

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



Klondyke on a Windy Cloudy Day

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February's Presentation by Stephen Pilcher ZL1SRP - page 4



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	Currently Vacant			vicepresident@aucklandvhf.org
Secretary	Currently Vacant			secretary@aucklandvhf.org
Treasurer	George Raffles	ZL1TUX	021 735 361	treasurer@aucklandvhf.org
Committee	Darryl Grange	ZL1TCI	021 123 7733	darryl@aucklandvhf.org
	Jim Logan	ZL1DI	021 331 747	
	Brian Wilson	ZL1UXB	021 1639 532	
	Alastair Anderson	ZL1NEO		
	Dave Dingley	ZL1TIA	021 782 159	
AREC Group Leader	Matthew King	ZL1YOT	022 649 3310	arec@aucklandvhf.org
Deputy Group Leader	George Raffles	ZL1TUX	021 735 361	arec@aucklandvhf.org
ZL1BQ Trustee	Matthew King	ZL1YOT	022 649 3310	zl1bqtrustee@aucklandvhf.org
Head Repeater Trustee	TBA			headtrustee@aucklandvhf.org
Klondyke Manager	TBA			
670 Manager	TBA			
690 Manager	Dennis Seymour	ZL1UET	021-747-664	dennisseymournz@gmail.com
850 Manager	TBA			850@aucklandvhf.org
Spectrum Editor	Currently Vacant			spectrum@aucklandvhf.org
Trading Table	George Raffles	ZL1TUX	021 735 361	tradingtable@aucklandvhf.org
Account Reviewer	Basil Orr	ZL1TOW	021 867 367	
ZL1VHD D-star gateway administrator:	Laurie	ZL1ICU	09 634 5130	0274 817463 perma@xtra.co.nz
ZL1VHD D-star gateway registration URL :	http://zl1vhd.dstar.org.nz			
Webmaster	Terry Corin	ZL1BPA		webmaster@aucklandvhf.org

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 Monday of the last week of the preceding month. Articles to be submitted to the editor, via the email: **spectrum@aucklandvhf.org**

Auckland VHF Group (Inc) Branch 66
General Meeting Notice
Monday 10th March 2025 at 7:30 pm.
At the Hazel Avenue Clubrooms,
(Located on the left at the end of Hazel Avenue
in the Arthur Faulkner Reserve)

Speaker: Shalema, who personally experienced the disaster and how the community came together and responded.

Subject: "Cyclone Gabrielle and the emergencies and devastation caused at Karekare, West Auckland"

This is a very special presentation for ALL THE FAMILY;

They were completely cutoff from the outside world for several days.

Shalema has videoed the event from the inside showing the devastation as it unfolded, and their response.

This should be seen by ALL AREC Members and wives and families as a very recent reminder of the vitally important role outside support from groups such as AREC and the Amateur community can play in such events, and of the devastating pressures the community is under during these times.

Shalema is passionate about this subject and offers a presentation that should not be missed!

EVERYBODY WELCOME

We look forward to seeing you there.

Coming Events:

TE PUKE AMATEUR RADIO CLUB MARKET DAY 2025

Saturday March 8th, 2025

Paengaroa Community Hall, 4 Old Coach Road, Paengaroa.

Venue opens for Vendors at 6.30am

Sale begins at 9.30am Door Charge \$2.00 per person.

Breakfast available from 7.30am to 11.00am at reasonable prices.

For further information contact:

ZL1LWR Syd Rowe (07) 533 1029 or 027 248 8664

Email: sydrowe@xtra.co.nz

February's Speaker Stephen Pilcher ZL1SRP,

Gave a interesting talk on talk on:

