



**HQ Infoline**  
A Service From  
New Zealand Association of  
Radio Transmitters



NZART Headquarters Infoline Issue 212  
08-AUGUST-2010  
NZART Website: <http://www.nzart.org.nz/>

Greetings

Welcome to Headquarters-Infoline a twice-monthly bulletin of news from NZART Headquarters e-mailed directly to Branches, the amateur radio packet Bulletin Board Service and to others that subscribe through the NZART Website at:

<http://www.nzart.org.nz/lists/infolinelist.html>

Past and present Infolines can be found at:

<http://www.nzart.org.nz/infoline/index.html>

Where HTML, PDF and DOC formats can be found for the 2010 e-mailed Issues of Infoline.

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**From The Editor Break-In ZL3IB**

The invoice that came with your Break-In shows the wrong rebate. The correct rebate is \$15 **NOT** \$10 as printed.

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**From The Business Manager ZL2TDM**

**Debby Says...**

**Subscription Invoices**

The subscription for 2011 invoice will be included with your next Break In due out at the beginning of August.

For those members who are currently paying by regular automatic payment, please disregard this notice as your payment will continue to cover your membership.

For those wishing to take advantage of the rebate, please ensure your payment is received here on or before 30 November 2010.

### **Elections for Council**

A call for nominations to Council will be made in the coming months. It's time for you all to consider who you may wish to represent your area in this important role.

Please remember the person you nominate will speak for you all and take action in the best interests of amateur radio and the Association, therefore it is imperative you speak as a collective when placing nominations.

### **Call Book**

The next Call Book will be published in October this year, please remember if you have recently moved that YOU need to contact Radio Spectrum on 0508 776 463 and advise your new address details. While you may have advised me of your new details I am unable to change the Ministry's database, therefore what ever address they have on file will be published in Call Book.

Talk soon...Debby ZL2TDM

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### **Want to Bone up on Wireless Tech? Try Ham Radio**

Abundant spectrum resources and an engaged research community are drawing wireless experimenters back into a hobby that many had forgotten.

By John Edwards

John D. Hays, an IT manager in Edmonds, Wash., devotes most of his spare time these days to helping develop a communications system that's designed to integrate portable two-way radios with the global telephone network. The project's goal is to create a failure-proof voice communications infrastructure that can immediately connect first responders with the outside world.

"Individuals with radios in the field could interconnect with the telephone system even when their cell phones are shut down by an emergency," he says. This would be useful in all manner of disasters, from natural to man-made....

[http://www.computerworld.com/s/article/9139771/Want to bone up on wireless tech Try ham radio](http://www.computerworld.com/s/article/9139771/Want_to_bone_up_on_wireless_tech_Try_ham_radio)

John ZL1GWE

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### **TEXT, HTML or PDF For Infoline E-mail?**

HQ Infoline is send to subscribers as an embedded (enclosed, contained within) HTML file. To branches an attached MSWORD copy is added.

Several subscribers to Infoline have approached me asking for Infoline to be in PDF format when sent. It would have to go as an attachment to the e-mail. I will leave it up to you to decide on what you would like by sending me one of the e-mails below.

Jamie ZL2NN

PLEASE NOTE: The links below are e-mails with pre-defined subject-line text

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[Subject:SUBSCRIBE TO HQ INFOLINE HTML](#)

as it has been for some time

SIZE: ~60 kB with MSWord formatting. This format has been the standard up to now.

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[Subject:SUBSCRIBE TO HQ INFOLINE TXT](#)

SIZE: 20 kB or less - smallest. No formatting.

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[Subject:SUBSCRIBE TO HQ INFOLINE ATTACHED PDF](#)

SIZE: 100 kB plus - largest. Images easily added with an increase in sent size.

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**From the NZART Web at:**

<http://www.nzart.org.nz/infoline/index.html>

E-mailed 2010 Infolines are available in MSWORD, PDF and HTML formats.

An Infoline starts life as a HTML file.

