

marcOgram



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

A MARC Monthly Newsletter

Volume 51, Number 4 January 2006

Meeting - Wednesday 25 January 2006

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

St. Ignatius of Loyola Parish Church

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

(Please enter by the back door)

**Happy New Year - 2006
and
Good Health to All**



MARC 2005 DINNER

more pictures @ <http://www.flickr.com/photos/rjcam> and
<http://www.hay-net.net/~ve2arc/hamradio/2005/20051210.html>

It is with deepest regrets that we have to announce the passing away of two of our radio amateur colleagues, Andrew W. (Andy) Beard and Gordon Hykle.

BEARD, Andrew W. (Andy-VE2DWT). 1939-2005 Suddenly, at the Montreal General Hospital on December 22, 2005 at the age of sixty-six years, passed away Andy Beard. Cherished husband of Susan Webb. Dear father to Ann (Scott) and Nancy (Jacques). Loving grandfather to Justin, Jennifer and Steven.

HYKLE, Gordon (VE2QX). Gordon passed away peacefully on December 24, 2005 at the age of 82. While not active recently Gordon had been active in latter years in the West Island Amateur Radio Club. Our thoughts and sympathy are with Gordon's family and friends.

January Meeting

John Grow will be demonstrating surface mounting kit building. This should really be interesting, so plan to attend and learn something new. John will have his surface mount soldering station.

A Word from The President

Hello,

First off, I wish each of you along with your families all the best of health, happiness and prosperity in 2006. Along with that also goes my wish for the realisation of your goals in amateur radio for the year.

Those of you who did not attend missed out on a most enjoyable Christmas dinner. Hopefully next year we will enjoy the company of more of you.

Congratulations to Don Dashney who was sporting his new 60 year pin at the dinner - sixty years in amateur radio is an accomplishment worth noting and particularly for someone as active as Don has been. Congratulations Don and may your next 60 years be as full of activity and accomplishment as the first 60 have been!

At our general meeting it was decided to raise the dues by two dollars for regular and family memberships. We discussed various options relating to the MarcOgram and its delivery. At that time it was decided that the dues increase would not take effect until the new membership year and that the board of directors would look into the possibility of a surcharge for postal delivery. While we are still looking at that option we have learned that starting this month we will be paying more in rent at the Church.

This will mean an additional \$120 per year in rent and while the Church is

hoping to avoid it we could see another increase in the fall.

It may be that the changes in Hydro rates for Churches and schools is having its effects. At the moment we are not looking to change meeting location as we do enjoy excellent facilities.

The St. Patrick's Parade is also coming up in March and we've again been asked to provide assistance. If you are able to help out please let me know as your help will certainly be appreciated.

This month's programme should be of considerable interest as we look at kit building but with a difference. Many of us had thought of surface mount as being "out of our league" however kits are being made and sold and I am certainly looking forward to learning more about this topic.

I look forward to seeing you all at the meeting.

73 de Jim.

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

Repeaters

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

VE2RED 147.27 MHz (+)
Owned and operated by the Montreal Amateur radio Club.

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

Meetings of the Board of Directors

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

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

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

Editor

Ron Campbell, VA2RJC va2rjc@rac.ca
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Annual Fees are:

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

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

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

The opinions expressed herein are, unless otherwise stated, solely those of the authors concerned, and not those of the Club, the Directors or members and do not represent the policy of the Club.

James R. Hay, President

From the Editor's Desk

Happy New Year from Your editor



Before I start any rumblings, I would like to emphasize to all MARC members that these comments are my views and are not in response to prodding from any other member. If you have a gripe regarding these words then lance it towards me.

Now down to business. I would like to thank and congratulate John (VE2EQL) for his effort in setting up the MARC 2005 December dinner. I know to arrange this type of function can be time consuming and also frustrating. Due to an unscheduled assignment, John and wife were out of town and thus unable to share our small but very enjoyable gathering.

Now for "frustrating" and "small." I believe that the expected or planned number of participants was around the 32 mark and the final tally. That's where the frustration comes in.