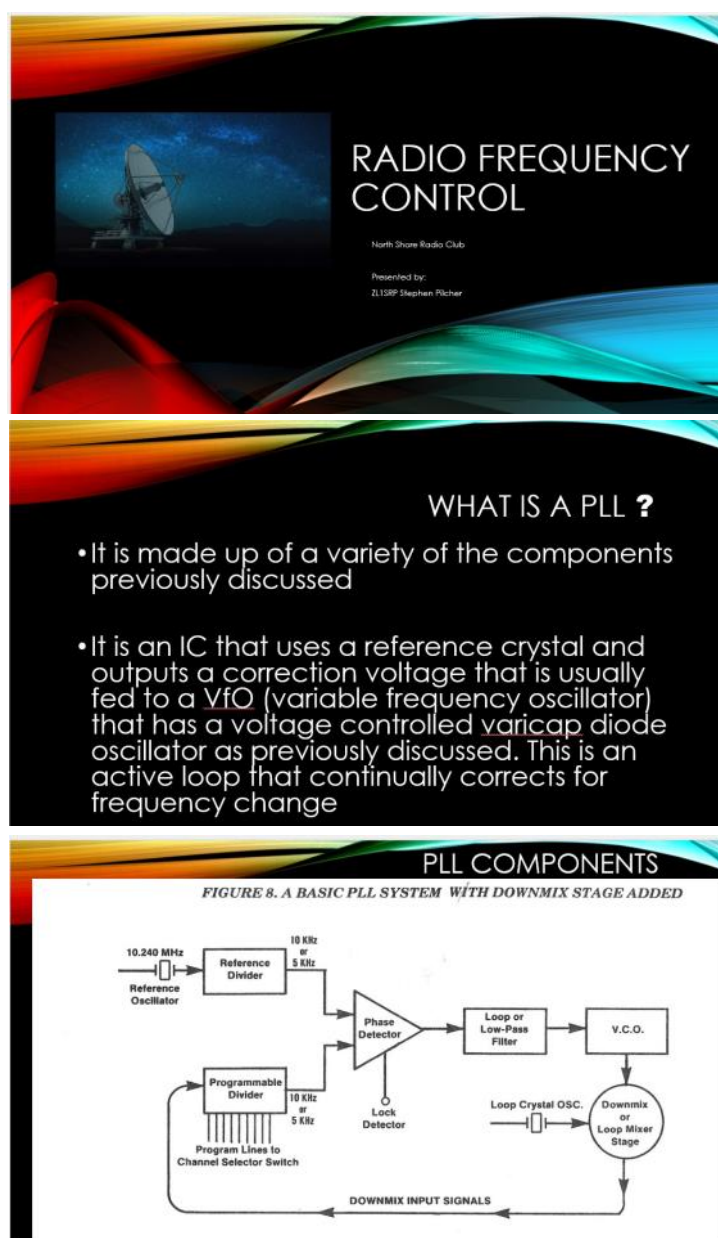
"Understanding frequency control and Phase locked loops;

This was a very interesting talk by Stephen and has many questions.

It brought back many memories on how Phase Locked Loop devices work and more understanding.

This talk was to bring the basic knowledge of how the Phase lock Loop actually locks oscillator to the defined frequency. There are various methods and components to allow the oscillator to keep within its limitations.

Here are a couple of slides from his presentation.



Thanks to Stephen for his interesting presentation.

Auckland VHF Group Subscriptions for the 2024-2025 year.

Subscriptions are now being accepted for the 2024-2025 year, 1 July 2024 to 30 June 2025.

This coincides with the financial year for the group, which ends 30 June 2024.

Note on Subscriptions:

- a. There is an increase in the Ordinary (Full) Members subscription for the 2024-2025 subscription year.
- b. All subscriptions terminate on 30 June.
- c. Your present subscription will run for two-months till 30 August, then your subscription drops to an in-active membership list. (As per the constitution)

Subscription Type	Subscription Price
Ordinary Members (Full)	\$70.00
Associate Members	\$55.00
Family Members	\$25.00

- For Family Members, one person needs to be an Ordinary Member, and then each additional person then becomes a family member.
- Subscription prices are determined at the AGM preceding the year being implemented (7 months ahead of the end of financial year)

73

George ZL1TUX

Treasurer, Auckland VHF Group Inc.

Do you have a contribution for Spectrum?

Any and all contributions, would be welcome.

We will **not** promise to publish everything we receive, but would be glad to receive suggestions or contributions.

