QUA FARC

Franklin Amateur Radio Club Inc. NZART Branch 10

AUGUST 2023

VOLUME 31 ISSUE 8

Show and Tell

Our last general meeting was on Tuesday 18 July. This was a Show and Tell event for members to bring along items of interest to share with club members. Tom ZL1TO shared research on the capsize of a wedding coach in the Hunter Valley area in NSW, Australia. More on capsizing in this issue of QUA. Peter ZL1PX talked on growing club membership and capturing interest in amateur radio at public events. Mike ZL1UOM brought along a variety of crystal units used in setting and maintaining frequency. Ted ZL1TZP and Steve ZL1BQA discussed multiple hotspots with Digital Mobile Radios.

In my show and tell, I recommended we celebrate club members and their achievements. So here is a 'photo-shop' of all present at the meeting. We made this from two images on Gary's mobile phone. We loaded Gary's image first. I was then pixelated or 'p-xed' (pun intended) into the space in front of Ted with help from Paint.Net, a free graphic editor. Wish we could add new members to the club as easily as that. - Peter

Next General Meeting

Steve ZL1TZP and Francois ZL4FJ recently completed their first ever SOTA activations together on Sunday 30 July. The summit they liberated was Pukekohe Hill just a couple of kilometres from the clubhouse.

Both Steve and Francois will describe the challenges they overcame in completing their activations at our next general meeting which will be held at 7.30 PM on Tuesday 1 August at our clubrooms 19 Stadium Drive, Pukekohe.

Steve checks Nano VNA settings on his Half Wave End Fed antenna before calling "CQ SOTA"

Grandparents – Grandkids Amateur Radio Net
Peter Henderson ZL1PX

When
Sunday 1 October (NZ Grandparents Day) 3PM

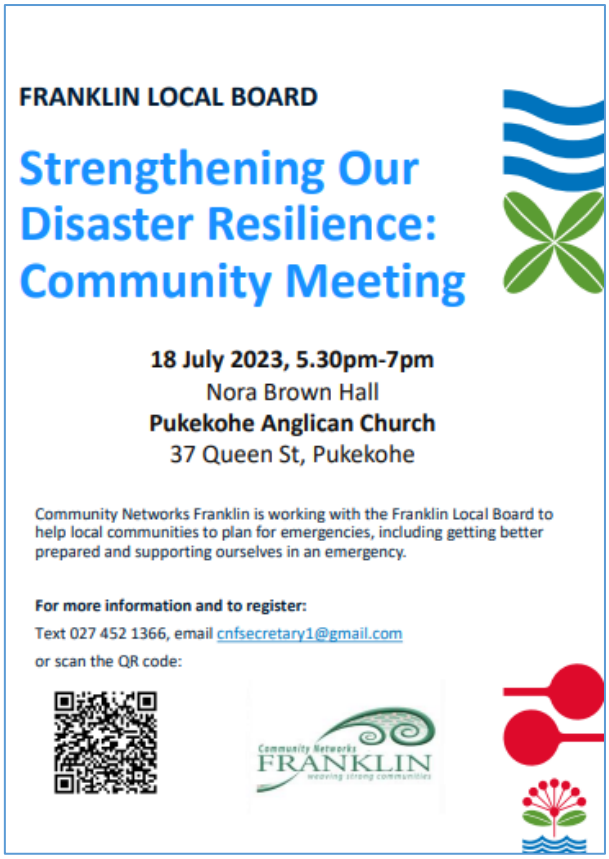
Purpose
Every radio club in the country needs more members. Here is a chance to do something about it. Create a happy, successful memory of ham radio in your grandchild's life by inviting them over and tuning in to Grandparents – Grandkids Net. They'll never forget the day Grandad or Grandmum talked on the radio with them. And, eventually, that will lead some of them to join a local radio club.

Method
Invite your grandkids over for a midday meal. After it's cleaned away, get them into the shack and introduce them to Grandparents-Grandkids Amateur Radio Net. A net leader will call for check-ins at 3 PM. When all families are checked in, every participant will get a chance to describe their grandparent or grandchild on a friendly ham radio connection. Suggested topics – what does my grandad/grandmum like to do? What does my grandson/granddaughter like to do? Best grandad joke?

Radio Stuff
We don't have a way to meet nationally at present, so local repeaters will need to be used for each region.