The logistics of the dinner required around 45 attendees to obtain the agreed price per person of \$18.00 including tax but not drinks. The restaurant had arranged three parallel sets of tables for us, each providing 14 seats. This would have made a good area for the group and enabled us to communicate (voice wise) between tables and thus well contributed to the festive seasonal noise. As it turned out, we

had one table set for 14 persons and an add-on at the end (which I might add left a few people out in the cold) for the other five.

My personal view is that with approximately 100 club members, we should be able to draw out around 25 percent members participation in a one-of-a-time yearly event such as this. If we cannot, is it really worth the effort and possible frustration of someone to arrange such an event. I think members should be a little more honest with themselves when asked if they plan to attend. If the figure is a realistic one of say 15 or so, then that group could make their own arrangements as a group of hams with their spouses or friends. Please members, consider this when November 2006 comes around. Oh, before I forget, congratulation to our President Jim for his usual spontaneous action in undertaking the arrangements with the management. By the way, the food was great. And, congratulations to Craig (VE2YGK) for winning the evening prize, the 2006 ARRL Handbook.

That's it for now, your Ed....
rjcam the video-ham.
VA2RJC

Club Activities - Monthly Meetings

Club meetings are held on the last Wednesday of the month. The meetings will be held in the Lounge which is the rearmost door on the South side of the 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 flea-market and ragchew session starts at 19:30 with the formal meeting starting at 20:00.

STM buses 51, 162, and 105 stop nearby.

22 February 2006

Don, VE3RM will be giving a discussion on HF operations.

29 March 2006

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

26 April 2006

TBA

31 May 2006

Annual Show and Tell Meeting

Radio Classes

Each year the MARC holds a basic radio course. The 2006 course starts on Saturday, January 21 at 09:30 A.M. at the Loyola Campus of Concordia University, classroom to be announced. Cost is 100.00\$ and for more information, contact Vernon Ikeda at ve2mbs@rac.ca or 514-684-7944. The course runs until April 15.

Other Activities

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

St. Patrick's Day Parade

This annual event is approaching and it is likely that MARC will again be requested to provide radio communication coverage. Those who are in-

terested in participating should contact: Jim Hay jrhay@HayA.qc.ca or

Ray Faguy ve2sja@rac.ca

2006 Hamfests

Saturday, February 4

Niagara Peninsula Amateur Radio Club Big Event 28 - St. Catharines, Ontario

Location: Canadian Auto Workers Hall, 125 Bunting Road, St.Catharines, ON

Vendors 07:00 - Public 09:00 to 13:00 Admission \$6.00, Tables \$20.00 (includes 1 admission) Talk-in: VE3NRS 147.240 (+) PL 107.2 Hz For Vendor Information please call Peter Vince, VA3PKV at (905) 347-2612, vendors@nparc.on.ca and for General Information contact Brian Kent, VE3BMX at (905) 321-3594, bigevent@nparc.on.ca Web Page: <http://www.nparc.on.ca>

Sunday, February 12

Burnaby ARC Amateur Radio Flea Market - Burnaby, British Columbia

Location: Cameron Recreation Centre, 9523 Cameron Street, Burnaby, B.C. (behind Lougheed Mall)

Vendors 09:00 - Public 10:00 to 14:00 Admission \$5.00, Tables \$25.00 Talk-in: VE7RBY 145.350 (-) Information: Dan Potvin VE7BYY 604-582-4252 ve7byy@rac.ca or Lou Beaubien VE7CGE 604-291-1569 loucge@telus.net Web Page: <http://www.ve7bar.org>

Saturday - February 25

Burlington Spring Fleamarket - Burlington, Ontario

Location: Royal Canadian Legion - 828 Legion Road, Burlington, Ontario

Vendors 07:00, Public 09:00. Admission \$6.00 Tables \$10.00 Talk-in VE3RSB 147.210 (+) PL 131.8 Hz Information: Chuck Wilson, VE3IUO at 905-667-8534. Reservations and cheques to Norm at 2129 Larabee Court, Burlington, Ontario, L7P 3S3 E-Mail: barc@cogeco.ca Web page: <http://www.barc.ca>

