

**Christchurch West Amateur
Radio Club Inc.**



Official Newsletter

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What's on at the next meeting?"

**"The Design of Power and Audio Transformers"
A talk by John Dodgshun, design engineer at
Transformer Winding Services Ltd.**

Visitors and guests most welcome

26th January 2010

Visit the Br 56 web page; <www.radioamateurs.org.nz

Christchurch West Amateur Radio Club Inc.

NZART Branch 56

Clubrooms; Auburn Park, Upper Riccarton,

P O Box 31 095, Ilam, Christchurch 8444.

Br 56 web page; <www.radioamateurs.org.nz

<i>Branch Officers</i>			
<i>President</i>	Baden Melhuish	ZL3VI	384 1584
<i>Vice-President</i>	Keith Stanton	ZL3QH	358 4108
<i>Immediate Past Pres</i>	Mark Carshalton	ZL3BA	322 4518
<i>Secretary*</i>	Doug Pratt	ZL2BCF	322 9961
<i>Treasurer</i>	Peter Tyerman	ZL3IA	332 4885
<i>Committee</i>	Brent Officer	ZL3TUI	385 2742
	Mike Barnes	ZL3TMB	352 2294
	Maurice McNab	ZL3MEM	327 3710
	Bruce Smith	ZL3TFM	343 2432
	John Walker	ZL3IB	348 9084
<i>Trustees</i>	Des Borgfeldt	ZL3ACS	980 9705
	Baden Melhuish	ZL3VI	384 1584
<i>Auditor</i>	Roy Timms	ZL3AIB	358 6347
<i>Branch Officials</i>			
<i>Archivist</i>	Roy Timms	ZL3AIB	358 6347
<i>EMC Officer</i>	vacant		
<i>Free n'Easy Coordinator</i>	Graeme Johnstone	ZL3JO	981 5990
<i>Librarian</i>	Ron Rowlands	ZL3AIV	348 2747
<i>Morse Admin</i>	Des Borgfeldt	ZL3ACS	980 9705
<i>Morse coaching</i>	vacant		
<i>Newsletter editor #</i>	John Walker	ZL3IB	348 9084
<i>QSL cards</i>	Keith Stanton	ZL3QH	358 4108
<i>ZL3VV Station Mgr</i>	Maurice McNab	ZL3MEM	354 1958
<i>850 Repeater Mgr</i>	Doug Pratt	ZL2BCF	358 5004

***Please note change of Secretarial email address; <zl2bcf@nzart.org.nz>**
Newsletter editor <john.zl3ib@ihug.co.nz>

Annual subscription for 2009 is due NOW;

Individual \$35.00, Family \$40.00, Junior \$17.50

Treasurer's home address; 37A Penrith Ave, Chch 8002

Subs can be direct credited to our Westpac Account No. 030802 0590356 00

NB. Please ensure your name is against the bank payment.

If cheques are made "non transferable" or "account payee only" please ensure they are made out to "**Christchurch West Amateur Radio Club Inc.**"

The banks will not accept other names (e.g. Branch 56). Thank you

**General Meeting of the Christchurch West Amateur Radio Club
Tuesday 24th November 2009**

Present: Baden ZL3VI (Chairman), Doug (Secretary), 17 members and guests.

Visitors:

Apologies: Graham ZL3SJ, Dennis ZL3DEN, and Mike ZL3TMB.

Minutes: Confirmation of minutes of October 2009 meeting.

Matters arising: We are awaiting for a quote from Adler Glass for replacement of the remaining windows. Ron has offered to manufacture a metal cover for the kitchen waste pipe.

Correspondence

Inward: Ragchew, Hamlarks and Meridian.

Outward: Nil.

Financial: 60 financial members. Payments; Newsletters, Stamps, Wine for IARU event, Repeater License and NZART membership fees.

Free and Easy report: Video on "The RNZAF in Northern Ireland".

Classes Report: One candidate to sit at time to be confirmed.

General Business:

- 1 A silent auction that has been held for Avalon's radio gear concluded at the meeting.
- 2 Bruce offered some Yaesu hats sent to him by an NZ ham based in the US.

The formal part of the meeting closed at 1950.

Program

Another very interesting talk by David Bowie. David's topic was on his involvement in a mercy flight to rescue an American contractor from the Antarctic.

