

BREAKOUT

The Newsletter of the Hastings and
Napier Amateur Radio Clubs

Hastings Branch 13 NZART – Napier Branch 25 NZART

Volume 24, Issue 7, July 2024



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



*The feed point of the z12dwKiwiSDR 250m Long Wire across to the
Pine Trees (looking East)*

<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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NAPIER BRANCH 25

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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

Napier Amateur Radio Club

It is great to see the newly minted Hams enjoying the Club activities and getting involved in the resurgence of AREC, also coming along to the "Makers Group" to join the growing throng. I was particularly pleased to see the veteran Hams jumping in and answering questions raised after the last general Meeting, and would dearly love to see more of this! The offer to any new(ish) ham to raise a question remains and hopefully some one will have an answer for you, and others, it's never to late to learn something new hi hi.

The 6M mid year season has resulted in the WSPR transmitter being received on the VK east coast, hopefully there will be more of these openings as Spring and Summer approaches.

I have been playing with a software program for antenna design MMANA GAL, the basic version is free to download, and there is some you-tube clips on its use, I am playing around with the design of my remote wire / tuner setup in the hope of improving the general performance on the HF bands, this is looking hopeful, and if the difference is significant, and there is some interest, I will do a demo of the software after an upcoming General meeting.

Napier Branch has its next meeting on August the 7th and after the usual Club business, and some discussion on the above, it is "Show and Tell", where you bring anything that will be of interest to the group, this can be anything, even a paper or magazine clipping, or a You-tube clip. No contest! just for interest sake.... and join us for some chat and cuppa. This meeting will be held at the Latham Street Club rooms at 7:30pm. All Welcome!

That's all for this month, see you at the meeting

73 Dave ZL2MQ.

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

Hi to one and all and welcome to Winter with the wet rainy days that we are getting and the cold days and nights. Just the right sort of weather

to stay inside and play radio and to do all those jobs that need doing inside. If you are lucky enough to have your workshop as part of the house where you can stay nice and warm then lucky you.

This week I ran into Jaidyn ZL4WW at Jaycar and I also saw the damage that was done to the shop after it was ram raided. I guess that who ever did it went to one side of the bollards that are in the front of the shop. They sure made a mess of things, not to mention the cost to the insurance company or for that matter the folk that owned the car that was used.

Anyway, Jaidyn came around to my place after ringing me to ask if I had a spare SWR meter for some thing that he and Ross ZL2WRW are working on so they now have that and it was good for me as well as I showed Jaidyn my shack and he saw how slow my laptop was and just like that he showed me how to find out what my computer specs are and we saw that the Ram was quite low. Jaidyn looked up on his cellphone and had a look at what sort of RAM I needed. I have ordered two sticks of ram so that should help speed my laptop up somewhat, fingers crossed.

This week I have managed to work the last of the W9IMS stations to get the award. For those of you that don't know this is an award to celebrate all three races held at the motor racing in Indianapolis and is run by hams over there at their own cost. I will be able to get rid of some of those US\$ I have hidden away and then sit back and wait for the cards and poster to arrive later in the year. The only reason I do this is because we as New Zealanders need to support those drivers that worked hard to break into the American motor racing industry and to stay there and for those of us that are still petrol heads but have grown up to an age where we can only watch these things on our TV's.



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

Now I am going to ask if any of you know any one that knows how to find a problem and faults with amplifiers as I think mine has gone open circuit or some thing, not sure. I do admit I know nothing of the workings of the inside of the amp, not to mention a healthy respect for the power that is on the inside of them, so, like anything, if not sure of what you are doing leave well alone.

As yet we still have no news on the hall but the last time we were in there it was looking very good and clean, smart and very tidy It is going to be a pleasure for us and other groups that use the hall.

Patience seldom found in a man but always in a woman so I'm told but at this point of time we all need it with all the newbies and for us older guys and girls to remember we were like them once and remember they are working on getting there 50 contacts so if you are on the radio and one or two come up on air give them the courtesy and work them. This helps them to work out how things are done on the air, sure we all make silly mistakes but we all learn from these mistakes. A little patience goes along way and getting the call signs around the right way so if I'm calling someone put their call first and then yours, so it would look like this,

ZL2TT (who I am calling) from ZL3TT (my call) not this way around ZL3TT calling ZL2TT always put the person you are calling first.

Well that's all for this month, see some of you at the meeting and some on air.

