

THE MUSE



-----AUGUST 2025-----

The newsletter of the MUSICK POINT RADIO GROUP (INC.) NZART BRANCH 86
Incorporating The Society for the Preservation of Amplitude Modulation (SPAM)
and **Green Radios On The Air (GROTA) News.**

Musick Memorial Radio Station, Bucklands Beach, Auckland. Call Signs ZL1ZLD, ZL1ZLF.
BRANCH 86 NZART NET- TUESDAYS, 7.30PM, 145.775 MHz, Musick Point Repeater (ZL1HK). All welcome!
SPAM WEB SDR Remote Receiver - <http://spamnz.zapto.org:8901/>
MPRG KIWI SDR Remote Receiver- <http://musickpoint.ddns.net:8073/>
Musick Point Website- <https://musickpointradio.org> Webmaster-Neil ZL1NZ.
AM Nets- Fridays ZL6AM (SPAM) net at 8.30PM, 3.850MHz, Wednesdays ZL1ZLD at 11.30Hrs, 7.125MHz
Museletter Editor- Martyn, ZL3CK.
Meeting- Second Sunday of the Month (Except May-Third Sunday, to avoid Mothers' Day)

NEXT MEETING- Sunday AUGUST 10th @ 1pm. Coffee and tea provided.

NOTE- This will include voting for our new constitution.



Musick Point 'Repair shop'- Harry ZL1BK, Dave ZL1DL, John ZL1OJ (observing) and Keith ZL1BQE

From the Chair

I am back on the Betelgeuse thing again. This supergiant sun in the constellation Orion has just recently been discovered to have a companion star, nicknamed Betelbuddy, but now having been given the name: Siwarha which means “her bracelet” in Arabic. The star was discovered using “speckle imaging” which involves using a very high shutter speed and taking thousands of images over a few milliseconds. The resulting images are then assembled into a bigger image using advanced algorithms, and that is how the companion was confirmed. Betelgeuse has long been known, by astronomers, to have a pulsation cycle of about 400 days, which is caused by a short period of contraction, when it dims slightly, followed by expansion bringing it to ‘normal’ again. In 2024, a number of independent studies found that it also has a roughly six-year cycle of variability in its motion and brightness. This is common in other star systems, but it was suggested that Betelgeuse might have a companion which could be the cause. This would be possible if it was a spectroscopic binary system, meaning that could not be seen as a binary because they were too close to be discerned. Betelbuddy, oops, I mean Siwara, is almost certain to cause the six-year cycle, being its orbit. Enough amateur (very) astronomy.

I used to think that drinking was bad for me.... So I gave up thinking. After all, alcohol might not be the answer, but it's worth a shot.

.So, finally, the venue for the Centenary NZART Conference, next year, has been fixed. It will be at the Waipuna Hotel and Conference Centre over the King's Birthday weekend next year. This is a good venue for those coming from out of town because of the hotel right there within a minute's walk. More details as they come to hand. See you there, I hope.

Some days I feel like I'm surrounded by idiots. Other days, I realise that it's not just some days.

A few of us usually make it to the club on a Friday night. Unfortunately, we have had no suggestions of radio related activities that we could do, so some time is given over to tidying or cleaning somewhere or fixing something. Basically, the place needs a good spruce up, but we are restricted in what we can do. Dave, ZL1DL, usually has some personal project on the go, so we spend a bit of time on that. Before the AM Net begins, we will usually stop for a coffee, what a surprise, and either go and listen in for a bit, or head off to continue on whatever project we were working on before.

If you have a big or small radio related project on the go, why not bring it along on a Friday night for a couple of hours, when someone will be glad to help or advise or just get in the way. We do have coffee ☺, and it will be a change for us to have company. Otherwise, you could just sit and listen to Martyn (usually) or Rob (occasionally) running the AM net, and drink your coffee there, if you wish.

Breaking news: Today, I used a piece of wood that I've kept in my garage since 2006 just in case I might need it.

At our August General Meeting, we will be having a special time devoted to discussing and, hopefully, accepting our new Constitution. Martyn has invested many, many hours in writing the numerous drafts, and finally settled on the latest version which incorporated changes made to the NZART constitution at the Conference this year. This was sent to NZART for approval, which was forthcoming. For all those details, see the copy at the end of this newsletter.

Please make an effort to attend so that we can let Martyn relax and get it off his mind – at last. A good turnout would be great, remember that this is your club and the Constitution is the rulebook for how we conduct our ‘business’ of running the club.

We have been endowed with just enough intelligence to be able to see clearly just how utterly inadequate that intelligence is when confronted with what exists. Albert Einstein

That's it for now, until next month:
73, and call CQ
David, ZL1DRV

Musick Point News

Minutes!

Unfortunately The Editor omitted to attach the June meeting minutes to the last MUSE. It is attached this time with the minutes from the July meeting as well.

New Constitution

At last we have one, now approved by NZART. it is attached to this newsletter for your appraisal and will **be voted on next meeting**. This is important as it has to be accepted by the registrar of Incorporated Societies (before April next year) for us to remain as an incorporated society. Being an “Inc.Soc” has many advantages and protections, not the least of which is that you cannot be held liable for the actions of another member. The final (we hope) version is attached.

NZART 100 years Conference 2026

The venue has been chosen-it will be the **Waipuna Conference Centre** and hotel. It has many advantages with plenty of space and a hotel on site. Also, it's only a 10 minute drive to Musick Point.



Views of the conference venue at Waipuna Lodge, Pakuranga, Auckland.

Graham ZL1TOF and **Dave ZL1DL** among others are working away at various tasks to make the station more presentable.

The museum room has had some changes already, and there's more to come.

Neil ZL1NZ has looked over the Morse Key collection and has advised on their individual stories. We have an extra "Flameproof" Key which we will offer for sale (See ZLham below).

Our magnificent **ICOM 7700** has been repaired by the replacement of a faulty driver component, and is back in service. Excellent 'sleuthing' by **ZL's 1BK, 1BQE & 1DL**, a great cooperative effort, thanks guys.