February 25

Northern Vermont Winter Hamfest - ARRL Vermont State Convention Milton Hamfest -

Milton, Vermont Location: Milton High School, Route 7, Milton, Vermont

Time: 08:00 until 13:00. Vendors: Early Vendors Entrance (via rear door) 06:30 - Call or write for more information. Admission: 5.00\$. Under 18 years, free. Canadian money accepted at par from Canadian residents, exact change only. Cash only, no checks. Talk-in: 145.150 (-) WB1GQR. Prerecorded hamfest information and announcements on 146.67 MHz on the day of the hamfest. Information: Phone: (802)-879-6589, before hamfest day or via E-mail at: w1sj@arri.net Web page: <http://www.ranv.org/milton.html>

Saturday, March 25

HAMEX 2005 - Brampton, Ontario Location: Brampton Fall Fairgrounds, Heart Lake Road corner of Old School Road, Brampton, Ontario

Time: Vendors at - Public at 09:00 to 13:00 - Seminars 1300-1800 Talk-in VE3PRC 146.880 (-) PL 103.5 Hz Admission: 6.00\$ - Tables TBA. Information: ve3xr@rac.ca or 905-453-6096 Web page:<http://www.ham-ex.ca>

Saturday, April 1

Iroquois A.R.C. 10th Annual Flea Market - Iroquois, Ontario Location: Iroquois Civic Centre

Vendors: 08:00 Public: 09:00 - 12:00 Free Admission / Tables 10.00\$ Talk-in VE3IRO 145.290 (-) Table reservations/Information: Gordon Knights, VE3UGW (613)-657-3640 or E-mail ve3ugw@ripnet.com Web Site: <http://www.iarc.dyndns.org:8080/>

Saturday, April 22

Montreal Hamfest and Fleamarket LaSalle (Montreal), QuÉbec

Location: Royal Canadian Legion Branch 212 (LaSalle), 7771 Bouvier corner of Shevchenko. STM Bus 109 at the door.

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

Sunday, May 7

O.C.A.R.C. 2nd Annual Flea Market - Kelowna, British Columbia

Location: Ellison Heritage School Community Centre, 4411 Old Vernon Road, (East of the Kelowna Airport), Kelowna, B.C.

Vendors 08:00, Public 09:00 Admission 2.00\$ Tables 10.00. Talk-in: 146.680 (-) Information: Keith Manhard, VE7KNG, 250-766-2179 or Carl Bertholm, VE7CLC 250-769-4184 E-mail: ve7kng@rac.ca Web page: <http://www.ocarc.ca/hamsale>

Saturday, May 13

Down East Fleamarket - Halifax, Nova Scotia

Location: Halifax Forum Complex at the corner of Young and Windsor Streets

Time: Vendors at 06:30 and General Public at 09:00 - Tables: T.B.A. Vendors must reserve tables in advance - General Public: T.B.A. Talk-in: VE1PSR 147.270 (+) E-mail: Web Page:

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

Saturday, June 10

Central Ontario Fleamarket and Hamfest. - Fergus, Ontario

Location: Fergus & District Community Centre, 10 km north of Guelph off Highway 6. See www.hamfest.on.ca for a map.

