



Founded 1979 Incorporation No A6677 P.O. Box 692, Shepparton 3632
August 2022

SADARC committee

President:- Rob Hose - VK3BLD Vice-President:- Barrie Halliday - VK3KBY
Secretary:- Arthur Duke - VK3AFD Treasurer:- Ian Saunders – VK3YYY
Membership Sec:- Ian Saunders - VK3YYY Assistant Secretary:- Geoff Angus - VK3ZNA
Webmaster:- Ray Gardiner - VK3YNV Hamfest Co-ordinator:- Peter Rentsch - VK3AXI
Newsletter (editor):- Rodney Champness - VK3UG
Tech. Committee:- Geoff VK3ZNA, Ray VK3YNV, & 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 informal chats and technical talks. A BBQ follows (a gold coin donation). Business 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), **Testing, out of 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>

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

VK3PNG Bruce Glasson SK

Bruce was born in Rochester Victoria in 1938 and lived on the family farm. Bruce first went to school at Bamawm P.S and later the Echuca technical School. I believe it was Bruce's father who started Dad's interest in radio by stringing up wires to trees to receive S.W radio. Later when TV arrived large antennas were soon up and long-distance TV was the new Interest with not many local channels, later CH 0 in Queensland was often coming through

CB radio was the next step first with AM 27MHz to use around the farm (I believe CB wasn't legal at this time only for businesses). Many contacts were made interstate even with very low power. Later 27 MHz CB was legalized 18 channels was first but many 23 channels were around the house then 40 channels later on. Our farm was easy to find with an 80 ft tower with 5/8 antenna on top and 3 element Yagi on another.

Bruce started up a CB radio club it was called November Charlie, his call sign was NC301, the club often had family days out where people could meet other members and have a BBQ. Bruce was president of this club for many years and members would also use CBs for community events. He then sold the farm and moved to South Australia and got involved with ACRM which involved many motor sport events (enduros with motorbikes and rally cars). This involved setting up repeaters for the new UHF CBs and portable stations using high gain antennas and tall masts to make sure the 5 watts could get through.

It wasn't until I (VK3HEN) got my call that the push to get Bruce to get his was on. After much pushing he went for the new F call and never looked back later upgrading to standard. The new range of frequencies suited Dad as it was much easier to help the community with events of which there was many. Over the years Bruce made many new friends on the radios and would often visit them when on holidays and they would visit dad also.

VK3HEN Darren

Thank you for the story of your father's life. I know that there could be much more said about his life as mentioned at his funeral. A friend in Rochester told me of one of his other activities that of water divining. An interesting activity with no rational explanation of why it works. I appear to have the same ability.

Rodney VK3UG

President's Report August 2022

As most of you know I have been inactive this month due to medical procedures, so I don't have a lot to report. The Hamfest preparations are going well and we are hopeful we will have a caterer for the day. There will be some final discussions at our meeting so don't be shy about putting your hand up to help out on the day.

Sadly, our Newsletter editor Rod VK3UG is resigning due to ill health, so we need a new editor. Think about it and we will see if we can get a new editor at the next meeting.

There has been a lot of activity on the forum with many new projects being presented and a few great videos shared and are well worth watching.

I understand there have been some great conditions on air and a few members have had some good DX contacts. The 80M band was in good form for Wednesday evening met .

Our next meeting will be on 3rd September commencing at 11:00 A.M. and will be preceded by the Arduino course which will be run by Ray VK3 YNV commencing at 10 a.m. Members are asked to bring their laptop with the IDE software installed and ready.

I hope to see you all there.

73 Rob (VK3BLD)

SADARC Aug. 2022 Meeting Minutes.

Club Rooms, Shepparton

In Attendance: VK3BLD Bob, VK3ZYZ Denys, VK3BPH Kevin, VK3AXI Peter, VK3KBY Barrie, VK3YYY Ian, VK3BF Alan, Josh, VK3AFD Arthur, VK3OV Pat, VK3ASK Peter, Bill C., VK3EB Dallas, VK3TJS Jacek, VK3JSD Stevo, VK3ZNA Geoff, VK3KAL Neil, VK3KFM Kevin, VK3DP Steven, Ray VK3YNV and visitor James Fitzgerald.

Apologies: VK3UG Rod, VK3UI John, VK3KUG Ray, VK3GSR Geoff.

Minutes of last Meeting: Read by VK3AFD Arthur Moved by VK3ZNA Geoff
Seconded by VK3BPH Kevin all in favor.

Business Arising

JOTTA Oct. 11. Five members indicated willingness to be involved. Amateur operators will need to have working with children approval.

