

**The Official Newsletter of the
Auckland VHF Group Inc.
Spectrum**



The VHF Group Clubrooms as at May 2015

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Auckland VHF Group Inc.

Branch 66 NZART

PO Box 10138, Dominion Rd, Auckland 1446
 Clubrooms: 30 Hazel Ave, Mt Roskill

Office	Name	Call sign	Work / Mobile	E-mail
President	Matthew King	ZL1YOT	022 649 3310	president@aucklandvhf.org
Vice President	Brendon Reid	ZL1XXX	021 970 785	vicepresident@aucklandvhf.org
Secretary	secretary@aucklandvhf.org			
Treasurer	George Raffles	ZL1TUX	021 735 361	treasurer@aucklandvhf.org
Committee	Greg Storz	ZL1GSG	09 849 2878	greg@aucklandvhf.org
	Darryl Grange	ZL1TCI	021 123 7733	darryl@aucklandvhf.org
	Mark Howie	ZL1UMK	022 047 3240	mark@aucklandvhf.org
AREC Group Leader	Matthew King	ZL1YOT	022 649 3310	mattking@gmail.com
Deputy Group Leader	Currently Vacant			
ZL1BQ Trustee	Matthew King	ZL1YOT	022 649 3310	zl1bq@aucklandvhf.org
Head Repeater Trustee	Vaughan Henderson	ZL1VH	021 844 804	repeatertrustee@aucklandvhf.org
Klondyke Manager	Vaughan Henderson	ZL1VH	021 844 804	6625@aucklandvhf.org
670 Manager	Vaughan Henderson	ZL1VH	021 844 804	670@aucklandvhf.org
690 Manager	Dennis Seymour	ZL1UET	09 278 0381	690@aucklandvhf.org
850 Manager	Vaughan Henderson	ZL1VH	021 844 804	850@aucklandvhf.org
Spectrum Editor	Peter Loveridge	ZL1UKG	09 427 6362	spectrum@aucklandvhf.org
Trading Table	tradingtable@aucklandvhf.org			
Account Reviewer	Basil Orr	ZL1TOW	021 867 367	
Webmaster	Terry Corin	ZL1BPA	027 697 4686	webmaster@aucklandvhf.org
Club Web Page:	http://aucklandvhf.org			
ZL1VHD Dstar gateway administrator:	Laurie ZL1ICU	634 5130	0274 817463	perma@xtra.co.nz
ZL1VHD Dstar gateway registration URL :	http://zl1vhd.dstar.org.nz			

Club News and Net:

The combined Auckland VHF Group and Auckland Regional Branch News and Net are held on 146.625 MHz and 439.875 MHz at 8.15 pm each Sunday or after the ZL6A National Broadcast on the last Sunday of the month.

Club meetings are held at the Clubrooms at Hazel Avenue, on the second Monday of each month at 7.30 pm. For other details, listen to the News and Net each Sunday evening.

SPECTRUM is the official journal of the Auckland VHF Group Inc. Opinions expressed are those of the authors and do not necessarily reflect club points of view. The closing date for SPECTRUM articles is by the 1st of each month. Articles to be submitted to the editor Peter ZL1UKG
spectrum@aucklandvhf.org

Auckland VHF Group (Inc) Branch 66

Notice of Meeting

At the Hazel Avenue Club Rooms
(Located on the left at the end of Hazel Avenue)

**The Auckland VHF Group Meeting will be held on Monday 08 August
At the Clubrooms, 30 Hazel Avenue at 7:30 pm**

Before our guest speaker we will spend a short time looking at and voting on the two remits to be voted on at the NZART Conference in September. If you have your copy of March/April Break-In, please bring it along. The remits are on pages 34 and 35. We will also be appointing a delegate to represent the club at the NZART Conference.

Alastair ZL1NEO recently joined our club after passing his NZART Licence at the North Shore HamCram. His talk will cover Echolink, Hamverse, APRS and AREDN (Amateur Radio Emergency Data Network)

All welcome.

At the May 2022 Committee Meeting it determined that Face Masks are now optional

Auckland VHF Group President's Column

VHF Group Presidents Report August 2022

**Well, elections are looming on the horizon.
So is spring!**

I'd like to stand down as President. I haven't achieved the two main objectives I set out to do, which was recruiting a bunch of younger members, and raising funds for Klondyke repairs.

We need to find some fresh energy to carry the flag. We are also looking for a new secretary, vice president, Spectrum editor and trading table manager. We would also welcome a couple more committee members so we have a quorum if others can't make it to meetings.