Auckland region
Klondyke Repeater 146.625 MHz Net leader will be Peter Henderson, Franklin Amateur Radio Club on call-sign ZL1SA

Other regions
Contact me with your details and I will publish you in the next InfoLine from NZART.



Franklin Disaster Resilience

Durlene ZL1ULK reported at our general meeting in July that Franklin Local Board called a 'Strengthening Our Disaster Resilience' meeting recently. This meeting (see advertising above) occurred two hours before our July monthly meeting in the Pukekohe Anglican Church hall. Over 60 locals attended.

Jan Wallace, of Franklin Community Networks, has sent further material behind the disaster reliance meetings. The understanding is that local communities affected by disasters will not be likely to receive help from Fire, Emergency NZ, Police, Ambulance, Army etc., within the first three days. Local communities are urged to create their own Community Resilience Plan by coming together to consider what hazards they are likely to face and what they will do about these hazards, taking ownership of their own emergency preparedness.

1-community-resilience-plan-overview[667].pdf

SAREX

A Police SAREX will be held at Awhitu 1st and 2nd September. Send expressions of interest to Richard Gamble. Saturday is the best day if you wish to attend for one day only. Sunday will be workshops which may not require radio comms, more information to those who wish to attend will be published here as it comes to hand. Activities would include sending and receiving radio messages, logging, and entering data into SARtrack.

Things you can do with the GPS record that your device is saving
Tom McDonald ZL1TO

We had better start with the radio component of the topic. The constellation of GPS1 satellites, comprises 32 (plus some spares), in orbits 20,200 km above us. Each satellite has an atomic clock and transmits its identity, position and time signal by radio, at 1.1, 1.2 and 1.5 GHz to our individual receivers. Many receivers can listen simultaneously to 12 satellites. The receiver calculates where the receiver must be, based on the tiny time difference of the received time signals.

GPS receivers are in heaps of devices. For me, there is a GPS receiver in my car navigator, digital camera, and digital transceiver. Lots of you will have a GPS receiver in your mobile phone too. The makers of these devices may well save the calculations to the spare memory capacity of the device. It's akin to the black box of an airliner. In many cases fresh data are calculated every second. Not all manufacturers include instructions on how to access the data in their instruction manual. Several devices have a directory structure, with log files saved in a My Documents folder. Data is frequently stored in NMEA183 format3.

The horrendous bus crash in New South Wales, back in June of this year, got me thinking about looking at the potential for a similar bus tip-over in this country. In Australia, the driver was trying to take the third exit from Greta to join the Singleton-bound expressway.

A tip over incident in Turkey has been recorded on surveillance video.

A vehicle will overturn if the vector addition of its weight force and the accelerating force due to its movement in a circle passing through its centre of gravity will pass outside its tyres. That is on condition the road is not cambered to provide a counteracting force; nor is there an impulse from the sudden impact with the curb; nor a contribution from a side-wind. The acceleration of an object moving in a circle is given by

$$a = v2 / r$$

In the case of a roundabout, the paths of vehicles coming and going from a variety of ramps results in no preference for a camber, when the road is being designed.

In New Zealand buses should not topple in a static tilt of 35^{o} or 28^{o} for double deckers. The standard for double deckers has hardly changed in the past 90 years since this test on a London Transport bus.

Double-decker bus tilt testing. April, 1933. London.

If the Greta bus was to pass the New Zealand standard it would not topple until its speed is nearly 70 km/h on the 55 m radius curve that it met. In dry conditions it is unreasonable to expect tyres to continue to grip the road, without getting into a skid if the central acceleration is greater than the acceleration of gravity, 9.8 m/s^2.

So, how about testing one of Auckland's double deckers.

I regularly travel by double decker on the northern busway to Silverdale. At Albany, travelling northward, the busway reaches, after a downhill gradient, a hard left turn at a bridge to cross the motorway. This is a good candidate for a tip over situation. There are some similarities with the Yuba City case. The speed limit is 50 km/h, and the 15 km/h advisory sign has recently been turned side-on to the bus driver's view. My GPS records show that buses slow at best to 12 knots, which is 22 km/h or 6 m/s. The corner has 23 metre radius, measured from a Google map.