Vendors at 06:00, Tailgaters at 07:00 and the Public at 08:00 to 12:30. Admission \$6.00 -- Vendors - \$12.00 plus admission -- Tailgaters \$7.00 plus admission. Talk-in: 145.210 (-) VE3ZMG, switch to 146.520 simplex in the Fergus. E-mail: info@hamfest.on.ca Web page: <http://www.hamfest.on.ca>

Saturday, July 8

Ontario Hamfest 2005 - Milton Ontario

Location: Milton Agricultural Fairgrounds, Milton ON Times Inside Vendors: 07h00 - Robert Street Gate only -

Tailgaters:08h00 - Robert Street gate only - General Admission: 09h00 - Thomas St gate only. General Admission - 6.00\$ Inside Vendors - 10.00\$ per table plus 6.00\$ per person Tailgaters - 5.00\$ tailgate permit (per space) + 6.00\$ per person. Talk-in: 146.520 Simplex E-mail: Registration: ve3czi@rac.ca or Norm Freidin at (905)-335-8962 - Information:Chuck Wilson, VE3IUO emailve3iuo@rac.ca phone (905) 667-8534 Web Page: <http://home.cogeco.ca/~barc>

Saturday, September 2

Ottawa Amateur Radio Club 10th Annual Hamfest. - Carp, Ontario

Location: Carp Agricultural Fair Grounds, 3970 Carp Rd (at Falldown Lane), Carp, ON

Vendors - 08:00 Tailgaters - 08:00 General Public - 10:00 to 13:00 Forum T.B.A. - 13:00 General Admission 5.00\$ Tables 10.00\$ plus admission Tailgaters 5.00\$ plus admission. Talk-in: VE2CRA 146.940 (-) Greg Danylchenko, VE3Ytz at (613) 236-9291 (H) E-mail: fleamarket@oarc.net Web Page: <http://oarc.net/fleamarket>

Submissions for entry into *marcOgram*

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

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

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

Contact me at:

va2rjc@rac.ca va2rjc@marc.ca

Home Tel: 514-767-2804

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

Canadian Ski Marathon - February 11-12, 2006

This is a message sent by Richard Hagemeyer, VE3UNW concerning Amateur Radio Participation in the Canadian Ski Marathon.

"This year marks the 40th anniversary of the Canadian Ski Marathon. Radio Amateurs have been providing communications support to CSM operations and safety for 32 years and we show no signs of slowing down for the 33rd year! Although sponsored by the Ottawa Amateur Radio Club, clubs and individuals in Montreal, Ottawa and all points between support this challenging event each year. Find out why "Winter Field Day" is so much fun!

Interested? Please visit:

<http://radio1@admin2.ca> and see what kinds of jobs are available. You can also email Richard, VE3UNW at radio1@admin2.ca

MARC Community Web Site

The club has received an offer from Guy Foster, VE2HVZ to set-up and run a community web site for behalf of MARC. Guy is a new ham who took the course last year and has attended a number of meetings.

Guy has been running a community web-site for close to 2 years, so fully understands the requirements for setting them up, maintaining them and databases, etc... The community website is Montreal BBS, <http://www.montrealbbs.com> - a website dedicated to BBSing in the Montreal Region. As you know BBSing came before the Internet, and it was the way in which people would communicate using a computer and a modem.

What Guy is proposing is the creating and maintenance of a website for the MARC. A place where members/non-members could log-on, leave each other some messages, keep up to date, talk about upcoming events, sell/buy/trade equipment, etc... A sort of meeting place. Regular chat sessions can also be held...

Guy has produced a preliminary website for the group and it is located at: www.montrealbbs.com/marc - Guy would be hosting it from his server for FOC (which has been up for close to two years with no major problems). Total control would be given to the directors of the M.A.R.C.

We, MARC need to let Guy know if we are interested, and if affirmative, the directors can discuss further with Guy regarding specifics.

Scout Presentation

On January 17, Ron Campbell VE2RJC and John Grow VE2EQL with Suzanne Thauvette VE2SZN will be doing a presentation of Amateur Radio for the Greenfield Park Scout troop. The presentation, will show the basics of communications, and what Amateur radio is. There will be a portable HF and VHF station.

If any MARC members wish to help via 2 meter FM, to help make contacts for the scouts, we will be on VE2RTC 146.640 (Mt. Sutton) and VE2BG 147.060.

We will be doing demo's of what CW is, Space communications, What is required to receive your Amateur Radio license. What hams do in emergencies. An information flyer will be given out, explaining where to find additional information, and net sources. Ron will be videotaping the event for his Amateur Radio Video project.