Cleaning up the painted surfaces in the entrance foyer has been an ongoing project for **Dave ZL1DL** who has been seen on the end of a long-handled paint roller applying anti-mold to the affected areas. **Graham ZL1TOF** is slowly working his way down the stairs re-affixing the carpet with sweet-smelling glue and heavy Transformer and roll of wire for weights, and also helping with the museum tidy up.



Dave 'the roller' in the foyer...and Graham checking over the valve collection in the museum room.



Last Meeting we had a talk by Graham on circuit simulation, and was an eye-opener for those of us without a technical background. Graham has kindly sent the following article covering his talk.

Electronic Circuit Simulation by Graham Baker ZL1TOF.

In the beginning of the twentieth century charts and formulae were published to help designers make the best use of expensive parts. Digital computers in the 1950's were used to improve circuits and make excellent filters in time for color television (deliberate US spelling). In the late 1960's circuit simulation was used by the developing IC industry. In 1972 the CANCER software used by department of defence (USA) to investigate the radiation hardness of circuits was modified at the University of California, Berkeley. The new software was called SPICE (Simulation Program with Integrated Circuit Emphasis) and placed in the public domain.

When personal computers came available in the 1980's it took some time to run a simulation of a simple circuit. If I remember right, there was no circuit capture, just enter the net-list and run. Printout on a character printer including the graphs, after a long wait – go for a coffee. I used SPICE, PSPICE and later SIMetrix, the programs got easier to use and faster.

Today there are many free programs available to do circuit simulation. I use the defeatured version of the expensive one we used at work. I use simulation to get an understanding of how circuits work, to discover if new ideas are likely to work and to tune and optimise designs. Electronic engineering students use simulation to learn about circuits. There are a lot of simple examples on the internet. One problem that can be analysed is the loop stability of a switch mode power supply. Very difficult on the hardware and not easy to see the sensitivity of each component as well as a high risk of smoke release.

Most simulations begin by entering a schematic to create a net-list. The net-list is analysed and errors reported. A couple of typical errors are no ground net, and node with no DC path to the ground net (two caps in series will cause this). Then the circuit gets analysed for DC bias or quiescent point and the capacitors and inductors are charged (there may be initial settings for capacitors and inductors). Then your analysis is run and output generated. The output can be graphed or you can probe the circuit and see the voltage, current or signal like using a meter or scope.

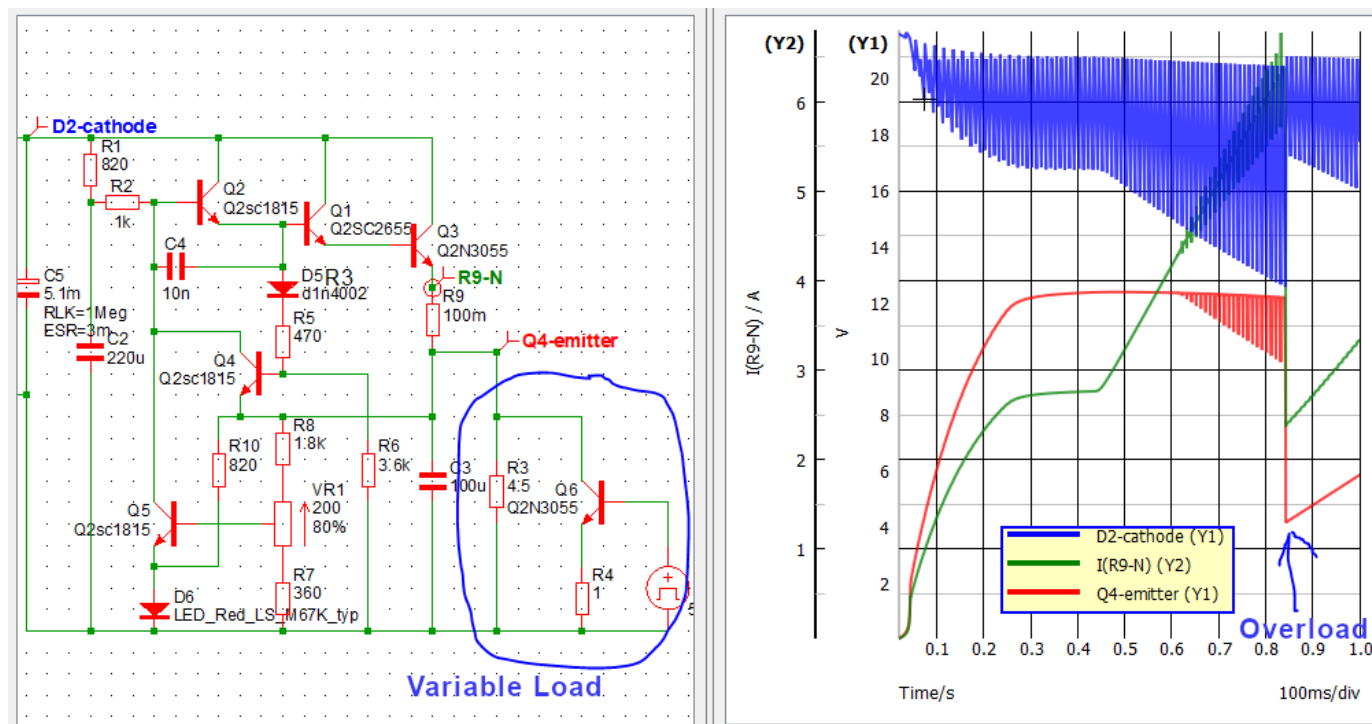


Figure 1. 12 volt 3 amp linear power supply simulation. (ECSim1.png)

Today there are many components available from discrete resistors, capacitors, inductors and transistors of all types to linear and digital ICs. Most components are ideal. Transformers and inductors can have lossy core material. Component models may be brought in from the internet. Circuits may be transferred between different simulation programs.

