

marcOgram

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



Volume 47, Number 3

November 2001

“WHAT DOES MAKE THE WEATHER?”

Wednesday 28, 2001

Ragchew and Fleamarket: 19:30

Club meeting: 20:00

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

In Canada weather is always a topic of conversation. Frequently weather phenomena bring amateur radio into action whether it be the 1998 ice storm, a hurricane or other severe storm. Weather also can affect radio propagation. Ed Cowell is a retired meteorologist with Environment Canada and is heard on CJAD radio and he will be discussing this fascinating topic at our November meeting.

A WORD FROM THE PRESIDENT

Hello,

In general autumn has treated us well. We have had some good weather which has permitted us to complete the work at the MAB and also to get the Red Cross station 90% operational. Hopfully the weather will hold for everyone to get any pre-winter outdoor inspections and repairs completed.

Speaking of the weather this month's topic should be of interest to everyone. Not only is weather, and its forecasting, a common topic of discussion among Canadians but the weather influences our hobby in various ways. We all hope for good weather on the weekend we need to put up an antenna or do other outdoor work. Those active in VHF also are aware of the effects which temperature inversions have on propagation. Thunderstorms too have their effect and sever weather of

various forms can require the services of Amateur Radio to provide emergency communications - remember the Ice Storm?

Those of you who attended the last meeting noted the adsence of two of our members. Ken Fraser, VE2KLF is recovering from eye surgery and we wish Ken a speedy and permanent recovery and hope to see him at the meeting this month. Don Dashney's, VE3RM, nephew passed away unexpectedly on October 26 and the funeral was the day of our meeting. Our sympathy goes out to Don and his family.

At the AGM the incumbent directors were acclaimed to another term. Two items were deferred to our regular November meeting. While Ken Fraser has not yet completed the audit we will take care of the reading of the 1999 AGM minutes.

73 de Jim, VE2VE

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Editor:
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 White Cane Members.....\$12.00
 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
 jrhay@HayA.qc.ca
 Vice President: Steven Faguy, VA2SMF va2smf@rac.ca
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 Treasurer: Vernon Ikeda, VE2MBS.....514-684-7944
 ve2mbs@rac.ca

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 dash@hawk.igs.net
 Paul MacDougall, VA2YQ
 Earl Paris, VE2ESP.....514-524-4633
 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.

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

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

November 28 - TBA
 January 30 2002 - TBA
 February 27 2002 - TBA
 March 27 2002 - TBA
 April 24 2002 - TBA
 May 29 2002 - Show and Tell

Radio Classes

At this time we plan to start a basic course early in the new year. Details to be confirmed, but we will likely run the same as last year, on Saturday mornings.

Hamfest

Montreal Amateur Radio Club Hamfest and Fleamarket, Saturday, April 13, 2002 - LaSalle (Montreal), Quebec. Royal Canadian Legion Branch 212 (LaSalle, QC), 7771 Bouvier corner Shevchenko. More details in the upcoming months. Your directors look forward to your assistance with both planning and running the hamfest.

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

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FROM THE EDITOR'S DESK

Unfortunately Craig's father who has been seriously ill recently passed away over the night of November 17-18. Craig had asked me to take care of this month's issue when his father's condition worsened on Saturday. Whether expected or not the passing of a close family member is always a shock. Our thoughts, prayers and sympathy go to Craig and his family.

73 de Jim, VE2VE

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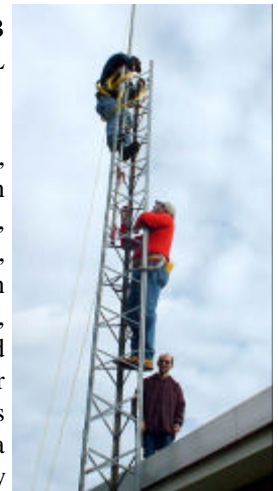


MAB ANTENNA RAISING

As we previously reported the Montreal Association for the Blind (VE2MAB) Radio Room has moved to a room in the former Penfield Residence. In July the antennae and tower were taken down and stored and in September a new tower base was installed and the bottom section installed. On November 3, 6 10 and 13 the tower was re-installed and the antennas

remounted and tested. The VE2MAB station is now ready for the ARRL phone Sweepstakes contest.