Membership Cards. Josh should have them by next meeting

Correspondence

Inward: 1.EMDRC Club Newsletter

2.EMDRC Funeral announcement for John Martin VK3KM

3. Rodney Champness – Resignation from Technical Committee.

Outward: 1. Get well card to Eric VK3BXA

Financial: Treasurer reported income of \$25.08 – membership plus interest on account. Outgoing - Hall rental for Hamfest \$425 and security deposit of \$500. Three name badges \$29.90.

Moved by VK3YYY Seconded by Peter ASK all in favor.

Technical: Ray VK3YNV expressed his disappointment that Rod VK3UG had tended his resignation from the Technical Committee.

Peter VK3AXI moved that a letter of appreciation be sent to Rod thanking him for his input during his time on the committee. Seconded Ian VK3YYY all in favor.

IRLP to be re- installed on Mt. Wombat

Researching an Independent link to wombat

Crackle is again evident on the two-metre repeater.

Peter VK3AXI received email asking if the club was still interested in setting up Fusion. No decision was made.

Moved by Ray, seconded by Kevin, all in favor.

General Business:

Hamfest Peter VK3AXI - Reported that 22 tables have been booked. He presented a list of jobs for the day. A 6:00 am start would be required.

Ray VK3YNV suggested that Club Membership Forms be available for patrons. President Rob. To provide 50 applications.

Arduino- This activity is proving a success, should we consider a separate day dedicated to Arduino? Discussion of ways of promoting the activity outside the club.

Peter VK3ASK Peter reminded us that the property has been sold and handover is July next year. We should be looking for a new venue.

Ray VK3YNV Said that the history of our hobby was being lost and there was an urgent need for a museum or storage facility for the preservation of Ham equipment etc. of Deceased estates - any ideas?

Meeting Closed. 2:25 pm.

Editor's Ramblings – well not quite, as most supplied by Geoff VK3ZNA

Approximately 9 members attended the Arduino class run by Denys VK3ZYZ.

Denys presented the first of simple applications that Arduino can execute. He gave out notes containing the code for each stage of the project.

The first exercise was to 'blink' a LED at a set rate, 'on' for one second and 'off' for one second.

The second exercise was to use a potentiometer (pot) to set the time the LED was 'on', and 'off' set by Pot.

The third exercise was to introduce a second Pot and sets the LED 'off' time.

The fourth exercise was to PWM the LED, set by the Pot.

Josh Gardiner . Circuit Drawing

Ray VK3YNV was given the task of providing a brief report on the activity discussed on the day.

Club Name

Geoff VK3ZNA, gave a brief talk on Club Membership and the Clubs' presence in the GV Region. He explained 'that we as a Club are at the ***fork in the road*** with aim of gaining new members. One fork will see the Club membership **decline** as the Club is registered as an Amateur Radio Club, the **alternative fork** is to change to include ELECTRONICS in the name. Having visited JayCar on numerous occasions, observations show that there are many persons with an interest in ELECTRONICS other than radio. Our Club must show our wares in the public arena to get recognition and entice additional members for the future of the Club.

With the impending threat of relocation due to the sale of the property, as mentioned by Peter VK3ASK, every action we take should, hopefully, get positive results.

Geoff suggested we, as a Club, embark on a Club Project. he mentioned the members should read a book by titled '***A short History of Nearly Everything***'. by, Bill Bryson,

Geoff VK3ZNA

The Newsletter and the Editor

Regrettably, I need to relinquish my position as the Editor of the club Newsletter. My health over the last few months has deteriorated and I need to concentrate on getting well again but the way ahead looks rough. I can continue to do the newsletter for a while and will assist whoever takes over this role.

I have over the years endeavoured to have a page which says what our club is and who the committee is, with contact details. This includes the frequencies of our repeaters, any access codes and as far as possible when and if they are available. Some of this information is shared onto the website so that as many members and casual viewers can see what we are up to and to encourage them to join us.

There are the regular President's report and the Secretary's minutes of the meetings.

The following items I consider to be essentials as well are: -

- **Editor's Ramblings** which is usually a collection of snippets of information about items which I believe will be interesting to members. These may be things spoken about at the meeting but are not minute material. Input from other members is always welcome.
- **Buy and Sell, Information wanted** by members (free for members). This section isn't used much, but the potential is there to use it more.
- **Articles** are always welcome; some are short and some are long. Long ones I split up into segments and Les Tator's article on mobile installations is an example. As an aside another magazine has asked for permission to reprint it. My knowledge on a particular subject may be limited, so I will check to see if there are any glaring errors or items that have slipped through any proofing which I need to discuss with the author. You do not need to be an **A's** student in English, I'm not.
- **Pictures and diagrams** are always welcome relating in some way to our hobby. A good photograph is not always easy to obtain, but worth the effort.
- There is always need of snippets on who has worked who, what bands have been open etc. I have not applied any of this to the newsletter as in reality I'm not particularly active on air being mostly interested in construction and trying things from the valve era and writing articles, just for fun.