Jamie ZL2NN

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### **Buildathon attracts new recruits to amateur radio**

Thursday, 8 July 2010, 3:39 pm

Press Release: Christchurch City Council

Christchurch youngsters are able to build their own radio receiver at the AM Radio Buildathon, part of the winter school holiday festival TV2 KidsFest.

Aimed at 10- 13-year-olds, the event shows how a radio works and about the hobby of amateur radio, enabling them to build a free kitset of electronic parts.

Coordinator David Searle (whose radio callsign is ZL3DWS) says there has been a great turnout to the two AM Radio Buildathon events held so far, of both boys and girls.

As well as being fun, it is also a great entry point into technology careers, he says. "Learning about this hobby can also lead to careers within the thriving Canterbury electronics industry, and participants can learn how to take the hobby further through the Amateur Radio license exam."

The final AM Buildathon will be held on the morning of Thursday 15 July at Kendal Primary School Hall in Bishopdale. More information at

<http://sites.google.com/site/zl3buildathon/>

- Ends -

David ZL3DWS

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### **FMTAG NOTES FOR AUGUST 2010**

#### **DIGITAL TV SWITCHOVER**

The Government has decided that all analogue-modulated TV transmissions in the VHF and UHF broadcast bands, which include Channel 39, will close down in March 2015, or at some earlier date, and that the upper end of the UHF television band will be cleared of television, so that the vacated spectrum can be used for next-generation mobile communications.

One consequence of these decisions is that the existing television transmissions will need to convert to digital and be fitted into about half of the present spectrum, requiring that their transmission parameters need to be more closely defined than at present.

For the Amateur Television service this means that each Radio Licence for analogue-modulated TV, engineered to the standards specified in MED Public Information Brochure Number 38 (also known as PIB38 on the MED web site) needs to be replaced by a Spectrum Licence for analogue-

modulated TV, expiring in March 2015, engineered to the much higher standards specified in MED Public Information Brochure Number 39 (also known as PIB39 on the MED web site).

As part of the process, the MED has cancelled all of the existing Radio Licences for Channel 39 TV Repeaters. Operators of Channel 39 TV Repeaters need to close them down to avoid receiving an Infringement Notice from the MED.

Operators wishing to operate their analogue-modulated Channel 39 TV repeaters, between now and the 2015 Digital TV Switch-Over, need to apply for a Spectrum Licence. FMTAG has sent an information package to the following Branches, advising them of the the options:

Whangarei

Auckland VHF

Hamilton

Gisborne

Wellington VHF

Motueka

Christchurch

North Otago

Otago

Any other Branches wishing to receive a copy of the information package should contact FMTAG at:

[fmtag@nzart.org.nz](mailto:fmtag@nzart.org.nz)

### **SRD INTERFERENCE TO 70cm REPEATERS**

FMTAG has received enquiries from Branches suffering Short Range Device (SRD) interference on their 70 cm repeaters.

Addition of Continuous Tone Coded Squelch to the repeater does not require licensing action. However, a change of transmit frequency requires the creation of a new licence. Branches can start the licensing process by completing NZART Form 10 and sending it to:

[fmtag@nzart.org.nz](mailto:fmtag@nzart.org.nz)

### **PROPOSALS**

Branch 26 Nelson has applied to relocate its 890 repeater to Fringed Hill North, Topo50 map reference BQ26 265.95 270.15. An engineering evaluation confirms that there will be no interference to other stations and that the repeater transmit frequency can remain on 438.900 MHz and the repeater receive frequency can remain on 433.900 MHz.

Branch 71 Rodney has applied to relocate its 730 repeater to Moirs Hill Road, Topo50 map reference AZ31 475.39 625.68. An engineering evaluation confirms that there will be no interference to other stations and that the repeater transmit frequency can remain on 147.300 MHz and the repeater receive frequency can remain on 147.900 MHz.

