



## THE NZART 2021 CONFERENCE

Hastings Br  
13  
Club Calls  
**ZL2AS**  
**ZL2QS**

Napier Br 25  
Club Calls  
**ZL2GT**  
**ZL2G**

**IRLP**  
Node  
6793  
147.250

**Branch's**  
**13/25**  
**Net**  
9.00 AM  
Sunday  
Morning  
670  
Repeater

**Editor**  
John Newson  
ZL2VAF



<http://www.zl2gt.nz/>

<http://www.zl2as.org.nz/>

**Emergency Call-in Frequencies: 3615khz and 670 repeater**



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## **NAPIER BRANCH 25**

**President:** Dave Crook ZL2MQ, 02102969006 email [davey.crook@gmail.com](mailto:davey.crook@gmail.com)  
**Secretary:** Karl Matthys ZL1TJ 845 4372 email [karl@waspnet.co.nz](mailto:karl@waspnet.co.nz)  
**Treasurer:** Stuart McLeod 8445706 email [stushe@slingshot.co.nz](mailto:stushe@slingshot.co.nz)  
**AREC:** Mike Bull ZL2VM 843 6052 email [r1b.mbb@xtra.co.nz](mailto:r1b.mbb@xtra.co.nz)

### **Committee:**

**Revell Troy ZL2SS** 0210742837 email [revelltroy@hotmail.com](mailto:revelltroy@hotmail.com)  
**Michael Mullins** 8434210 email [michaelmullins@xtra.co.nz](mailto:michaelmullins@xtra.co.nz)  
**Peter Breen ZL2CD** 0274721527 email [peterbreen@clear.net.nz](mailto:peterbreen@clear.net.nz)

**Committee Meetings:** 7:30 pm, 3rd Tuesday of January, March, May, July, September, November

**Club Calls:** ZL2GT, ZL2G

**Club Web Site:** <http://www.zl2gt.nz/>

**Club Nights:** First Wednesday each month (except January) 7.30pm at the Club Rooms: 123 Latham Street Napier

## **Napier Amateur Radio Club**

The interesting thing about planning a Conference, is the activity expands as new ideas (and old ones) are developed. One of these is the Conference Raffle, thanks to the generosity of some sponsors we have decided to run a single raffle with 3 amazing prizes:

1st prize: a \$700.00 discount voucher at RWB Icom.

2nd Prize: a VNA as available at various vendors around the world value \$175.00

3rd Prize: the latest Ham handbook, value around \$60.00

Locals can purchase these tickets at their next branch meeting for \$10.00 each, this raffle will also be sold during the conference and drawn at the Sunday night dinner.

Speaking of conference, we are in need of a few hands to help at times during both Saturday and Sunday, if you can spend some time (and you are not attending the conference) please let your availability be known to the committee.

My loop aerial controller is at the PCB development stage (having found out a heap of interesting things about these things!), thanks to Errol for his inovative idea for a low cost high voltage split stator capacitor, anyone should be able to build one with a few simple tools. This loop and controller will be the subject of two separate sessions at **DECO TECHO** on Queens Birthday week end. The complete program for the weekend is in **Break In** and elsewhere in this **Break out**.

As you will be aware from Break In we are accepting registration for various parts of conference weekend, as well as total involvement

That's about all for now, please consider being part of the Queens Birthday weekend, and register for that as we are closing in on the first stage of registration numbers (100) in case of Covid limitations.

The next meeting of Branch 25 will be held on Wednesday 5th of May 7:30pm at the Club rooms in Latham Street, every one welcome.

