

Founded 1979 Incorporation No A6677 P.O. Box 692, Shepparton 3632



**Shepparton & District Amateur Radio Club
and Electronics Club**

November 2024 Newsletter

Xmas Lunch Breakup December 7th @ Noble Monks

SADARC COMMITTEE

President:- Peter Rentsch – VK3AXI

Vice-President:- Barrie

Halliday - VK3KBY

Secretary:- Rob Hose - VK3BLD

Treasurer:- Ian Saunders – VK3YYY

Membership Sec:- Ian

Saunders - VK3YYY

Assistant Secretary:- Peter Rentsch - VK3AXI

Webmaster Graeme Martin - VK3VSM and Ray Gardiner – VK3YNV

Hamfest Co-ordinator:- Peter Rentsch - VK3AXI

Newsletter editor: - Peter Simpson – VK3ASK

Technical Committee: Geoff VK3ZNA, Ray VK3YNV, Denys VK3ZYZ, Josh Gardiner, also power to co-opt.

To contact any member of the committee above, email committee@sadarc.org and specify who you wish to communicate with and the subject.

If you have items for the newsletter, forward to: newsletter@sadarc.org

Communications Manager (External Events): Darren Glasson (VK3HEN) – subject to confirmation.

Meetings the first Saturday of the month from **10 am** for Arduino training, plus informal chats and technical talks. A BBQ follows (a gold coin donation). Main meeting 1 pm (except January when no meeting occurs) at 360 Health Centre, 18 Channel Road (250 metres from Archer Street), Shepparton.

Variations in these times, days and location are normally notified in the preceding newsletter.

DISCLAIMER: - No guarantee is given as to the accuracy of information in this newsletter. E.
& O.E.

WARNING: - There is a danger of electrocution or injury when working on electrical/radio gear or working **at** heights doing antenna work. You do so at your own risk.

25/08/2022

VK3RGV repeaters and transmitter operating frequencies from Mt Wombat

53.725MHz (-1 MHz), In Service 146.65MHz (-600 kHz), In Service
438.2MHz (-7 MHz -D-Star), In Service 438.650MHz (-7 MHz 91.5 Hz
tone), In Service
438.9MHz (-7 MHz - DMR), In Service 439.775MHz (-5 MHz), Now back
in service, IRLP (node #6990)
476.475 MHz (+750 kHz) CB Repeater WBT03 Channels 3- 33, In Service
VK3RDS, 438.7625 MHz (-7 MHz DMR) Shepparton on test @ VK3YNV
QTH

The three following repeaters are not the clubs but are allied to the club in one way or another.

Mt Major VK3RDU, 146.850 MHz,
439.875MHz. Mt Bruno VK3RWC 147.325 MHz (-1.6 MHz 123Hz)

Access to most analogue repeaters is by sub-audible 123 Hz tone or noise/carrier mute (less sensitive). Your TX offset is shown in brackets

Club informal on air get togethers, all welcome. Club call sign
VK3SOL:

Wednesday- 2mx repeater 146.65 MHz 8.00pm.

3.63 MHz SSB ± interference 8.30pm,

Sunday – 2 mx repeater 146.65 MHz 2 pm & 8 pm

The Vintage Radio Club – 2 mx repeater 11 am

A number of semi-private HF skeds take place either daily or weekly, locally or further afield.

Website – www.sadarc.org or www.sadarc.org.au Face book Page – Shepparton and District Amateur Radio Club Direct Link: <https://www.facebook.com/groups/481867453084459>

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Next Meeting

The next SADARC meeting is our Xmas breakup function, to be held at the Noble Monks Restaurant, 120 Maude Street Shepparton

Date; Saturday December 7th.

Time; 12pm Start, until 3pm.

This is a joint celebration with the Vintage Radio Club.

Note; Partners are certainly encouraged to come along and enjoy the celebration.

We have a private roomed booked until 3pm.

A copy of the lunch menu is included at the end of this newsletter.

