

marcOgram

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



Volume 45, Number 5

February 2000

“EARL PARIS, VE2ESP ON THE MONTREAL ASSOCIATION FOR THE BLIND CLUB STATION”

Wednesday 23 February 2000
Ragchew and Fleamarket: 19:30
Club meeting: 20:00

St. Thomas Anglican Church, Corner Somerled and Rosedale
(Please use side entrance off Rosedale)

Earl Paris, VE2ESP, who we all know as the man who greets us at the reception of our general meetings with his guide dog Wagner, has also been the Director of the Montreal Association for the Blind's (MAB) radio station for several years. From this perspective, Earl will be giving a talk about the history of the station at the MAB, as well as current operations. This talk should prove to be a very informative and eventful evening. We hope to see you all!

A WORD FROM THE PRESIDENT

Hello,

As is often the case the January meeting was not our best attended meeting but those who did attend were treated to a fascinating talk on the International Zone of Tangiers through the late 1940s, through the early 1960s. This coming month features a talk on a subject which shows up some of the important aspects of amateur radio. Earl Paris, VE2ESP, will be telling us about the history of the VE2MAB station which the club helps to maintain. Amateur Radio is one way that the blind can travel the world and otherwise become equals in a world where they have a disadvantage. A station such as this also cannot

be successful without help from the wider amateur community and it is that Elmering tradition which brings the new amateurs along and encourages them to try what they might not otherwise. Please be sure to come out and hear about a station which may not be well known but is important to those who use it.

Its February and I hope that none of you have had to do any outdoor antenna work. Spring isn't too far away and we will be getting outdoors again. Several events are coming up which will need your help. CANAM 2000 will be in May and about 25 operators will be needed for this event. Please let me, or Ken Magee, VE2EXC, know if you'd like to help. Your participation in these events is not only important for the well being of the participants but also for the good will

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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) \$28.00

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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 jrhay@HayA.qc.ca
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 Edward Wielgus, VE3VMF
 Steven Faguy VA2SMF (pending)

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.

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 Tentative Meeting Schedule

February 23 - Earl Paris, VE2ESP will give a historical look and present day operations of the Montreal Association for the Blind Club Station.

March 29 - Ralph Cameron, VE3BBM will give a talk on Electro-Magnetic Compatibility (EMC) and Radio Frequency Interference (RFI) issues from the point of the Amateur Radio operator.

April 26 - Frederick Hart will give a talk on the hobby of Radio Scanning and a discussion on the various Emergency Services in the Montreal Area.

NOTE: This meeting may be rescheduled to another location as the Church Hall may be unavailable that evening.

May 31 - Show and Tell

As usual, the meetings start with a casual Ragchew at 19:30 and the gavel at 20:00.

Hamfest

Saturday, April 15, MARC Amateur Radio Fleamarket at The Legion, 7771 Bouvier, Lasalle. More details on pages 4 and 7 .

Foxhunt

Saturday, May 13 - This is the tentative date for a foxhunt which is currently in the planning stages. For more information contact Steven, VA2SMF.



MARC COMPUTER NET

The net meets every Thursday evening at 8pm on VE2RED, 147.270+

to discuss computer news, computer problems, computer humour, computer web sites and computer addiction. In other words, everything about computers

is fair game here. If you have anything related to computers (it doesn't necessarily have to be amateur radio related), favourite web sites, questions, comments, or just want to argue Linux vs Windows with everyone, then stop by and check in.

73 de Steven, VA2SMF, Net Controller

which it generates for the hobby.

I look forward to seeing you all at the meeting.

73 de Jim, VE2VE

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FROM THE EDITOR'S DESK

The snow gently falls as I write this and with February almost half we can safely say the end of winter is getting closer. Just as winter leads into spring it also leads into a more active amateur radio season. There will be a number of activities starting soon, hamfests, a foxhunt tentatively set for May 13 as well as a number of public service events. See page 4-5 for Ken, VE2EXC and the VE2LZR Group's list of upcoming events. There will be more activities to add later in the season. These are all good opportunities to get out and meet fellow enthusiasts and in some cases a chance to practice certain skills and publicise and promote our hobby. Try and book some time for yourself so you can come out and enjoy these activities.