**FINAL RECOMMENDATIONS** approved by NZART Council at its August meeting.

Branch 11 Gisborne has applied for a 2 metre APRS Digipeater at Whakapunake, Topo50 map reference BH42 992.89 915.63. An engineering evaluation confirms that there will be no interference to other stations and that the transmit and receive frequency will be 144.575 MHz.

Branch 30 Otago has applied for a 70 cm repeater at Rudd Road, Topo50 map reference CE17 032.61 204.29. FMTAG has selected a repeater transmit frequency of 439.150 MHz. The associated repeater receive frequency will be 434.150 MHz. An engineering evaluation confirms that there will be no interference to other stations.

Branch 81 Waikato VHF has applied to relocate a simplex linking transceiver from Te Aroha to Te Uku, Topo50 map reference BD32 733.36 067.57. An engineering evaluation confirms that there will be no interference to other stations and that the transmit and receive frequency can remain on 430.2125 MHz.

Branch 81 Waikato VHF has applied for a simplex linking transceiver at Te Uku, Topo50 map reference BD32 733.36 067.57. FMTAG has chosen a transmit and receive frequency of 439.350 MHz. An engineering evaluation confirms that there will be no interference to other stations.

Branch 81 Waikato VHF has applied for a simplex linking transceiver at Te Weraiti, Topo50 map reference BD36 558.18 103.12. FMTAG has chosen a transmit and receive frequency of 439.350 MHz. An engineering evaluation confirms that there will be no interference to other stations.

Branch 81 Waikato VHF has applied to relocate its 2 metre repeater from Te Aroha to Te Weraiti, Topo50 map reference BD36 558.18 103.12. An engineering evaluation confirms that there will be no interference to other stations and that the repeater transmit frequency can remain on 146.950 MHz. The associated repeater receive frequency will be 146.350 MHz.

Branch 88 Tauranga Emergency Communications has applied for a 2 metre repeater at TECT All Terrain Park, Topo50 map reference BE36 749.37 969.25. FMTAG has chosen a repeater transmit frequency of 147.025 MHz and associated repeater receive frequency of 147.625 MHz. An engineering evaluation confirms that there will be no interference to other stations.

## COMMENTS AND APPLICATIONS

Please send your comments and suggestions on the above matters, and on any other FMTAG matters, by e-mail to:

[fmtag@nzart.org.nz](mailto:fmtag@nzart.org.nz)

Applications for repeaters, beacons, digipeaters, point-to-point links, and so on, should be made on the latest version of FMTAG Form 10. The latest versions of FMTAG Form 10, and the explanatory Form 10A, are available at:

<http://www.nzart.org.nz/fmtag/index.html>

Completed forms should be sent by e-mail to:

[fmtag@nzart.org.nz](mailto:fmtag@nzart.org.nz)

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## The Revised GURL for Short Range Devices (SRDs)

Members may be aware that the MED has relaxed the conditions of use for Short Range Devices. The new conditions, which were put in place without any consultation with NZART, permit the use of walkie-talkies, wireless headphones, audio senders, etc., typically featuring very annoying, long duration transmissions in the input band of most of our 70 cm repeaters.

There is also a new allocation at 3.640-4.040 MHz for Auditory Aids which has potential to interfere with amateur signals in the 80 m band.

The previous GURL permitted the same 433.05 - 434.79 MHz frequency range and output power (25 milliwatts e.i.r.p. peak power), but restricted the use to Telemetry and Telecontrol only, modes that typically feature, somewhat annoying, but short duration transmissions.

All of the National System repeaters use input frequencies above 434.79 MHz and are not affected by the GURL change.

NZART was not aware that this change was being considered and the ALO is urgently following the matter up with the MED with a view to getting the 3.5 MHz and 430 MHz changes, which were not discussed with NZART, reversed.

There are a number of problems that Council can foresee, such as these devices creating non-amateur repeater traffic on amateur repeaters, while the transmitting party is using a legal device, creating a frequency-assignment dilemma for the trustees and the Ministry's technical officers, or an audio sender being interrupted by a repeater user!