Bulletin from Manotick Amateur Radio Group, through Mike VE3IPC.

Hello folks, I thought I should share this bit of info with you, which I just saw, so you can inform the Amateurs in your area about this upcoming BPL PPT presentation, and with special guest RAC Pres. Earl Smith, VE6NM.

This was forwarded from the Manotick club newsletter.

If your interested please let VA3VKK (Kim) known as soon as possible.

Joe Parkinson, VE3JG, and Jim VE3IQ will be the guest speakers along with special guest RAC President Earle Smith, VE6NM

Subject: PowerPoint presentation on BPL The title I have chosen: BPL in Canada Today. This would involve a brief look at the types of BPL, initiatives in Canada to date, the BPL consultation called by Industry Canada, the involvement of RAC on BPL issues and the status of BPL today.

RAC President Earle Smith, VE6NM, has asked Jim VE3IQ to schedule him to attend the MARG meeting on 24 January 2006 while he is in Ottawa. He would be pleased if this could be a joint meeting with other clubs

I will be contacting the other clubs however I would like to get a idea of the people planning to attend ASAP.

Kim Kruege, VA3VKK, President, Manotick Amateur Radio Group

SMALL ADS

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

Fun Corner

THE BOOTLEGGER

A bootlegger walks into a radio store and tells the salesman that he would like to buy the new HF rig over in the corner. The salesman says, "Sorry, we don't sell to bootleggers". He leaves, goes home, puts on a brown wig and sunglasses and goes back to the store and tells the salesman he wants to buy that new rig over in the corner. Sales guy says, "Sorry, we don't sell to bootleggers". Old boot asks, "How do you know I'm a bootlegger?" and the salesman replies, "Because that's not a rig, it's a microwave oven."

Thanks to Guy Foster VE2HVZ

Any other light-hearted pieces will be very welcome, send to your Ed...

IN CASE OF EMERGENCY

Montreal 911 Centre
.....514-280-2121

Laval 911 Centre
.....450-662-4240

Longueuil 911 Centre
.....450-646-8570

Surete du Quebec 911 Centre
.....310-4141

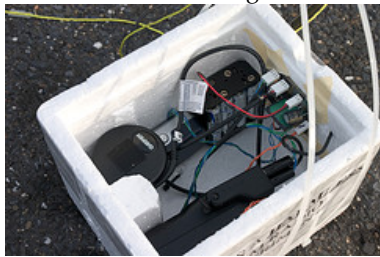
Kahnawake Peace keepers
.....450-632-6505



Balloon Altitude Record Attempt

From Jim Nagle, KF4OD

The Vienna Wireless Society undertook its third balloon launch on Saturday, January 7th, around 9:45 A.M. EST. The flight duration was around four hours. The flight attempted to break the altitude record of 120,522 feet as posted on the WORPK Amateur Radio Ballooning Records Page, available here: <http://showcase.netins.net/web/wallio@ARHABRecords.htm>. APRS telemetry and position data was transmitted from the balloon on 144.39 MHz with callsign K4HTA-11. E.



The balloon was slightly overfilled, resulting in an ascent rate closer to 1000 ft than the desired 700 ft/min. The moral is that 50 lb fishing scales are very inaccurate in the 1-2lb range. This resulted in a shorter flight, and probably decreased the maximum altitude. BUT, we still achieved an altitude of over 113000 feet. I think we hit 114000 feet as a matter of fact, but don't have that particular packet in my logs. So will wait for the logs from the skyline group. The tracking teams moved in on the balloon and realized it had landed in a tree. Unfortunately, this particular tree was far more formidable a foe than the one encountered on VWS-2, and the payload still remains lodged in its branches. An expedition was planned to try to recover the stuck payload by bow and arrow, slingshot, spud gun, chain-saw, or whatever other means may be necessary. So other than a somewhat unfortunate ending, the flight went well. Having a group atop skyline drive was a very good idea (they got the second to last packet from the balloon) and the NERA repeater system provided excellent coverage of the launch area.

