



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

Repeaters VK3RGV Freq: 53.725MHz (1 meg offset),

146.65MHz (IRLP Node #6992 inoperative. Will return when new repeater is installed.)

(Echolink active.) (600 kHz offset),

439.775MHz (5 MHz offset), 438.2MHz (D-Star) [D-Star not operational at this time on Mt Wombat]

Access to the analogue repeaters is by sub-audible 123 Hz tone or noise mute (less sensitive).

Club Network informal on air get togethers. All welcome. Club callsign VK3SOL:-

Wednesday evening - 3.62 MHz \pm interference 7.00pm & 8.30pm. See notes 2mx repeater 8.00pm

The WIA Sunday morning broadcast is often re-broadcast in the evening on the 2 mx repeater.

The local vintage radio club has a get together at 11.00am of a Sunday on the 2 metre repeater. Many of their club members are members of SADARC too, so join in for a chat.

Meetings are held at 1 pm on the first Saturday of the month (except January when no meeting occurs) at the Mooroopna Scout/Guide Hall off Echuca Road, Mooroopna. Variations in these times and days are normally notified in the preceding newsletter. Website – www.sadarc.org

Facebook - www.facebook.com/sadarc.org Info for page contact Denny on denny3782@gmail.com

DISCLAIMER. No guarantee is given as to the accuracy of information in this newsletter. Warning: - There is a danger of electrocution or injury when working on electrical/radio gear. You do so at your own risk.

President:- Peter Rentsch

VK3FPSR

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Secretary:- Andy Ashley

VK3AJA

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Vice-President:- Barrie Halliday

VK3KBY

Treasurer: - Ron Burns

VK3COP

Membership Sec: - Pat O'Shannessy

VK3OV

Webmaster: - Steven Hamer

VK3DP

Station Manager: - Vacant

Publicity Officer: - Vacant

Technical Committee: - Phil VK3ELV, Ray VK3RW, Geoff VK3ZNA, Kevin VK3BPH & Rodney VK3UG

Newsletter:- Rodney VK3UG (Editor) rodlynn6@bigpond.com & AndyVK3AJA (Printing/ Distribution)

OTHER CLUB'S NEWS

Bendigo Amateur Radio & Electronics Club nets – Tuesdays 8pm 147.15MHz VK3RCV with club callsign VK3CMZ and Thursday 8pm 3.655MHz \pm interference. All welcome to participate. Many SADARC members are able to access their 2mx repeater.

Ballarat Amateur Radio Group – email vk3bml@barg.org.au and www.barg.org.au

Next meeting 4th March 11am BBQ then a talk – should be good see further on in newsletter.

Presidents Report February 2017

Thank you to all those who attended our last meeting. We had a great roll up and as far as I was concerned a very good and informative meeting. Thank you to Joe VK3YSP and Julie VK3FOWL for being so prepared to give us your time as guest speakers.

As guest speakers Joe and Julie spoke about the School Amateur Radio Clubs project that they have reinvigorated in three Melbourne Schools. A report on their actual project can be found further into the newsletter.

What we as a Club now need to do is to decide if we wish to be involved in this or just say “what a great idea’ and then move on. Personally I would like to see the Club involved in this as it is an excellent way to create new and enthusiastic students for the future of electronics and Amateur Radio. The Schools Amateur radio Club is much more than Amateur Radio, it is an opportunity for us to expose young inquisitive minds to the world of electronics.

Joe, in his talk made a comment that very much resonated home with me. He spoke about those children in school that don’t like or are not interested in sport. They tend to gravitate to the Library at lunch times or go off on their own or with a couple of other friends that are not interested in sport. I was one of those kids that did not like sport at all and gravitated to the Library. In that Library I found some books on electronics and started to read them. I became friends with the Librarian and asked her if she would get more books in on electronics which she did. In one of those books was a project using a little 1.5v electric motor which at that time you could buy from Woolworths. (do you remember the old Woolworths stores with long rows of product displayed in little units made up of glass dividers with a different product in each). I saved my pocket money which by the way was sixpence per week and bought one of those motors – two shillings and sixpence. This was my very first memory of my introduction to electronics because the book I read explained how the coils and the magnets in the motor made it rotate. The project was to get a Peter’s ice cream stick, put a hole in the centre of it, slide it over the shaft of the motor and wow, you had a propeller – pretty impressive when you are 6 years old. Now, 55 years later I am still interested in electronics.

I have never worked in the Electronic industry as such but I now find that I am in a situation where I can encourage other young people to take that first step and “build that propeller”

Talking of building things I would like to schedule in for the April meeting our first project as a result of Geoff VK3ZNA’s offer to oversee a project. At our last meeting we decided that the most interest was in building a 70cm, 2m and 6m antenna. Geoff is happy for this to occur at our April meeting. Geoff will provide all that is need on the day to build the antenna and there will be a small charge for the cost of materials used. So as Geoff has sufficient time to prepare all the material I would like an indication at our next meeting of those who would like to build this antenna,

Our next meeting is on March 4th and we will have guest speakers in attendance on that day. Hopefully the weather won’t be too hot so I thought we could start with a BBQ.