Email: spectrum@aucklandvhf.org

Spectrum Editor



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 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)			\$70.00	\$
	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	\$	
If require Invoice / Receipt			Payment (Mark One →)	Cash <input type="checkbox"/> Internet deposit <input type="checkbox"/>	
			Please Advise Treasurer	Other: <input type="checkbox"/> Credit Card <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)				
Credit Card	Membership Link: tinyurl.com/avhfg-membership-form				
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

New Members and Membership Renewal Form 2024_v10 2024-06-16.pdf

2 February 2025, Donations for Repeaters Licences

2024-2025 Repeater Licences

Freq.	Operation	On Air	Location	Donor name	Call sign	Donation	Date
53.725	Repeater	P	Klondyke Road	Gwynne Rowe	ZL1AAR	\$50.00	30 November 2026
144.253	Beacon	P	Nihotupu (Testing Clubrooms)				30 November 2025
145.625	Data Rptr.	○	Klondyke Road				30 November 2025
145.650	D-Star Rptr.	P	Klondyke Road				30 November 2025
146.625	Repeater	P	Klondyke Road	David Wilkins	ZL1MR	\$50.00	30 November 2025
146.700	Repeater	P	Rua-o-tu-when-ua				30 November 2025
146.900	Repeater	P	Mt Puketutu Radio	David Wilkins	ZL1MR	\$50.00	30 November 2025
432.253	Beacon	P	Nihotupu (Testing Clubrooms)				30 November 2025
438.175	D-Star Repeater	P	Klondyke Road				30 November 2025
438.500	Repeater	○	North Head				30 November 2025
439.850	Link TX to Kaimai	P	Klondyke Road	Russell Richardson	ZL1RWR	\$50.00	30 November 2025
439.875	Ak Nat System Rptr.	P	Klondyke Road	Soren Low	ZL1SKL	\$50.00	30 November 2025
439.900	Link TX to Eg- mont	P	Klondyke Road	Russell Richardson	ZL1RWR	\$50.00	30 November 2025
439.950	Link TX to Brenderwyn	P	Klondyke Road				30 November 2025
1291.900	Repeater	P	217 Glenfield Rd	Ian Ashley	ZL1AOX	\$50.00	30 November 2025
439.700	DMR Repeater (Waitakere's)	P	Quinns Rd				30 November 2025
	Number of Donors					\$350.00	

The Light Brown Repeater Licences are available for Sponsorship \$50.00 per licence

2023-2024-2025,		General Club Donations		5 February 2025	
Donor	Amount	Date Paid			
2024 - 2025					
NZVRS (Vintage Radio Society)	\$660.00	09-Dec-2024	Donation Club Usage		
AREC AK Council Grant 2023-2024	\$600.00	29-Aug-2024	Donation/Grant		
Total 2024 - 2025	\$1,260.00				
2023 - 2024					
New Zealand Electronics Institute	\$50.00	25-May-2024	Club Donation		
Estate of Roy Milam, ZL1WI	\$10,000.00	10-May-2024	General Donation		
Martyn Seay, ZL3CK	\$100.00	09-May-2024	General Donation		
Estate of Kenneth Boyce, ZL1TD	\$5,000.00	05-Dec-2023	General Donation		
New Zealand Vintage Radio Society	\$550.00	05-Dec-2023	Donation Club Usage		
New Zealand Electronics Institute	\$50.00	24-Sep-2023	Club Donation		
Brian Wilson, ZL1UXB	\$1.00	12-Sep-2023	General Donation		
Total 2023 - 2024	\$15,751.00				

Repeater Maintenance Donations			5 February 2025
2024 - 2025			
Donor	Amount	Date Paid	
M.J. & D. G. Dingley	\$5,000.00	30-Jan-2025	670 Ruaotewhenua Repeater Move Asset update Recovery
Papakura Radio Club	\$500.00	23-Dec-2024	Repeater Operation Donation
Estate of George Marr, VIA Basil Orr	\$200.00	16-Dec-2024	
2024-2025 Total	\$5,700.00		
2023 - 2024			
Donor	Amount	Date Paid	
Murray McGehan	\$50.00	22-Oct-2023	Repeater Maintenance Donation
YURI MYZUKA, ZL1GYM	\$20.00	13-Jun-2023	Repeater Maintenance Donation
XIANGHUI LUO, ZL1XL	\$20.00	13-Jun-2023	Repeater Maintenance Donation
Papakura Radio Club	\$500.00	02-Dec-2022	Repeater Operation Donation
Manukau Radio Club	\$150.00	19-May-2022	Repeater Operation Donation
2023-2024 Total	\$740.00		