The wet weather has got into the front door of the clubrooms and made it difficult to open. Vaughan has had a go at resolving that, and it needs fixing permanently at the next working bee. We need to do this on this coming Sunday 7th, the day before our General Meeting (Weather permitting). We have a long list of jobs to do, so if you can come along and take on one of them that would be great. We will email a reminder on Saturday. Looks like a dump run is in order! Can anyone bring a trailer for that? Or I can bring the ute from the farm. And we need some plastering skills for the holes in the ceiling. Anyone have that skill and gear?

We have paint and brushes at the clubrooms.

Cheers, Matthew King 022 6493310

Coming Events:

- Sat Aug 20 The Hamilton Market Day will be held in the Gordon Hall at 1024 Gordonton Road (SH 1B) Gordonton. Vendors from 8 am, Selling commences at 10 am.
To contact The Hamilton Club: P.O. Box 606 Waikato Mail Centre, Hamilton 3240. Web site www.zl1ux.org.nz branch.12@nzart.org.nz
- Sat Sep 24 The Te Puke ARC will be held in the Paengaroa Community Hall at 4 Old Coach Road, Paengaroa. Vendors from 7:00 Sale Time from 10:00am. Door charge \$2.00 per person. Hot Breakfast available from 7:30 to 11:00am.

For further information contact Syd Rowe at (07)5331029, 0272488664 or sydrowe@xtra.co.nz or by post 223 State Highway 33, RD 9, Te Puke 3189



Minutes of the July General Meeting of the Auckland VHF Group Inc., A Meeting was not held

Present: The Clubrooms was opened from 7:30 but there was no formal Meeting.

As a result there is no record of who visited the Clubrooms and no record of when the meeting closed.

The August Meeting Topic

Alastair ZL1NEO who recently joined our club after passing his NZART licence at North Shore. His talk will cover EchoLink, Hamverse, APRS and AREDN (Amateur Radio Emergency Data Network).

EchoLink is a computer-based Amateur Radio system distributed free of charge that allows radio amateurs to communicate with other amateur radio operators using Voice over IP (VoIP) technology on the Internet for at least part of the path between them. It was designed by Jonathan Taylor, a radio amateur with call sign K1RFD.

The system allows reliable worldwide connections to be made between radio amateurs, greatly enhancing Amateur Radio's communications capabilities. In essence it is the same as other VoIP applications (such as Skype), but with the unique addition of the ability to link to an amateur radio station's transceiver.

Hamverse is so new that there's nothing about it on the internet, yet!

APRS (Automatic Packet Reporting System) is an amateur radio-based system for real time digital communications of information of immediate value in the local area. Data can include object Global Positioning System (GPS) coordinates, weather station telemetry, text messages, announcements, queries, and other telemetry.

AREDN™ Network

An Amateur Radio Emergency Data Network (AREDN™) is a high speed data network built with Amateur Radio Operators and Emergency Communications Infrastructure in mind. It is self-configuring and self-healing. Where possible, AREDN™ will establish connections with as many other AREDN™ compatible devices (nodes) as possible and form a redundant mesh like network. AREDN™ nodes automatically find the "most reliable" nodes (greatest chance of success on packet delivery) to attempt delivery of the packets sent across the network. One need not know the exact path to get to the destination, only to know what the destination is.

AREDN™ uses commercial off-the-shelf (COTS) hardware originally intended to be used for unlicensed WIFI and re-purposes it to fits the needs of Amateur Radio Operators. By using such common gear we are able to benefit from affordable pricing and easy availability of reliable communications gear. By itself AREDN™ is only a networking technology - it provides the basis to move traffic around. It can be thought of as similar to a radio or a repeater, where the infrastructure is an AREDN™ node and the content that flows across it is one that the local users decide.

Networks built on top of AREDN™ are IP based, very similar to but not dependent upon, the Internet and operating under the rules for Amateur Radio operators. Well-used publicly documented protocols (IPv4) are utilized to provide the greatest flexibility to local implementers of these high speed networks.

The Working Bee(s) Sunday 7th August (and beyond)

Vaughan ZL1VH has created a list of maintenance to bring the Clubrooms up to date for the benefit of the Members.

