



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

July 2023 Newsletter

SADARC committee

President:- Peter Rentsch – VK3AXI Vice-President:- Barrie Halliday - VK3KBY
Secretary:- Arthur Duke - VK3AFD Treasurer:- Ian Saunders – VK3YYY
Membership Sec:- Ian Saunders - VK3YYY Assistant Secretary:- Peter Rentsch - VK3AXI
Webmaster:- Ray Gardiner - VK3YNV Hamfest Co-ordinator:- Peter Rentsch - VK3AXI
Newsletter (editor):- Peter Simpson – VK3ASK
Technical Committee: Geoff VK3ZNA, Ray VK3YNV, Denys VK3ZYZ & Josh Gardiner – 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. Items for the newsletter 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 Flexible Learning 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 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.

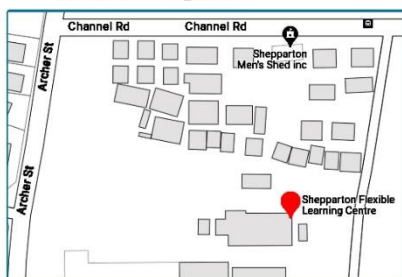
The next meeting will be held on Saturday August 5th, at the club



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

Are you interested in **Radio, Arduino,
Electronics, Communications** and or
Programming?

We invite you to come and visit us on the
first Saturday of every month at the
Shepparton Flexible Learning Centre from
10am to 2pm.



sadarc.org

house.

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>

Note: Want to get your licence? SADARC has examination assessors, contact the secretary for details.

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- **Changing resistor values, from our President VK3AXI**
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- **Server power supply project from Denys VK3ZYZ**

The next SADARC meeting will be held on Saturday August 5th. This is a regular meeting at our club rooms as follows.

- 10am continuation of Arduino training, conducted by Denys VK3ZYZ, Ray VK3YNV and Josh.
- 12pm, our regular BBQ with gold coin.
- 1pm, Club meeting for general business, plans for Hamfest on September 10th and a brief discussion about the Jaycar Day.
- Demonstration of projects from members
- Man Behind the Mike – VK3KBY – Barrie Halliday

Diary Dates

August 5th. Regular club meeting
September 2nd Regular club meeting
September 10th. Hamfest.

Presidents Report

Well, where does one start. We had a good meeting in June, with a lot of discussion revolving around our upcoming Jaycar Expo. Stevo gave a rousing talk motivating everyone to be involved. (we feel he missed his calling, he should be a AFL coach)

We again had several projects on display for members to see and we also welcomed a new member Adam VK3UU to our ranks. We have also had three other new or returning members recently, Michael VK3FMAA, Graham VK3VSM and Mark who will be sitting for his Licence shortly. Welcome to the Club gents.

As all members would know we had our Jaycar Expo Day on Saturday 15th July. The weather was kind to us and we had a very successful day. All those in attendance were very happy with the outcome. We ran an interesting day that was professional in its approach and lots of Radio to see and hear. We had quite a few enquiries and I believe we did the Club proud by what we carried out.

Our four new members were in attendance and did a great job with assisting on the day. It is a little hard to single anyone one out for a thankyou as everybody in attendance contributed as best, they could in their own way. So, a big thankyou to all those who were there, a job well done.

We will have a debrief at our next meeting on the day's events and what we did well and how we can improve.

At our next meeting we will need to allocate some time to the upcoming Hamfest and ensure that we have a good workforce in place for the day. Details of the Hamfest are shown below.

At our Hamfest our sister Club, The Vintage Radio Club of Northeast Victoria, who usually books one or two tables, have this time booked four tables. The reason behind this is that they are selling at this stage 84 Radio's from the Rodney, VK3UG collection.

. Many of these Radios were the ones Rodney worked on for the articles that appeared in Silicon Chip Magazine. These Radios alone will attract many collectors. In addition to this another Amateur has booked a table to dispose of his collection as well so we will have many Vintage Radios for sale. We need to use this to our advantage and advertise these collectors' items in the appropriate way. Some ideas would be great. Hamfest, Sunday 10th September 2023

St Augustine's Church Hall
Orr St SHEPPARTON

Doors open at 7.00am for vendor setup.

Tables are \$20.00 for the first table and \$15.00 for each table thereafter. Each vendor is allowed two free entry tickets.

Doors open at 10.00am for the punters.

Entry is \$5.00 per person. Children under 15 free.

That's it for me this time, see you in a couple of weeks.

Peter Rentsch
VK3AXI
President

Secretary Report

SADARC July 2023 Meeting Minutes.