I demonstrated a Transient simulation of a simple circuit which provided a time vs voltage graph of the output, just like an oscilloscope. In the graph we can measure the voltage and time of any part of the curve. Then there are more measurement functions like peak to peak, maximum and minimum voltage, RMS value, distortion, and even a Fourier for a spectrum of the signal.

I then demonstrated the frequency response of the circuit using an AC analysis. I looked at the recently built VHF-UHF diplexer and showed it gave similar results to the NanoVNA on the real thing. It was a surprise that it came out so close as I had not measured any of the parts. Its important to do a "sanity check" that simulations reflect the real world. I could have added the stray capacitances to see their effect and measured the power dissipated in the ESR of the capacitors then work out from the capacitor data sheet the maximum input power.

Usually the simulation is for part of a circuit. When I showed my simulation of the passive infrared sensor from the generator room it had no PIR parts or the op-amps that sense the person or any of the power supply and light switching triac. I wanted to understand how the voltage comparator was supposed to work because it made no sense with a couple of input pins transposed. See my story in The Muse April 2025.

Figure 1 shows part of the power supply we were going to modify to supply 5 volts for the Kiwi SDR. First efforts caused it to shut-down on almost no current. I found D5, Q4, R5 and R6 were responsible for the shutdown when overloaded. Different values for R5 and R6 would have solved that problem. Then we needed to take a few turns off the transformer secondary to get the Q6 pass transistor to a reasonable dissipation, too hard. The solution was to get a plug pack to do the job.

Transistor characteristics change with temperature. Simulations can be run at different temperatures or over a range of temperatures. The value of components can be changed over a range of values and the output plotted on one graph. All the component values can be varied in the Monte Carlo analysis.

I hope that gives you an idea of what simulation can do and in the future you may give simulation a try on some circuits that you are working on.

Green Radios On The Air- July report from Kelvin ZL3KB

A Winter GROTA Trial.



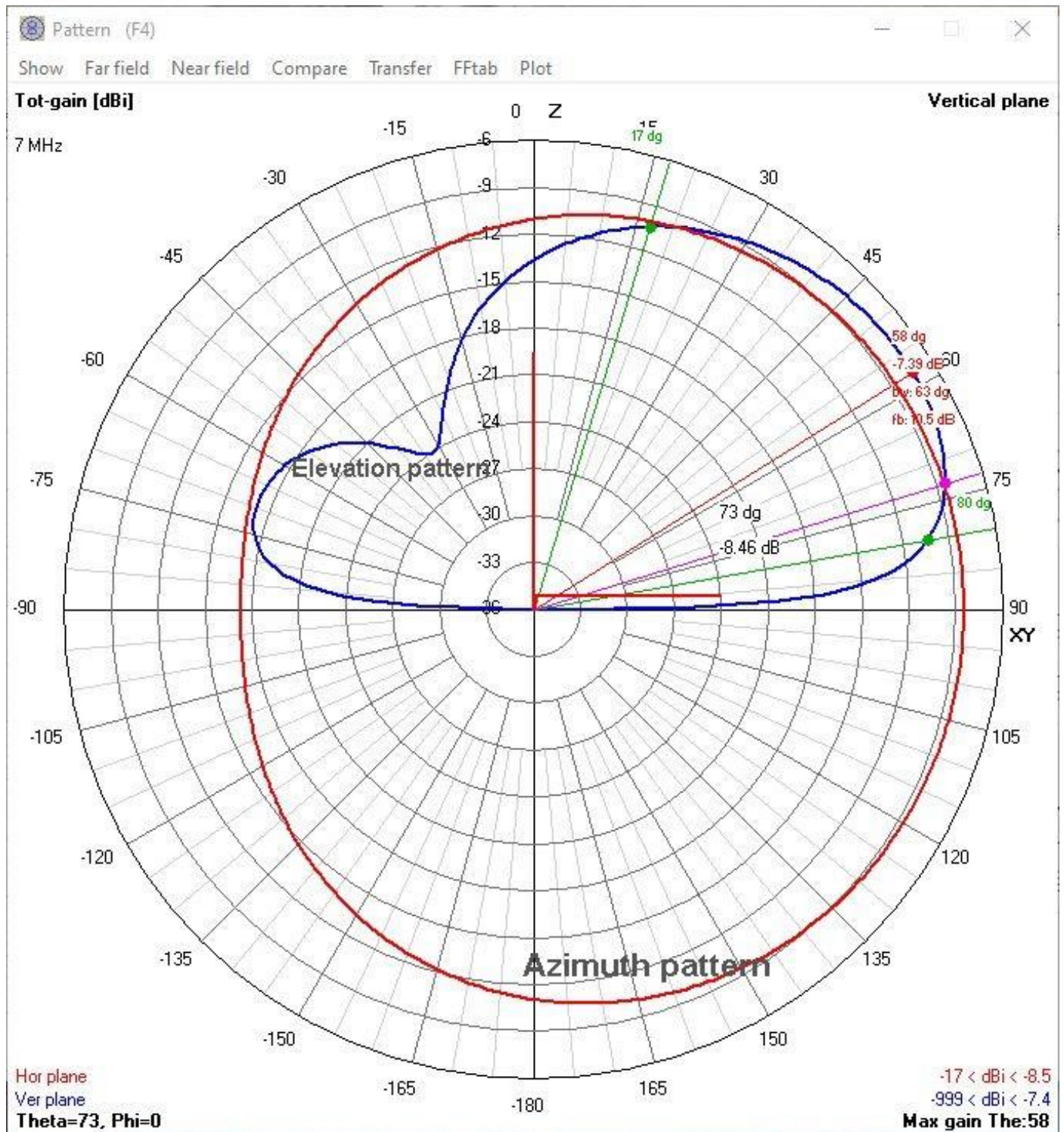
Kelvin ZL3KB trying to convince us it's cold in winter in Canterbury!

