



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



This could be yours - see Page 8

<http://www.zl2gt.nz/>
<http://www.zl2as.org.nz/>

Emergency Call-in Frequencies: 3615khz and 670 repeater



<https://arec.nz/join-arec/>

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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

Branch 25 Presidents Report

It is with great excitement that I as the new president of the Napier Amateur Radio Club write my first Breakout Report for Napier Branch 25.

First and foremost, I would like to take a moment to acknowledge our previous president, Dave Crook.

Dave, your dedication, leadership, and unwavering commitment have been invaluable to the growth and success of our club. We are all deeply appreciative of your hard work and the strong foundation you have built.

As for myself, I am 52 years old, and I am fortunate to be supported by my wonderful family—my wife, Sharon, our two boys, Ryan and Alex, and our daughter, Emma.

I would also like to share a personal note: my father Tony Gilbert ZL2UAG had the privilege of serving as president of this club in 1998 and 2000.

I am excited about the future of our club and the opportunities that lie ahead. Together, we will continue to foster a vibrant, inclusive, and innovative community for all amateur radio enthusiasts.

Thank you for your support, and I look forward to working with each and every one of you

Bryce Gilbert
ZL1BCG
Branch 25 President.

HASTINGS BRANCH 13

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Club Call:	ZL2AS and ZL2QS		
Net Controllers (Sunday '670 repeater, 9am)	ZL3TT/ZL2DW		
Club Nights:	Fourth Wednesday each month (except December) at 7.30 pm Pakowhai Hall, Pakowhai Road		
Club Fees	\$20 per year payable to Branch 13 a/c # 03 0642 0733310 00 (use your call sign as a reference).		

From the top table

Well here we are at the end of the year for Branch 13 and what a year we have had. I'm hoping that next year is just as good if not better, but at least we are back home in the hall with all the new stuff and a nice clean floor.

The back room that we have has got a new bench and I am hoping that in might be put back on the wall by next week but I can't guarantee it. The Gun club took the bench that we did have and are using it so they have had one of their members make us a brand new one and the same guy that made the new bench is going to fix it to the wall for us. In time we will have a club station back in the hall but this again will not happen for at least two more years as the gun club are going to get a new building themselves off to the side of our back room. This is so the HBRC can fix the stopbank behind the hall and once this is done I'm sure that we will be able to put a pole up at the end of there new building and we can run an off centre dipole antenna.

Earlier this year I had a club sign made to go up on the road side but this is going to have to be put on hold. We do not know just what the HBRC are going to do as at some time the car park will be getting ripped up and replaced. Once all of the work has been done we will be able to do the things that we were hoping to get done have been put on the back burner for a short time. I'm sure that we will be better off after things have been done. Getting back to the sign, we maybe able to have it put on the outside wall of the new gun club building once it has been built. The gun club are very accomodating to us as we are to them.



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

The new gun club building from what I understand is going to be almost world class standard so it will be an asset to them and their old part will be taken down.

I have some drawings from the HBRC that show what they are going to do and where the new gun club building will be which I will have at the meeting on Wednesday night. If you wish to have a look at them just ask to see them.

Remember that this months meeting is a normal meeting followed by the AGM. This is the time of the year that you, the members, have your say on who sits at the top table for the year ahead. If you wish to come on to the committee, don't be shy just open your gobstopper. If you would like to take over one of the three jobs at the top get some one to put your name forward when we ask for nominations as we all like a challenge. In fact we would like you to do this as it brings new blood and new thinking into the club.

Well I have no more news so I am hoping that we see a lot of new faces next Wednesday night as remember it is your club and if you want to have a say in how the club is run then get yourself along and make yourself known to other members.

If you know of anyone that is not getting Break Out please pass this info on to David ZL2DW and he will get them on the mailing list, it will not get done if you don't speak up and let David know.

Right that's it time for a cuppa.

Blue ZL3TT President Branch 13 HBARC



FOR SALE (Offers)

- MFJ digital SWR/Watt Meter MFJ826B
- Tokyo Hy-Power VHF linear amp HL-160v
- Daiwa SWR/Power Meter CN801
- McCaw SWR/power meter PRM-1
- ARON Oscilloscope BS-310S
- EA variable power supply 0 - 40v, 3 amps K-3206
- Kenwood 2m transceiver TM261A
- Icom VHF/UHF transceiver IC208H
- Icom transceiver HF/6m IC756PRO2
- Homebrew HF ATU.
- 6m linear amp (homebrew)
- ACOM 1000 HF/6m Linear amp
- Icom transceiver HF/6m IC7600
- Saike soldering Iron/Sucker Model 909D
- SWR/Power Meter Model PM2000A (make unknown)
- Sig Tracer (rf/af) Paco Z80
- a selection of books, (ARRL, RSGB manuals etc)
- a selection of homebrew power supplies, various high current
- miscellaneous "shack items"if you are looking for something in particular then ask if we have it.