73 de Craig, VE2YGK

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CONTEST CALENDAR

The ARRL DX Contests are coming up. You can have fun and add to your country total. You work only DX in these, i.e. no W or VE stations. The exchange: you send your province, DX sends his power. It is not necessary to send in a log unless you want to. Full rules can be found in the various magazines and/or on the internet. If you need further info rules etc. for any of these contests' you may contact me at:

613-675-4715 or e-mail: ve3rm@rac.ca

February, 2000

ARRL Inter. DX Contest, CW	0000Z Feb 19 - 2400Z Feb 20
CQ 160-Meter Contest, SSB	2200Z Feb 25 - 1600Z Feb 27
REF Contest, SSB	0600Z Feb 26 - 1800Z Feb 27
UBA Contest, CW	1300Z Feb 26 - 1300Z Feb 27

March, 2000

IN CASE OF EMERGENCY

Montreal 911 Centre	280-2121
Laval 911 Centre	662-4240
Longueuil 911 Centre	646-8570
Surete du Quebec	598-4242
Kahnawake Peace Keepers		632-6505

These numbers are for emergencies ONLY

ARRL Inter. DX Contest, Phone	0000Z Mar 4 - 2400Z Mar 5
RSGB Commonwealth Contest, CW	1200Z Mar 11 - 1200Z Mar 12
UBA Spring Contest, CW	0700Z Mar 11 - 1100Z Mar 12
Bermuda Contest	0001Z Mar 18 - 2400Z Mar 19
BARTG WW RTTY Contest	0200Z Mar 18 - 0200Z Mar 20
Russian DX Contest	1200Z Mar 18 - 1200Z Mar 19
CQ WW WPX Contest, SSB	0000Z Mar 25 - 2400Z Mar 26

April, 2000

SP DX Contest	1500Z Apr 1 - 1500Z Apr 2
EA RTTY Contest	1600Z Apr 1 - 1600Z Apr 2
Japan Int. DX Contest, 20-10m	2300Z Apr 7 - 2300Z Apr 9
UBA Spring Contest, SSB	0700Z - 1100Z Apr 9
YU DX Contest	1200Z Apr 15 - 1200Z Apr 16
EU Spring Sprint, SSB	1500Z - 1859Z Apr 15
Holyland DX Contest	1800Z Apr 15 - 1800Z Apr 16
Helvetia Contest	1300Z Apr 22 - 1300Z Apr 23
Ontario QSO Party	1800Z Apr 29 - 1800Z Apr 30

73 de Don, VE3RM

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COMING EVENTS

Feb 26 Burlington ON Montreal Amateur Radio Club FleaMarket - LaSalle, QC.
 Burlington(Ontario) ARC 3rd Annual Spring Fleamarket. Location: Royal Canadian Legion Branch 212 (LaSalle),
 Burlington, Ontario - Burlington ARC Inc. Location: - LaSalle, QC 7771 Bouvier, corner of Shevchenko
 Royal Canadian Legion, Legion Road. Vendors: 07:00 Vendors 07h30 (07:30 AM) General Admission 08h30
 am General Admission: 9:00 am - 1:00 pm, Vendors: (08:30 AM), Tables: 8,00\$ 15,00\$ for two. General
 \$10.00 per table + \$5.00 general admission per person; Admission 4,00\$ - Talk-in VE2RED 147.270 (+)
 General Admission: \$5.00 per person Talk-in VE3RSB - Information: James R. Hay (514)-697-7205
 147.210 / 444.825 (PL 131.8) or e-mail ve2arc@rac.ca
 web page: <http://www.barc.burlington.on.ca/>
 Information: Hugh McCully - VE3AYR (905) 333-0826
 or E-mail: janus@bigwave.ca

Feb 26 Milton VT
 Vermont State Convention, Milton, Vermont Radio
 Amateurs of Northern Vermont. Location: Milton High
 School, Route 7, Milton, Vermont. Talk-in 145.150 (-).
 On the day of the fleamarket, a beacon on 146.670 will
 be on the air.
<http://www.ranv.together.com>
 Information: Mitch Stern, W1SJ, 14 Kimberly Drive Essex
 Junction, VT 05452 or (802)-879-6589
 Email: w1sj@arrl.net