ATV Repeater Donations / Fund,			02 February 2025,		
Donor	Amount	Date Paid			
Michael Sheffield, ZL1ABS	\$207.50	12-Jul-2021	ATV Repeater Donation		
Total	\$207.50				

Klondyke Refurbishment Donations

2024-2025	As of 5 February 2025		
Estate of George Marr (ZL1TUJ), VIA Basil Orr	\$200.00		16-Dec-2024
Rob Stokes, ZL1RJS	\$30.00		03-Jul-2024
Total 2025	\$230.00		
2023-2024	As of 30 June 2024		
Murray McGehan ZL1OD	\$190.00		14-May-2024
Keith Dix, ZL1BQE	\$30.00		07-May-2024
Russell Richardson, ZL1RWR	\$100.00		07-May-2024
Yuri Muzyka, ZL1GYM,	\$140.00		08-Apr-2024
Cary Rawson, ZL1CLR,	\$50.00		20-Dec-2023
Rob Stokes, ZL1RJS,	\$40.00		06-Nov-2023
Total 2024	\$550.00		
2022-2023	As of 30 June 2023		
Donation,	\$10.00	\$250.00	13-Jun-2023
Ian Ashley, ZL1AOX	\$40.00		12-Jun-2023
Russell Richardson, ZL1RWR	\$100.00		10-Jun-2023
Martyn Seay, ZL3CK	\$100.00		10-Jun-2023
George Raffles, ZL1TUX	\$199.16	\$199.16	12-May-2023
MiniSA (Donated by ZL1TIA) / RF Signal Source (Donated by ZL1VH) for Klondyke Refurbishment	\$270.00	\$270.00	19-Dec-2022
Estate Ian Sexton ZL1PZ	\$950.00	\$2,300.00	27-Jul-2022
Estate Tony Babish ZL1ATE	\$500.00		27-Jul-2022
John Sexton ZL1AQS	\$750.00		27-Jul-2022
George Marr, ZL1TUJ	\$100.00		19-Jul-2022
Total 2023	\$3,019.16		
Klondyke Total (11 November 2018 to 30 June 2025)	\$13,533.16		
Klondyke Total (11 November 2018 to 30 June 2024)	\$13,303.16		
Klondyke Total (1 June 2022 to 30 June 2024)	\$3,569.16		
Klondyke Total (11 November 2018 to 30 June 2022)	\$9,734.00		