If a repeater is interfered with by any devices which have just recently become legal, it is important that you contact your NZART Councillor immediately as well as the Ministry. Repeaters are legal and licensed fixed stations protected from interference by law.

FMTAG has presented some work-arounds if a repeater is constantly interfered with, but the cost and effort involved makes this a last resort step. These changes could also increase the interference caused to these devices.

NZART officers are working to resolve this situation and will be happy to brief members when and if it becomes necessary to take further official action over this issue, or to educate users and retailers about this matter.

The SRD GURL is available on the RSM website at:

<http://www.rsm.govt.nz/cms/licensees/types-of-licence/general-user-licences/short-range-devices>

You can use the RSM SMART system to see the licensed services in these frequencies.

Select search for a licence, enter the frequency limits (433.05 to 434.79 MHz) and select search. "Amateur Repeater - Mobile Transmit" means it is a repeater input.

NZART Council August 2010

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### **Amateur Radio In Ethiopia - Help Needed**

From Gary ZL2IFB, I have received the following: (ED)

Dear Jamie,

I don't know whether this is suitable for Infoline or Break In, but I'm hoping NZART will be able to help publicise the following appeal.

I am involved in a voluntary project called ARIE (Amateur Radio In Ethiopia) to get some ham gear together and send it out to Sid ET3SID for four Ethiopian students.

Please visit:

<http://www.nzart.org.nz/html/2010/04-news.html#aug03>

For further and contact information.

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### **NZART Council Working Action Points**

Updated July-2010

- *Repeater and beacon financial processes,*
- *Member only reflector,*
- *Amateur Radio promotional material,*
- *Using copyright material,*
- *How to improve NZART membership-A councillor's paper,*
- *NZART promo brochure,*
- *Members correspondence,*
- *ALO to approach MED regarding "E" call signs,*
- *Examination Supervisor application, and*
- *Taranaki Branch 87 AREC Section.*

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## Did You Know That Exam Candidates Can Join NZART and Get One Year Free?

For details see the last section of the Radio 4A Form at:

<http://www.nzart.org.nz/exam/examprocedures.html#examproc>

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### Upcoming Events

#### Hamilton Amateur Radio Club MARKET DAY Saturday August 14th 2010

Hamilton Table Tennis Club Rooms

Edgecumbe Street

Vendors from 8.00 am Buyers from 10.00 am

Table space at \$20 per metre pre-paid

\$25 per metre on the day

All enquiries to: Market Day,

Hamilton Amateur Radio Club,

P0 Box 606, Hamilton

E-mail: [harcmday@nzart.org.nz](mailto:harcmday@nzart.org.nz)

Web: [zl1ux.tripod.com/market.htm](http://zl1ux.tripod.com/market.htm)

#### Western Suburbs RC NZART Branch 03 Used Equipment Sale

Western Suburbs RC NZART Branch 03 Used Equipment Sale

will be 9th October 2010 at the

Rosebank Rd Primary School

217 Rosebank Rd

Avondale Auckland.

73 ian zl1rca

#### 2010 Silverfern Rally 14-20 Nov 2010

<http://www.nzart.org.nz/html/2010/02.html#feb03>

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#### UPPER HUTT NZART Conference 2011 - Pre-registration

Details can be found at:

[Conference-2011-pre-registration-form.pdf](#)

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### Contest News

#### VHF/UHF/SHF Contest Notes

The next contest is the MICROWAVE CONTEST, all bands 614 MHz and up, on Saturday the 2 and Sunday the 3 of OCTOBER 2010. The operating times are: Saturday 1700 to 2300 NZT and Sunday 0700 to 1300 NZT.

The rules are available at: <http://www.vhf.org.nz/VHF-UHF-SHF-ContestRules>

Logs should be sent within two weeks, to:

[zl2wa@clear.net.nz](mailto:zl2wa@clear.net.nz) with Contest Log in the subject line,

or by post to:

Contest Manager, Wellington VHF Group, P.O. Box 12-259, Thorndon, Wellington

Wellington VHF Group Website <http://www.vhf.org.nz>

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### HF Contests

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WIA VK Remembrance Day 14/15-AUG [To Rules »](#)

Lighthouse/Lightship 14/15-AUG [To Rules »](#)

ALARA Contest 28-AUG [To Rules »](#)

Doug Gorman FREQ MEAS 06-SEP

Rules withdrawn-not up-to-date.