Diary Dates

December 7th, Xmas breakup function, Noble Monks Restaurant, Maude Street Shepparton

December 29th Bunnings BBQ, Members required to assist

January 2025, No meeting

February 1st, 2025 Regular Meeting plus AGM.

Presidents Report – November 2024.

Even though our meeting fell on Cup weekend our attendance was very good. Thanks to all those who were there and the input to the meeting. Our Club is definitely on the right track to continue to grow but there are things we can always do better. If you have any ideas, please speak to me or one of the Committee, we welcome input from all, it is your Club and you make it successful.

The Club will be out there again in December. Thanks to the work of Ray VK3YNV we have a BBQ planned for Bunnings on the 29th December. This is a great opportunity to again promote our Club and raise some money for our future outlay. As you would all know as Amateurs there is always something that is broken or a new model has been released. The Club is no different. As a Club we have at times a need to purchase some piece of equipment and our Sub's do not cover the cost's associated with running the Club. So, if you can help on the day please talk to Ray and let him know.

Coming up in February is our first meeting for 2025. This is also the AGM where those on the Committee are re-elected or stand down for various reasons. To continue to see our Club blossom we need willing members on the Committee. As the add says," Please Consider" if a position becomes vacant putting your hand up to take on a roll.

Our final meeting for 2024 will be our regular Christmas Lunch in association with the Vintage Radio Club of Northeast Victoria. This Lunch will be held at Noble Monks Restaurant, Shepparton, on Saturday 7th December commencing at 12.00 Noon. We have the use of room exclusively for us so it will be great day. The venue has requested that we vacate by 3.00pm as they have other functions to follow ours in the same room. Please bring your Partner along for the day as they are very welcome.

To conclude then, Karen and I wish you all very safe and healthy Christmas and New Year. Enjoy whatever you do, remember family and friends and celebrate this marvellous life we have been given.

That's it for this month and I look forward to another great day on the 7th December.

Cheers,

Peter Rentsch
VK3AXI
President

Novemberr 2024 Meeting Minutes

In Attendance: VK3AXI Peter, VK3BLD Rob, VK3YYY Ian, VK3ZYZ Denys, VK3YNV Ray, VK3VSM Graeme, VK3UU Adam, VK3OV Pat, VK3ZNA Geoff, VK3ASK Peter, VK3JSD Stevo, VK3KBY Barrie, VK3FBEN Peter, VK3TJS Jacek, SWL Bill, VK3FUG Ray, VK3BF Allan, VK3BPH Kevin, VK3HOR Ben, VK3ZDK, VK3AAH Andrew, VK3PMW Peter, VK3ELV Phil.

Apologies: VK3FALN Alan, VK3NQS Jason, VK3DQS Colin, VK3AFD Arthur, SWL Josh, VK3KFM Keven, VK3GSR Geoff, VK3EB Dallas, VK3MFE Mark,

President Peter opened the meeting at 13:00.

The minutes of the previous meeting were included in the newsletter.

VK3ZNA Geoff Moved the minutes be accepted as read. Seconded VK3YYY Ian. All in favour.

Correspondence: Inwards:

The EMDRC Newsletter has arrived.

Correspondence: Outwards:

Thank you letter to Bunnings for discounted BBQ

Treasurers Report: was tabled by Ian VK3YYY.

VK3YYY Ian moved that the treasurers' report be accepted. Seconded VK3ZYZ Denys. All in favour.

Technical Report:

Ray VK3YNV reported on the new larger Power Supply which will mean we can disconnect the batteries and only need them in a power fail situation. This is a better solution because there is no longer a need to float the batteries.

Ray Moved that the Technical Report be accepted. Seconded by Geoff VK3ZNA. All in favour.

Newsletter: The newsletter is doing well. Peter is doing a good job, VK3VSM Graeme spoke about the setup at the Merrigum Car Show. A good day was had by all.

VK3AXI Peter spoke about Club Shirts. He suggested we get the Logo stitched on to make it more professional.

VK3VSM Graeme will investigate where we can get that done in Shepparton. The venue for the Christmas meeting will be Noble Monks in Shepparton. It will be 12 noon to 3 p.m. on 7th December.