The scheduled GROTA Sunday dawned sunny, which bode well for our field trials. This time there was no real scientific objective; it was enough to just to get out after so many weeks of freeze. All loaded with WS48 backpack sets, Des ZL3AK and myself ventured up into the port hills, Bruce ZL3TFM setup in Bexley Park and Aidan ZL3APB in Sparks Road, Halswell , (maybe the place name explains the high QRM there). We had some home stations too, Bryan ZL3BHS, Kevin ZL3ABY and Dave ZL4DK in Mosgiel on a ZC1 & 25Watt ZA1 setup. All operations were on 40m.



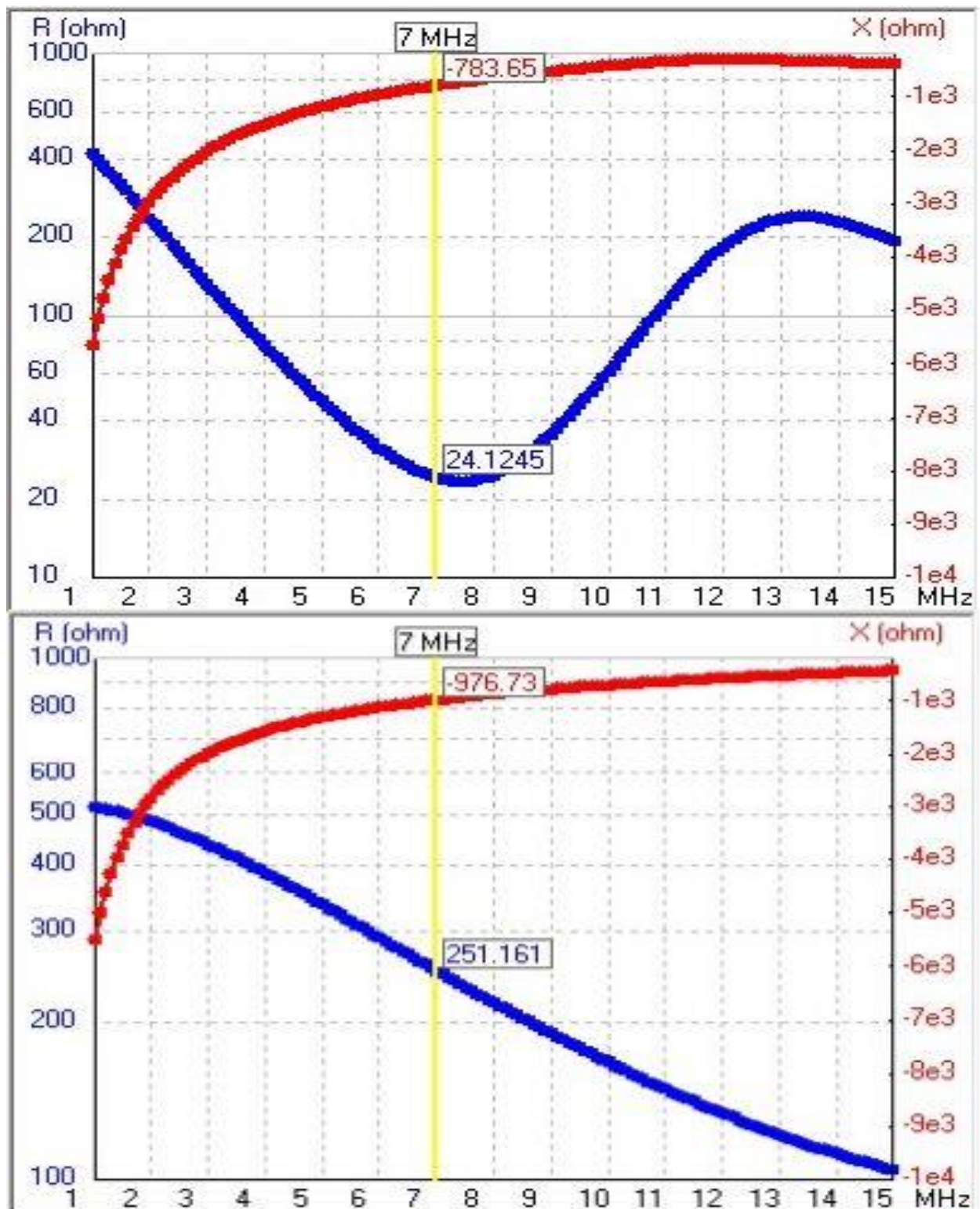
Aidan ZL1APB's Field Station, Sparks (appropriate!) Road Halswell.

The hill stations could contact most of those on the flat, but the 14km Halswell to Bexley was too far for any ground wave to survive. Half an hour into the trials, Dave from Mosgiel (**320km!!**) started to be heard on NVIS, and just got stronger over the next 30 minutes. In the end all four of our WS48 sets (20mW EIRP) were received by him, so well done the ionosphere again! 'We got to Dunedin by Solar Cycle'. Strong, cold winds drove us off the hills, and the pub was calling.



Horizontal and vertical plane plot at 7 MHz with a 10' aerial and 24' counterpoise.

We did have a small scientific component that day; in the past we have tried using a 24 foot counterpoise wire, laid in the direction of the other station, but sometimes it has no effect, and sometimes it even degrades the signal! On this day we noticed the counterpoise did improve things to local stations, and predictably by swinging it in the opposite direction it had the opposite effect, but no skywave comparison was done.



Aerial Impedance plots with 10' aerial and 24' counterpoise (top) and without counterpoise (bottom)

When modelling the antenna in 4NEC2 we have to accept this package does not model surface wave very well, but results show the radiation pattern over average ground is enhanced in the direction of the counterpoise. Also, the antenna resistive component is considerably lower, (24 Ohms versus 251 Ohms) showing the ground losses have been significantly diminished.

This in itself probably accounts for most of the radiation pattern shift, but these impedance figures need to be verified with measurements. Yes, a predictable result, but a positive result is still interesting! Now to find out why it sometimes does NOT work.

Keep the radios green. Till next time.

