216.35
XSA 1212000	12 Volt 200.0 Amp Note Dimensions	20.5 x 10.2 x 9.5	160.00	\$287.25



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: radiohf@total.net

WEB: www.total.net/~radiohf

SHORTWAVE & AM/FM RADIOS / RADIOS ONDES COURTES & AM/FM
A.O.R., DRAKE, FAIRHAVEN, GENERAL ELECTRIC, GRUNDIG, ICOM, KENWOOD,
LOWE, 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)
ASTATIC, CHEROKEE, COBRA, K40, MACO, MAXON, MIDLAND, PARADYNAMICS, RANGER,
ROAD NOISE, SHAKESPEARE, SOLARCON/ANTRON, UNIDEN, VALOR, WILSON, WORKMAN

FAMILY RADIO SERVICE (FRS) / DISPOSITIFS RADIO DOMESTIQUES (DRD)
AUDIOVOX, COBRA, GARMIN, ICOM, KENWOOD, MAXON, MOTOROLA, STANDARD

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

SPECIALTY PRODUCTS / PRODUITS SPECIALISES
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ELECTRONICS, L.D.G., MAHA, MFJ, MIRAGE, NYE VIKING, OPTOELECTRONICS, PALOMAR
ENGINEERS, PALSTAR, PREMIER, RF CONCEPTS, R.F. SYSTEMS, RIGBLASTER, S.G.C.,
TIMEWAVE, UNADILLA, UNIVERSAL, VECTRONICS, VIBROPLEX

PUBLICATIONS / PUBLICATIONS
AMERICAN RADIO RELAY LEAGUE (ARRL), ARROWHEAD, ARTSCI, BAYLIN PUBLICATIONS,
BILLBOARD (WRTH), CQ, CRB, ANDRE GUEVIN, HARUTEQ, 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