Blue ZL3TT President Branch 13 HBARC



World Amateur Radio Contesting Association Top 10

Place	Callsign	WARCA points	
Place #1	AA3B	33,318.35 (141.86)	NA: 1, United States: 1
#2 (1)	K5ZD	31,684.24 (644.95)	NA: 2, United States: 2
#3 (1)	JH4UYB	31,067.27	AS: 1, Japan: 1
#4	SP7GIQ	30,614.25	EU: 1, Poland: 1
#5	KU1CW	29,584.49 (242.08)	NA: 3, United States: 3
#6	VE3DZ	29,413.55 (949.09)	NA: 4, Canada: 1
#7 (1)	VE3AT	28,545.51 (971.63)	NA: 5, Canada: 2
#8 (1)	N6AR	28,360.90	NA: 6, United States: 4
#9 (3)	K7RL	27,551.11 (1211.58)	NA: 7, United States: 5
#10	ZL3IO	27,289.74 (690.06)	OC: 1, New Zealand: 1

Congratulations to Holger ZL3IO for achieving the World Top 10 listing. A massive achievement!



Homebrew / Makers Workshop nights Napier Clubrooms Latham St. Napier

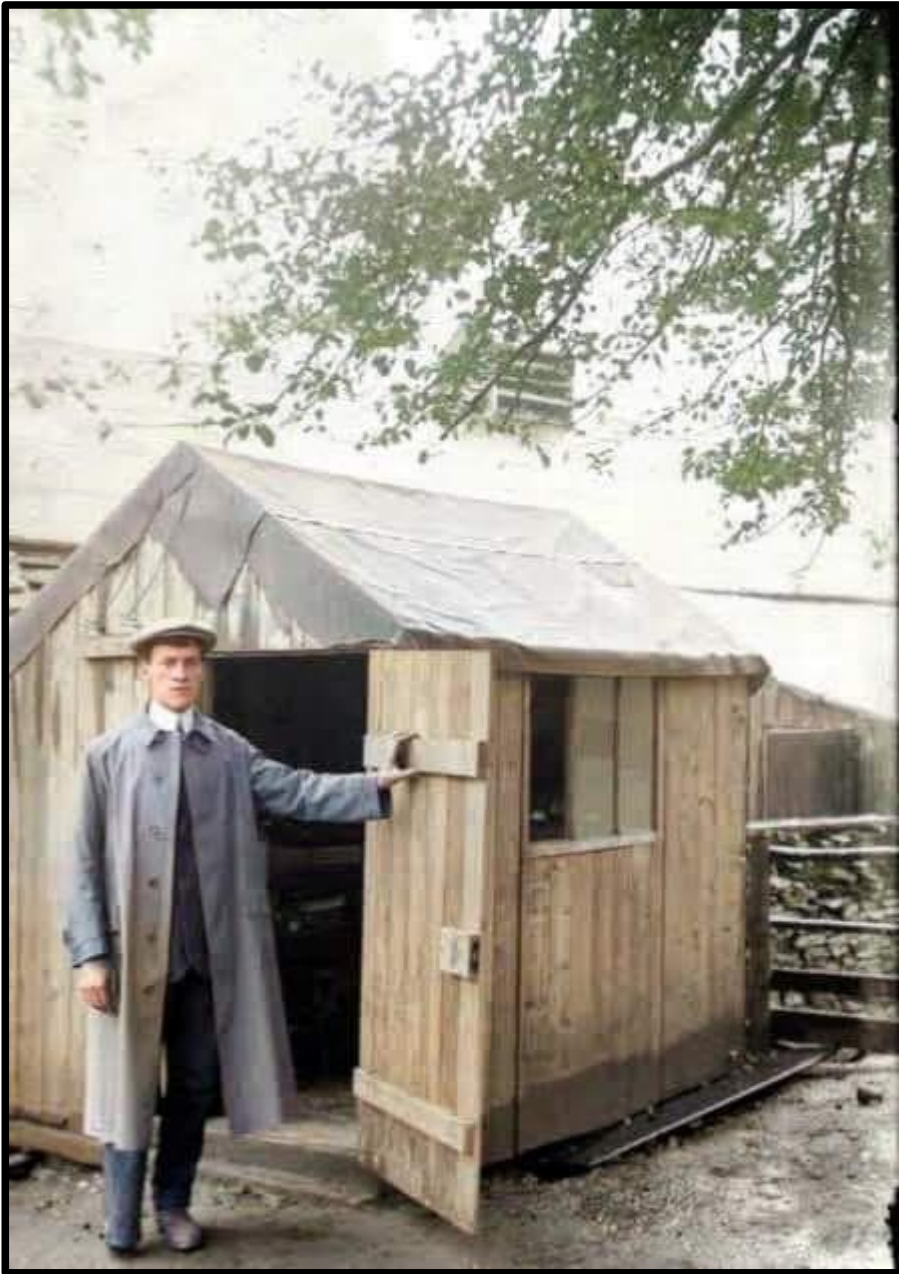
7.00 PM 2nd and 4th Monday of each month