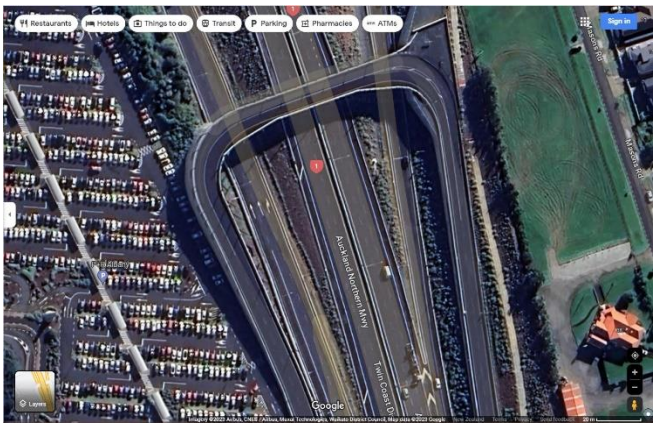
The bridge has been built with no noticeable camber, although every bus will be turning about the same centre. The spreadsheet below indicates that a double decker bus might topple at speeds around 40 km/h.

Oteha Valley bus lane

Radius of turning circle m	Speed km/h	Speed m/s	Width at tyres m	Acceleration in curve m/s2	Height of centre of gravity m	Tips over?
23	80	22.2	2.0	21.5	1.88	TRUE
23	70	19.4	2.0	16.4	1.88	TRUE
23	60	16.7	2.0	12.1	1.88	TRUE
23	50	13.9	2.0	8.4	1.88	TRUE
23	40	11.1	2.0	5.4	1.88	TRUE
23	30	8.3	2.0	3.0	1.88	FALSE
23	20	5.6	2.0	1.3	1.88	FALSE
23	10	2.8	2.0	0.3	1.88	FALSE

At July's club night we viewed a video recording of the manoeuvre taken from the front row seat of an upstairs passenger. Here is a map of the situation, from GoogleEarth and the online facility of GPSVisualizer. There is also a screen grab from the video recording.

Below: Northbound buses take two hard left turns as they go in to Albany bus station.



Below: Data at one second intervals, but with date and time masked to preserve the privacy of the bus driver.

Latitude longitude speed (kt) course checksum

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$GPRMC,[redacted]A,3643.2552,S,17442.852,E,20.37,350.59,[redacted],,,A*4C
$GPRMC,[redacted]A,3643.2498,S,17442.8509,E,19.1,351.65,[redacted],,,A*40
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$GPRMC,[redacted]A,3643.2392,S,17442.8488,E,18.92,351.71,[redacted],,,A*45
$GPRMC,[redacted]A,3643.2339,S,17442.8478,E,18.62,350.47,[redacted],,,A*48
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$GPRMC,[redacted]A,3643.219,S,17442.8449,E,17.27,352.49,[redacted],,,A*4A
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$GPRMC,[redacted]A,3643.1994,S,17442.8323,E,12.16,317.92,[redacted],,,A*44
$GPRMC,[redacted]A,3643.1984,S,17442.8282,E,12.49,311.88,[redacted],,,A*46
$GPRMC,[redacted]A,3643.1984,S,17442.8236,E,13.32,304.03,[redacted],,,A*42
$GPRMC,[redacted]A,3643.1991,S,17442.819,E,13.33,282.96,[redacted],,,A*48
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$GPRMC,[redacted]A,3643.2141,S,17442.7745,E,12.96,232.9,[redacted],,,A*4D
$GPRMC,[redacted]A,3643.2173,S,17442.7722,E,12.67,215.84,[redacted],,,A*42
$GPRMC,[redacted]A,3643.2206,S,17442.7706,E,12.81,212.47,[redacted],,,A*42
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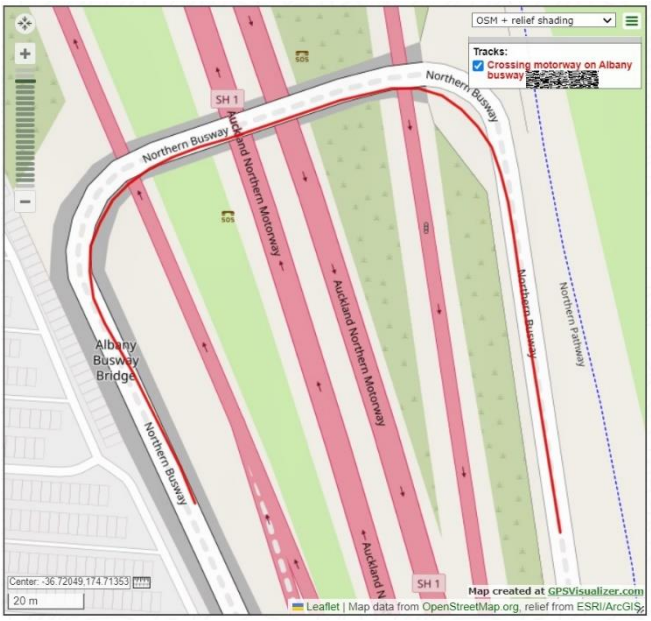
$GPRMC,[redacted]A,3643.2518,S,17442.7863,E,19.64,154.26,[redacted],,,A*42
$GPRMC,[redacted]A,3643.2568,S,17442.789,E,19.39,154.64,[redacted],,,A*46

