



Franklin Amateur Radio Club Inc NZART Branch 10
Committee

President: Mike Jane ZL1UOM

Vice President: Gary Landon ZL1WGL

Secretary: Tom McDonald ZL1TO Ph. 09 238 8580
with: Ted Doell ZL1BQA, Durlene Griffin ZL1ULK, Peter
Henderson ZL1PJH and David McNeill ZL1DW.

Club examiners: Ian ZL1PZ and Tom ZL1TO.

Web page: www.qsl.net/zl1sa/

MEETINGS: The club meets on the third Tuesday each month, in the clubrooms, Stadium Drive Pukekohe, 7.30 pm. Visitors welcome.

VOLUME 28 ISSUE 7

The committee meets on the first Tuesday of each month (excepting January) at 7.30 pm in the clubrooms.

Subscriptions \$20.00, family \$30.00.

Nets every Sunday at 9.00 am on 3.700 MHz (controller ZL1UOM) and 9.30 am on the 146.900 MHz repeater (controller ZL1PZ). 2 metre frequencies are 145.775 MHz, then 146.625 MHz, and 146.900 simplex if repeaters off air.

Newsletter: Editor Tom ZL1TO tom.mcdonald@xtra.co.nz
A copy is sent to members and clubs in the Auckland area. Sent free of obligation by e-mail to anyone interested.

Mid-winter Dinner, Friday 17 July

A pleasant gathering of 26 amateurs and their families took place at Pukekohe Cosmopolitan Club on Tuesday 17 July.

The guest of honour was Ian Sexton ZL1PZ, who had joined the Centenarians earlier in the month. Ian is already a Life Member of this club, so we presented a Certificate of Appreciation that records some of Ian's achievements. Ian Ashley ZL1AOX presented a good wishes card from the members of Papakura Amateur Radio Club.



Above: Ian receives a certificate of appreciation during the midwinter dinner.

Right upper: Ian ZL1PZ operating during HF Field Days 1986.

Right lower: The clubhouse build team takes a smoko break in the 1950s – Ian Sexton, Bet Bettany, Neill Grusning, Roy Needham, Merv Heath

Club Notice Board

General meeting, Tuesday 21 July

The formal business starting 7.30 pm should not take long!

We will finish the meeting with the Club's decision on the single remit to NZART Conference.

The remaining time will be a pot luck session.

Car Club Rally, Sunday 2 August

Three stations have volunteered to be part of Papakura's presence for safety communications.

Franklin Junk Sale

Just in case you are wondering, this year's sale has been cancelled. You are right – It usually is at this time of the year!





Minutes of Franklin Amateur Radio Club (Inc) General Meeting held in the Clubrooms Stadium Drive, Pukekohe, 16 June 2020.

Chairman Mike ZL1UOM opened the meeting at 1935 hours.

Attendance: ZL1UOM, ZL1TO, ZL1PZ, ZL1PJH, ZL1BBZ, ZL1WGL, ZL1BQA,

ZL1TZP, ZL1ULK, ZL1LL, ZL1MJL, Jason, ZL1ERI.

Apology: ZL1GAC

ZL1WGL / ZL1BQA

Minutes of the on air meeting 14 May 2020 approved.

ZL1WGL / ZL1PJH

Correspondence:

Newsletters from Branches 03, 12, 13/25, 65, 66, 29, 80, 86 as in June QUA.

Correspondence report received.

ZL1UOM / ZL1TO

Finance:

Expenditure:

Watercare and Contact Energy bills had been paid by Treasurer.

Reimbursement cheque for \$144.76 to Tom ZL1TO has been paid since statement date. This covers power bills paid early February, April and May together with Watercare.

The finance report was received.

ZL1TO / ZL1PJH

A discussion on the future of cheques and banks and benefits of direct debit ensued.



Minutes of Franklin Amateur Radio Club (Inc) Committee Meeting held in the Clubrooms Stadium Drive Pukekohe 7 July 2020

Chairman Mike ZL1UOM opened the meeting at 1931 hours.

Attendance: ZL1UOM, ZL1TO, ZL1BQA, ZL1PJH, ZL1ULK, ZL1WGL, ZL1BBZ

Apology: ZL1DW accepted

ZL1BQA / ZL1WGL

Minutes of the June meeting 2 June 2020 approved.

ZL1WGL / ZL1PJH

Correspondence:

Newsletters from Branches 65, 80, 86

Correspondence report received.

ZL1TO / ZL1BQA

Finance:

Expenditure:

Reimbursement of \$144.76 has been paid.

Contact Energy has been paid \$27.67 for power to June.

Counties Power discount \$22.50 included.

Watercare account is \$6.22 in credit.

Receipts:

Subscription \$20 and potentially another sub online.

The finance report was received.

ZL1BQA / ZL1TO

Reports:

AREC: A car club rally is set for 2 August. Three teams from Franklin will assist - ZLULK, ZL1MFL, ZL1PJH.

CW Training on 3755 KHz: Is continuing.

General Business

Reports:

AREC: As reported in minutes in June QUA. A car club rally is set for 2 August. Rally of New Zealand 2020 has been cancelled according to media announcements.

CW Training on 3755 KHz: Peter ZL1PJH commented that increasing the speed is not for everyone. Peter has reached a plateau at 11 wpm. Another CW school is working on 3580 kHz.

General Business:

Mid-Winter Dinner: The dinner will be at Pukekohe Cosmopolitan Club, Friday 17 July 6 pm for 6:30 pm. Cost \$21 for main only or \$25 if an individual wants dessert as well. Names taken tonight. Bob ZL1BBZ reminded all about the necessity of signing in as you enter.