Thanks go to Don Dashney, VE3RM, Steven Donovan, VE2OCT, Shawn Englehart, VA3STE, Steven Faguy, VA2SMF, Mac McDougall, VA2YQ, Sheldon Werner, VA2SH, Vernon Ikeda, VE2MBS, Raymond Faguy, VE2SJA, Richard Allix, VE2ARW and Yi Zhao, BA4RE, for their participation in the project. Thanks also are due to the Concordia



University Amateur Radio Club for their forbearance when the Nov. 3 worksession ran longer than expected and resulted in the postponement of work scheduled at the Hall Building. Also I hope that the students of the code class will forgive the schedule re-arrangement and move of the class occasioned by the November 10 work to install the HF beam.

A good job was done by all

73 de Jim.

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NEWS FROM IARU

WRC-2003 Dominates Discussion at IARU Council Meeting

The Administrative Council of the International Amateur Radio Union met on 6-8 October 2001 in Guatemala City, Guatemala, following the 14th General Assembly of IARU Region 2. The principal business at the Guatemala City meeting was to continue preparations for WRC-2003, which has several items of importance to the amateur services on its agenda.

At its Guatemala City meeting the Administrative Council took the following actions:

1. The status of IARU preparations for WRC-2003 was reviewed. The agenda items of concern include harmonization of amateur and broadcasting allocations near 7 MHz, adequacy of HF broadcasting allocations below 10 MHz, possible revision of Article S25 of the international Radio Regulations, changes to terms and definitions in Article S1 as a result of amendments to Article S25, review of provisions concerning the formation of amateur call signs in Article S19, additional allocations for Little LEO satellites, study of a possible allocation to the earth

exploration-satellite service for synthetic aperture radars (SARs) near 435 MHz, and possible identification of globally harmonized frequency bands for use by agencies and organizations dealing with public protection (such as police) and disaster relief. IARU objectives with regard to these agenda items were affirmed.

2. The IARU Council adopted the following resolution:

Considering the approval without opposition of ITU-R Recommendation M.1544, which sets out the minimum qualifications of radio amateurs, recognizing that the Morse code continues to be an effective and efficient mode of communication used by many thousands of radio amateurs, but further recognizing that the position of Morse as a qualifying criterion for an HF amateur license is no longer relevant to the healthy future of amateur radio, resolves that

1. member societies are urged to seek, as an interim measure, Morse code testing speeds not exceeding five words per minute;

2. setting aside any previous relevant decisions, IARU policy is to support the removal of Morse code testing as an ITU requirement for an amateur license to operate on frequencies below 30 MHz.

3. The ITU meetings at which IARU representation will be required for the coming year were identified, and the recommendations of the President and International Secretariat with regard to representatives to attend these meetings were reviewed.

4. The present and anticipated future requirements for radio spectrum allocations to the amateur and amateur-satellite services were reviewed, updated and approved.

5. The budget for 2002-2004 was adopted as submitted by the International Secretariat. The budget includes provision for financial contributions from the three regional organizations to defray a portion of the expenses.

6. The theme for World Amateur Radio Day, 18 April 2002, was selected as "Amateur Radio: Continuing Innovation in Communication Technology."

7. Preparations for IARU participation in upcoming ITU regional and world TELECOMs and Forums were reviewed.

8. The Council considered the ongoing discussions of reform of the ITU structure and agreed to continue to monitor these deliberations with regard to any changes affecting amateur radio.

9. The Council noted the growing popularity of the IARU HF World Championship and urged Headquarters Stations of member-societies to participate. The Council also urged the members of the regional executive committees to take part on an individual basis.