Kelvin ZL3KB

Free Amateur Radio Buy, Sell and Wanted website-

See “ZL Ham Ads” at- <https://ZLham.net.nz>

“The Machine”, the FAMOUS MPRG Blog is found at- <https://MPRG.zlham.net.nz>



The **TK11** Quadband Handheld
from Quansheng - available now
(Special pricing available to MPRG members)

from **QUANSHENG**
inteltec™
Integrated Electronics
<https://intelec.nz/quansheng>

Your Advertisement Could be Here!

Contact the editor if you have something you need to find a new home for.

Minutes of the General Meeting of the Musick Point Radio Group
June 8th, 2025 Commenced at 1304.

Present- ZL1DL, ZL1DRV, ZL1EC, ZL1MRT, ZL1TOF, ZL1OJ, ZL2MOH, ZL3CK,

Apologies-ZL4ROB

May G.M. minutes- Matters arising- Nil.

Accept as published- Moved- ZL1DL, Seconded- ZL1TOF- Carried, unanimous

Finance- ZL1DL-

Financial Statement for May- In \$853.96, out 161.98 (internet)

- Total Funds in bank \$12,312.51

ZL1DL noted another increase in internet charges anticipated.

A number of membership subscriptions outstanding. Only 15 have paid so far. A reminder to be sent with next newsletter.

Accept financial statement - Moved ZL1TOF Seconded ZL3CK. Carried Unanimously.

New Member-

Charles Graves ZL1RKO Sponsored by ZL1DRV. Accepted unanimously.

General Business-

Centenary 2026- current plans of the newly formed committee discussed.

MPRG's role probably to offer visits to the station. Actions required-

1. Spark to be contacted regarding permission for this. ZL1DRV/ZL1DL
2. Tidying up and repairs- ZL1TOF and others working steadily at the repairs,

NZART Remit Results discussed. The amended remit 2 clause now allows non-NZART members to be "associates" of the branch but will have no voting rights *on NZART matters* (as distinct from club matters) or to hold office in the branch. This will be added to the new MPRG constitution to be circulated shortly.

Next year's NZART Centenary/Conference- ZL's 1DRV and 3CK are on the committee which meets in person or by zoom every 2 weeks or so. Ellerslie convention centre more or less agreed to be the venue but further visits to Waipuna and Alexander Park will be made as NZART and the venues do not need confirmation/payment until end of month. Final decision has to be made by then. NZART are to provide the finance.

Meeting concluded at 1323

Brief photo presentation of Conference '25 by ZL3CK after the meeting concluded.

Minutes taken by ZL3CK.

Approved-ZL1TOF

Seconded-ZL1MRT (Signed) ZL3CK Secretary MPRG 13 July 2025)

Minutes of the General Meeting of the Musick Point Radio Group
July 13, 2025 Commenced at 1300.

Present- ZL1DL, ZL1DRV, ZL1EC, ZL1MRT, ZL1TOF, ZL1OJ, ZL2MOH, ZL3CK,

Apologies-ZL2JDH

June '25 G.M. Minutes-

Inadvertently omitted from the newsletter- thus minutes read out to the meeting.
Matters arising- Conference 26- Deposit for centenary conference should have been paid by now (by NZART) Zoom meeting of organising committee (Includes ZL1DRV & ZL3CK) for next week.

Accept June minutes as read out- Moved- ZL1TOF, Seconded- ZL1MRT-
Carried, unanimously

Finance- ZL1DL-

Financial Statement for June - In \$153.05 , out \$270.74 (includes QST Sub.)

- Total Funds in bank \$12,203.82

ZL1DL has again investigated internet contract, although we have a data cap and it is an "old" contract, we don't use near the cap and any new contract would be more expensive.

Accept financial statement - Moved ZL1DRV Seconded ZL1MRT. Carried, unanimously.

Correspondence-

emails from Wayne Sneddon re visit, (? no-one has replied, Sec to do) Kinnon Pang re exam (Successful- now ZL1MGY) and Mick Gannon requesting QSL card (SAE on its way to our PO Box).

General Business-

Tidying up and repairs- ZL1TOF reports carpet repairs nearly complete. ZL1NZ came last Sunday and helped ZL3CK in the museum tidy up. Surplus equipment from museum stored in the far end office.

Rats are here again! Trap to be set (ZL1DL)

Lighting circuit problem has been sorted by our registered electricians- thank you David and Maurice.

Leaks identified in latest downpour on Friday- ZL1DL purchased buckets for the repeater room and workshop. Noted the flat roof over workshop still not repaired.

Meeting concluded at 1330.

Graham ZL1TOF then gave a demonstration on his laptop how a circuit design program works, using a capacitor, DC or AC source, and resistor as an example circuit, with resultant waveforms and voltages being produced.

Minutes taken by ZL3CK.

The Musick Point Radio Group Incorporated

-----Constitution 2025-----

Name

The name of the Club shall be "The Musick Point Radio Group Incorporated"

1. Objects

The objects for which the Club is established are:

- a. To promote an interest in, and further the use of, all aspects of amateur radio.
- b. To provide a means of teaching and experimentation in order to spread knowledge of all areas of amateur radio.
- c. To establish and maintain radio installations in order to provide a service to the amateur community.
- d. To promote and operate such installations as a means of communications in emergency situations, and to actively seek situations whereby such communications can be practised. To be available to any government, local body, or any other legal authority for use in any state of emergency.
- e. To cater for such other activities of the members as from time to time shall be determined.
- f. To raise funds by any legal means to provide plant, buildings, equipment, facilities and amenities for all or any of the foregoing objects.
- g. To acquire, purchase, hold in trust or sell land and building, plant, equipment, apparatus, facilities and amenities for all or any of the objects above set forth.
- h. Deleted. (The South Auckland Repeater Group as a separate entity has long been inactive).
- i. Generally to do all such things as would attain and further the above objectives and promote the social welfare of members and the community.
- j. To actively promote and encourage membership of the New Zealand Association of Radio Transmitters Inc.

2. Membership

- a. Membership of the Club shall be open to all persons having an interest in any of the objectives above set forth and who at the sole discretion of the committee is of good character.
- b. All applicants for membership shall be sponsored by a financial member.
- c. Application for membership shall be made in writing on the prescribed form and forwarded to the Secretary. This shall include consent to the rules of the club. The application shall be subject to approval by the committee at its next meeting and the applicant advised in writing of the committee's decision. The decision shall be declared at the next meeting.