Ray spoke about a message he received from VK3GSR Geoff.

VK3YNV Ray wants to hold a meeting of volunteers for the Bunnings BBQ on 29th. A time and date is still to be established.

Man Behind the Mic : VK3KFM Keven was to speak, however he was unable to attend because his wife was in hospital. This will be carried over the next meeting after the AGM.

It was suggested that we investigate getting a hotplate to cover the open grill area on the new BBQ to make it easier to use.

VK3AXI Peter spoke about his efforts to access Starlink Internet, while using a VPN. It appears Purevpn is a suitable option.

SWL Bill spoke about a 60's style Signal Generator.

Several members spoke of projects they are building.

Meeting closed at 14:20

Editors Comments

As already stated by our president, the November meeting was another great success, even though the numbers were down.

1st up was the assembling and then christening of our new BBQ. After some initial teething problems, the result was a great feast of hamburgers and sausages.

Thanks should go to Stevo for arranging the collection of the BBQ from Bunnings and also for using his contacts to get us an amazing deal.

Also, thanks to the team of members who did the assembly under the guidance of Adam VK3UU.

Bill brought along an old Marconi RF signal generator, dating back to the early 60's. What a magnificent piece of mechanical and electronic design, this would certainly have been state of art at that time.

In typical Marconi style, the unit was built like a battle ship, but Bill is happy to take on the project of restoration.

Also discussed at the meeting, were plans put forward by Josh Gardiner to design a club membership card on a PCB.

Josh has written an article with pictures, which is shown in this newsletter.

In closing, I hope you can all make it to the Xmas function at Noble Monks Restaurant on December 7, but if I don't catch up, I hope you and your families all have a happy and safe festive season.

Peter Simpson
VK3ASK

A 70CM Yagi design by Ray Gardiner VK3YNV

Kevin VK3BPH dropped off to Ray a couple of 70cm 13 element yagis.

Ray has drawn up the dimensions for these Yagi's, which are shown on the attached document.

PCB Design for a new Membership Card-More than just Cardboard

At our last meeting, Josh Gardiner presented to the club a great idea to create a membership card using a printed circuit board.

Josh has been busy working on this project, so I will hand over to Josh for the details.

Hi all, Josh here,

This year I had an idea that came to me during the Hack a Day's PCB business card contest, The idea being since pcb's are so cheap why don't we have an interesting PCB membership card? So, my hunt began for something

interesting that could fit onto the back of a membership card.

A few months ago, I did a run of 0.8mm PCB's as card art to see if they were ok for a wallet. They were a hit. The downside was I still did not have a good idea of what useful thing I should put on the reverse side.

Then a couple of weeks ago Denys posted a link to a breadboard SDR based on the Raspberry Pi PICO on the forums.

<http://www.sadarc.org/xenforo/upload/index.php?threads/pi-pico-sdr.598/>

Now this could be it; I still need to do a bit of work to make it all happen smoothly including ordering a prototype,

It looks very promising.

The idea is to have the front face of the PCB to serve the function of being our membership card with all the details of previous years. The back will be a simple standalone SDR project, for anyone wishing to build it. It is also possible that the majority of the “component sand” all the small SMD passives could be populated on a special run of PCB's to make it easy to start the project. However, the idea is to order enough PCB's that everyone gets one as part of their membership and if they want an extra one to just build as a project while keeping their original card unsoldered, so they can keep it in their wallet that will be possible.

To give credit this is not my circuit or even my pcb. All I have done so far is to make small changes to layout of the pcb and the silkscreen to include my preferred symbols and to use component values rather than designator for the components as that is much more kind to people. I also use different shaped pads for quick identification. I also plan to change the majority of the remaining through hole components to be surface mount as this will make the front cleaner for the SADARC and Jaycar logo, add a battery mount and a lipo charger.

The vast majority of the work which follows is from the original open source project by Jonathan Dawson.