1. Main entrance door. Rotten along the bottom of the vertical timber. See photo.
(Darryl suggests the thinners based epoxy that is injectable and will source some)
2. Finish painting inside. Kitchen door. Door into radio room needs another coat.
3. Remove old light fittings from ceiling and make good the gaps left in the timber trim
4. Fix hole in the ceiling above bay D. Remove the storage box on top of Bay D to see the hole. Looks like water may have got in at some time.
5. Get rid old chairs: this has been done. – thanks Darryl.
7. Dispose of the stand on wheels that's at the back of the room. It's the angled stand with three shelves.
8. Cash registers. Neither of the two cash registers work. "someone" could have a look at the original old one. The other one we have never used so lets get rid of it.
9. Painting of inside of windows along front of building. Pull all the trading table shelves out and give the area behind a good clean down, sand and paint inside of windows. Then have a look at putting up some new curtains. This is a significant work item and given the awesome enthusiasm of club members, will only take 3 months to complete.
10. Toilet area. Lift up the temporary core-flute tray, cut the timber plinth to size, I would also recommend a timber frame to fill the gap behind the new cistern to help keep it clean and also provide mechanical support for the cistern. Darryl will install the Plywood that Brendon will bring down 19mm H3 600x300mm
11. Replace the cracked window above the hand basin (it's been like that for more than five years). Fill the gaps in the trim in the toilet and re-paint the toilet in total. (Darryl to get a quote from Cosmo Glass, to be done by August committee meeting 22 August.
- 12 New pc at Club, run 20m length of cat5 from modem to NUC. Mark will source 20m cable and donate it.

The Front Cover shows how the Clubrooms looked in May 2015.
Other work has been done since then but more is now required.

Photo — Peter ZL1UKG

VHF Group Subscriptions are now due for 2022-2023 year.

Subscriptions are now being accepted for the 2022-2023 year, 1 July 2022 to 30 June 2023.

This coincides with the change of the financial year to ending 30 June 2022. The change is intended to give sufficient time to get the accounts sorted and reviewed before the AGM in November 2022. Invoices will be sent out in May to all members who have not renewed by that time.

Note on Subscriptions

- a. There is an increase for the 2022-2023 subscription year.
- b. All yearly subscriptions terminate on 30th June each year. To keep your membership active, we need to receive your subscription renewal by that date.

Subscription	Subscription
Ordinary Members (Full)	\$60.00
Associate Members	\$55.00
Family Members	\$25.00

For Family Members, one person needs to be an Ordinary Member, and then each additional family person then becomes a family member.

50th Anniversary of opening of clubrooms

Location: Hazel Ave Clubrooms

When: Saturday, 29 October 2022 2:00 pm – 4:00 pm

Description: Join us for finger food and refreshments to celebrate the 50th Anniversary of the opening of the Hazel Ave Clubrooms

View a demonstration of the National System Radio Repeater Network.

See the latest SDR Radio in Operation Watch a Microwave Contest Station in action.

Meet some of the characters who have made the Auckland VHF Club what it is today.



**Amateur Radio Emergency
Communication.
Volunteers in radio communications.
Using our resources to help the
community.
INFORMATION**



The Auckland VHF Group has an AREC Group that works closely with Auckland Council Emergency Management. They provide advice, resources and manpower to assist in times of need.

The AREC section is headed by Group Leader Matthew King ZL1YOT.

From time to time the VHF Group has training sessions and exercises. Members also assist with sports events, parades and other community activities. For further information about AREC please see the NZART web site: <http://www.nzart.org.nz/arec/>

JOIN BRANCH 66 AREC

All members of the Auckland VHF Group are encouraged to join the AREC section. Your contribution, large or small is appreciated by all involved. For further information about joining Branch 66 AREC contact the Group Leader:

Matthew King ZL1YOT 022-6493310 mattking@gmail.com
The Deputy Leader position is currently vacant

AREC News:



AUCKLAND VHF GROUP (INC)

SUPPORT THE EFFORTS OF THE VHF GROUP THROUGH YOUR
SUBSCRIPTION

SUBSCRIPTIONS FOR 2022

THE SUBS GO TOWARDS;

- Maintenance and on-going improvements to beacons, repeaters and linking systems for the national system, including the Klondyke repeater site.
- Providing on-time and free access to spectrum magazine as soon as it is available.
- Providing facilities for good speakers and lecturers at our general meetings.
- Discounted access to our trading table goodies.
- Access to test equipment and technical help when needed.

FULL MEMBERSHIP **\$60.00**

ASSOCIATE MEMBERSHIP **\$55.00**

FAMILY MEMBERSHIP ADDITIONAL **\$25:00**

SEE ATTACHED MEMBERSHIP RENEWAL FORM (next page)

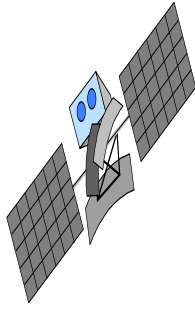
**REMEMBER TO KEEP US INFORMED OF YOUR EMAIL
ADDRESS!**

OTHERWISE WE CANNOT SEND YOU SPECTRUM!