Mar 4 Montreal QC
 Encan UMS Auction - Montreal, Quebec - Union
 Metropolitaine de San-Filistes de Montreal (UMS).
 Location: Complexe Roussin, 12125 Notre Dame Est/East.
 Time 09:00 A.M. (0900)

Mar 25 Brampton ON
 Hamex 2000 - Brampton, Ontario, Peel Region ARC
 Location: The Brampton Fall Fairgrounds, Heart Lake Rd.
 north of Mayfield Road. Vendors 7:00 am, Public 9am to
 1:00 pm Admission: \$5.00 Talk-in 146.880(-) Tone 103.5
 VE3PRC
 Information: Jack Summers VA3JAK at (905)458-0002
 or email va3jak@rac.ca or Bryan Weaver VE3TRJ at
 (905)-452-9056
<http://www.peelarc.org/fleas.html>

Apr 01 St Therese QC
 Club Radio Amateur Laval-Laurentides, - VE2CRL -
 Hamfest Laval-Laurentides 2000 - Ste Therese, Quebec
 Polyvalente Ste-Therese, 401 du Domaine, Ste Therese,
 Quebec. Radio-guidage/Talk-in 147.315 (+), Tables
 7,00\$, General Admission 5,00\$. Ouvert au Publique
 a/ Open the public at 09:00 Telephone (450)-625-8656
 Information: <http://pages.infinit.net/ve2crl/h2k>
 E-mail: hamfest2000@hotmail.com

April 15 LaSalle QC

Location: Royal Canadian Legion Branch 212 (LaSalle),
 LaSalle, QC 7771 Bouvier, corner of Shevchenko
 Vendors 07h30 (07:30 AM) General Admission 08h30
 (08:30 AM), Tables: 8,00\$ 15,00\$ for two. General
 Admission 4,00\$ - Talk-in VE2RED 147.270 (+)
 Information: James R. Hay (514)-697-7205
 or e-mail ve2arc@rac.ca
 web page <http://www.marc.qc.ca/fest.html>

April 15 Pickering ON
 Durham Region Amateur Radio Hamfest. Pickering,
 Ontario. Metro East Trade Centre. Brock Road, North
 of Highway 401. 07:30am Vendors 09:00am Public
 Admission \$6.00, Children under 12, free.
 Tables by pre-registration only. -Interior Aisle, \$25.00
 -against curtain wall, \$45.00 -against Hard Wall, \$50.00
 -attendees \$6.00 (only 1 additional attendee allowed)
 A/C Hookups \$80.00 (our Cost). Talk-in VE3SPA
 147.375(+) and VE3OSH 147.120(+). Peter Henry
 VA3PWH (905)-436-9236 E-mail: VA3PWH@rac.ca
 Web Page: <http://www.globalserve.net/~ismith>

April 30 Smith Falls ON
 16th annual Smiths Falls Fleamarket - Smith Falls,
 Ontario. Rideau Lakes Amateur Radio Club. Location:
 Smiths Falls Memorial Community Centre, 158 Elmsley
 Street North, Smith falls, Ontario.
 Vendors 7:00 AM Public 9:00 AM - General \$3.00 Tables
 \$10.00. Talk-in VE3RLR 147.210(+)
 Information: Email Baxter Smith, baxsmith@falls.igs.net
 Web page <http://www.falls.igs.net/~rlarc>

May 13 Etobicoke ON
 Skywide ARC Annual Spring Hamfest and Fleamarket
 Location: Westway United Church, 8 Templar Drive,
 Etobicoke, Ontario. Opening times Public--9:00 a.m.
 Vendor Setup--8:00 a.m. General Admission -- \$5.00
 Talkin 146.985 (-) or Simplex: 146.520
 Tables -- \$12.00 each (Includes one admission) Note:
 Tables MUST be prepaid by May 10, 2000. No table
 assignment until payment received. Contact Derrick
 Poulter, VE3JNK (416)-247-7728. Other information
 Murray Smith VA3KTL (416)-621-1233 or via Email:
 murray.smith3@sympatico.ca