I have noticed that the current advice is that buses should have ESC (electronic stability control), which appears to compensate for the imperfect control that a driver might have on a slalom course. It does not improve cornering performance.



Have a look at this video clip to see how drivers of London buses are put through an experience on the skidpan at Chiswick. Here the road surface is doused with water, to ensure the tyres will not get enough grip to induce a tip over situation, nor of course to send the bus in a circular path along the road surface.

And just in case you are thinking your GPS record will assist you to defend a driving infringement, do bear in mind:

The infringement bureau will say the manufacturer will not vouch for your data in court.

The calibration laboratory tests camera clocks once a year against its rubidium standard but then leaves the quartz crystal camera clock to its own devices until the next check.

On the one occasion that I have questioned the calibration laboratory measurement the laboratory has made a simple arithmetic mistake in its calculation.

However the Coroners Court has accepted, in a different case, my GPS data to support a statement of time and place.

Further reading

1. https://www.nist.gov/pml/time-and-frequency-division/popular-links/time-frequency-z/time-and-frequency-z-g
2. https://www.gps.gov/systems/gps/space/
3. https://www.rfwireless-world.com/Terminology/GPS-sentences-or-NMEA-sentences.html
4. https://www.youtube.com/watch?v=eiWLUiGnprI
5. https://www.nzta.govt.nz/resources/rules/passenger-service-vehicles-1999/
6. https://en.wikipedia.org/wiki/Yuba_City_bus_disaster
7. https://www.dailymotion.com/video/x2p8tso
8. https://fyi.org.nz/request/2471-request-for-calibration-test-data-for-speed-camera-and-photographic-evidence
9. CSU-2020-HAS-000047

What's So Great About Ham Radio?

US Ham Radio School promo material

Maybe you have heard about ham radio from a licensed friend or family member who has answered this question for you from their perspective. Or, perhaps you have only heard that ham radio is great for emergency communications, and the rest is a murky pit. Either way, let us share with you our view of the top 10 best things about ham radio and help you gain a better understanding of why over 3/4 million US citizens currently possess a ham radio license.

NASA astronaut Doug Wheelock, KF5BOC, Expedition 24 flight engineer, operates the NA1SS ham radio station in the Zvezda Service Module of the the International Space Station. Equipment is a Kenwood TM-D700E transceiver.

#10. Ham radio builds your self-confidence. While this might not be the first advantage of ham radio that you would expect, it is absolutely true. You will gain confidence in yourself initially by simply studying and passing your exam to earn your license -- with our study approach and materials, anyone can do it. Next, you will gain confidence in pushing-to-talk with your station microphone and transmitting your voice to all who are listening on the frequencies -- it's a bit like public speaking initially, but you will quickly gain on-air competence and commensurate confidence to communicate regularly with ease among the friendly on-air community. As you learn more about radio and operations, you will accomplish much more, perhaps by configuring a digital communications station, using satellite communications, or installing a mobile station in your vehicle -- each accomplishment boosting your confidence in your abilities along with your knowledge and experience. Try it! Get a confidence boost today by earning your Technician license.