73 Dave ZL2MQ

## HASTINGS BRANCH 13

<b>President:</b>	Blue Smith ZL3TT	Ph 027 220 3724	email: <a href="mailto:kgsmithblue@nowmail.co.nz">kgsmithblue@nowmail.co.nz</a>
<b>Vice President</b>	Robert Wallace ZL2SG	Ph 878 4993	email <a href="mailto:ffonzrjw@gmail.com">ffonzrjw@gmail.com</a>
<b>Secretary:</b>	David Walker ZL2DW	Ph 876 0518	email <a href="mailto:david@apexradiocoms.co.nz">david@apexradiocoms.co.nz</a>
<b>Treasurer:</b>	Peter Moore ZL2HM	Ph 06 68577340	email: <a href="mailto:pikam@xtra.co.nz">pikam@xtra.co.nz</a>
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**NZART License Examiners:** Peter – ZL2HM, Dave – ZL2MQ, Ray – ZL2RB  
**Club Call: ZL2AS and ZL2QS**

**Club Nights: Fourth Wednesday each month at 7.30 pm Pakowhai Hall, Pakowhai Road, Pakowhai**

## From the top table

Hi to one and all from up on high hi hi.

Well this month has been very quiet for me with doing my back in and then getting a cold on top of that, I just haven't been doing very much at all.

But I guess a lot has been going on behind the scenes that most of us don't hear about till it has been done and dusted. I believe that the conference and the NZART AGM are coming together very nicely and I say good work to the committee of branch 25. It is not an easy thing to put together and as it is always left to just a few to work though while others sit back and do nothing but that is human nature I guess, or is it a case that we are too busy with our own things and just can't find the time to help.

Don't forget to have a look at our web site as well ZL2AS - Hawkes Bay Amateur Radio Club <https://zl2as.org.nz/>

Radio wise I haven't done a lot but I'm still working on decorating the house. Winter is coming fast and most of the work I was doing outside has been done and what I didn't get done will have to wait till next summer now to take advantage of the longer days to do painting around windows and the like.

I have been watching with interest the ongoing work that has been getting done quietly to reinstate 60m. By the looks of it we may be back in luck with getting that band back but this is going to have to wait on NZART and RSM to work out just what will happen and how much of that band we will get and what will be the the rules for using it.

Thank you to all of those that have paid your subs and if you have not paid please try and get it done sooner rather than later but also remember which branch you wish to be affiliated to, if you are a member of more than one branch, as this will make sure you are able to vote on the remits at the right branch.

Well that's it for this month see you on Wednesday night if not before.

Your President Blue ZL3TT, Branch 13/HBARC



*Branch 13/HBARC, Hastings, office bearers,  
David Walker ZL2DW (Secretary),  
Blue Smith ZL3TT (President),  
Peter ZL2HM (Treasurer).*

## NZART Conference Information

(June 2021 at Napier)

The Napier ARC (Branch 25) has been entrusted with the organisation and running of the 2021 NZART annual Conference and AGM.

We have set up a small information website to promote the event.

The main and alternative programmes can be found there together with registration options and some accommodation information at:

<https://karl125.wixsite.com/nzartconference>

Please fill in the registration form (two for couples) completing the bottom box with the options chosen (e.g. 'A' for the full amateur programme, 'G' for the Sunday amateur programme lunch, morning and afternoon teas etc.), work out the cost and enter the amount due. We will correlate this with bank statements. I will confirm receipt of registration and payment. Registrations close Friday May 14, late registrations will be accepted only with the late payment fee.

Looking forward to seeing you June 5 and 6, Queen's birthday weekend in Napier,

Regards and 73,

Karl Matthys ZL1TJ,  
Secretary Napier ARC,  
Branch 25 NZART.



## 60 meters in New Zealand

Hi Folks, (9 April 2021)

The internationally allocated 60 metre amateur band 5351.5 - 5366.5 kHz has been cleared of formerly licensed users in New Zealand. This can be confirmed by a public search of the New Zealand register of radio frequencies. There is now a clear path for New Zealand amateur radio operators to gain access to all of the internationally allocated amateur band 5351.5 - 5366.5 kHz.

Background: I independently liaised with New Zealand Defence Force (NZDF) to implement a plan I formulated in January to clear a 60 metre band for amateur radio. NZDF liked my plan and it has relevance to other NZDF radio projects. As I'm an Approved Radio Engineer I can modify radio licences and NZDF authorised me to make specified changes to their licences, which cleared bandwidth for amateur radio. These changes were registered by RSM around midday on 8 April. That completed my contribution to development of a 60 metre amateur band in New Zealand.