Please check out their github or youtube

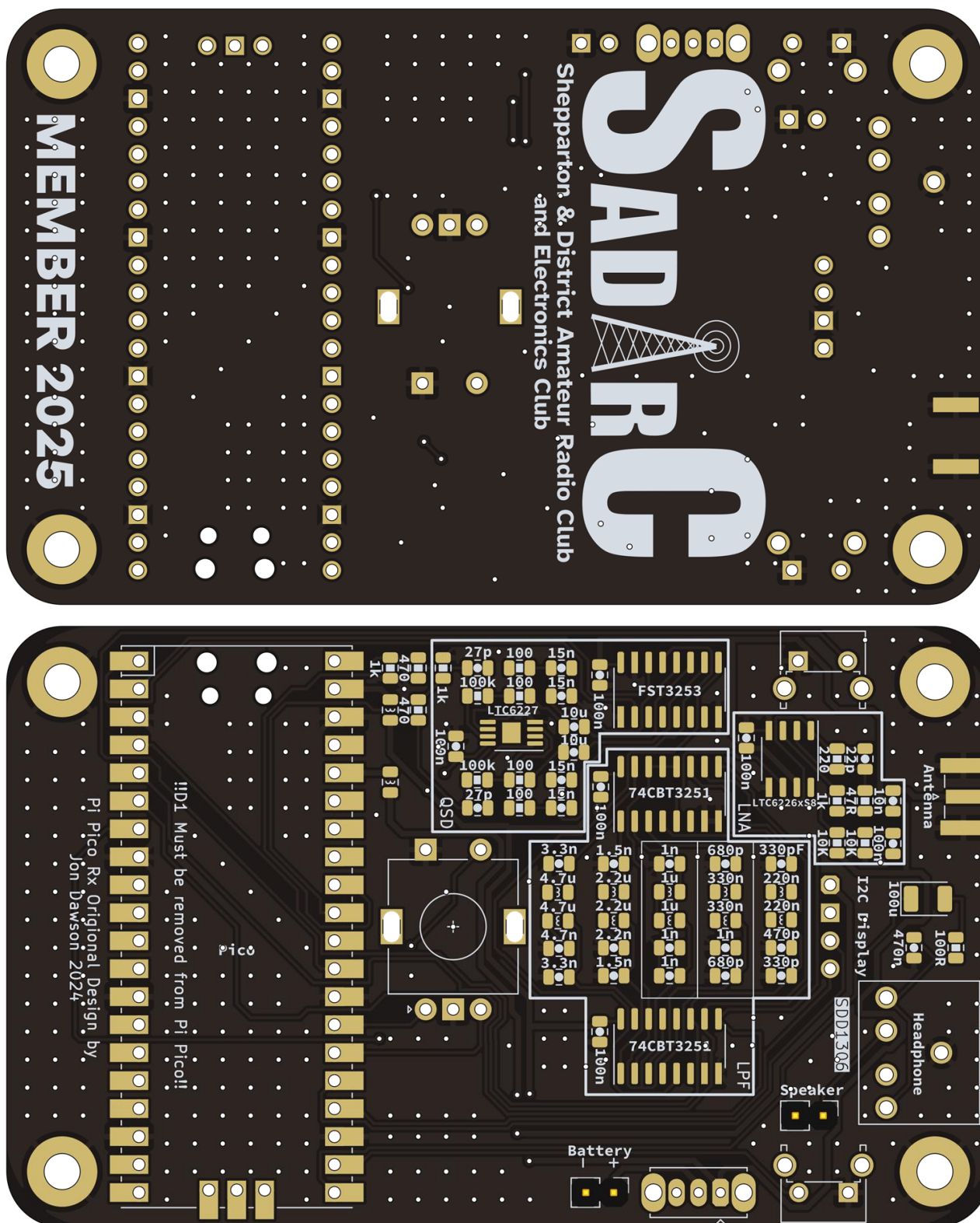
<https://github.com/dawsonjon/PicoRX>

<https://www.youtube.com/watch?v=IS1ZRMIYLjA>

<https://www.youtube.com/watch?v=QfNhv-COuvU>

<https://www.youtube.com/watch?v=q0KQDGdqFfc>

Josh Gardiner



Note, I have not included the circuit diagrams for the SDR this Month, as Josh is still working on a final design and sourcing suitable components.