Try Wellington VHF Group at <http://www.vhf.org.nz/> »

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**For contests not mentioned here and for a list of contests that have ZL participation in, please see the NZART Web Contest page and the latest "Contest Manager's Report" at:**

<http://www.nzart.org.nz/contests/index.html>

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### **General Information For Break-In and HQ Infoline**

#### **Break-In - From the Break-In Editor John ZL3IB**

- **Closing Date Reminder:** Copy for the SEPTEMBER/OCTOBER issue of Break-In closes on 10-SEPTEMBER-2010.
- **Document File Format:** Please do not send copy for publication as Word 2007.docx files; they cannot be processed. Please send in Word 2003 (or earlier).doc or \*.rtf file format.
- **Early receipt of copy is much appreciated.**
- **Break-In Contents Index** from 1947 can be found at:  
<http://www.nzart.org.nz/breakin/index/index.html>
- **To search the COMPLETE CONTENTS from 1947, use the page menu entry of:** "Search all index pages up to Jan 2010 HTML 435 kB" Found on the "Index for Break-In Volumes 20 to 82" page. All the yearly pages have been combined into one page for your convenience.  
<http://www.nzart.org.nz/breakin/index/all-bi-index.html> 433 kB  
Contact Infoline Editor, if copy of articles are wanted, at:  
[ZL2NN@nzart.org.nz](mailto:ZL2NN@nzart.org.nz)
- **Copy for the AREC Break-In Column - From Geoff ZL3QR:** The close-of-copy date is the 03-SEPTEMBER-2010 for articles for publication in the AREC COLUMN OF BREAK-IN. Photos, if available, to be on a separate floppy or CD (with captions), posted DIRECTLY TO US Call Book address. All other material can go to e-mail:  
[zl3qr@nzart.org.nz](mailto:zl3qr@nzart.org.nz) or [zl3ov@nzart.org.nz](mailto:zl3ov@nzart.org.nz).

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**The WIA Weekly News Bulletin and The ARRL Letter can be found at:**

**WIA Weekly News Bulletin:**

<http://www.nzart.org.nz/html/2010/wia-weekly-news.html>

**ARRL Letter:**

<http://www.nzart.org.nz/html/2010/arrl-weekly-news.html>

These are updated weekly, normally p.m. Friday.

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#### **Subscribe to and Un-Subscribe From Infoline**

Please send an e-mail to the address at the end of this bulletin or see instructions on the NZART web page at:

<http://www.nzart.org.nz/lists/infolinelist.html>

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## **Dates for Official Broadcast (OB) and Head Quarter's Infoline**

OBs FOR 2010

28-FEB 28-MAR 25-APR 30-MAY 06-JUN 27-JUN

25-JUL 29-AUG 26-SEP 31-OCT 28-NOV 19-DEC

**\*Next NZART Official Broadcast is on 29-AUGUST-2010\***

**\*Next HQ-Infoline e-mailed on SUNDAY 22-AUGUST-2010\***

INFOLINE 2010 SUNDAY

17-JAN 07-FEB 21-FEB 07-MAR 21-MAR 04-APR 18-APR 09-MAY 23-MAY

13-JUN 27-JUN 04-JUL 18-JUL 08-AUG 22-AUG 05-SEP 19-SEP

03-OCT 17-OCT 07-NOV 21-NOV 05-DEC 19-DEC

[Infoline on the web http://www.nzart.org.nz/infoline/](http://www.nzart.org.nz/infoline/)

Regards, Jamie Pye ZL2NN, Editor [zl2nn@nzart.org.nz](mailto:zl2nn@nzart.org.nz)