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Ham radio helps in the Haitian disaster

On Tuesday evening (19th) on TV One News there was a 5 minute clip on ZL1 ham Daniel Ayers talking about how he and ham radio is helping those in Haiti. You can see more about this in the following links;-

<<http://tvnz.co.nz/national-news/kiwi-helps-haiti-communication-lines-3334864/video>>

<<http://www.nzart.org.nz/html/2010/tv-interview-br65.html>>

News item from David Searle ZL3DWS

Christchurch West Amateur Radio Club Inc

Annual General Meeting 2010

The Annual General Meeting of the Christchurch West Amateur Radio Club
Inc

will take place at the Auburn Park Clubrooms
on Tuesday 23rd February 2010 at 7.30pm.

Agenda

Apologies

Minutes of 2009 AGM

Matters arising

President's report

Treasurer's report and Auditor's report

Free n'Easy Group report

Election of Officers;

President

Secretary

Committee

Trustees

Committee members

Vice-President

Treasurer

Editor QTC 56

Auditor

General business

Hon Sec; Doug Pratt ZL2BCF

Free and Easy

I have tendered my resignation to the Branch as Coordinator of the Group, for health reasons. A statement will be made shortly by the Branch Committee as to the composition of the person(s) responsible for the conduct of activities during 2010.

I wish to thank sincerely those members who supported me during my tenure in this position, and wish you all good luck. I am sure the Group will continue to prosper throughout the year and in the future

73, Graeme Johnstone ZL3JO

HAMADS

Wanted. Cross-needle SWR meter/tuner. Ken Duffy ZL4KD, Ph 03 351 8115 or text 027 462 0610

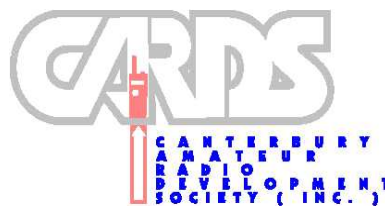
HAMADS in QTC56 are a free service to members.
Send to John ZL3IB at < john.zl3ib@ihug.co.nz >.

ZL3 BUILDATHON PROJECT UPDATE

Building New Hams



ZL3AF



Please include in your Club Calendars, Newsletters & Announce at Meetings

ZL3 Buildathon dates for 2010

As discussed at the Christchurch Combined Branches meeting September 28th 2009, dates have been set for a series of ZL3 Buildathons to be held in 2010.

These events are possible because of the tremendous support received from Branch 56, which in turn has helped secure a worthwhile grant from the Christchurch City Council.

- Saturday January 30th, 2010 - 9am-12pm
- Saturday April 18th, 2010 - 9am-12pm
- Weeks commencing 6th July and 12th July, 2010 - 9am-12pm - dates to be advised (School holidays).
- Saturday August 28th, 2010 - 9am -12pm

Some exciting and challenging kit sets have been created that most amateurs will have a lot of fun building. A small donation will be requested to offset the cost of a kit plus the legendary morning tea.

If you bring along someone who is not a ham aged 8 through 80, their kit set will be free. Here's your chance to help grow a new ham!

For regular progress reports on the ZL3 Buildathon Project please visit:

<<http://sites.google.com/site/zl3buildathon/>> .David W Searle ZL3DWS

<ZL3DWS@nzart.org.nz>. Ph 03 358 9776 or 021 039 1764

Metric prefixes in electronics; a brief guide.

By John Walker ZL3IB <john.zl3ib@ihug.co.nz>

At a recent meeting of the NZVRS Christchurch Branch it appeared that some members were confused about the correct usage of metric prefixes when specifying the values of electronic components. Further confusion may arise when reading older, pre-1960s, texts where different nomenclature maybe found. It is hoped that this short article may help clear some of the confusion.