10. The Council received with thanks a report from the International Secretariat on new technologies being introduced in the amateur service and expressed appreciation for the contributions of the individuals responsible for these exciting developments.

11. Reports of IARU international coordinators and advisers were received. Retiring Beacon Project Coordinator Bob Fabry, N6EK, was thanked for his work.

12. Retiring Region 2 President Tom Atkins, VE3CDM, was applauded for his distinguished contributions to the work of the IARU and the Administrative Council during his 18 years of service as an officer of Region 2.

13. The next scheduled meeting of the Council will be held on 11-13 September 2002, in the vicinity of San Marino, immediately before the Conference of IARU Region 1.

Attending the meeting were IARU President Larry Price, W4RA; Vice President David Wardlaw, VK3ADW; Secretary David Sumner, K1ZZ; regional representatives Ole Garpestad, LA2RR, Tom Atkins, VE3CDM, Rod Stafford, W6ROD, Ron Szama, LU2AH, Fred Johnson, ZL2AMJ, and Y. S. Park, HL1IFM; and recording secretary Paul Rinaldo, W4RI.

(From the IARU web page: <http://www.iaru.org/re1011008.html> - for more information, look at the web page <http://www.iaru.org/news-releases.html>)

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CONTEST CALENDAR

Don't forget the RAC Winter Contest. It runs from 7 PM EST Friday December 28 to 7 PM EST Saturday December 29 All bands 160 to 2M, phone, CW or mixed modes

With the good conditions now prevailing on 10 the ARRL 10M test should be fun. You can enter on SSB or CW or both. Also try the VHF Sweepstakes on Jan 27 - 29. There will be activity on the simplex channels (except 146.52 MHz).

More contests including full rules can be found on the net. Check: <http://www.hornucopia.com/contestcal/index.html> This site has concise rules etc. for the current week's contests.

November, 2001

CQ Worldwide DX Contest, CW 0000Z Nov 24 -2400Z Nov 25

December, 2001

ARRL 160-Meter Contest	2200Z Dec 7 - 1600Z Dec 9
ARRL 10-Meter Contest	0000Z Dec 15 - 2400Z Dec 16
28 MHz SWL Contest	0000Z Dec 15 - 2400Z Dec 16
RAC Winter Contest	0000Z Dec 29 - 2400Z Dec 29
Stew Perry Topband Challenge	1500Z Dec 29 - 1500Z Dec 30

January, 2002

Japan Int. DX Contest, 160-40m	2200Z Jan 11 - 2200Z Jan 13
North American QSO Party, CW	1800Z Jan 12 - 0600Z Jan 13
North American QSO Party, SSB	1800Z Jan 19 - 0600Z Jan 20
ARRL January VHF Sweepstakes	1900Z Jan 19 - 0400Z Jan 21
CQ 160-Meter Contest, CW	2200Z Jan 25 - 1600Z Jan 27

February, 2002

Vermont QSO Party	0000Z Feb 2 - 2400Z Feb 3
New Hampshire QSO Party	0000Z Feb 2 - 2400Z Feb 3
10-10 Int. Winter Contest, SSB	0001Z Feb 2 - 2400Z Feb 3
YL-OM Contest, CW	1400Z Feb 2 - 0200Z Feb 4
North American Sprint, Phone	0000Z - 0400Z Feb 3
CQ/RJ WW RTTY WPX Contest	0000Z Feb 9 - 2400Z Feb 10
YL-OM Contest, SSB	1400Z Feb 9 - 0200Z Feb 11
RSGB 1.8 MHz Contest, CW	2100Z Feb 9 - 0100Z Feb 10
North American Sprint, CW	0000Z - 0400Z Feb 10
ARRL Inter. DX Contest, CW	0000Z Feb 16 - 2400Z Feb 17
CQ 160-Meter Contest, SSB	2200Z Feb 22 - 1600Z Feb 24
RSGB 7 MHz DX Contest, CW	1500Z Feb 23 - 0900Z Feb 24