May 26-28 Tracy QC
 "Un Siecle de Communication Radio/A Century of Radio
 Communications" - Convention on May 26-27 and
 Hamfest du Quebec 2000 Fleamarket on May 28.
 Location: Curling Aurèle Racine, 3010 Place du Centre

Civique. Time 06:00 Vendors, 09:00 General Admission
Admission : 5.00\$... Table : 15:00\$ Talk-in: VE2RBS
145,370 -avec tonalité de 103,5, ve2fct : 146,610 - avec
tonalité de 103,5.

Information: Internet: fflauz@enter-net.com
FAX : 450-742-8703 atn Fernand Lauzier, VE2MFL
Table Reservations. Alain VE2 EAG Tél: (450)-836-3072
Internet - alaing@autray.net
<http://www.enter-net.com/~9sflauzi/ve2cbs/hamfest.html>

73 de Vern, VE2MBS

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COMMUNITY SERVICE

Upcoming events from the VE2LZR Group

(Note: all but Cyclo-Tour are equestrian type events)

We are now in the process of setting up the courses and

related parameters for the first 2 events of this year.

The North American Selection Trials for the World
Singles & Pairs Combined Carriage Driving (CAN-AM'2000)
We will need up to 25 operators.

Date: 21 May 2000 (Sunday).

Location: Windedge Farm, Ste-Justine de Newton, QC

Called the CAN-AM 2000 (?? km long) is held at the Windedge
Farms. (Location is 25 mi. N/W of Montreal) Directions and
talk-in on VE2RM - 147.00 minus, provided. We are going to be
posted all around this long course providing point to point
information as to what and where its happening, and relaying
vital information to the control station on the safety and well
being of the competitors.

We require 2M / 70cm portable units as well as 2M /
70cm mobile vehicles, so let me know what you have available.
Portables must be able to operate for at least 10 or more hours.
We are going to be using 3 Simplex frequencies for the event, 2
vhf an 1 uhf. We will have a centrally located base station with 2
to 3 op's with about 12 op's on VHF and 12 on UHF. Operators
will be with the course designers, repair crews and public
announcers.

Rain or shine we are there, bring your lunch (so far),
light portable chair, and rain or shine gear, MOSQUITO
REPELLENT. Over the last many years many of have been
participating in this wonderful communications exercise, and we
would be more than pleased to have you along.

Remember that there are many more to come
throughout the summer, but why not start with this one. It will
probably be the most exiting. Send me your ham equipment info
and join the group. Looking for op's now.....

OTHER EVENTS THIS SUMMER

St. Lazare Cyclo -Tour (Family oriented pleasure cycling)

Date: 28 May 2000 (Sunday)

Location: St. Lazare, QC

Will need up to 20 operators. From 1000 to 1500 or more
cyclists (30 km course). Looking for op's now.....

The Harmony Horse Trails (Cross country jumping event)

Date: 18 June 2000 (Sunday)

Location: Windedge Farm, Ste-Justine de Newton, QC

Marathon Course Combined Driving Event (Carriage event)

Date: 26 August 2000 (Saturday) (may be moved to the 26th)

Location: Sandridge Farm, St. Lazare, QC

Pleasure Driving Event (Carriage driving event)

Date: 30 September 2000 (Saturday)

Location: Windedge Farm, Ste-Justine de Newton, QC

If anyone else would like to join the team, please contact Ken
VE2EXC via: the Covey Hill swap net (VE2REX 146.685)
on Friday evenings at 8:00, by phone (450) 458-7447, or by
e-mail: ve2exc@rac.ca

73 de Ken, VE2EXC for the VE2LZR Group

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SCANNERS HEAR IT FIRST

BY FREDERICK HART VE2LSQ

But February made me shiver... With every paper
I'd deliver... Bad news on the doorstep... I couldn't take,
OOPS! Sorry!