Club Rooms, Flexible Learning Centre. Shepparton

In Attendance: VK3TEX Les, VK3AXI Peter, VK3KBY Barrie, VK3AFD Arthur, VK3OV Pat, VK3AXI Peter, VK3ASK Peter, Bill C., VK3TJS Jacek, VK3JSD Stevo, VK3BLD Robert, VK3YYY Ian, VK3AFD Arthur, Josh, VK3YNV Ray, VK3KFM Kevin, Mark E., VK3ZYZ Denys, VK3VSM Graeme, VK3FBEN Peter, VK3GSR Geoff, VK2RK Rob., VK3OV Pat. Mark E., Visitor VK3UU Adam from Bonne Doon.

Apologies: VK3ZNA Geoff, VK3BPH Kevin, VK3EB Dallas, Paul VK3KPL

Minutes of last Meeting: Moved by Ian V3YYY, That the minutes as published be accepted. Seconded by Peter VK3FBEN, all in favor.

Business arising: Nil

Inward Correspondence:

To Peter VK3AXI re Hamfest

Outward Correspondence:

Letter to Jaycar confirming Expo on 15th July

Financial: Ian VK3YYY, reported no activity in account for month of June
Moved by Ian VK3YYY, Seconded by Peter VK3FBEN, that treasurers' report and correspondence be accepted, all in favor.

Technical: Ray VK3YNV. It has been an unconfirmed reported that the UHF CB repeater has been dropping out, needs to be monitored. Ray suggested that this could be an opportunity to upgrade, Kevin VK3KPL has advised that an amateur from the Yarra Valley has a number of cavities and repeaters (L450) for sale at \$600. As \$500 is the limit for spending without board approval, it was moved by Rob. VK3BLD that the limit be raised to \$600 so that Kevin VK3KFM can make the purchase. Seconded by Rob. VK2RK.

Fusion Repeater. As Geoff VK3ZNA's wife Pat is having surgery, progress will depend on time availability.

Hamfest 10th Sept. Peter VK3AXI reported that Josh. Has organized the Amateur Radio magazine advertisement, Pat. VK3OV has booked the hall, Cheque to be written today for security deposit. The church has requested that the carpark be free of vehicles between 9:30 am and 10:30 am. Catering - Jacek VK3TJS to contact Asim from People Helping People. 13 tables have already been booked. Peter VK3AXI asked for a volunteer to do tables allocations and produce a guide for traders on the day. Rob. VK3BLD kindly accepted the task. Bill C. suggested the entrances for Traders and Patrons be clearly marked.

Jaycar Expo. Stevo VK3JSD, "only 2 weeks to go! Jobs need to be allocated". 8:00 Setup. Stevo VK3JSD to provide BBQ and gas bottle. Ray VK3YNV has offered to man the BBQ as he has done the safe food handling course.

Ray VK3YNV will pick up from club rooms what is required – Gazebo, TV. etc.

Kevin VK3KFM has offered 2 Gazebos and 2 tables

Geoff VK3GSR will have his vehicle mobile station on site.

Peter VK3AXI will provide a HF Transceiver and squid pole.

Peter VK3ASK has produced an article for "whats on" in the Shepp. News. He will also talk to Christine at radio one-fm.

Geoff VK3GSR asked if there would be information available regarding Ham exams. Peter VK3AXI said he would handle any enquiries.

.Arthur VK3AFD to provide membership forms.

General Business:

Rod's Shed Cleanout. Terry Faye has sorted 75% of the vintage radios – prepared a spreadsheet and sent to vintage radio club. Frank Alford has taken the radio valves. Peter VK3AXI has acquired the magazines, -Amateur Radio and Silicon Chip.

Containers of miscellaneous items were displayed at today's meeting and sales were in excess of \$700.

ACMA. Rob VK2RK spoke about the ACMA and licensing of Amateurs. He had concerns in regard to Exam fees, licensing standards and accessors under the new guidelines.

Ray VK3YNV moved that as we are affiliated with the WIA, a letter should be written to WIA asking them to explain the current position on licensing. Motion seconded by Rob VK2RK.

Man behind the mike - Barrie VK3KBY, has reschedules for next month.

Meeting closed at 2:25 pm

Editor's Comments

Well, our July club meeting was another successful day with Arduino being taught to start the morning plus the great work by Ray and his team to sell over \$700 worth of the items from the Rodney shack. A great effort and one I am sure will be appreciated by Lyn Champness.