Thought for the month:

“The most difficult thing is the decision to act. The rest is merely tenacity.”



AUCKLAND VHF GROUP INC.

P O Box 10138, Dominion Rd, Auckland 1446,
 30 Hazel Avenue, Mount Roskill, Auckland,
 Email: treasurer@aucklandvhf.org
 Web: <http://www.aucklandvhf.org>
 NEW ZEALAND



				Date Form Completed	
Mr/Mrs/Miss/Ms	Forename			Surname	
	Address1			Phone: (home)	
	Address2		NZ Post Code	Phone: (work)	
	Town/City			Phone (Mobile)	
	Email			Phone (Cell)	
Occupation:				Callsign:	
NZART Member	Yes / No	Branch assigned			
AREC Member	Yes / No	Branch assigned			
Family Member 1	(Name)	(Call)	(Email)	(Mobile #)	
Family Member 2	(Name)	(Call)	(Email)	(Mobile #)	
Family Member 3	(Name)	(Call)	(Email)	(Mobile #)	
New/Renewal/Change	Membership Category			To pay	
	Ordinary (Full)			\$60.00	\$
	Associate			\$55.00	\$
Family (per member after 1 full member registered at same address)			\$25.00	\$	
Donations	Klondyke Refurbishment			\$	
	Repeater Maintenance			\$	
	Data/D-Star			\$	
	Beacon/Repeater/Links Licences			\$	
	General Club Donation / Other			\$	
			Total	\$	
Payment (Mark One →) If require Invoice / Receipt Please Advise Treasurer				Cash <input type="checkbox"/> Internet deposit <input type="checkbox"/> Other: <input type="checkbox"/>	
Internet	Account ASB 12-3011-0830580-00 . Account Name: Auckland VHF Group Inc. Include your Name/Callsign for track. Note: this form needs to be sent to us to update our records. Email to: treasurer@aucklandvhf.org . (Especially if Contact information has changed)				
Post	The Treasurer, Auckland VHF Group Inc. PO Box 10138, Dominion Road, Auckland 1446.				
In Person	Bring this form and payment to the next club meeting, 2 nd Monday of the month or to the Committee meeting the 4 th Monday of the month.				
Privacy	Unsubscribe from Email Notifications <input type="checkbox"/>			Do Not disclose contact Information <input type="checkbox"/>	
	Unsubscribe from Google Groups <input type="checkbox"/>				

Club use only: <input type="checkbox"/>	Approved: <input type="checkbox"/>	Not Approved: <input type="checkbox"/>
Sponsored by*		Sponsor's Callsign*
*New members only.		Date:

The information requested is for membership records required to be maintained under the Incorporated Societies Act and having due regard to the provisions of the Privacy Act

The Auckland VHF Group Inc Branch 66 NZART
*gratefully acknowledges the sponsorship of Branch 66 Beacons, Repeaters and
 Fixed Links license fees and the Group's repeater operations by the following
 radio amateurs and NZART Branches for 2022*

2021-2022, Donations for Repeater Licences and Klondyke Refurbishment

Frequency + Operation	Location	Donation	Donor Name
53.725 Repeater	Klondyke Road	\$50.00	Gwynne Rowe
144.253 Beacon	Nihotupu	\$50.00	
144.575 Digipeater	Whitford		
145.625 Data Rptr	Klondyke Road		
145.650 D-Star Rptr	Klondyke Road	\$50.00	
146.625 Repeater	Klondyke Road	\$50.00	David Wilkins
146.700 Repeater	Ruaotuhenua	\$50.00	
146.900 Repeater	Mt Puketutu	\$50.00	David Wilkins
432.253 Beacon	Nihotupu	\$50.00	
438.175 D-Star Rptr	Klondyke Road	\$50.00	
438.450 Repeater	Klondyke Road		
438.500 Repeater	North Head	\$50.00	
439.850 Kaimai Link	Klondyke Road	\$50.00	
439.875 Nat System Rptr	Klondyke Road	\$50.00	Soren Low
439.900 Egmont Link	Klondyke Road	\$50.00	
439.950 Brynderwyn Link	Klondyke Road	\$50.00	
1291.900 Repeater	217 Glenfield Rd	\$50.00	
DMR Rptr (Waitakere)	Quinns Rd	\$50.00	NZART AREC
		\$250.00	

2021-2022, Donations for Refurbishment

Rob Heyer VK2XIC	\$4.41
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$4.41