That’s it for me this month. Looking forward to seeing as many of you as possible at our next meeting on the 4th March.

Cheers & 73

Peter – VK3FPSR

President – SADARC

SADARC Calendar of Events

March 4th BBQ at 11.00am followed by Club Meeting and Guest Speaker – VK3BYD Warren – Regional CFA Communications Officer. Topic – New Digital Radio Comms for CFA

April 1st Antenna Construction Project, BBQ and then followed by Club Meeting and conclusion of the Antenna Project

April 9th Combined BBQ with BAREC (Bendigo) at Goulburn Weir TBC

May 6th Club Meeting with Guest Speaker

June 3rd BBQ at 11.00am followed by a Show n Tell

June 10th & 11th Steam Rally - Echuca

AGENDA

Shepparton and District Amateur Radio Club Meeting

1:00 pm 4 Feb. 2017 Minutes

- In Attendance were:
VK3FALN Alan, VK3KBY Barrie, VK3PXJ John, VK3OV Pat, VK3DSF Max, VK3ZE Huntly, VK3CHV Ian, John Stevens (DX Club Aust.) VK3FCVT Graeme, VK3VSM Max, VK3FNQS Jason, Scott Saunders (SWL), VK3ELV Phil, VK3ZNA Geoff, Bill Crocker, Karen Rentsch, VK3FOWL Julie, VK3YSP Joe, VK3FDV Dave, VK3COP Ron, VK3FPSR Peter, VK3POP Greg, VK3TJS Jack, VK3KMF Mark.
- Apologies:
VK3BPH Kevin, VK3NQS Colin, VK3FBNG Bruce.
- Confirmation of Minutes of previous Meeting
No Minutes as was xmas lunch.
- Matters arising from the Minutes
None as xmas lunch.
- Inward and Outward Correspondence

In: Receipt for VK3SOL.

QSL cards (some sorted and given out)

Echuca steam rally invite via email

Invite to Kyabram vintage machinery rally (via snail mail)

- Reports
 - Financial:
Read by Ron. Moved by Ron, second by Barrie.

- o Technical:
Read by Rodney.

He spoke about lightning strike at Mt Wombat and repairs that have been completed.

Rodney also read a brief report on the closing of Radio Australia

At which he was present.

IRLP was mentioned and we agreed to wait till new repeater was installed before further work.

Andy will see if he can organize Cherry picker for putting antennas back up at clubhouse.

We have thanked Bruce, Darren and Alan for the huge efforts at

Murray quad. Alan also thanked the members and others that helped out.

- General Business

Andy has suggested shifting 80 m net to 8:30 pm. We will give a try next week. All agreed.

Geoff (VK3ZNA) has his first project for the club is to be 6 meter antennas.

We all agreed to BBQ at Goulburn Weir April 9th, further info will follow.

- Closure and date of next meeting

Closed 2.00 PM next meeting 4 March.

FOR SALE:- Kenwood TS130S HF transceiver in good working order
with handbook - \$300

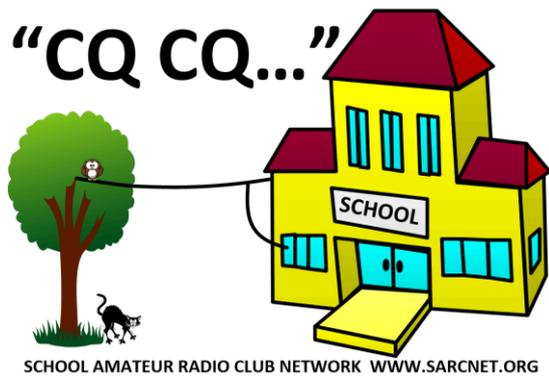
Contact Barrie VK3KBY for more information on 0427 116 101

FOR SALE :- Over the last few years I have developed AC power supplies to power valve type vintage battery radios. The designs and kits of parts are now available. The supplies are designed to supply DC LT voltages between 1.4 and 9 volts at up to 3 amps regulated, and DC High Tension voltages between 22.5 and 135 volts at up to 25 ma, plus bias voltages between -1.5 and -22 volts. All voltages are regulated. A printed circuit board to mount most of the parts is \$22 posted within Australia with circuit information.

A printed circuit board and a kit of parts for the board plus a few components external to the board (but no heat sinks) Mk V version \$80 or the Mk VI version \$70 both posted within Australia. Circuit, circuit information and construction ideas supplied for the version purchased.