#9. Ham radio bridges generations. The intrigue of two-way radio communications appeals to people of all ages. There is something magic and universally enticing about reaching out incredible distances with invisible airwaves to make personal contact with another human. Add the variety of operational options of voice communications, digital modes, Internet gateway activation, satellite ops, atmospheric skip propagation, and more, and the overlap of interests naturally generates connections independent of age or identity. Expand your generational influence with ham radio!

#8. Ham radio makes you part of a world-wide community. Amateur radio operators around the globe communicate with one another every day across international boundaries, sharing personal stories, exchanging station information, and extending international goodwill. I have often heard stories of hams who travel internationally and are hosted by their on-air friends in their home nation. Even if you never find yourself face-to-face with your new international associates, you can maintain a friendship with regular contacts and cordial dialog. It is an experience and an opportunity unique to ham radio operators. Join our cozy planet-spanning community!

#7. Ham radio will not allow you to become bored. It provides an enormous variety of worthwhile, interesting, and engaging activities and challenges that you might otherwise never experience. Here are just a few typical examples:

- Find and use local VHF/UHF repeaters in your area to contact other hams
- Learn how to be the net control station for a local regular on-air net meeting
- Install a mobile station in your vehicle
- Coordinate your overlanding adventure using ham radio
- Use your radio to send and receive email or share digital files
- Use your radio to make contacts through a satellite repeater or with the ISS
- Help provide communications support to local public events
- Volunteer to provide emergency communications services to agencies
- Find or start a ham club in your area and get involved in activities
- Help others learn about ham radio
- Establish an HF station for long-distance communications
- Build a digital circuit to perform a cool radio communications function
- Experiment with a new antenna design
- Activate a mountain summit with radio (Summits on the Air)
- Activate a state park or national park with a portable station (Parks on the Air)
- Activate a remote geographic location with a group of hams (DXpedition)
- Learn and operate with Morse Code via continuous wave (CW) transmissions
- Enter a radio contest and hone your on-air skills
- Participate in a hidden transmitter "fox hunt" contest
- Participate in emergency communications exercises

And SO MUCH MORE! Get your ham radio adventure started. Why wait, when there is a lifetime of experiences to enjoy?

#6. Ham radio provides an opportunity for community service. Radio communications come in handy across a lot of the public service domain. You can help administer local parades, fun runs and races, fairs, and almost any other event requiring coordination of the host team. You can

engage your community organizations to offer the services that you and your fellow hams can provide.

You can also become involved in Amateur Radio Emergency Services (ARES) to assist response services such as Red Cross, Salvation Army, and other in providing shelter and relief services and other emergency response actions. With a bit more specialized training, you can support your local civil defence agencies through Radio Amateur Civil Emergency Services (RACES). Contact a local ham club about affiliation with ARES or RACES.

Give back to your community. Earn your license.

#5. Ham radio can improve your technical skills. If you try any of the myriad activities in ham radio, or simply rub elbows with fellow hams, you are apt to find yourself picking up additional technical information about radio, on-air procedures, electronics, digital communications, and more. It's just part of the nature of ham radio -- your technical knowledge and skills will broaden naturally as you advance your learning and experience base. Advance your geekiness today! (It's quite cool.)

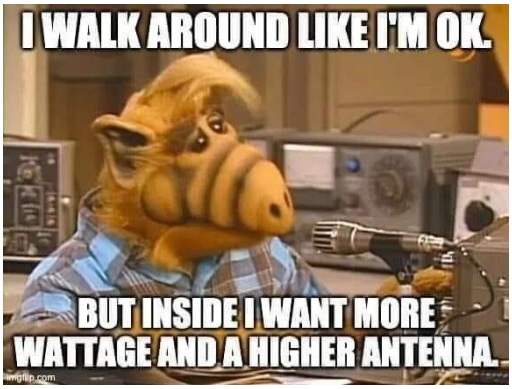
#4. Ham radio introduces you to new friends. You will make new friends on the air, chatting with other hams, but you will also make new friends in a radio club or within any organizations you engage in public service, radio education, or emergency preparedness. You are likely to find many new friends with similar interests while pursuing your license and once you are operating regularly. You will find some of the friendliest, smartest, and most generous people you have ever met in the ham community. Make an interesting new friend today with ham radio!