Everyone welcome, bring your pet project along or discuss your planned project.

We have test equipment available for most projects. Need answers for a radio related issue, perhaps we can help.

Need more information? Ring Errol, ZL2IT, 021490253

Titanic History - Artie Moore in his garden shack.



It's the anniversary of the Titanic sinking today and many will be surprised to learn that a few fields across from where Bryn Meadows Golf Club is, at Gelligroes Mill (near Pontllanfraith), local fella Artie Moore was in his garden shed, suddenly becoming a part of the Titanic story. He'd built a radio receiver by himself and managed to generate electricity for it by using a large water wheel and some self-made batteries. This was 1912 by the way, radio had only just been invented. Artie was intrigued by it though and was clearly a seriously clever guy. The year before he intercepted a message from inside the Italian government where they declared war on Libya, nobody knew him before then but they soon did when he dropped that bombshell and the world learned that it was true.

On the night of the Titanic sinking, he was in his shed experimenting and somehow

managed to pick up the SOS distress calls from on board the ship at the very moment the crew raised the alarm. "We have struck an iceberg, sinking."..... "Women and children in boats, cannot last much longer"..... "We are sinking fast. Passengers are being put into boats. Titanic."

He rushed to the local police station and they thought he was crazy. Back in 1912, it was considered fact that the Titanic was unsinkable and the thought of plucking messages from the air was mind-bendingly impossible. He told others and nobody believed him. 2 days later the news hit the British press and the nation learned what had happened for the first time. Once the shock of the news had subsided, people started to learn that this fella Artie had raised the alarm days in advance from his shed in the Welsh Valleys.

It was such a wild achievement, the inventor of radio Guglielmo Marconi came to know about him. Marconi had just won the Nobel prize for Physics, the same almost impossible to attain prize that Albert Einstein won a few years later You're talking uber genius, the inventor of wireless communication and he's so mind blown that he ends up here in the valleys, in Artie's garden shed to find out how the hell he managed to learn about the Titanic before anyone else did, it shouldn't even have been possible being so far away.

Marconi's Nobel prize winning technology had a range of 2000 miles max, but Artie's home-made set up was picking it up from 3000 miles away. Marconi was shown how it was achieved and he offered Artie a job on the spot. Artie went on to lead the installation of wireless equipment on battleships during World War 1, invented the precursor to Sonar and was in the thick of developing technologies which have enabled radio to be what it is today.

Somehow, not many of us know about Artie. Hopefully posts like this one will help to bring him back into the consciousness of local people. A phenomenal man with a phenomenal story.



VHF/UHF Contest 8/9 December 2024

Anyone interested at having go or (helping to prepare) for this Event, please contact me at rlb.mbb@xtra.co.nz and we'll see what we can do.



For sale

213 coax near new, had very little use if used at all, has been keep inside.

78meters \$234.00 ono

30m \$93.00 ono

18m \$54.00 ono

12m \$36.00 ono

Phone Wally on 0211445038 or call ZL2MO



Kiwi SDR AVAILABLE for those bugged with HF noise.

David ZL2DW has set up a 0 - 30mhz all mode receive only KiwiSDR at a remote rural site near Hastings which enjoys "no town noise".

It has a 250m Long Wire aerial (see the picture) and can handle four simultaneous operators at a time.

The link to access it is

<http://zl2dw.proxy.kiwisdr.com:8073/>

Log in with your call sign. Sound up.

Have a play and surf. For further information and/or instructions if required, contact David ZL2DW.



Branch 13/HBARC Hastings next meeting.

7-30pm 24 July, Hastings Orphans Club Hall, corner of Miller St and Albert St, Hastings.