Contact Rodney VK3UG 03 5825 1354 or email rodlynn6@bigpond.com

School Amateur Radio Clubs presentation by Julie VK3FOWL and Joe VK3YSP.



Julie and Joe presented a very comprehensive and successful program for the activation of primary school amateur radio clubs. Julie, who runs the SARC program at three primary schools in Melbourne, said “The children can’t get enough of radio club and there is a waiting list to attend the weekly sessions”. Joe, who provides technical support and promotion for the clubs, said “All that is required now is for other amateur radio operators to start their own clubs”.

Their presentation covered the setup and operation of a club and it presented actual feedback from principals, teachers, parents and students highlighting the educational and inspirational virtues of this fun activity for girls and boys alike.



“We love Radio Club”



Michael Day

School Principal, Mr. Michael Day, is quoted as saying: “It is interesting that in this day and age of mobile broadband networks and social media that Amateur Radio, the pioneering radio hobby of the last century, would be an excellent way of introducing science and technology to young children today. Amateur Radio enthusiasts are an amazing, untapped resource for educators. They are hidden away in every community, and can provide their

own equipment and expertise. They also have a zeal to pass on this technology to the next generation. And, I would say, their aging ranks could do with some new recruits from us. So, this largely free and enriching collaboration between the schools and the Amateur Radio fraternity is a classic win-win situation.”

Joe said “The purpose of SARC is to encourage interest in Science, Technology, Engineering and Mathematics (STEM) subjects among the very youngest students using the resources of Amateur Radio. It is not a Foundation Licence course. It is taking an interest in the next generation; giving something back to the community and one of the most worthwhile applications of Amateur Radio.”

The presentation raised many important points including:

1. Safety of children is of upmost importance.
2. First contact between Amateur Radio and youngsters must be a positive, fun and uniquely inspiring experience.
3. Experience in working with children, session planning and practice are all essential.
4. Amateur Radio operators starting a club must “fit the profile” by being very patient and supportive; understanding the needs of individual students and providing praise and encouragement in spades.
5. Typical equipment required and antenna installation.
6. How Amateur Radio clubs can support and promote the activity.
7. What the WIA can do and changes required to the Amateur LCD to support SARC operation.

Julie and Joe’s program is called the “School Amateur Radio Club Network” (SARCNET). They have provided a web site (www.sarcnet.org) full of free, on-line resources for anyone thinking of starting their own club, including: News, activities, missions, awards, projects and FAQs. SARCNET is also a lunchtime net on 40m, 7100kHz, between 11am and 12pm, Melbourne time, every day except Tuesday. They extended a warm invitation to anyone interested in helping youngsters with their first on-air experience.

The pair said “Our vision is that one day School Amateur Radio Clubs will enjoy many of the benefits that other Amateur Radio clubs take for granted like having their own regular on-air nets, contests, hamfests, field days, conferences, newsletters and a regular column in Amateur Radio magazine. We hope that SARCNET will become a nationwide programme supporting all School Amateur Radio Clubs, providing consistent guidelines and free on-line resources to all SARC operators.”

For more information please email info@sarcnet.org.

Following on the next page is an example of one of the projects that Julie and Joe have worked on and developed. It is a satellite tracking system (hope I’ve got that right). I think if we had had more time available we could have had a very interesting talk on that alone and we would have learnt more about such systems.



Continuing on from Les's morse adventure here is some information on his lambic keyer. This is not the last of Les's adventures as probably next month we'll have more on his manual key and its restoration.

ZACH CW lambic Paddle.

To complement my Begali CW Machine, I did a search on the net for a suitable CW lambic paddle to use with my training package.

I eventually settled on a keyer made by a very nice Ham in the Czech Republic named Slavek, OK1TN.

He produces the ZACH paddle on his CNC machines and it is a very high quality paddle, with exact components and tolerances. The spacing and return force are magnetically controlled and adjustable for very precise spacing's, all leading to a keyer that is well priced and a pleasure to operate. Highly recommended if you are a Morse lambic key operator.