73, Don VE3RM

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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>

Saturday, February 2
 NPARC Big Event 24 St. Catharines, Ontario
 Location: Canadian Auto Workers Hall, 125 Bunting Road, St Catharines, Ontario
 Vendors 07h00, Public 09h00 to 13h00 Admission \$6.00, Tables \$20.00 (includes 1 admission)
 Talk-in VE3NRS 147.240 (+) Table reservations call Brian at 905-386-6826 or E-Mail ve3xtr@rac.ca
 Other information call John at 905-227-0155 or E-Mail va3boz@rac.ca
 Web page: <http://www.qsl.net/ve3vm/>

Saturday, February 16 Burlington Spring Fleamarket - Burlington, Ontario
 Location: Royal Canadian Legion - 828 Legion Road, Burlington, Ontario
 Vendors 07h00, Public 09h00 to 12h00. Admission \$5.00 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>

February 23, 2002
 Northern Vermont Winter Hamfest - ARRL Vermont State Convention Milton Hamfest - Milton, Vermont
 Location: Milton High School, Route 7, Milton, Vermont
 Time: 08h00 until 13h00.
 Vendors: Early Vendors Entrance (via rear door) 06h30 - Regular Vendor Entrance (via main door) 08h00 - Call or write for more information.
 Admission: \$3.00 U.S. 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@arrl.net Web page: <http://www.ranv.org/milton.html>

Saturday, March 23, 2002
 HAMEX 2002 - Brampton, Ontario
 Location: Brampton Fall Fairgrounds, Heart Lake Road corner of Old School Road, Brampton, Ontario
 Time: 09h00 to 13h00 Talk-in VE3PRC 146.880 (-) or VE3MIS 145.430 (-).
 Information: Jason Staines - VA3NGV - va3ngv@rac.ca - 416-878-0576 or Lorne Jackson - VE3CXT - ve3cxt@rac.ca - 905-858-8594

Saturday, April 13
 Montreal Hamfest and Fleamarket LaSalle, QC
 Location: Royal Canadian Legion Branch 212 (LaSalle), 7771 Bouvier corner of Shevchenko. STCUM 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>

That's all for now, 73 de Vernon

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SCANNERS HEAR IT FIRST BY FREDERICK HART, VE2LSQ

One November a year, I have officially seen 46 of them now. But this one I am living in the new "mega-mess". "Limbo" seems to be an appropriate name for our new city in the county of "Rumour Mill". We are all in the same basket and there are so many rumours as to what is going to change and what remains the same I now know that this must be that "hand-basket" they speak of and we're all going to H E double hockey sticks in it!

The next several months are going to be very interesting in our hobby. Frequency changes, ten code changes, apparatus displacement, interfacing should keep us busy getting used to it all. I'm up for the challenge, are you?

Some of the municipalities are toying with the new ten codes and vehicle numbers already. December 1st. seems to be a common date for the rest of the cities to change a la Montreal fire codes. The Regie LaSalle-Verdun have been giving 10-10 to report "working fire in progress" will use it now to report that working fire is out. Finally a uniform ten code system (its only been in demand since 1972). Now only three types of codes to listen fire, police and ambulance. Scanning will get easier for some and more complex for others. Looks like the trunk tracker scanners will still play an important role wherever they settle in the public security ministry's bank of frequencies if you want to follow the action completely. As for the fire service on the island of Montreal we will share with you this month the new station

assignments as we know it (our info has been saught after, 56
 checked and confirmed on several fronts). The mega department 57
 will operate 66 manned stations with numbering from 2 to 79. 58
 Some numbers left out may be possible future new stations? Who 61
 knows? Only one Montreal station will change, that is number 8. 62
 They will transfer the crew to a west island station and Montreal 63
 East will become number 8. The other numbers are assigned as 64
 follows. 65