ZL2DW will be giving a demonstration of Kiwi SDR



FOR SALE (Offers)

Base type Tri band whip (3m long), 50/144/432mhz, never been used. Contact David ZL2DW 0274 502501

Ham Radio 101: Understanding Repeater Speak

Posted by Mark Haverstock, K8MSH on July 12, 2024 at 2:18 pm (*An American slant on things*)

New hams often wonder what they'll do or say over the radio after they get their license. All that jargon that hams use can seem like a foreign language to those who've had little exposure to amateur radio. But there is no need to be self-conscious. After reading this, you'll become fluent in repeater speak in no time.

Common Amateur Radio Repeater Terms

Chances are your first QSO (communication) will happen on a local VHF or UHF repeater using a handheld transceiver (HT). Repeaters have their own terminology, like courtesy beep, DTMF, and split. However, this split doesn't involve bananas and courtesy beeps shouldn't be confused with roger beeps used by Cbers. You've probably used DTMF before, but in a different context—on your phone.

A Glossary of Ham Radio Repeater Terms

Break: A word used to interrupt a conversation on a repeater to indicate there's an emergency. You should say "break, break, break" to be sure you're heard. It's not used to join a conversation.

Deviation: This refers to the change in the carrier frequency of an FM transmitter produced by the modulating signal. If you're told your transceiver is over-deviating, talk farther away from the microphone to avoid distortion.

Double: Two or more stations transmitting simultaneously on the same frequency, often without knowing it. The one with the strongest signal wins, but if it's a tie, neither is heard.

Full Quieting: This term usually signifies a good quality signal on a repeater or FM transmission. It means that your signal is clear, free of static, and easily readable.

Half-Duplex: Radio communication using two frequencies, one for receive and one for transmit—one radio at a time.

Hang Time: This is a cure for the double. Waiting briefly between transmissions allows smooth transitions. It also gives others a chance to join in the conversation.

Kerchunking: You have an HT, but will it reach the local repeater? Turning it on, you briefly hit the transmit button and hear a tone in response. Satisfied, you try it again—and again. That's kerchunking—keying up a repeater just because you can. It can really become annoying to anyone monitoring the frequency. The proper way is to say your call sign when you transmit, or something like "KE8XYZ, testing." I even heard of one repeater that reportedly responds with "kerchunk" if it is keyed and no audio is detected.

Machine: This refers to the repeater system itself. You might hear something like, "The 37/97 machine has the best coverage in the county."

Offset/Split: If the repeater output is 146.840 MHz, the input or the frequency the repeater receiver listens on is 146.240 MHz (600 kHz below 146.840 MHz). The offset prevents transmit and receive signals interfering with each other at the repeater.

If you're tuned to 146.840 MHz, when you push the mic button your radio automatically transmits on 146.240 MHz, 600 kHz down from 146.840. When you

release the mic button, your radio switches back to 146.840 MHz to listen on the repeater's output frequency. Confused? No worries—virtually all ham radios sold today set the offset automatically.

Open Repeater: A repeater that may be used by any licensed ham radio operator is considered open. Closed repeaters are restricted to exclusive groups, such as members of a club.

PL Tone: PL (private line) tones or CTCSS (continuous tone-coded squelch system) tones are sub-audible tones of 300 Hz and below that are transmitted and detected by radios and repeaters. The tone is transmitted when you talk, and the repeater lets you through if you're using the correct tone. It's used to prevent people accidentally keying up on a repeater frequency or a repeater interfering with another repeater during a band opening.

Simplex: This is communication where hams receive and transmit on the same frequency without using the repeater. It's also called talk around. You can do this to avoid tying up the repeater, especially if you're not far apart.

Time Out: No, you don't have to sit in the corner. This happens when a person talks too long and the repeater time-out timer (TOT) temporarily shuts down the transmitter. There will be a short pause, then the repeater will reset and the conversation continues.



Hawkes BayHam Cram +

An introduction for new hams into the facets of amateur radio that they may not otherwise yet be familiar with aimed at last years and this years hamcram candidates

2pm at Napier Club Rooms on 4th of August

Bring your own handheld radios if you have purchased one already.

Topics to be covered

- How are the 50 contacts coming along
- How to use your new radio (repeater splits vs simplex)
- Practicing placing and receiving calls (especially for those that haven't yet)
- Contests
- Portable activities
- KiwiSDR
- IRLP, Digital modes, etc
- AREC
- Anything else?

Should go for about 3 hours.

Look for more detail in the next Break In.

(Any experienced hams who want to do a presentation please contact ZL2AJ)