Papakura Radio Club have been invited. We will do some kind of celebratory recognition of Ian ZL1PZ who will have reached 100 years old on 2 July.

Afternoon tea: Ian ZL1PZ extended an invitation to club members to come for an afternoon tea and natter at 2 pm Saturday 4 July, Pukekohe RSA.

QUA: Thanks to Steve ZL1TZP for the articles he has put forward for publication. All contributions to QUA are gratefully received.

Peter ZL1PJH reported that the Welfare net at 8.30 am daily (except Sundays) is now called the 690 net. It is being kept going, with between 5 and 9 attendees.

The meeting closed at 2030 hours and was followed by a show and tell.

Mid-Winter Dinner: The dinner will be at Pukekohe Cosmopolitan Club, Friday 17 July 6 pm for 6:30 pm. Cost \$21 for main only or \$25 if an individual wants dessert as well. 15 names so far from Franklin, 10 from Papakura.

We will do some kind of celebratory recognition of Ian ZL1PZ who reached 100 years old on 2 July. Wording of a Certificate of appreciation is sought. Secretary is to see if he can make July Break-In deadline with an item for Around the Branches. Bob ZL1BBZ has been exploring his suggestion for entertainment in the lounge after dinner. ZL1BQA doubted that enough people would stay after eating, and that they will disperse. Speeches are to be brief and before main and dessert. The meeting agreed by consensus that entertainment was a commendable idea but not practical.

690 Welfare net continues daily except Sunday at 8:30 am.

Jumbo Trophy: No ideas came forward for a suitable competition for this trophy now that indoor bowls is ending.

Security fence. Clamps have been tightened.

Clubhouse roof. Has been gradually losing lichen and moss as the chemical treatment takes control.

AREC – training schemes – Two are interested. Tom ZL1TO will respond in next day or so to an AREC letter from Andy Brill.

July 21 meeting: Remit plus anything that arises from QUA.

Gary ZL1WGL has collected an antenna tower. It is 10m long, in two pieces of triangular section, made of steel pipe. Will list this on TradeMe unless a club member is interested.

The meeting closed at 2125 hrs

03. Exam pass new callsign Ryan ZL2RJH. Midwinter dinner 22 July. David Probine to speak on Erebus crash 25 July. Virtual ham expo 8-9 August. Hamilton sale 29 August. Taranaki sale 26 September. Western Suburbs sale 7 November,

29. BBS station closing 27 June. Observations of radio useage during lock-down. Active Ageing Expo postponed. Waitakere SAR activity 2 May – a report. Auckland LandSAR training Blockhouse Bay 10 June. ZL1GMB antenna project.

65. Morse training nightly except Wednesdays at 1930 hrs. DXpeditions – NZ subAntarctic Islands, Kangaroo Island, Bouvet etc. Solar eclipse. Lighthouse weekend 22-23 August. Voyager 2 passes heliopause.

80. Ten pin bowling 12 August. Midwinter dinner 19 September. Some unsold items after 10 June junk sale. Opposing Whangarei plan re amateur aerials – fighting fund set up. Membership data form.

86. AGM 12 July. Intrusions on two occasions. Pan Am video series online. Virtual Ham Expo 8-9 August. Timeless cartoons from CQ magazine. SMS gateway via APRS radios. New Plymouth sale 26 September.

The second hotspot I built used the DVMega and a Raspberry Pi 1 B+ (this Pi is an upgrade on the one used previously). I built this Hotspot into an old router case, it included a rechargeable battery and inbuilt charger, which made it portable.



Figure 2: Portable hotspot

The Raspberry Pi is usually powered from a USB Power supply as used for charging most Android mobile phones, that is a 5V supply.

For portable operation I needed a battery supply. I also required it to be rechargeable, and decided on a single Li_{ion} cell (3.7V). Fortunately small voltage up converter boards to do this are readily available. As are USB charge controller boards specifically for charging Li-ion batteries. Using these I was able to make a fully self contained rechargeable and portable Hotspot using a Raspberry Pi for D-Star.

3 Raspberry Pi - Part 3

Time to go portable

Continuing from previous article discussing a high powered hotspot I built for D-Star.

Not long after building the first hotspot, I heard about a new transceiver board that plugs directly onto the Raspberry Pi header pins, it's called DVMega. The DVMega eliminates the need for an interface and a USB audio dongle.

It's transmitter is only 10mW. Using the DVMega it is possible to make a compact and portable Hotspot.



Figure 1: DVMega

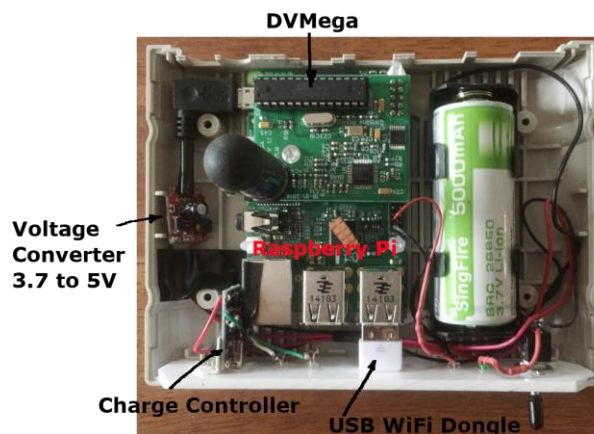


Figure 3: Portable Hotspot internals

What about DMR or Yaesu System Fusion (YSF) you say? Can we do the same for those DV modes when there are no local repeaters?

Let us see, next month will answer those questions.

Steve ZL1TZP

NZART

Its not them

Its us