We also had the usual display of projects and a rousing address by Stevo, to get us all motivated for the Jaycar day.

It is also pleasing to re-iterate the comments made by our president about the Jaycar day.

The club really worked together on this project and given the fact that people turned up and were asking questions means that it was worth the effort.

We can only hope that some of these people now arrive for a club meeting and find out more about our group and what we have to offer.

From our perspective, we need to try and make their visit interesting and informative and assure them that we are not just a group of old guys talking ham radio.

We are a group of people of all ages who are keen to expand our hobby, welcome members of all ages and to expand into new areas of electronics.

See you all at the next meeting
73's Peter Simpson VK3ASK.

Sale of Equipment from the shed of Rodney Champness.

Ray Gardiner VK3YNV and a team of willing volunteers, spent a weekend clearing out the back shed of our dear friend Rodney Chanpnness.

They have sorted and catalogued many of the items and have filled 20 large containers with equipment. Photo below.

Once again, at our next meeting these items will be up for sale and all proceeds will go back to Rodney's wife Lyn.

No reasonable offer will be refused, so bring along some money and get ready to have a hunt.

There are coax connectors, switches, project boxes, ferrites and many other components, too many to list.



Silent Key article for our dear friend Rodney Champness VK3UG

On a separate document, attached to this newsletter, is an article published by the Amateur Radio Magazine.

Our sincere thanks to the WIA for allowing us to re-print this article as part of our newsletter.

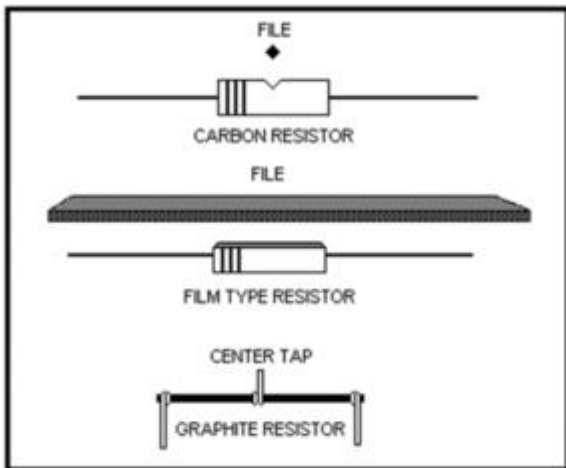
Technical Tip from our President VK3AXI Precision Resistors

There are times when a specific value resistor falls outside the normally available values. You can use a trimmer potentiometer; however, the exact value may be hard to tune and vibrations can change the setting. Precision resistors are available commercially, but again they may not be the exact value you need. Because of new components and more demanding circuit designs, the need for precision resistors is growing.

One way to make your own precision resistors is to file them down. The illustration shows how to prepare carbon and film type resistors. Choose a resistor that is closest to, but greater in value, than you need. In the case of a carbon resistor, use a square or triangle file and work it across the resistor to cut a groove the resistor. Connect the resistor leads to an ohmmeter with alligator clip-leads to monitor the change in resistance. Film type resistors should be filed using a flat file.

One way to simplify the process is to solder the resistor tightly in place on the circuit board and gently file the resistor. When you have achieved the proper value, clean away the excess particles and then coat the resistor with airplane glue to keep out moisture.

Another way to make your own resistors is to use pencil lead or graphite. Even the resistance of a line on a piece of paper can be measured on an ohmmeter. Wire wrapped around a pencil lead can function as a resistor. Shrink-wrap will operate as an insulator or again, use airplane glue. Even centre-taped resistors can be made from pencil lead. Different number pencils, such as a number 2, will act differently than a number 4, so again experiment.



Below some pictures of our Jaycar Demonstration Day.
Thanks to Les. VK3VSM and Adam VK3UU



Denys VK3ZYZ has been busy in the shack with a modified server power supply for 13.8 V and 24V

Also plenty of 3D printer work.

Check out all the details on the forum

<http://www.sadarc.org/xenforo/upload/index.php?threads/server-powersupply-mod.235/page-2>





SHEPPARTON & DISTRICT AMATEUR RADIO CLUB
www.sadarc.org

HAMFEST

SUN 10TH SEPT
10AM - 2PM

(open to Exhibitors at 7:00am)
St Augustines Parish Church Hall
96 Orr St, Shepparton

\$5 ENTRY
\$20 TABLE*

*Trader entry: \$20 for first table
additional tables \$15ea.



ALL ENQUIRIES and BOOKINGS

hamfest@sadarc.org

146.650 MHz - 600kHz 123 Hz CTCSS