- d. The Club shall reserve the right to reject any applicant for membership but shall not be required to state their reasons for such rejection. The matter shall be open for discussion but the final decision shall be decided by a majority vote of members present.
- e. The annual fee payable by a member shall be determined at the Annual General Meeting, or at any other meeting on notice of motion.
- f. The Club may at any Annual General Meeting elect one or more honorary members, and may elect any person, patron, and/or honorary vice chairman.
- g. A person joining the Club for the first-time shall be entitled to a reduction in dues on a pro-rata monthly basis for that first year only.
- h. The Club may at its annual general meeting upon the written recommendation of the committee, and by a majority ballot of those present, appoint any member of the club to be a life member of the club. Such life members shall pay no further subscriptions.
- i. The Club may admit to membership members who are not financial members of New Zealand Association of Radio Transmitters (Inc). Those members shall be entitled to attend meetings and enjoy such other rights as the committee may prescribe but who shall have no right to vote on NZART matters or hold office in the Club.

3. Cessation of membership

- a. Any member may cease to be a member on notice in writing to the Secretary and payment of all dues by him or her prior to the date of the receipt by the secretary of such notice.
- b. On non-payment of annual dues. Any member will automatically cease to be a member after failure to pay annual fees for a period of two years. Reinstatement of membership shall be at the sole discretion of the Committee who may or may not require payment of fees in arrears.
- c. The committee may expel suspend or otherwise censure any member for misconduct or actions of a disruptive nature which may bring the Club into disrepute. They shall declare such actions at the next general meeting but will not be obliged to give their reasons therefore.
- d. Cessation of membership however arising shall not relieve any person from any liability incurred prior to ceasing to be a member for whatever reason.

4. Alteration of Constitution

- a. The Constitution of the Club shall not be altered, added to, or rescinded in whole or in part except by a majority of sixty percent (60 %) of the current financial members and life members, who hold a current Amateur Operator's Certificate, present and voting at the Annual General Meeting or at a Special General Meeting; provided that in either case fourteen (14) days' notice shall be given to all financial members with specifications of the proposed alteration.

- b. No addition to or alteration of the objects, personal benefits clause, or the winding-up clause shall be made which affect the not-for-profit status, (if applicable), personal benefit prohibition, or the winding up provisions of the club. The provisions and effect of this clause must not be removed from this document and must be included in any alteration, addition or revision to this Constitution.
- c. Minor or technical amendments to the Constitution may be made in accordance with section 31 of the Incorporated Societies Act 2022 or any Act which replaces it.

5. Meetings

- a. An Annual General Meeting shall be held in each consecutive period of 12 months.
- b. The secretary shall on receipt of a request signed by 25% of the financial members or at the direction of the committee from time to time summon a special general meeting for any particular purpose, including any necessary notice of motion. Such special general meeting shall be held not later than 40 days after the receipt by the Secretary of such request or direction.
- c. Special or general meetings may be called by circular, advertisement, or otherwise at the discretion of the committee, but in the case of special general meetings the circular, advertisement, or other means adopted for the calling of the meeting shall be issued to all members at least 14 days prior to the meeting date and shall specify the business to be conducted at the meeting.
- d. The annual general meeting of the club shall receive the report of the committee, the financial statement, elect officers, and appoint an auditor or reviewer for the ensuing year, and generally deal with such matters as may be necessary. No notice of motion shall be required for any matter dealt with at the annual general meeting, unless it is a matter otherwise specifically mentioned in these rules.
- e. A quorum at a general meeting or annual general meeting shall comprise at least SIX (6) financial members, of whom at least TWO (2) are elected officers.
- f. No matter shall be dealt with at a special general meeting unless notice has been given as aforesaid.
- g. The committee may meet together at such time and places as the chairman shall determine.
- h. The secretary shall, on request of any two committee persons, summon a committee meeting within seven days of the date of receipt by them of such request.
- i. A quorum for a committee meeting shall comprise THREE (3) committee members.
- j. The chairman of the club, or in their absence, any person appointed by a majority of the financial members present, shall act as chairman of all meetings and shall have a deliberating or casting vote as well as an ordinary vote.

- k. Meetings using technology: Any one or more members or officers may participate in any meeting of the club and vote on any proposed resolution at a meeting of the club without being physically present. This may occur at meetings by telephone, video conferencing, or other means of electronic communication, but excluding e-mail or other text-based communication, provided that prior notice of the meeting is given to all members and officers and all persons participating in the meeting are able to hear each other effectively and simultaneously. Participation by any member or officer in this manner at a meeting shall constitute the presence of that member or officer at that meeting.

6. Voting at Meetings

- a. Voting at a general or committee meeting shall be by a show of hands or otherwise as the chairman may direct.
- b. Any THREE (3) financial members may demand a poll at a general meeting and any two committee members at a committee meeting.
- c. Every financial member shall have one vote, except that on matters concerning the Constitution of the Club or on matters concerning Club property and/or Club major assets, only those financial members who also hold a current Amateur Operator's Certificate may vote.
- d. Every person voting may be required by the chairman to give their name.
- e. Life Members shall be entitled to attend the same meetings as a current financial member with the same voting rights.
- f. Honorary members shall be entitled to attend all meetings of the club but shall not be able to vote at such meetings.

7. Appointment of Officers

- a. The committee elected at each annual general meeting shall normally comprise at least a chairman, secretary, treasurer, and may include other members as required.
- b. The chairman, secretary, and treasurer, must have been financial members of the Club for the past 12 (twelve) consecutive months prior to election to the position, or be a life member; and at least two of the ordinary committee members must have been financial members of the Club for the past 12 (twelve) consecutive months prior to election. In the absence of candidates that meet these criteria the meeting may appoint officers and committee members that do not qualify only if those nominated receive approval by sixty percent (60%) or more of the financial members and life members who hold a current Amateur Operator's Certificate, and are present and voting at the meeting. All officers of the Club must consent in writing to be an officer and certify that they are not disqualified from being elected or appointed or otherwise holding office as an officer of the society as per section 47 (3) of the Incorporated Societies Act 2022.
- c. Any committee member who misses three consecutive meetings without reasonable cause in the opinion of the remaining committee members shall cease to be a member of the committee.