Table 1. International System of Units (SI)—Metric Units			
Prefix	Symbol		Multiplication Factor
giga	G	$\times 10^9 =$	1 000 000 000 (one thousand million)
mega	M	$\times 10^6 =$	1 000 000 (one million)
kilo	k	$\times 10^3 =$	1000 (one thousand)
(Basic unit)		$\times 10^0 =$	1
centi	c	$\times 10^{-2} =$	0.01 (one tenth)
milli	m	$\times 10^{-3} =$	0.001 (one thousandth)
micro	μ	$\times 10^{-6} =$	0.000 001 (one millionth)
nano	n	$\times 10^{-9} =$	0.000 000 001 (one thousand millionth)
pico	p	$\times 10^{-12} =$	0.000 000 000 001 (one billionth)

As maybe see from Table 1 the SI system of units commonly used in electronics jumps up or down in thousand-fold steps and some examples should make this clear.
 Length. Basic unit is the metre (*not meter*) so a thousand metres equals 1 kilometre (1 km) and, conversely, one thousandth of a metre is 1 millimetre (1 mm)
 Resistance. Basic unit is the ohm so 1 megohm (1 M Ω) equals 1000 k Ω , equals 1 000 000 Ω .
 Capacitance. Normal unit is the microFarad (μ F, sometime written uF) which equals 1000 nanoF (nF) or 1 million picoF (pF). Similarly 1 nanoF (1nF) equals 0.001 μ F

Some notes on nomenclature

International conventions for the correct usage of metric prefixes have been established. When writing metric units remember only mega and giga are in capitals (thus M Ω , MHz, GHz; *but not Km, KHz, etc*). Do not pluralise abbreviations (eg km, kg; *not kms or kgs*).

Names of units are given as capital letters if they are derived from the names of people. Thus we have A (Ampere), F (Farad, from Faraday), H (Henry), Hz (from Hertz), V (Volta), etc.

Older texts may show the values of small capacitors in mmf, mmF or $\mu\mu$ F; they mean pF so 50 mmf means 50 pF. Also in some older texts the symbol ω (lower case Ω) may be used instead of Ω for resistance values.

Modern European alphanumeric practice is to give the values of resistors and capacitors according to BS1852. For example you may see components marked thus:

$$\begin{array}{lll} R22 = 0.22\Omega & 1R0 = 1.0\Omega & 22R = 22\Omega \\ 2k2 = 2.2k\Omega & 22k = 22k\Omega & 2M2 = 2.2M\Omega \end{array}$$

Similarly for capacitors;

$$100p = 100pF \quad 2n2 = 2.2nF \quad 22n = 22nF = 0.022\mu F$$

The rationale for this notation is that the decimal point can be hard to see in a small circuit diagram.

Calendar for 2010

ZL3VV on air; Tuesday evenings, contact Maurice ZL3MEM.

Theory and CW classes, Workshop activities, etc. Wednesdays at 1930 hr when required.

CARDS meeting. 3rd Wednesday; All welcome.

Free & Easy - Second Wednesday at 1330 (1.30pm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
	10	10	14	12	9	14	11	8	13	10	8

Committee Meeting - Third Tuesday at 1930 (7.30pm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
19	16	16	20	18	15	20	17	21	19	16	

General Meeting - Fourth Tuesday at 1930 (7.30pm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
26	23	23	27	25	22	27	24	28	26	23	

Free & Easy:

10th Feb TBA

General Meetings

26th Jan The Design of Power and Audio Transformers.

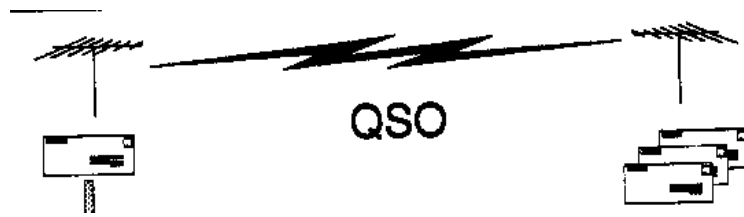
23rd Feb Annual General Meeting. Followed by “National Parks in the Rockies” by
Keith Stanton ZL3QH

Your committee welcomes suggestions for topics and/or offers of talks for Branch meetings.

Interested in Old Radios?

The Christchurch section of the NZ Vintage Radio Society now meet in our club rooms. Meetings are normally held on alternate months on the first Tuesday of the month. If you are interested please contact Jim Lovell ZL3AGS (ph 342 7760) or David Chapple, email <canda@netaccess.co.nz> for more information.

QTC56



Monthly Newsletter

Christchurch West Amateur Radio Club Inc.

NZART Branch 56