- 2 Île Ste-Hélène (période estivale)
- 3 256, rue Young, Montréal
- 4 5260, rue Van Horne, Montréal
- 5 75, rue Ontario Est, Montréal
- 8 Caserne de Montréal-Est
- 9 8100, boul. St-Michel, Montréal
- 10 1445, rue St-Mathieu, Montréal
- 13 3250, rue Ste-Catherine Est – Montréal
- 14 11575, 26è Avenue, Rivière des Prairies – Montréal
- 15 1255, rue Richmond, Montréal
- 16 1041, rue Rachel, Montréal
- 17 4240, rue Charleroi, Montréal-Nord
- 18 12012, boul. Rolland, Montréal-Nord
- 19 2000, rue de Lorimier, Montréal
- 20 920, rue St-Urbain, Montréal
- 21 6025, rue Lavoisier, St-Léonard
- 22 5455, Antoine-Dagenais, St-Léonard
- 23 523, place St-Henri, Montréal
- 25 1212, rue Drummond, Montréal
- 26 2151, avenue Mont-Royal, Montréal
- 27 5353, rue Gatineau, Montréal
- 28 Ville d'Anjou
- 29 5375, 1ère Avenue, Montréal
- 30 5, rue Laurier Ouest, Montréal
- 31 7041, rue St-Dominique, Montréal
- 33 6040, rue Monk, Montréal
- 34 5369, chemin de la Côte-St-Antoine, Montréal
- 35 10827, rue Lajeunesse, Montréal
- 37 795, rue Jarry Est, Montréal
- 38 14201, rue Sherbrooke Est, Montréal
- 39 2915, rue Monsabré, Montréal
- 40 8639, Avenue Pierre de Coubertin, Montréal
- 41 7405, rue Champagneur, Montréal
- 42 4180, rue de Salaberry, Montréal
- 43 1945, rue Fleury Est, Montréal
- 44 12145, boul. Rivière-des-Prairies, Montréal
- 45 5100, rue Hochelaga, Montréal
- 46 4760, rue Cumberland, Montréal
- 47 2111, rue St-Zotique, Montréal
- 48 3616, rue Hochelaga, Montréal
- 49 10, rue Chabanel Ouest, Montréal
- 50 6490, 30è Avenue, Montréal
- 51 Ste-Anne-de-Bellevue
- 52 Baie d'Urfé
- 53 Beaconsfield
- 54 Kirkland
- 55 Pointe-Claire

- Caserne de l'Île Bizard
- Pierrefonds
- Roxboro
- Dollard-des-Ormeaux
- 155, avenue Avro, Dorval
- 530, boul. Bouchard, Dorval
- Lachine
- LaSalle
- Verdun
- Île des Soeurs
- 5500, Bois-Franc, St-Laurent
- 2727, Poirier, St-Laurent
- 820, St-Germain, St-Laurent
- Mont-Royal
- Outremont
- Westmount
- Montréal-Ouest
- Côte-St-Luc
- Hampstead

Vehicle numbering

- 100 Chiefs
- 200 Pump
- 2000 Second pump in service
- 300 Quint (Ladder/Pump)
- 400 Aerial Ladder
- 500 Manpower Squad
- 600 Multifunction Pump
- 700 Aerial Platform
- 800 First Responder
- 900 Other Maintenance Vehicles
- 1000 Mobile Command Post
- 1100 Specialized Equipment Vehicle
- 1200 First Aid (Auxilliary Firemen)
- 1300 Mobile Canteen
- 1400 Bus
- 1500 Zodiac
- 1600 Air Bottle Truck
- 1700 Hazardous Materials
- 1800 Motor Boat (not Zodiac)
- 1900 Trailer
- 7000 50 Metre Aerial Platform

That's it for another year as we are out of print in
 December. So may I wish you, the readership, and fellow
 scanner nuts the best of the holiday season. Be safe, and keep
 getting those earfuls.