BPL a Reality.....

High-speed Internet planned for power lines The Globe and Mail December 19, 2005 By Dionne Searcey and Rebecca Smith.

This is not a test or trial but planning to deliver services in 2006 by a major player in the electrical utility market of the U.S.

In a deal that could pose a new threat to cable and phone companies, Current Communications Group LLC and TXU Electric Delivery a unit of TXU Corp. said they plan to offer high-speed Internet over electric power lines to more than two million customers in Texas.

The move marks the biggest deployment of broadband over power lines in the United States. Customers will be able to plug a device about the size of a cellphone into an electrical outlet and connect a cable from their computer for Internet access that is faster than many Internet plans from cable and phone companies. Current said it hasn't determined how much the charge for the service but it is scheduled to be offered before the end of 2006. Cable and phone companies have been competing furiously for high-speed Internet customers as more people switch from sluggish dial-up modems to faster broadband. Providers of broadband over power lines have generally been dismissed as insignificant players with immature, costly technology. But Current's rollout to a wide swath of customers in the Dallas-Fort Worth area and elsewhere in Texas is a sign that the technology is more than a fad. The service will be offered to two million customers in TXU's utility territory in North Texas, which has overlap with access now severed by Time Warner Inc. and Charter Communications Inc. As well as AT&T Inc. and Verizon Communications Inc. which are spending billions of dollars to upgrade their networks with fiber.

Under the terms of the agreement, TXU, the biggest utility company in Texas, will sign a 10-year contract for \$159 million (US) to use Current's technology to get instantaneous alerts about outages and to gather information about its electrical system. The technology eventually could be used to read meters and even to remotely shut off or turn on power. TXU has been engaged in a wide-ranging effort to build new businesses and cut costs. It has been one of the utility sector's top stock performers for the past two years.

Current, a private company controlled by the family of chairman William Berkman, plans to raise more than \$100-million from its investors, which include Google Inc., Goldman Sachs Group Inc. and Liberty Associated Partners LP of which John Malone's Liberty-Media

Corp. is a limited partner. TXU Corp. will also become a n equity holder. Current could market the service itself or team up with another service provider to sell it. Also, it could reach agreements with Internet phone. Video and wireless providers to bundle the broadband with other services, a popular marketing strategy used by cable and phone companies. Broadband over power lines, or BPL, has had technical difficulties, and ham-radio operators have objected to spectrum interference (Current says its service doesn't interfere with ham radio.) But the technology is regarded as a potential powerful tool that could reshape all sorts of business in addition to utilities and Internet service. Because any electric plug becomes a two-way communications portal, it could give regular appliances a communications capability. Soda machines, for example, could tell a distributor when they're running low on cans, changing restocking routes.

Industry Canada - Comments on BPL Consultation released

Comments received from interested parties over deployment of Broadband Over Powerlines (BPL) is now available at:

<http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/en/sf08488e.html>.

The comments sent in by individuals have been consolidated into a 9.6 Mb (9,817,652 bytes) PDF file and comments sent to Industry Canada by Associations, Companies and interested groups (including Amateur Radio Clubs) are set up as separate links.

SuitSAT is now planning to launch 2 Feb.

SuitSat Readies for Operation on 145.990 MHz

Now is the time to begin preparing your amateur radio station to receive signals from SuitSat, the most unusual Amateur Radio satellite ever orbited. SuitSat amateur radio equipment will be installed inside a surplus Russian Orlan spacesuit. It will become an independently orbiting satellite once it is deployed by the crew of the International Space Station during an extravehicular activity, tentatively planned for February 2nd, 2006. Further info at:

<http://www.amsat.org/amsat-new/index.php>

RADIO HF

TELEPHONE & FAX: 450-671-3773

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

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

E-MAIL/COURRIEL:
info@radiohf.ca

Sheldon Harvey, Prop.
VE2SHW

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,
WILSON, WORKMAN

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

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

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

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