

# BARG News

*Ballarat Amateur Radio Group*

*Inc. #6953T*

*November*

*Monthly Newsletter*

Next Meeting

**Saturday 1<sup>st</sup> of December 2018 @ 11.00am**

At the B.A.R.G. Club House, Ballarat Airport

All Welcome



## **Contacting us**

You can write to the club at the address below, or e-mail the secretary

The Secretary : B.A.R.G. Inc.  
Box 1218  
Mail Centre  
Bakery Hill Vic. 3354

Or E-Mail : [vk3bml@barg.org.au](mailto:vk3bml@barg.org.au)

We're on the web  
[www.barg.org.au](http://www.barg.org.au)

## Presidents Report

Welcome to the November newsletter. Two weeks late, but better late than never. Hamvention is behind us now, and what a great day that was. More people through the door than we've seen for at least 10 years. More traders than we've had for many years too. Clearly the event is worthwhile running. Each year we've improved the ticket selling and management of the day. Thank you to all who contributed to the running of the event. It's a real team effort, we should be very pleased with the outcome.



Next meeting will be a Saturday. As the last Friday of November is also the last day of the month, so the November meeting will actually be in December. With a Saturday meeting we'll have a BBQ and may follow the meeting with some work around the club.

Later in December we'll run the Christmas breakup, same as the last couple of years, this will be dinner at the club house. This has worked well before.



A Foundation course was run at the club a couple of weeks ago, with four candidates working through the course. Well done to both candidates and instructors. Great to see people coming into the hobby.

Next task will be to work out the schedule for the first half of next year. Please let the committee know of topics or speakers you'd like to see covered through 2019. Especially if there are topics you can present.

Till next time,  
Malcolm, VK3OAK

## VHF and Above for November 2018

With warmer weather on the horizon some club members are checking their equipment for readiness to take part in the upcoming Spring and Summer field day activities. These occur in November and January when it's hoped the weather will be kind to us to allow stations to set up at a portable location.

Some plans were being made to have test day prior to these events but with JOTA and the BARG hamfest on our doorstep has not be possible.

A few of the locals have been testing their microwave equipment from home locations to see if propagation paths exist which will allow further experimentation of these bands which are often left to field days and test days. It's believed that paths do exist around the town and could be used for further experimentation.

Over the past few weeks VK3AXH and VK3IDL have been testing 3.4GHz from Mt Helen to Ballarat North and after making several changes to antenna's at each end have now been able to reliably have contacts using SSB, FM and SSTV modes. Generally signal levels received have been around S7 to S9.

Attached is a picture of one of the transmissions on this band using SSTV received by VK3AXH.

The 600mm prime focus dish was used by VK3IDL with a pcb log periodic antenna at the feed point which covers 2-11GHz. As this setup has worked on the 3.4G band it's hoped some success will also happen on 5.7G and 10G bands as well.



If success occurs on these bands further tests will be undertaken with rain scatter propagation experiments as well as other modes to see what the limits are at some of these frequencies.

## **DMR**

Since the talk at the clubrooms by Tim VK3TIM there is a growing list of members that have purchased and registered a DMR VHF/UHF handheld radio. They are now being used together with HOTSPOTS to allow contacts to be made locally and around the world and more recently was used at the JOTA weekend by Robert VK3PTW at the Jamboree for Scouts. The list so far include VK3PTW, VK3PWG, VK3NBV, VK3ALM, VK3NRD, VK3AXH and possibly others. I'm sure this list will grow so watch this space.

Remember if you have experienced some activity on the VHF and above bands why not drop a note to the magazine editor as I'm sure others would like to know of you activity and experiences.

Till next time 73 de VK3AXH



### **VK3BML club station of Ballarat Amateur Radio Group.**

For VK3BML club station of Ballarat Amateur Radio Group.

<b>BARG THURSDAY NIGHT NET CONTROLLERS LIST.</b>				
<b>DATE</b>	<b>OPERATOR</b>	<b>NAME</b>	<b>ALTERNATIVE</b>	<b>NAME</b>
8-Nov-18	VK3DRE	DOUG	VK3DRE	DOUG
15-Nov-18	VK3AXH	IAN	VK3AXH	IAN
22-Nov-18	VK3TXR	PAUL	VK3EXE	CHRIS
29-Nov-18	VK3KQT	DAVID	VK3TXR	PAUL
6-Dec-18	VK3EXE	CHRIS	VK3KQT	DAVID
13-Dec-18	VK3GGG	MICK	VK3DRE	DOUG
20-Dec-18	VK3DRE	DOUG	VK3GGG	MICK
27-Dec-18	VK3AXH	Ian	VK3TXR	PAUL

Hi All

Just confirming that we have a fund raising BBQ on **Sunday the 18th of November**. Coles suggest 4 people, and no more than 5 as it gets too crowded, one person should handle money rather than food.

At least one person needs to arrive at 9am and introduce themselves at the service desk, really everyone else needs to arrive by 9:30. Selling of food starts at 10 am and finishes at 2pm.

Coles will run a tab throughout the event and we pay at the end.

My Dog club did this on father's day, the shop didn't seem especially busy and we made \$273 profit.