Klondyke Refurbishment Donations Part 2		
2021-2022	As of 30 June 2022	
Jim Logan, ZL1DI	\$20.00	10/05/2022
Philip Sharp, ZL1PSH	\$15.00	14/03/2022
Margaret Dingley, ZL1AYV	\$205.00	11/10/2021
George Marr, ZL1TUU	\$50.00	13/12/2021
Total 2022	\$290.00	
2020-2021	As of 30 September 2021	
Margaret Dingley, ZL1AYV	\$100.00	9/11/2020
David Dingley, ZL1TIA	\$100.00	9/11/2020
Jennie Dingley, ZL1TDB	\$100.00	9/11/2020
Yuri Muzyka, ZL1GYM,	\$50.00	23/11/2020
Martyn Seay, ZL3CK	\$500.00	1/12/2020
Martyn Seay, ZL3CK	\$100.00	14/06/2021
Yuri Muzyka, ZL1GYM,	\$50.00	13/09/2021
Total 2021	\$1,000.00	
2019-2020		
Charles Graves	\$15.00	7/10/2019
Ian Ashley, ZL1AOX	\$500.00	9/10/2019
Keith Dix, ZL1BQE	\$50.00	10/10/2019
Margaret Dingley, ZL1AYV	\$100.00	15/10/2019
David Dingley, ZL1TIA	\$100.00	15/10/2019
Jennie Dingley, ZL1TDB	\$100.00	15/10/2019
Russell King, ZL1WITT	\$20.00	13/11/2019
Basil Orr, ZL1TOW	\$500.00	9/12/2019
Raffle - Meter	\$289.00	10/12/2019
Martyn Seay, ZL3CK	\$100.00	9/03/2020
Brenton Faithfull, ZL1BBF	\$50.00	11/06/2020
Mark Howie, ZL1UMK	\$20.00	10/08/2020
George Marr, ZL1TUU	\$50.00	10/08/2020
Total 2020	\$1,894.00	
2018-2019		
Western Suburbs Radio Club	\$200.00	11/11/2018
Michael Sheffield, ZL1ABS	\$500.00	11/11/2018
Ross Glover, ZL1BGB	\$50.00	12/11/2018
Andrew Brill, ZL1COP	\$100.00	5/11/2018
Martin Seay, ZL3CK	\$50.00	8/11/2018
Aaron Pelly, ZL1FAT	\$10.00	8/11/2018
Cris Hodgetts, ZL1CLH	\$20.00	8/11/2018
David Crosier, ZL1THF	\$20.00	8/11/2018
Ann Walker, ZL1BFB	\$20.00	8/11/2018
Bruce Churcher, ZL1BLB	\$20.00	8/11/2018
Klondyke Raffle @ Western Suburbs Sale	\$160.00	8/11/2018
Dennis Thornton, ZL1TAY	\$50.00	12/11/2018
George Raffles, ZL1TUX	\$100.00	17/11/2018
Keith Dix, ZL1BQE	\$100.00	10/12/2018
Franklin Radio Club, ZL1SA	\$800.00	12/12/2018
Manukau Branch, ZL1QB	\$100.00	12/12/2018
Terry Corin, ZL1BPA	\$1,000.00	28/12/2018
Keily Petersen, ZL1KM	\$150.00	22/01/2019
North Shore Branch 29, ZL1AB	\$100.00	22/01/2019
Gilbert Ecroyd, ZL2EK	\$100.00	5/03/2019
Dave Blackett, ZL1AD	\$50.00	8/03/2019
Ian Sexton, ZL1PZ	\$500.00	13/03/2019
Auckland Branch, ZL1AA	\$100.00	13/03/2019
Ralph & Rosemary Boshier, ZL4AG & ZL1RO	\$40.00	13/03/2019
Nick Emery, ZL1BOP	\$50.00	16/04/2019
A. Kelvin McLean, ZL1AKM	\$20.00	16/04/2019
Soren Low, ZL1SKL	\$100.00	22/04/2019
North Shore Radio Club, ZL1AB, Branch 29	\$1,500.00	17/05/2019
Brendon Reid, ZL1XXX	\$20.00	10/06/2019
Auckland Branch, ZL1AA	\$500.00	8/07/2019
Gary Ball, ZL1FAB	\$20.00	1/08/2019
Total 2019	\$6,550.00	
Klondyke Total (11 November 2018 to 30 June 2025)	\$13,533.16	
Klondyke Total (11 November 2018 to 30 June 2024)	\$13,303.16	
Klondyke Total (1 July 2024 to 30 June 2025)	\$230.00	
Klondyke Total (1 June 2022 to 30 June 2024)	\$3,569.16	
Klondyke Total (11 November 2018 to 30 June 2022)	\$9,734.00	



**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

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TRADING TABLE Info

The Trading Table List is a comprehensive list of items the club has had in stock and may still have. The price list on some items may have also changed.

A lot of the items on the list are NOT loaded into the Web system as stock has not been validated, and quantity has not been entered.

If you require these items, please email the trading table using tradingtable@aucklandvhf.org, Add the product item, the quantity of items required, and a response will be returned after validation of stock. This will include: Product Number, Number of Items available, Price per item/bag. And approx. time.

NOTE: As this is a club, it may be two week before actual validation of items, but an acknowledgement should be sent and advised of approx. time delay for validation. The items will then be added to the internet system and these should be able to be ordered online.

Payment can be by either Credit Card, or Direct Debit to our account.

Goods belong to the Auckland VHF Group Inc. until payment is received.

George Raffles,

TRADING TABLE

Currently our Trading Table is only open on meeting nights.

Currently we are only accepting orders from within New Zealand

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 monthly meeting if you want some – prices can be negotiated!

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 the Trading Table Person on the Contact List, or arrange to get it on a meeting night.

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.

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