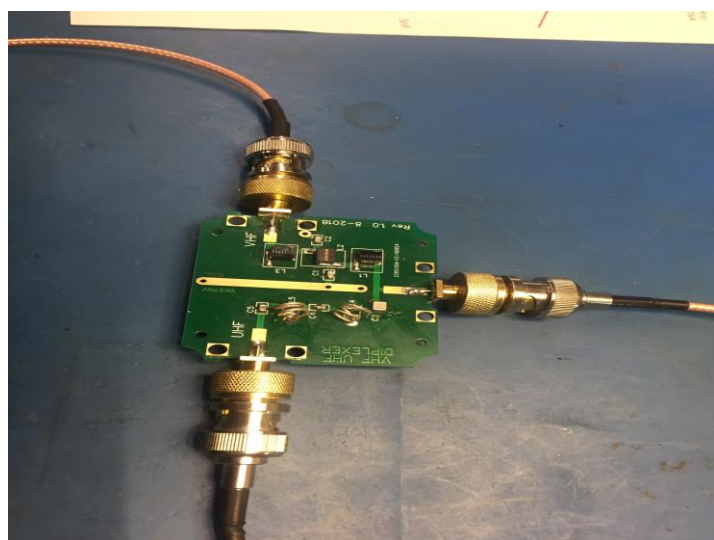
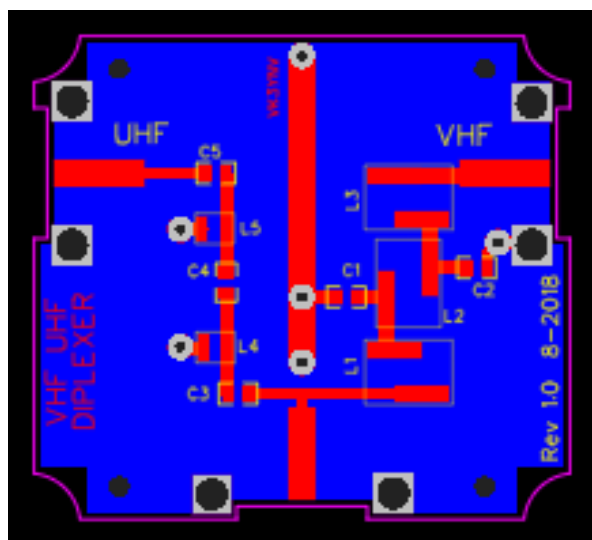
The above is how I have treated the newsletter, restricting myself to around 8 pages (four sheets of A4). There is another amateur radio club that produces up to 28 pages per month of interesting material. In my opinion a **news-LETTER** is purely that, a letter sized production. Putting together a newsletter takes a lot more time than it takes you to read it – perhaps four to five hours. When someone takes over it will not be an easy task. Spell check and grammar on the computer will help get things right. So, if you want to seriously take this position on you need to budget this amount of time and encourage help from others such as making sure what you put in is as accurate as you can make it. Even write up what you want in the newsletter then checking a few days later to see it makes sense. You'd be surprised the number of errors you will detect. I will help the new editor as will others, such as shown by Geoff's input earlier in the newsletter.

A Duplexor Design for 2M 70CM (Part 2 of 3) --- Ray VK3YNV

This part deals with the construction of the duplexor/diplexer.

The PCB artwork is public domain and may be accessed at the open hardware section of EasyEda https://oshwlab.com/RayGardiner/uhf_vhf_duplexer

Here is the artwork and assembled board.



Parts List

VHF (2M)

L1 L3 68 nH AIAC-1812-68NJ-T Digikey 535-11996-1-ND

L2 100 nH AIAC-1812-R10J-T Digikey 535-11998-1-ND

C1 C2 18 pF 251R5S180JV4E Digikey 712-1380-1-ND

UHF (70 cm)

L4 L5 18 nH 2 turns silver wire 0.6 mm 6mm diameter 8mm long

Solid silver wire from eBay jewellery suppliers.

Mount at 45 degrees to 2M coil to minimize any coupling.

C3 C5 4.7 pF 251R15S4R7BV4E Digikey 712-1371-1-ND

C4 2.7 pF 800B2R7BT500XT1K Digikey 1284-800B2R7BT500XT1KCT-ND

C4 is a critical component, it is a High RF Power Ultra-Low ESR capacitor.

The Connectors are PCB mounting SMA female. There is provision for a central shield to be soldered between the two halves. (Not shown in the above picture).

Next instalment will be the testing and installation. Links to the components above will be available on the club website forum.