Contact David ZL2DW 0274 502501 or Bob ZL2AN 027 4548567

I went a bit crazy

Now that I have a big pile of bits and pieces that I acquired recently, I decided to make up three testing jigs for the building Club.

This is similar to the style that we used to use when building our crystal sets in the good old days.

I made four because I made one for myself, the crazy part.

This is just a front sheet of metal bolted to a piece of 5 ply, for the base; which you can mount your circuit boards on without shorting anything out.

The front panel is used to mount all the controls.

I bought some fancy little colour plastic bulldog clips to hold the circuit boards with. These just screw them down to the plywood so they don't fly around and short something out .

As it's a multi task test jig ,you use it on anything that you are working on see (fig one).

Starting from the top LHS (this is my one) are the power input terminals with main power on off switch.

Under that is a three stage tuning gang with a multi-turn knob.

Now on the crazy side (on my one) I decided to put a current meter in with a range switch, (white knob), under that a switch to switch from whole set current flow or just the TX PCB.

It will give me a crude TX tune up measurement.

Under that is a range of switches,

volume control, and then I have some quarter inch Jacks sockets (mic, headphone and morse code input).

Top RHS is a speaker and under that RF output socket (which will soon move to the RHS edge.)

Bottom RHS is a Pie RF output tuning stage (Red knobs).

As I said "just a bit crazy".

These will allow the building Club members to test your PCB's out, as it getting them working before they decide to mount them in their own box ,and take them home.

Now as I have some box's of meter movements, I grabbed one; a nice big one.

I have no idea of what the type the meter movement is.

Just a big one that looked nice and I gave it a shake to see if the needle moved.

BUT just because I do this you should not try this at home!

I used my multimeter to measure the meter movement, I have also been known to flash a 1.5 volt AA battery across the meter as will.

I have a test one (fly leads soldered on the ends) I use it to test speakers with.

I learnt this in the good old days, when meter movements will built tough and could take a bit of current flow.

This has the effect (when the polarity is the right way around) to move the meter pointer towards the full scale end of the meter at close to the speed of sound.

Where it will bend its self around the end post.

On to the computer to find a test circuit to test meters with.



Nothing that I could find that was easy to build and did not need a 1.5 volt battery to power it.

Not that I don't like batteries, just that I don't like paying for them all the time. They are always flat when I want to use them.

So I had a go of building my own meter test unit.

I was going to use my bench power supply 13.8 volts.

I found two, ten ohm 10 watt resistors, that would give me just over half an amp current flow; with two IN4007 diodes all in series across the power supply.

The voltage drop across the two diodes should be 1.2 volts approximately.

Across the two diodes, I put a 100k pot, and then from the centre of the pot to negative rail is where the meter to be tested goes.

This is my meter test jig.

You can see it lying there next to the Morse code unit in the next picture.

Another project to be put into a box.

Now the two things you need to know is: what's the voltage across the meter movement when you have full scale deflection and the current through the meter at full scale deflection.

I was going to use some of my old analog multimeter's to do the job.

They have to earn their keep some time.

But that did not work out too well.

My 1980 multimeter only goes down to 2.5 volts and 2.5 milliamps.

So I reached for my old FET analog multimeter, that's a Honor Model TE -800.

A FET meter.

At that time period (1980's) this was a state of art unit, and you can tell the difference between the types because the ohm scale went backwards to the other scales.

The current scale would go down to 0.15 micro amps and 0.5 volts.

The voltage across the meter is used to work out the shunt resistor for use as a current meter and the current reading is used to work out the series resistance for a voltage meter.

I want the current meter range to read 200 mils, 400 mils, one amp, and two amps.

Part 2

Also I acquired some old test equipment.

One of them was an audio test generator.

As I have two already, if I could get this one running, I could donate it to the building club in Napier.

It had a power socket on the top for a power pack. No idea of the voltage supply needed, I dismantled it and found it had a floating battery lead inside for a 9 volt battery, a clue.

On the back of the power socket someone had built a voltage regulator for 9 volts also a clue.

I also have boxes of various black power packs that have picked up over the years , but not one that had the right size plug on it.

Well that's always a given ; Murphy's law strikes again!

You never get the right polarity or the right size plug.

I found a socket that I had that fitted a power pack from the box and installed the new power socket, and soldered everything on.

Switch on, and audio generator burst into song.

Made up a fly lead out of some 93 ohm coax that arrived at my place. Don't know why? but some people seem to think that "Eric will have a use for this", and throw it in a box for me. That's now been donated to the building club, and hopefully we can use it for testing our projects.

Now earlier in the year I have (see fig 2) a ham built morse code generator with paddles on the front.