Just had that Miss American Pie song in my head
while thinking of February, and welcome to it! I hear the
ground-hog saw his shadow. (Was it alive at least this year?)
Six more weeks of winter eh? I know if someone reached
into a warm place and I was asleep and then grabbed me by
the tukus, I'd make it rain toads, let alone prolong winter.
Lots of cold weather around has surely not been kind to the
Fire Services. Go figure, the stuff they need to put out fire
freezes below 32 degrees F (0 degrees Celsius for you metric
folks - VEI). I guess they will be reciting the frozen hose
rolling poem for the next few weeks. Time to cuddle up to
someone special and keep them warm... I'm there!

I know one thing, it's easy to start climbing the walls
without a working scanner. I blew a circuit on mine recently
and did without for almost two weeks. A kind hearted soul
has lent me an old Bearcat 210 to help me keep my sanity.
It's just like the late 1970's again watching the red zero's
dance across the screen, good stuff!. Now that I can get an
earful again, it's not as nearly as active as when I was
scanner-less - all Hell broke loose during that time.

Montreal Fire Department (412.7625) (or as I'm
getting it, on 434.3625 - the BC-210 needs you to add 21.6
MHz to the original frequency to get the UHF T-Band). Its

February's Frequency Information EDACS South-Central ("Big Six") Update

As this issue pieces together, the move to 800 MHz continues and we are getting a grip on some of the current talkgroups in the systems presently in place. Thanks to Jim, VE2VE for his well appreciated efforts with getting what we know to date.

South Central "Big Six" Fire Mutual Aid. Repeaters

Note for best results, program the three repeater sites as follows:
(Note to Bearcat 245XLT owners, use 3 separate banks for best results.)

St. Laurent VDJ-521	Westmount VDJ-522	Outremont VDJ-523
867.8375	867.5875	866.9625
867.3325	867.0875	866.4625
866.8375	866.5875	859.5875
861.0125	861.0125	861.0125
859.8375	859.8375	859.8375
859.3375	859.3375	859.3375
	866.0875	

Talk-groups - Mutual Aid

00-021 Entraide 1	00-022 Entraide 2	00-023 Dispatch Mutual Aid Interconnect
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Talk-groups – Cities

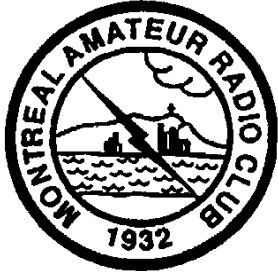
Cote St. Luc	Hampstead	Town of Mount Royal
02-021 FD Primary	04-021 FD Primary	06-021 FD Primary
02-022 Tactical Secondary	04-022 Tactical 1	06-022 Tactical 1
02-023 Tactical Secondary	04-023 Tactical 2	06-023 Tactical 2
02-041 Public Security	04-061 Public Security *	06-062 Public Security *
02-061 EMS-1		
02-062 EMS-2		
	* Not Confirmed	

Outremont	St. Laurent	Westmount
08-002 Outremont General	10-021 FD Primary	12-021 FD Primary
08-021 FD Primary	10-022 Tactical 1	12-022 Tactical 1
08-022 Tactical 1	10-023 Tactical 2	12-023 Tactical 2
08-023 Tactical 2	10-025 FD Unknown	12-081 Public Security
08-81 Public Security		

There are various non-emergency talk-groups such as Public Works, Recreation,
etc that are not included in this listing.

73 de Fred, VE2LSQ, Elmo and Kiddo.

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Hamfest

Montréal Amateur Radio Club

Amateur Radio Flea Market
 Saturday April 15, 2000
 Royal Canadian Legion Branch 212
 7771 Bouvier (corner Shevchenko), Lasalle QC
 Information and Reservations
 Jim HAY 514-697-7205

E-mail: ve2arc@rac.ca <http://www.marc.qc.ca/fest.html>

Time: Vendors 07h30, Public 08h30-12h00 (noon). Tables: 8,00\$, or 15,00\$ for two. General Admission 4,00\$ Talk-in VE2RED 147.270 (+) Volunteers are required to help with this year's event.

een constantly busy, several major outbreaks as well as mutual aid to Montreal North (410.1875) for a warehouse fire. But the icing on the cake was just a few nights ago.. While listening to a working fire on the 6800 block of Waverly in an illegal drug den, the command chief ordered a retreat of personnel from the structure followed by a request for the animal control people (Berger Blanc) to urgently respond and remove some creatures (are you sitting down), a 300 pound Boa Constrictor, four, 5 foot long alligators and various other snakes! Just when you thought you heard it all! Who said that scanning was a boring hobby!, see ya next issue.