#3. Ham radio promotes life-long learning. It is nearly impossible for any one individual to master all of the multifarious activities of ham radio. You can continue to expand your learning across a lifetime with all the interesting things to do and challenges to meet. See #7 above for a surface scratch of some of the engaging endeavors and adventures you can have. You can steer your own learning and create your own adventures with ham radio across the wide spectrum of opportunities it provides, and you'll always find fellow hams with similar interests ready to help with your learning. Expand your mind over a lifetime with ham radio.

#2. Ham radio is the best backup / emergency communications system in the world. Cell phone networks are fragile and unreliable in emergency situations where hundreds or thousands of individuals jam the cell networks simultaneously. Further, cell communications are limited to just two parties at once. Internet and cell services are also heavily dependent upon commercial power that is often disrupted.

On the other hand, ham radio works when all else fails. It is easily powered with batteries, and a broad range of frequencies exist on which you can communicate across town, across the continent, or around the planet. And your communications are not limited to one-on-one calls. A network of numerous individual hams can share communications on a single frequency or repeater station, getting information disseminated with an efficiency superseded perhaps only by commercial broadcasts. However, those commercial broadcasts are one-way communications with multiple single points of failure and, unlike ham radio, do not provide for dialog or detailed exchanges between parties. It has been proven again and again through hurricanes, wildfires, tsunami, earthquakes, terrorist attacks, power outages, and more -- there really is no better emergency communications capability in the world than ham radio. Add comms (or bandwidth, if you prefer the 'B') to your beans, bullets, and bandages to round out your emergency prep.

#1. Ham radio is fun! As our pal and senior Elmer Bob KØNR is fond of saying, the primary purpose of ham radio is to "have fun messing around with radio." It is natural for most people to have a little initial "mic fright" and be shy about transmitting over the air the first time or two. But once you get past that common human reaction you will get a sense of satisfaction and accomplishment in having the ability to communicate with other hams with the electromagnetic magic of radio. We think the on-air communications aspect is only one of the many fun things about ham radio. We've listed many of the other enjoyable facets above, but when you add them all up they combine to produce this overarching greatest thing about ham radio - fun!



Minutes of Franklin Amateur Radio Club (Inc) Committee Meeting

held at the clubhouse, Stadium Drive, Pukekohe 4 July 2023

Chairperson Gary ZL1WGL opened the meeting at 1930 hours.

Attendance: ZL1WGL, ZL1TO, ZL1PX, ZL1ULK, ZL1UOM, ZL1BQA, ZL1GAC

Apology: All present.
Minutes of the June meeting.
The June minutes were approved true and correct. ZL1BQA / ZL1PX

Correspondence

June newsletter from Branch 13/25 and July newsletters from Branches 29, 86

13/25. Hastings branch meets at Napier following floods. One NZ announcement on SpaceX. How does Starlink work. Graham ZL2YG on his introduction to ham radio. Conference report by Warren ZLAJ. Manawatu hamcram. The Psion Organiser of 1980s vintage.

29. Four new hams from hamcram. At MOTAT 18th June. Lighthouse weekend at Tiritiri 19-20 August. Fan dipole project. Conference report. Maurie ZL1UTL gave presentation on radio controlled model boats. Auckland Library has 2410 online magazine titles.

65. Due any minute, as their general meeting is tomorrow. (David ZL1DK and John ZL1BYZ intend to operate from Farewell Spit for lighthouse weekend.)

Newsletter is now called the *Muse*. Cover picture – Stormy day from Musick Point. Repairing a Kenwood TR7800. Betelgeuse getting brighter – one day to become a supernova. Real dipoles don't do this. ZC1 Mk1 manual reprint.

Auckland Council, 28 June. They will consult with maintenance team to see whether they will agree to including driveway in the lease. *Thanks for your message and attached letter. I'll just need to have a chat to our maintenance delivery team around the driveway access to the area behind the mast. It may be that the driveway is not included in the lease area. If it is, the club would be responsible for maintenance of it. I will get back to you, if I don't please prod me. I've so many separate issues on my 'to-do' list my brain is too full! Ngā mihi | regards Jenny* (Ted suggested tonight that we will not be too worried if they take care of the driveway. Tom explained that if we maintain the drive as a gravel drive it will be less inclined to attract skate boarders close to our building)

The correspondence report was received. ZL1TO / ZL1PX

Finance:

(The treasurer has left his bank token at the beach house and will not be reunited with it till tomorrow! A report on balances was obtained by Peter ZL1PX))

Income Interest …

Expenditure Power bill for payment today $55.80

Ted said we have the AOR handheld. The other desktop scanner has a raft of faults (Off/on switch not working properly - all digits light up incoherently, etc) We have an offer from Grant Manning to purchase both for $200 total. Peter ZL1PX goes to West Harbour every couple of weeks and could deliver them. We still don't know if the big ICOM works – CRT screens suffer a lot of burns apparently.It needs to be run up. Grant is not interested in the ICOM.