For more info you can google **"ZACH lambic paddle"**

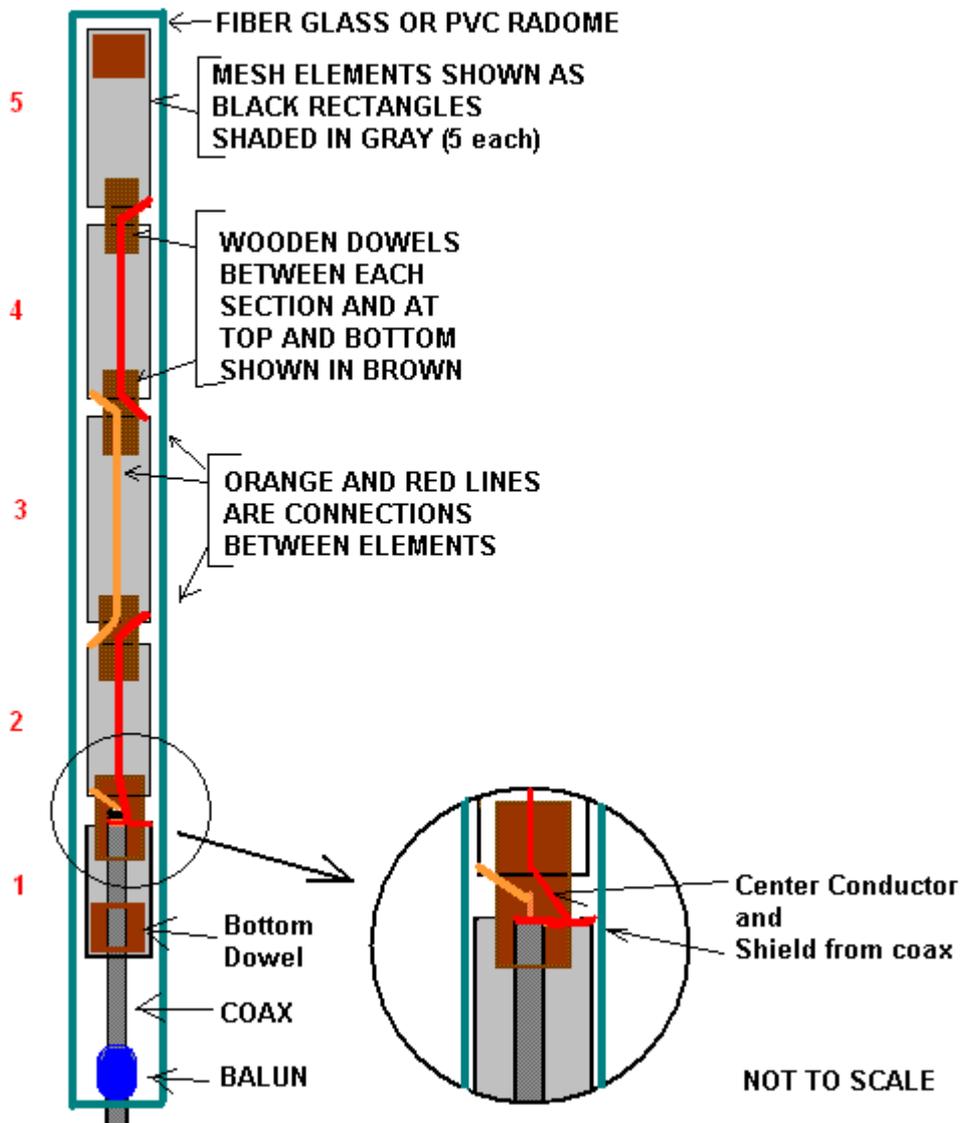


Sorry about it being sideways but I'm no expert on manipulating photos into text.

Editor's Ramblings.

- Note that the header of the newsletter has changed to reflect changes in club activities and repeater information. Of particular note it has been decided to have the HF Club get together on a Wednesday evening at 7 pm **and 8.30 pm** and see which best suits members and propagation conditions. Give both a try if you are able – I can't as I have no 80 metre antenna and plenty of interference.
- The protest about the closure of Radio Australia HF at Shepparton and the closure of the Northern Territory HF shower transmissions continues and if you haven't put in your protest telling the government that it isn't a good idea to close these services now is the time you need to do it. Although short wave broadcasting may not affect you directly, by protesting you will get an idea on how we as amateurs can protest when further deterioration in our operation of amateur radio occurs as I suspect it may. Give it a go.
- We still have no report on the Murray Quad due to circumstances beyond our control. Some felt that the Quad was very good whilst some others had reservations. We hope to have a report sometime soon.
- Andy VK3AJA will be organising a working bee at John VK3PXJ's place in Tatura to get his HF system up and running reliably. John suspects that there is an intermittent problem somewhere in the antenna system. You may be able to assist and this may be the start of further working bees to assist older members in particular to get their station up to scratch. If you want help contact Andy. It is not expected that Andy will be doing all of the work, so if you can assist in these working bees contact Andy.

W7LPN 6 Meter / 2 Meter / 440 Collinear



1 & 5 = 19.5" x 4.0" mesh rolled into cylinder
 2,3 & 4 = 38.25" x 4.0" mesh rolled into cylinder
 Spacing between elements is 0.5"
 Balun consists of 7 of No 43 ferrite beads

| | | | | | |
|-------------|---|------|-----------|------|-------------------|
| Gain Claims | = | 6M | 3.07 dBi | VSWR | 1.7 to 1.9:1 |
| | | 2M | 8.56 dBi | VSWR | 144.1 – 147.9 |
| | | | | | Better than 1.2:1 |
| | | 70cm | 12.02 dBi | VSWR | 1.4:1 across band |