Total **\$254.41**

**Klondyke Tower
Donations towards Maintenance**

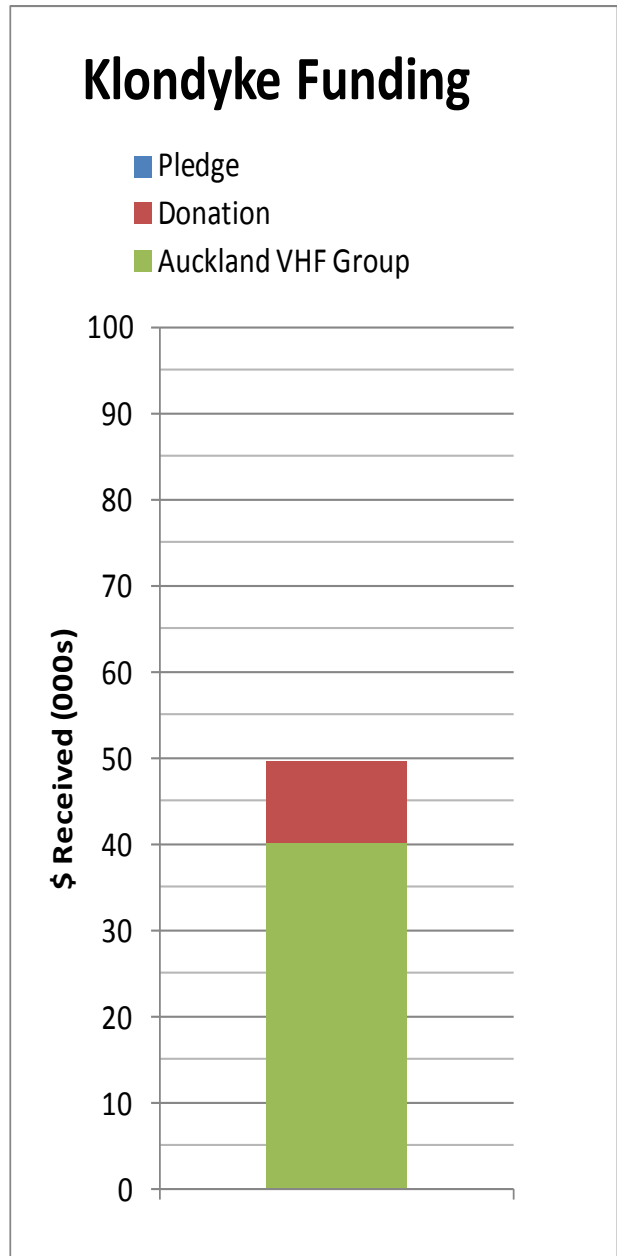
Target 100,000

Name	Donation	Pledge
Donations 2018 - 2021	9444.00	
George Marr ZL1TUJ	50.00	
Dave Dingley ZL1TIA	205.00	

Tower	63,245.00	Other	27268.25
GST	9,486.75		
Total	72,731.75	Total	27,268.25

Auckland VHF Group 40,000.00 40.00

Total	9699.00	-
Percent	9.70	0.00



TRADING TABLE

Currently our Trading Table is only open on meeting nights.

NEW – Printed Circuit Board. Thanks to a generous donation from N.Z.'s last circuit board production company (now closed down), we have a large quantity of single sided fibreglass printed circuit board material in sizes ranging from 1200 x 600 down to smaller pieces. There's some double sided board as well. Come along to our May meeting if you want some – prices can be negotiated!

NEW – RG58C/U 50 Ohm Coaxial Cable. Thanks to a bulk purchase we are able to offer this good quality coax at a competitive price. The cable has tinned centre conductor and screen braid making it resistant to long term corrosion. The price is \$2.00 per metre with a discount for purchases of 20m or more. See Vaughan ZL1VH on meeting nights to get this quality coax cable.

The Trading Table is now on line. Navigate your way to our new look web site at <https://aucklandvhf.org/> and click on TRADING TABLE (the most right hand tab).

Wait a few seconds and the on-line version of the Trading Table will pop up. From here you can browse the various sections, dig deeper to look at what's available and even place your order online.

If you prefer to just look at the Trading Table List, just hover your mouse pointer over the TRADING TABLE and a pull down list will appear. From this you can access the full trading Table list and download it in .PDF form.

We also have heaps of parts from dismantled commercial analog TV gear – transmitters, filters, circulators, patch panels, power supplies. Too much to list individually, so come along to the clubrooms and have a look.