The finance report was received. ZL1TO / ZL1PX
We accept Grant's offer. ZL1PX / ZL1WGL

Reports
AREC.

A Police SAREX will be held at Awhitu in September. Expressions of interest are to be sent to Richard Gamble. *Police SAREX 2023 is to be held September 1st and 2nd at Awhitu Regional Park. Those who would like to attend, please send me an email with*

name and contact cellphone number. Accommodation is limited, an option is tent or sleep in car, Saturday is the best day if you wish to attend for one day only, Sunday will possibly be workshops which may not require radio comms, more information to those who wish to attend as it come to hand. Activities would include sending and receiving radio messages, logging, and entering data into SARtrack. Cheers Richard Gamble ZL1BNQ/ZL1EXA

MOTAT Exhibit

Peter ZL1PX has something to publish about the MOTAT experience in QUA and in Break-In.

Positive Ageing Expo. September 29.

Perter ZL1PX has been appointed the sound system engineer. Selwyn hires the gear to the organisation – and Peter will help run the wires for sound. Mike ZL1UOM suggested that one trick is to use coloured sticky tape to identify the microphones, cables and the matching knobs on the control panel.

Our application form was sent to the organiser before deadline date. Bring electrical gear and extension leads to clubhouse on club night to get electrical tags done by Francois.

Junk sale

We have decided there will be no Franklin Junk Sale this year.This has been advertised on the weekly VHF Group net, and will likewise be advised in QUA.

Message from Ken Jarman – any further follow up? What is his address or phone number?

Steve Spring has his ARRL handbook, and is on Facebook

Grandparents day 1 October. Peter has not got an HF frequency that will work. He wants to use the national system.If all else fails he will operate on 2 m on Auckland repeaters.

Peter ZL1PX asked who knows about the Scout organisation for JOTA purposes. Scout activity is in Schlaffer Park. A contact phone number may be on the Scout wall. Local newspaper may have leads.

Graffiti

A small amount of graffiti has appeared on the wall and window facing the fence, first noticed on 28 June. A couple of road cones are on the roof. Care will be needed when using the ladder on soft ground.

Topic for July general meeting.

Show and tell Peter ZL1PX and Tom ZL1TO have ideas of things they are currently working on, to show the club.

The meeting closed at 2109 hours

Addendum

Newsletter received since our meeting started:

65. Altering constitution. A new material which can block or pass microwaves. Dark matter and dark energy. A battery with energy density 711 Wh/kg. Whangarei sale 23 July. Lighthouse weekend 19-20 August..

Minutes of Franklin Amateur Radio Club (Inc) General Meeting
held at the clubhouse, Stadium Drive, Pukekohe 18 July 2023

Chairperson Gary ZL1WGL opened the meeting at 1930 hours.

Attendance: ZL1WGL, ZL1TO, ZL1PX, ZL1UOM, ZL1GAC, ZL1TZP, ZL1BQA, ZL1ULK, ZL1LL, ZL4FJ, ZL1AMQ, Steve

Apology: ZL1MFL received. ZL1TO/ZL1BQA

Minutes of the June meeting.

The June minutes were approved true and correct. ZL1PX/ZL1TO

Correspondence

June newsletter from Branch 13/25 and July newsletters from Branches 03, 29, 65, 86.

03. 22 July talk by Martin ZL1MDE on Microprocessor Programming. Ian ZL1RCA described tour to Stewart Island at 24 June meeting. Awanui Radio. Homebrew 0.5 MHz to 470 MHz signal generator.

13/25. Hastings branch meets at Napier following floods. One NZ announcement on SpaceX. How does Starlink work. Graham ZL2YG on his introduction to ham radio. Conference report by Warren ZLAJ. Manawatu hamcram. The Psion Organiser of 1980s vintage.