73, Bob ZL2CA

Bob says its now up to NZART to take the next step



## A Matter of Minutes.

From the second meeting of Br 13 (on 4th Aug 1946) part of the Min's read.....

" A lively discussion on the merits and demits of qualification for ten metre permits ensued, the proceedings which would be very unwise to have published even here."

What a hoot. Obviously the Old Timers were not holding back when opinions were given hi hi

David (ZL2DW) (Secretary. Branch 13/HBARC, Hastings)

## FOR SALE (offers)

the following two instruments are offered for sale (offers). (On behalf of a retired Tech/Ham).

- SOAR Multifunction Counter FC-882 (10hz - 550mhz) with operators manual (it has a dead short on the DC input). Requires a 12v DC supply to power it.
- ESCORT Function Generator EGC-2230 (with Operators Manual, circuit diagram and plug pack PS).

Any "deal" considered....make an offer.

Thank you, David (ZL2DW Hastings 0274 502501 david@apexradiocom.co.nz).



## WANTED TO BUY

SDR unit, anything considered,

Contact David ZL2DW david@apexradiocom.co.nz 0274 502501



## Understanding the Radio Spectrum

[https://en.wikipedia.org/wiki/Radio\\_spectrum](https://en.wikipedia.org/wiki/Radio_spectrum)



## Using WSPR logs to assist in the search for MH370

<https://www.mh370search.com/2021/04/03/wsprnet-and-inmarsat-satellite-data/>

and the paper

<https://www.dropbox.com/s/w43gu64vn7jvmxm/Using%20the%20WSPRnet%20and%20Inmarsat%20Satellite%20odata%20in%20the%20search%20for%20MH370.pdf?dl=0>



*A couple of CHB guys "dining out" at Burger King, Hastings (joined by some Hastings/Napier guys) prior to going on to the Feb 2021 Br13/HBARC, Hastings meeting*

*(Rob ZL2US, Gary ZL2GJ, Peter ZL2HM, Blue ZL3TT, (photographer) David ZL2DW)*

## For Sale

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Offers are invited for the items listed below:

Offers should be emailed to [zl2vm@nzart.org.nz](mailto:zl2vm@nzart.org.nz)

No tyre kickers please. The task is a challenge without additional work.

All items are 'as is, where is'. Freight is additional. These two issues will be discussed with 'offerers'.

Item	Description	Notes	
1	Sold		
2	Sold		
3	Sold		
4	Yaesu FT-1000MP + MH 31 Mic		
5	Dentron Clipperton Linear		
6	KDK 20-30 VHF TCVR		
7	TAIT PS 12V 6A + Speaker?		
8	PS 12V 25A ?	Home Brew	
9	SWR Bridge		
10	Bencher Keyer		
11	Associated with Item 4		
12	Sold		
13	Sold		
14	Foot-to-Talk		
15	Kenwood TS-430 HF TCVR		
16	VDU for PC		
17	PC		
18	Compass		
19	Keyboard for PC		
20	20m AE + in plastic Bin		
21	2m? AE		
22	Lonpoo PC Speakers		
23	PC Speakers		
24	Winkeyer		
25	2-way splitter		
26	Flooby Dust		
27	Bag of cords 1		
28	Bag of cords 2		
29	HF Multi Band Vertical Bits missing??	Possibly a Hy-Gain AV – 640 ??	
30	HF Whip	Home Brew	
31	Aluminium mast		
33	Long piece of Pipe		
32	Short piece of Pipe		
34	Draw of Wire (Remit ?)		
35	Draw of Wire (WH / BL)		
36	Green Bag of Coax		
37	Wire Aerials 1 (loose)	White Insulators and coiled	
38	Wire Aerials 2	In plastic Bin	
39	80 m Aerial	On Orange Reel	

Offers should be made by 6 May.