Talk-Groups

Pointe Claire FD Primary	04-031
Entraide West	*
Public Security	04-032
Pointe Claire Volunteer Rescue	04-033
Mesures d'Urgence Pointe Claire	*
Incendie Regional Montreal Metro	*
Administration	*
Pointe Claire Fleet (all-call)	04-030

* Not Confirmed

73 de Fred, Elmo and Kiddo.

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FEBRUARY 'S FREQUENCY INFORMATION

For an update on the "Big Six" EDACS system see pg. 6.

EEDACS West Island update
 Pointe Claire

Frequencies

863.8375	864.4375	864.9375
866.1375	866.4125	866.6375
866.9125	867.2125	867.4125
	867.9125	

Notes: There are eight talk-groups in Pointe Claire, four are operational so far. Dorval Airport and Urgences Sante also share these frequencies with Pointe Claire.

73 de Fred, VE2LSQ, Elmo and Kiddo.

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CLASSIFIED

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



RADIO HF

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Tél: (450) 671-3773

Fax: (450) 671-3775

1-800-463-3773

Heures d'ouverture
du mardi au vendredi de midi à 20H00
samedi de 10H00 à 16H00

Business hours

Tuesday to Friday Noon to 8 PM.

Saturday 10 AM to 4 PM.

E-MAIL - COURRIER ELECTRONIQUE
ve2shw@yahoo.com

SHORTWAVE & AM/FM RADIOS

RADIOS ONDES COURTES & AM/FM

A.O.R., BAYGEN, DRAKE, GENERAL ELECTRIC, GRUNDIG, ICOM, KENWOOD,
LOWE, SANGEAN, SONY, SUN-MATE, YAESU

SCANNERS / BALAYEURS D'ONDES

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

AMATEUR RADIO / RADIO-AMATEUR

A.D.I., ALINCO, CHEROKEE, ICOM, KACHINA, KENWOOD, MAHA-REXON,
STANDARD, 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

ANTENNAS / ANTENNES

ALPHA DELTA, ANTENNA SUPERMARKET, ANTENNAS WEST, ARROW, BARKER
WILLIAMSON, COMET, CREATE, CUSHCRAFT, DIAMOND, HUSTLER, L.F.
ENGINEERING, LARSEN, MFJ, NEVADA, OUTBACKER, SCANMASTER, SIRIO,
TELEX HYGAIN, VALOR/PRO-AM, VAN GORDEN, WATSON, WORKMAN

SPECIALTY PRODUCTS / PRODUITS SPECIALISES

ADVANCED BATTERY SYSTEMS (PERIPHAX), AMERITRON, ASTRON, BENCHER,
DAIWA, D.C.I., HEIL, JPS COMMUNICATIONS, KANTRONICS, KIWA
ELECTRONICS, MAHA, MFJ, MIRAGE, NYE VIKING, OPTOELECTRONICS,
PALOMAR ENGINEERS, PALSTAR, PREMIER, RF CONCEPTS, R.F. SYSTEMS,
RAMSEY KITS, S.G.C., TIMEWAVE, UNADILLA, UNIVERSAL, VECTRONICS,
VIBROPLEX, WATSON

PUBLICATIONS / PUBLICATIONS

A.R.R.L., ARROWHEAD, ARTSCI, BAYLIN PUBLICATIONS, BILLBOARD
(WRTH), CQ, CRB, G.C. ARNOLD (RADIO BYGONES), HARUTEQ, HIGHTEXT,
IBS (PASSPORT), KLINGENFUSS, LOOMPANICS, NATIONAL RADIO CLUB,
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UNIVERSAL RADIO