- d. At the Annual General meeting the Club shall appoint an auditor or reviewer for the ensuing year and may from time to time appoint an honorary solicitor.
- e. Such elected officers and auditor or reviewer shall hold office until the next Annual General meeting and shall be eligible for re-election thereat.
- f. Any vacancy appearing in the elected officers or office of auditor/reviewer during the year may be filled by appointment of a person or persons by the club, subject to the eligibility criteria in clause 7(b) and such person or persons shall hold office until the next Annual General Meeting or the chairman may call for nominations for such position or positions at any general meeting in which case no notice of motion need be given.
- g. Nominators and seconders must be financial or life members of the club.
- h. Any financial member of the Club, providing they are not a declared bankrupt and who has been a financial member for not less than 12 months, may be nominated and seconded for office at the Annual General Meeting, or in the case of the filling of any vacancy during the year at any General Meeting. Members offering themselves for any of these positions may not nominate themselves but must be nominated and seconded by third parties.
- i. The secretary shall keep proper minutes and a record of all matters and meetings, including a register of members.
- j. Such register of members shall be open for inspection at any time on 14 days' notice to the secretary.
- k. The Secretary, Treasurer, or other nominated person shall act as the contact person for the club and shall forward to the registrar of incorporated societies each year the annual statements or other records as required by relevant legislation or regulation.
- l. In the absence of the Secretary or Treasurer, or their inability to carry out their role, all duties assigned to the Secretary or Treasurer by this Constitution shall be carried out by a person temporarily appointed to the role by the Committee for a defined period, subject to the requirements of clause 7(b). Any such temporary appointment must be notified to the Club at the next General Meeting.
- m. Any person or persons appointed to act as an equipment officer shall keep a proper inventory of all the plant equipment and apparatus of the Club.

8. Common Seal

- a. The common seal of the Club shall be in the custody of the secretary
- b. The common seal shall be affixed to all documents requiring sealing pursuant to a resolution of the committee and in the presence of the secretary and any two members of the committee.

9. Control of funds

- a. The control of funds and financial affairs of the Club shall be the responsibility of the committee.
- b. The incurring or payment of any liability of debt in excess of ten times the current full subscription amount in any one calendar month shall be subject to the overriding control of a General Meeting.
- c. Proper books of accounts shall be kept by the Treasurer, subject to clause 7(k), who shall keep such books up to date and available for inspection at each General Meeting.
- d. All money received by the Club shall be banked in an account with a recognised bank as may from time to time be determined.
- e. All payments, promissory notes and bills of exchange drawn shall normally be authorized by any two of the secretary, treasurer, or chairman and all endorsements may be made by any one of the secretary, treasurer, or chairman.

10. Borrowing power

The Club may, with the authority of a resolution of a Special General Meeting, borrow money for the purposes of the Club, and may secure the repayment thereof on all or any of the assets of the Club specified in such a resolution, by way of mortgage or charge thereon otherwise howsoever or upon no security.

11. No personal benefit and conflict of interest

- a. No private pecuniary profit of any Member or any person associated with a Member shall be permitted, except that any Member shall be entitled to reimbursement made for reasonable expenses properly incurred on behalf of the club.
- b. No member of the Club or any person associated with a member, shall participate in, or materially influence any decision made by the Club, in respect of the payment to that member or associated person of any income, benefit, or advantage whatsoever.
- c. All members and/or officers must declare any potential or actual conflict of interest as described above. All such conflicts must be recorded in writing with a description of how the conflict was resolved.
- d. Any monies or kind paid to a member of the club, or any person associated with a member, shall be reasonable and relative to that which would be paid in an arm's length transaction being open market value.

12 Dispute Resolution and complaints

The committee shall follow the procedures in clauses 2 to 8 of schedule two of the Incorporated Societies Act 2022, or any act which replaces it (attached to this constitution as a schedule) in notifying and resolving all disputes and complaints (as those terms are defined in the Act).

13 Indemnity

The Club shall indemnify its Officers and other officers and employees of the Club against all damages, costs (including legal costs) for which any such Officers, Chairman and other officers and employees of the Club may be or become liable as a result of their acts and omissions in performing their functions connected with the Club, other than any criminal liability or a liability that arises out of a failure to act in good faith and in what the Officers and employees of the Club believe to be the best interests of the Club when acting in that capacity

14 Winding Up

- (a) The Club may be voluntarily wound up in accordance with the requirements of the Incorporated Societies Act 2022 or any Act which replaces it.
- (b) The Club may be wound up by resolution at a Special General Meeting specially convened for the purpose of considering the dissolution of the Club and the disposal of the assets thereof. At this Special General Meeting the Committee shall be empowered to prescribe the method and disposition of the funds and property of the Club provided that the assets of the Club shall not, on winding up, be paid or distributed amongst members of the Club, but shall be given or transferred to some or other charitable institution or institutions with objects similar to those of the Club.

15. Miscellaneous

- (a) The Club may from time to time, by special resolution, make a levy on its financial members to provide extra funds to carry out the objects of the Club, but so that the total of such levies payable by one person in each financial year shall not exceed one year's membership fee.(b)
- (b) The Club shall not be liable for any damage arising out of any accident happening to any member of the club during the use of the Club's plant, apparatus, equipment, facilities or amenities, or from the occupation of any buildings belonging to the Club, or for the negligence or tort of any member of the Club, whether financial or otherwise.
- (c) The Constitution of the Club shall be available for inspection at all general meetings.