20210415

# THE NZART 2021 CONFERENCE

Saturday and Sunday June 5-6, 2021 : East Pier Conference Centre, Ahuriri, Napier

## Main Programme

### Saturday 5 June 2021

08:00 Registration, Coffee & Mingling  
09:15 Welcome  
09:30 Keynote Speaker .....

10:00 Morning Tea  
10:30 NZART AGM  
12:30 Break for lunch  
13:30 NZART AGM continued  
15:00 Afternoon Tea  
15:30 AREC Forum  
17:30 AREC Forum ends

18:00 drinks  
19:00 Dinner, Keynote Speaker .....

### Sunday 6 June 2021

#### Room One

09:00 WSJT new modes, ZL3RC  
09:45 Morning Tea  
10:15 Satellite Rx, link budgets and more, ZL4IG  
11:00 Session ends  
11:15 Fun with VNA's, ZL2WRW  
*12:00 Lunch*  
13:00 Low cost Mag loops, ZL2IT and ZL2MQ  
13:45 Session ends  
14:00 Forum: Arduino in Ham Radio, ZL2MQ  
14:45 Afternoon Tea  
15:15 Broadband transformers and Hi Q toroid inductors in RF design ZL3PAH  
16:00 Mix, mingle, discussion time .....

#### Room Two

09:00 Forum: Future of Ham Radio, ZL1VH  
09:45 Morning Tea  
10:15 Solid State Power Amps, ZL3RC  
11:00 Session ends  
11:15 DMR and evolving National Link, ZL4JY  
*12:00 Lunch*  
13:00 How the ZM4T Contest station works, ZL3IO  
13:45 Session ends  
14:00 How to set up for LOTW, ZL2IFB  
14:45 Afternoon Tea  
15:15 Attempts to receive noise from Jupiter, ZL4DK  
16:00 Mix, mingle, discussion time.....

#### Room Three

09:00 Restoring WW2 Radios ZL3KB-ZL3CK  
WW2 man-pack radio propagation experiments, how they compare with their handbook figures, and how they can be verified in theory ZL3KB, also: Of Boonton and Bakelite-The ARC-5 Radio, ZL3CK  
09:45 Morning Tea  
10:15 Softly softly, QRP, ZL2OZ  
11:00 Session ends  
11:15 Setting up for Jock White FD, ZL2QM  
*12:00 Lunch*  
13:00 80m DX, new ham perspective ZL2XC  
13:45 Session ends  
14:00 Whanganui-Taranaki wide area network, 2TC  
14:45 Afternoon Tea  
15:15 How to get going on 3cm, ZL3RC  
16:00 Mix, mingle, discussion time

#### Room Four

09:00 WARO AGM  
09:45 Morning Tea  
10:15 WARO continued  
10:45 Session ends  
11:00 OTC AGM  
*12:00 Lunch*  
13:00 SOTA up a hill near you, ZL2AJ  
13:45 Session ends  
14:00 Receiving Weather Satellites, ZL2SPF  
14:45 Afternoon Tea  
15:15 160m Contest sites and Aerials, ZL2DW  
16:00 Mix, mingle, discussion time

18:00 Drinks  
19:00 Dinner, speaker, Entertainment

# THE NZART 2021 CONFERENCE

Saturday and Sunday June 5-6, 2021 : East Pier Conference Centre, Ahuriri, Napier

## Alternative Programme

Saturday 5 June

**Am:** Art Deco Vintage Car tour (one hour). Departure 10:15 am from East Pier. Tour includes National Tobacco Co. Ahuriri, Bluff Hill Lookout, homes that survived the 1931 earthquake, the Napier CBD. Art Deco Centre, Earthquake documentary (20 minutes)

**Lunch** 12 Noon at the Masonic Hotel, Emporium restaurant.

**Pm:** Choice of visiting the local Museum's latest exhibits, the National Aquarium, playing Mini golf, or checking out the shopping in Emerson Street. Entrance to the Museum is free. A discount will apply to the entry fees for the Aquarium and Mini golf. Transport on demand by Napier Radio Club members, including return to Ahuriri.