We do need some help on the day, please let myself, Doug, know if you can help out. We need at least 4 people, which shouldn't be too hard.

If any of this raises any questions I'll do my best to answer, our committee meeting is the day after, and the general meeting a week after that, so that will be a bit late.

Regards

Doug VK3DRE.

#### **REWARD OFFERED.**

A reward of 500 microfarads is offered for information leading to the arrest of the desperate criminal Hop-A-Long Capacity.

This unrectified criminal escaped from a primary cell where he had been clamped in ions, awaiting the gauss chamber.

He is charged with the induction of an 18 turn coil named Millihenry, who was found choked and robbed of valuable joules. He is armed with a carbon rod and is a potential killer. Capacity is also charged with driving a dc motor over a Wheatstone bridge and refusing to let the band pass.

If encountered, he may offer resistance. The electro-motive force spent the night searching for him in a magnetic field, where he went to ground. They had no success and believe he returned ohm via a short circuit.

He was last seen riding a megacycle with his friend Eddy Current, who was playing a harmonic.

## **DIYODE. Issue 16. Oct 2018**

FEATURES. Motorised second screen. Great for home theatres.  
Smart crutches. Amazing thoughtful creation. “Extra pockets”

EDUCATION.  
Fundamentals. How to read a Fritzing.  
Secret Code. Databases for data logging.  
The Classroom. Part 3: Radio.  
Kid’s coding. Learning algorithms.

PROJECTS.  
Pt1: HDMI gaming timer.  
DIY Soldering station includes Temp control.  
Breadboard power supply. Variable E & I.

OTHER.  
Editors letter.  
Noteworthy. DIYODE in the classroom.  
New & reviewed. Clockwork Pi and more.  
Moonshots. Intelligent Traffic management.  
Going Pro. The plastic recycling shredder.

What's to come next,?



## **11 PRACTICAL WIRELESS November 2018.**

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Preview: Retevis RT3S 144/430Mhz DMR Transceiver.

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P28 Data Modes. Latest development with FT8.

P34 What Next. Ideas for the newcomers and some Hints and tips for all.

P40 Doing it by Design. Intro to Digital Voice for HF.

P43 Radio Bookstore. [www.radioenthusiast.co.uk](http://www.radioenthusiast.co.uk)

P44 Carry on the Practical way. A top band converter for receivers or ex military sets.

P46 HF Highlights.

P50 Making Waves. Atmospheric effects and enhanced propagation at VHF and higher.

P52 Rallies and events.

P54 The World of VHF. Also looks at a cheap 70cm HTT. The Baefong BF-888S

P58 Valve & Vintage: tage. Herbert Hoover (1874-1964), Herbert Charles Hoover 2nd {1903} and, Herbert William Hoover 3<sup>rd</sup> [1927-2010] all involved in frequencies and allocations.

P62 Feature: The transistor revolution {Part 2}

P66 Exploring new Fields. The RWWR Project [Pt2]

P68 Letters:

P72/3 Adverts and the Bargain basement.



And another months reading for all. !

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### FEATURES AND REVIEWS.

Page 14 Wanting to go into space ? Its not far off!

P68 Developing clever scope's high performance CS-448

P82 Intro to programming: Cyprus' System on a chip.

### CONSTRUCTIONAL PROJECTS.

P28 GPS synched Frequency Reference (Part 1}

P38 Arduino based programmer for DCC decoders.(Part 1)

P46 Low voltage, High current DC motor speed controller.

P74 Opto isolated Mains Relay: switches up to [10Amp@250Volts](#).

### YOUR FAVOURITE COLUMNS.

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P90 Circuit notebook.

- Arduino talking clock.
- Micromite Plus Explore data logger.
- Eight button Quizmaster.
- Switch mode solar battery charger with sunset switch.

P98 Vintage Radio. The Emerson 838 hybrid valve/transistor radio.



### EVERYTHING ELSE.

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P96 Product showcase

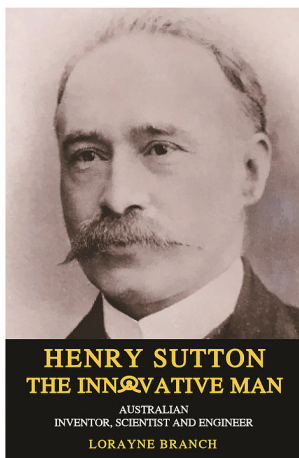
P104 Ask Silicon Chip.

P111 Market Centre.

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P112 Notes and Errata.

And another months reading.



<https://www.tatindiepublishing.com.au/product-page>

Lorayne Branch, who spoke to the club last year about her great grandfather, Henry Sutton, a well known Ballarat identity and inventor of many things, is about to launch her book.

Apparently he was the first licensed amateur in Ballarat. The launch will be on Sat 1st December at 2PM at the Fed Uni Function & events room Ground floor F1, 22 Grant st Ballarat Central. RSVP to [Lorayne.branch@gmail.com](mailto:Lorayne.branch@gmail.com) by 19th November. Books available to purchase and can be signed by the author. Online ordering after the official launch.