Now that I was on a roll why not have a look at it. Had a look inside. There was a power socket on the back but no idea of the voltage. On the computer I looked up the chip numbers to find the voltages needed, 5 to 15 volts. Now, having just learned a new trick of mounting a regulator IC on the back of the power socket. All I needed is 9 volt IC small strip of Vero board two 100K caps drill a hole next to the



power socket: a 3 mm nut and bolt, solder on the wires and job is done. Found a 9 volt power pack that fitted , I am on a roll! I switched it on ,and the thing burst in to life. It has its own speaker, you can turn the volume up and down. The knob on the left gives you speed and there's a couple of things on the back you can drive it into your transmitter through the old quarter inch Jack Audio jack. It was going great guns then it didn't. Looking on the back of the circuit board, now this is a homemade one, we have EA 78 ek3 printed on it. This I took as early Electronics Australia in 1978, which would explain the weird numbers on the IC's . On the edge of the circuit pcb is a 8 pin chip , with the number DS555 and I hoped it may be the same as today's 555 chips. A lot of looking around on the computer I found it was.

I measured the pin that I thought was the power input and found nothing, pulled that one out of its socket, started to clean the corrosion off the pins when I noticed that pin five had rotted completely off. Replacing with a 555 IC from my supply, I switched on, nothing. Sprayed all the IC legs with some corrosion cleaner , I switched off and went inside for the day.

Next day I taped all the IC's down in their sockets and switched on. I don't like sockets for this very problem. It burst back into song and continues to still go today.

Glued the speaker back together and remounted.
It needs a top cover on it, but I can tick the box and call it done.
Some ham made it, now I have it and working.
I have a job that I can use it for so its a keeper.

I am off inside for coffee and bickie.

Eric ZL2TSU



FOR SALE

(a)

- tower (telescopic/tilt over)
- SteppIR HF beam
- Yaesu Rotator
- 6m beam
- 2m beam x 2

(b)

Tilt over (see-saw) pipe mast and miscellaneous wire HF aerials.

Offers to David (ZL2DW 0274 502501) or Bob (ZL2AN 027 4548567)



WANTED

Someone to do two small carpentry jobs (on door latches) at the Pakowhai Hall (so that the latches/locks will work).

Contact David for details (ZL2DW 0274 502501)

Branch 13/HBARC Meeting

27 November, 7-30pm, Pakowhai Hall,

- General Meeting
- Annual General Meeting
- Homebrew Competition (photos are acceptable if you can't get your item through the door).



For Sale.

VHF25 200P Lunar Electronics 2Mtr Solid state Bi- Linearized Amp.

Antenna Switch 4 Position Coaxial Switch 0-500Mhz Model D5204

AOR- ARDV1- SDR Digital Voice Receiver with Manual. Very new.

Contact ZL2RB 021729266 or r.w.barlow@xtra.co.nz



FOR SALE
(for Br 13 Club funds)

Marconi TF2015 Sig Gen.

Offers to David (ZL2DW 0274 502501)



A new License class

Satire

New Zealand Amateur Radio operators will be excited to hear that a new class of license will be available starting September 1, 2024: the Quiet Radio Transmitter or "QRT" license. To qualify for this license you need to simply agree to never transmit.

A 2019 study found that 73% of hams never transmit. Most interestingly, the study found a third of those not only don't want to transmit, but object to others transmitting, preferring to have silence for hours, if not days on end. As one survey respondent said, "We invested over \$1000 in equipment to setup our club's repeater and yet people think they can just use it as if this were a hobby. It is really bothersome to hear someone looking for a QSO. It only encourages others to join in and, before you know it, everyone's on the air disturbing the peace and quiet."

Responding to the survey's results, commercial interests proposed the QRT license be created. During the consultation period no-one from the ham community spoke up, confirming that the license was a perfect match to the needs of many hams. One exception was a special interest group who requested an endorsement be created allowing for frequent short transmissions, such as kerchunking of repeaters (provided you never say your call sign) or dialing DTMF to turn off a link.

A second endorsement was also agreed to after a letter was received from a meeting held in Wellington requesting that some QRT licensees should be able to say, "That's not real ham radio" whenever someone is talking about new technology.

A third endorsement, the "stuck microphone with road noise" was not adopted as this was agreed to be a form of lengthy transmission, something that was in opposition to the spirit of the new license.

Hearing the news, a local Amateur Instructor said, "This really is a game changer. The QRT license can be earned in a single day, except for the kerchunking endorsement which can take an extra day to practice using a test repeater we have setup in the classroom. Mind you, some people think the extra day is worth it as you can earn a new 'Kerchunked All Repeaters' award in as little as 24 hours using just a simple handheld radio."

Commercial interests across the country are welcoming the arrival of the QRT license. Speaking at a spectrum auction, an industry representative said, "This really speeds up the process of taking back our VHF and UHF spectrum from the Ham community. As people see the benefits of a QRT license such as no antennas, longer battery life, and no RFI, they will quickly see that it makes sense to hand over the spectrum to us so more kids can send emoticons to each other instead of wasting their time experimenting with electronics."

Is your license a QRT license? Perhaps consider upgrading.

Author unknown.