Sunday 6 June

**Am:** Bus tour starting 10 am, visiting Ātea a Rangi Star Compass at Awatoto, Arataki Honey, Te Mata Peak look out, Havelock North Village.

**Lunch** 12 Noon at Mangapapa Lodge.

**Pm:** Craggy Range Winery, tasting 5 wines (\$15 charge not included, waved if some purchased). The Mission Winery, tasting 6 wines (\$10 charge not included) includes souvenir wine glass, history of the Winery.

*Return to East Pier by 4pm.*





# Amateur Radio

## What is Amateur Radio?

Amateur radio is a hobby of exploring the limits of radio, electronics and digital technologies. Once you've passed the licence exam, you'll allocated a worldwide-unique call sign and can operate (and build) radio equipment capable of international and space-based communication, from wherever and whenever you like.

What can you explore:

- Operating low power in the outdoors
- international communication from your backyard (without the Internet or cell phones)
- bouncing radio signals off asteroids
- talking to the International space station
- designing and building radio transceivers and antennas
- sending signals 2000km using just a Raspberry Pi and a micro-transmitter.
- exploring what can be done linking the Internet, radio and computers
- providing communications support for search-and-rescue (SAR), Civil Defence and Amateur Radio Emergency Communications (AREC).

## **When can I enrol?**

Enrolments are open for our “HamCram” study program from 5 April 2021 and close on 15 July 2021. We recommend enrolling early so you have the maximum study time.

## **HamCram weekend - Saturday Aug 7 and Sunday Aug 8 2021**

## **How do I enrol in the HamCram program?**

It is simple; just email the organiser at [newham@z12ko.org.nz](mailto:newham@z12ko.org.nz) to get your name on the list

If you are interested in knowing more about our local radio club go to [www.z12ko.org.nz](http://www.z12ko.org.nz)

# Beginners Classes

Although not essential to be part of the HamCram weekend we will be running Beginners Classes which will cover all but three of the topics covered on the HamCram weekend.

Tuesday May 25 – Class 1 – Safety / Measurement / Electronics

Tuesday June 1 – Class 2 – Resistance / Ohms Law / Power Law

Tuesday June 8 – Class 3 - AC Theory / Semiconductors / Devices

Tuesday June 15 – Class 4 - Meters / Harmonics / Review Ohms and Power Law

Tuesday June 22 – Class 5 - PSU / Regulated PSU / dB

**Saturday June 26 – Weekend Exercise – Practical sessions.**

Tuesday June 29 – Class 6 - Transmitters 1& 2

Tuesday July 6 – Class 7 - Receivers 1 & 2

Tuesday July 13 – Class 8 – Resonance / Transmissions Lines / Antennas

Tuesday July 20 – Class 9 - Propagation / Interference / HF Station

Tuesday July 27 – Class 10 - Operating 1 & 2 / Digi modes

Tuesday August 3 – Class 11 – Recap

**Saturday Aug 7 and Sunday Aug 8 – HamCram weekend and exam**

Tuesday Aug 10 – What's next? Where to from here now I have your licence?

Tuesday Aug 17– What's next? Your Amateur Radio Station

These Classes will also be run via ZOOM for those who have registered for HamCram

# ZL2KO



## Manawatu Amateur Radio Society

# HamCram Course - Enrolment Form

Name \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_

## Enrolment

- The Complete Program includes exam fee and meals - \$150.00**

The compulsory manual must be downloaded and printed, it is available from <http://www.nzart.org.nz/exam/download-examination-files>

Enrolment forms must be completed and can be either posted to The HamCram Co-ordinator or emailed to [newham@z12ko.org.nz](mailto:newham@z12ko.org.nz)

## Payment Method

- Direct Credit or Direct Deposit**
- to Westpac Account: 03 1522 0161009 00
  - **put *your surname* as the reference, AND *hamcram* in particulars**

- Cheque** made out to the Manawatu Amateur Radio Society

Post your enrolment form and cheques to:

**The HamCram Co-ordinator**

Branch 20

24 Langley Ave

Palmerston North