This should however appear in the next newsletter and is also available on the forum.

Noble Monks Lunch Menu

- Slider Duo\$24

choice of any two meat (beef | pork) served w' side of chips & tomato dip

- **Pulled Beef Slider** red wine, tomato based slow roasted beef, apple slaw, aioli

- **Pulled Pork Slider** Honey, sweet chilli red wine slow cooked pork, caramelised onion, aioli

- Spicy Beef Salad\$25

mixed leaves, fresh capsicum, onions, cucumber, carrot, coriander, mint, crispy noodles (**gf available**)

- Lamb Salad\$25

moroccan spiced, cucumber, onions, cherry tomatoes, mushroom, mixed leaves, sweet chilli, balsamic vinegar & yoghurt (**gf**)

- Chicken Caesar Salad\$24

-

cos lettuce, hard poached egg, prosciutto, parmesan, croutons caesar dressing (**gf available**)

- Lemon Pepper Calamari Salad\$25

Asian style salad mixed w' rice noodles & finished w' a drizzle of lemon aioli.

- Grilled Barramundi\$24

roasted smashed potatoes, seasonal greens, cherry tomatoes 27 & beurre blanc sauce (**gf**)

- Calamari\$23

house crumbed calamari, chips, aioli, mixed leaves

- Go Fish\$21

battered flathead, chips, tartare, mixed leaves

- Peri-Peri Chicken Burger (Mild)\$26

peri peri marinated chicken breast, tasty cheese, tomato, lettuce, peri-peri aioli, milk bun served w' chips & tomato sauce (gf available with salad)

- Noble Wagyu Beef Burger\$25

tasty cheese, tomato, lettuce, onion rings, tom relish & aioli served w' chips & tomato sauce.

- Vegetarian Burger\$24

homemade chickpea & vegetables patty, lettuce, tomato, cheese, onions, beetroot, mustard & tom sauce, served on milk bun w' chips & tomato sauce.

- Haloumi Cheese Burger\$25

grilled haloumi, lettuce, tomato, red onion, tom relish, avocado salsa served w' chips & tomato sauce

- **Sweet Chilli Lime Herb Salmon\$34**

200g salmon fillet, sweet chilli sauce, honey, garlic, lime juice, olive oil, paprika, cumin, coriander, mint served w' roast potato and broccolini. (gf)

- **Greek Sauvlaki Bowl**

choice of meat, served w' pita bread, salad, chips, & house made tzatziki
(Grilled Chicken 24\$) or (Marinated Lamb 27\$)

Pasta | Risotto

- **Veg. Pumpkin Mushroom Risotto\$22**

broccolini, spring onion, cream sauce (gf)
(Add Grilled Chicken 5\$ Add Prawns 8\$)

- **Veg. Gnocchi\$23**

house made gnocchi, sundried tomatoes, mushrooms, onions, cream sauce
(Add Grilled Chicken 5\$ & Add Prawns 8\$)

- **gnocchi gamberi pollo\$28**

house made gnocchi, chicken, prawns, mushroom onion, cherry tomatoes, napoli, cream

- **seafood marinara\$28**

mix seafood, linguine pasta, cream, napoli sauce

- **arrabbiata penne (spicy)\$26**

salami, chorizo, bacon, onion, chilli, napoli sauce

- **prosciutto carbonara\$25**

linguine pasta, egg, cheese, mushrooms, spring onion, cream sauce (add grilled chicken 5\$)

- **housemade lamb curry\$27**

amb cooked in pot using mild aromatic spices & herbs 27 served with rice & pappadum (gf available)

- **garlic prawns\$25**

w' rice, lemon wedge

- **braised lamb shank\$32**

w' sweet potato mash & seasonal greens, slow cooked w' red wine sauce (gf)

VK3BPH Supplied 70cm YAGI

Element Centers along boom
measured from reflector end

Boom 20x20x2300

Elements 1/4" through boom