Now lets see...

Dear Santa,

I was a good boy this year. My list to you is as follows.
 A new trunk tracker scanner and LOTS of batteries.

Ho ho ho,
 Frederick

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NEWS FROM RAC

FROM THE RADIO AMATEURS OF CANADA NEWS PAGE HTTP://WWW.RAC.CA/DNEWS.HTM

Wrong date for Canada Winter Contest in TCA

Dave Shipman (VE7CFD), RAC Winter Contest Manager has caught two errors on page 57 of the November/December issue of The Canadian Amateur relating to the RAC Winter Contest.

The correct date for the Contest is 0000 UTC to 2359 UTC, 29 December 2001.

The second error is the abbreviation for Nunavut which should be [NU].

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DX NEWS

From the Ohio-Penn DX Bulletin #537

SPECIAL MARCONI ACTIVITY..... THE 100TH ANNIVERSARY OF MARCONI'S HISTORIC TRANS-ATLANTIC RADIO TRANSMISSION

The Marconi Radio Club, W1AA and The Falmouth Amateur Radio Association Amateur Radio operators are making plans to celebrate a Marconi world historical event. December 12, 2001, will mark the 100th anniversary of the first Trans-Atlantic radio transmission by Guglielmo Marconi. That signal was a series of " S S S " transmitted on CW across the Atlantic from Poldhu, Cornwall England to St John's, Newfoundland. The Marconi Radio Club will be using the call sign W1AA/CC (between December 11-16th) and will be operating from Cape Cod, Massachusetts, U.S.A. the location of Marconi's 1903 Trans-Atlantic radio station. Marconi's 1903 callsign was " C C ". Check out the following Web site for operating times, frequencies and modes of operation for W1AA/CC:

<http://www.qrz.com/database?callsign=w1aa>

During the month of December, Nuccio/I0YKN and Simone/IZ0BTV will be active with the special callsign IU0M in celebration of the first wireless contact across the Atlantic Ocean (one century ago) made by Guglielmo Marconi between Poldhu, Cornwall and St. John's of Newfoundland, on the date December 12th, 1901. QSL by bureau or direct to QSL Manager I0YKN, Nuccio Meoli, Via Della Stazione, SNC, 04010 Cori, Lt, Italy.

Alfredo, IK7JWX, will also be active during the weekends of December with the special callsign IR7GM to celebrate the 100th anniversary of Guglielmo Marconi's wireless contact across the Atlantic Ocean. QSL via the bureau or direct to IK7JWX.

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CLASSIFIED



Earl Paris, VE2ESP, Ray Faguy, VE2SJA, and Paul MacDougall, VA2YQ, checking the top tower section at the MAB.



André Sipos, VA2ASS giving the talk after the Annual General Meeting.



RADIO HF

Sheldon Harvey, Prop.

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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, KENWOOD, MAHA-REXON, 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)

CHEROKEE, COBRA, ICOM, KENWOOD, MAXON, MIDLAND, MOTOROLA, UNIDEN

ANTENNAS / ANTENNES

ALPHA DELTA, ANTENNA SUPERMARKET, COMET, CREATE, CUSHCRAFT,
DIAMOND, HUSTLER, L.F. ENGINEERING, LARSEN, MFJ, OUTBACKER,
SCANMASTER, TELEX HYGAIN, VALOR/PRO-AM, VAN GORDEN, WORKMAN

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(WRTH), CQ, CRB, ANDRE GUEVIN, HARUTEQ, HIGHTEXT, IBS (PASSPORT),
KLINGENFUSS, LOOMPANICS, NATIONAL RADIO CLUB, RSGB, RADIO AMATEUR
CALLBOOK, RADIO AMATEURS OF CANADA, RADIO AMATEURS DU QUEBEC,
SCHIFFER BOOKS, SONORAN, TAB, TIARE, UNIVERSAL RADIO