16. Interpretation

In this Constitution, unless the context requires otherwise:

- (a) references to **clauses** are to clauses of this Constitution;
- (b) **derivations** of any defined word or term shall have the corresponding meaning;
- (c) the **headings** to clauses are inserted for convenience only and shall be ignored in interpreting this constitution;
- (d) the word **including** and other similar words do not imply any limitation;
- (e) a **person** includes any individual, company, body corporate, firm, partnership, trust, unincorporated body of persons, or government agency;
- (f) the **plural** includes the **singular** and vice versa; and.
- (g) Where a gender-based term e.g. 'Chairman' has been used in this document, such use shall be held to also include whatever gender a person identifies as.
- (h) **Contact person** shall be the person required by sections 112 to 116 of the Incorporated Societies Act 2022 inclusive, to be the nominated person to communicate with the Registrar.

Schedule - Dispute resolution procedures

This schedule is provided for guidance only. Please refer to the latest version of the Incorporated Societies Act 2022 or any act which replaces it. The latest version of the act can be found at - legislation.govt.nz.

Schedule 2 - Optional dispute resolution procedures

1. Overview of this schedule

- (1) Section 39 requires the procedures in a society's constitution relating to disputes to be consistent with the rules of natural justice
- (2) A society may choose (but is not required) to include the procedures in the schedule in its constitution.
- (3) The procedures in a society's constitution must be treated as being consistent with the rules of natural justice if those procedures consist of-
 - (a) all of the procedures in the schedule and
 - (b) any additional procedures that are consistent with those procedures.

2. How complaint is made

- (1) A member or an officer may make a complaint by giving to the committee (or a complaints subcommittee) a notice in writing that-
 - (a) states that the member or officer is starting a procedure for resolving a dispute in accordance with the society's constitution and
 - (b) sets out the allegation to which the dispute relates and whom the allegation is against ;and
 - (c) sets out any other information reasonably required by the society.
- (2) The society may make a complaint involving an allegation against a member or an officer by giving to the member or an officer a notice in writing that-
 - (a) states that the society is starting a procedure for resolving a dispute in accordance with the society's constitution and
 - (b) sets out the allegation to which the dispute relates.
- (3) the information given under sub clause 1B or 2B must be enough to ensure that a person against whom an allegation is made is fairly advised of the allegation concerning them, with sufficient details given to enable him to prepare a response.
- (4) A complaint may be made in any other reasonable manner permitted by the society's constitution.

3. Person who makes complaint has right to be heard.

- (1) A member or an officer who makes a complaint has a right to be heard before the complaint is resolved or any outcome is determined.
- (2) If the society makes a complaint-
 - (a) the society has a right to be heard before the complaint is resolved or any outcome is determined and
 - (b) an officer may exercise that right on behalf of the society.
- (3) without limiting the manner in which the member, officer, or society may be given the right to be heard, they must be taken to have been given the right if-
 - (a) they have a reasonable opportunity to be heard in writing or at an oral hearing (if one was held), and
 - (b) an oral hearing is held if the decision maker considers that an oral hearing is needed to ensure an adequate hearing, and
 - (c) an oral hearing (if any) is held before the decision maker, and
 - (d) the member's, officer's, or society's written statement or submissions (if any) are considered by the decision maker.

4. Person who is subject of complaint, has right to be heard

- (1). this clause applies if a complaint involves an allegation that a member, an officer, or the society (the respondent)-
 - (a) has engaged in misconduct, or
 - (b) has breached, or is likely to breach, a duty under the society's constitution or bylaws or this act, or
 - (c) has damaged the rights or interests of a member or the rights or interests of members generally.
- (2) The respondent has a right to be heard before the complaint is resolved or any outcome is determined.
- (3) If the respondent is the society, an officer may exercise the right on behalf of the society.
- (4). Without limiting the manner in which a respondent may be given a right to be heard, a respondent must be taken to have been given the right if-
 - (a) the respondent is fairly advised of all allegations concerning the respondent, with sufficient details and time given to enable respondent to prepare a response, and
 - (b) the respondent has a reasonable opportunity to be heard in writing or at an oral hearing (if one is held) and
 - (c) an oral hearing is held if the decision maker considers that an oral hearing is needed to ensure an adequate hearing, and
 - (d) an oral hearing (if any) is held before the decision maker, and
 - (e) the respondent's written statement or submissions (if any) are considered by the decision maker.

5. Investigating and determining dispute

1. A society must, as soon as is reasonably practicable after receiving or becoming aware of a complaint made in accordance with its constitution, ensure that the dispute is investigated and determined. Disputes must be dealt with under the constitution in a fair, efficient, and effective manner.

6. Society may decide not to proceed further with complaint

Despite clause 5, a society may decide not to proceed further with a complaint if-

- (a) the complaint is trivial; or
- (b) the complaint does not appear to disclose or involve any allegation of the following kind:
 - (i) that a member or an officer has engaged in material misconduct;
 - (ii) that a member, an officer, or the society has materially breached, or is likely to materially breach, a duty under the society's constitution or bylaws or this act;
 - (iii) that a member's rights or interests or members' rights or interests generally have been materially damaged.
- (c) the complaint appears to be without foundation or there is no apparent evidence to support it ;
or
- (d) the person who makes the complaint has an insignificant interest in the matter, or
- (e) the conduct, incident, event or issue giving rise to the complaint has already been investigated and dealt with under the constitution, or
- (f) there has been an undue delay in making the complaint.

7. Society may refer complaint

- 1. A society may refer a complaint to-
 - (a) a subcommittee or an external person to investigate in report, or
 - (b) a subcommittee, an arbitral tribunal, or an external person to investigate and make a decision.
- 2. A society may, with the consent of all parties to a complaint, refer the complaint to any type of consensual dispute resolution (for example mediation, facilitation, or a tikanga-based practice).

8. Decision makers

A person may not act as a decision maker in relation to a complaint of two or more members of the committee or a complaints subcommittee consider that there are reasonable grounds to believe that the person may not be-

- a. impartial or
- b. be able to consider the matter without a predetermined view

This Constitution replaces the previous constitution dated 2013, and has been approved by a majority of members at a Special General Meeting on _____