29. Four new hams from hamcram. At MOTAT 18th June. Lighthouse weekend at Tiritiri 19-20 August. Fan dipole project. Conference report. Maurie ZL1UTL gave presentation on radio controlled model boats. Auckland Library has 2410 online magazine titles.

65. Altering constitution. A new material which can block or pass microwaves. Dark matter and dark energy. A battery with energy density 711 Wh/kg. Whangarei sale 23 July. Lighthouse weekend 19-20 August.

86. Newsletter is now called the *Muse*. Cover picture – Stormy day from Musick Point. Repairing a Kenwood TR7800. Betelgeuse getting brighter – one day to become a supernova. Real dipoles don't do this. ZC1 Mk1 manual reprint.

Auckland Council, 28 June. They just need to have a chat to the maintenance delivery team around the driveway access to the area behind the mast. It may be that the driveway is not included in the lease area. If it is, the club would be responsible for maintenance of it.

The correspondence report was received. ZL1TO / ZL1PX

Finance:

Income Interest $92.78 (6 June) and $89.75 (4 July)
Member, $220 (sale of donated goods) including $20 subscription

Expenditure Power bill paid $55.80 (4 July)

The finance report was received. ZL1TO / ZL1WGL

Reports
AREC.

A Police SAREX will be held at Awhitu 1st and 2nd September. Expressions of interest are to be sent to Richard Gamble. Saturday is the best day if you wish to attend for one day only, Sunday will possibly be workshops which may not require radio comms, more information to those who wish to attend as it come to hand. Activities would include sending and receiving radio messages, logging, and entering data into SARtrack.

Franklin Disaster Resilience meeting, 1730 hrs 18 July

Durlene ZL1ULK reported. Lots of people were present; many locals but also others from Drury, Hunua, Waiuku etc – as all are concerned if there is a disaster in our area. Flooding then Gabrielle were problems in Pukekohe area earlier this year. Next meeting 15 August with people to come back with what they can help with or provide. Netball court and Marae provided food

last time. How many have a grab bag done already? Remember can opener and water! Gary's ZL1WGL caravan is ready set up. We think there are no civil defence radios in this area. Waiuku library was set up a with big generator in the latest emergency. We, as a club, should keep our flag waving.

MOTAT Exhibit

Peter ZL1PX has published an article on the MOTAT experience in QUA. Peter was contacted by David who rewrote Peter's article and put it on *Our Auckland*. Another article has been sent to the Editor of BreakIn but Peter has not heard back from the Editor. Gary ZL1WGL congratulated Peter, saying this was very well done, and has been publicity for the club that just can not be bought.

Positive Ageing Expo. September 29.

Peter ZL1PX has been appointed the sound system engineer. Selwyn hires the gear to the organisation – and Peter will help run the wires for sound and has had lots of instruction from Selwyn. Melanie will also work with Peter to get the programme of events sorted. Durlene advised that Positive Ageing have another meeting tomorrow night.

Our application form was sent to the organiser before deadline date. Electrical gear and extension leads are being checked and tagged after tonight's meeting by Francois ZL4FJ.

Junk sale

Under normal circumstances we would have been having our annual junk sale tonight. However it was decided there will be no Franklin Junk Sale this year. This has been advertised on the weekly VHF Group net, and likewise in QUA. Nobody has arrived tonight anticipating a junk sale.

Grandparents day 1 October. Peter has not got an HF frequency that will work. He wants to use the national system. If all else fails he will operate on 2 m through Auckland repeaters. Peter has decided to go with 2 m repeaters, using 6625 in Auckland – and other centres will contact Peter. Peter will be a net controller. Peter will contact the 6625 trustee to verify the intention.

JOTA.

Peter ZL1PJH has communicated with Waiuku, Tuakau and Pukekohe scouts/rovers etc by email but to date has not heard anything back.

Graffiti

A small amount of graffiti has appeared on the wall and window facing the fence, first noticed on 28 June. A couple of road cones were on the roof. The cones have been lowered, and graffiti removed with acetone. Graffiti in the skatepark has been overpainted in the past fortnight. The immediate perimeter of the clubhouse appears to be being mowed by an unknown benefactor – so too the frontage to the public footpath.

General business

Steve is doing the Manawatu hamcram which runs Tuesdays from 7-9 pm.

The meeting closed at 2005 hours