

# GYMPIE COMMUNICATIONS & ELECTRONICS GROUP INC.

2<sup>nd</sup>. Quarter 2012 NEWSLETTER

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## PRESIDENTS REPORT

Welcome to our new member Kerry VK4LKE.

Kerry contributed to our Show and Tell at a Wednesday morning meeting with a home made Stirling engine, the engine runs for about 10 minutes on a cup of hot water. (Hoping for a write-up on Kerry's Stirling Engine in a future issue of the Newsletter)

Regarding Show & Tell items Bob will take some beating with his collection of photographic equipment. (see later article)

At the time of writing we have not received a reply from the railway society. When this does eventually happen we will be very busy with building repairs and establishing operating equipment.

Club fund raising continued with a successful BBQ at Mitre 10 on Sunday 15th. Thanks Barry VK4KKN and the other volunteers for your efforts. The signage made a big difference.

Next month will require a mammoth effort, with BBQ's on 5th & 20<sup>th</sup> May.

On Friday 18<sup>th</sup> GCEG will be providing the manpower for a BBQ at Mitre 10 when some of the cast from the TV show The Block will be present for a major presentation. Mitre 10 are providing all the consumables and GCEG will have the option of selling drinks to compliment the sausages, Mitre 10 will then make a financial contribution to GCEG

Ed VK4ABX

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## NEWS ITEMS

1. Next Monthly Meeting of the GCEG Inc. will be held on 8<sup>th</sup>. May 2012.
  2. BARCFEST will be held at the Mt. Gravatt Showgrounds on the 26<sup>th</sup>. May 2012.
  3. Usual Wednesday morning meeting at 10am, tea & coffee & a chit chat.
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## OFFICE BEARERS

President: Ed Fisher VK4ABX  
Treasurer: Barry Molkentin VK4KKN  
Secretary: Isaac Neumann VK4FIBN



I hope that prepares you to digest the following; these are some extracts from the internet with a bit of my own:

A software-defined radio system, or SDR, is a radio communication system where components that have been typically implemented in hardware (e.g. mixers, filters, amplifiers, modulators/demodulators, detectors, etc.) are instead implemented by means of software on a personal computer. While the concept of SDR is not new, the rapidly evolving capabilities of digital electronics render practical many processes which used to be only theoretically possible.

A basic SDR system may consist of a personal computer equipped with a sound card. Significant amounts of signal processing are handed over to the general-purpose processor, rather than being done in special-purpose hardware. Such a design produces a radio which can receive and transmit widely different radio protocols based solely on the software used.

In a nutshell, SDR allows for limitless filtering and processing of signals. In the past you had rigid hardware limitations on filtering and as an end user, you were stuck with whatever was shipped as production. SDR allows limitless possibilities at the mere twiddle of a few bits.

A few years ago I entered the SDR revolution with the Flex 3000. Suffice to say, I sold my own reliable FT-1000D as there was no comparison with performance. All that I know have done the same; sold their top of the line rigs. I would not wish to go back to the conventional systems. The only criticism of these SDR radios is almost exclusively from those that do not own or have not operated one.

Below are a few sites that are interesting.

[http://www.flex-radio.com/Products.aspx?topic=F3k\\_features](http://www.flex-radio.com/Products.aspx?topic=F3k_features)

<http://www.flex-radio.com/>

Erik VK4AES



Front View

### **Baofeng UV-5R Dual Band Transceiver**

Following on from review I did on the UV-3R from the same company it is the turn of their latest offering, however before doing that I would just like to recap on the 3R having had more time with it at the coal face so to speak. My positive comments have not changed and I have found this very compact rig an ideal companion when monitoring at home or whilst in and around town. With just 2W of output, at times, this is a limiting feature, but all in all it still gives good results from most locations in town. I have noted one other matter which is at times annoying, and that is it is very sensitive to any local electrical, or spurious RF noise, which can at times override the higher squelch settings.

Now to the 5R which I have had for a couple of weeks now and following the arrival of the programming lead and software I have had a good chance to check the features of this new transceiver.

Again as with the 3R the new offering arrived well packed and took just on 9 days to get here which is excellent service. The price differential between the 3R and the 5R was just on A\$9.00, so to be frank it is an even better option if features and price are a consideration. The 5R is a whole lot bulkier than the 3R, so not quite as convenient I guess. This new rig comes with a DTMF key pad so accessing an IRLP nodes around the world is well within its capability and sure sets it aside from the 3R. This radio comes with DSP as standard and has 40 menu set items giving considerable control of all of the features this radio comes with.

I found the instruction book easy to read and understand, however as I have noted, having the programming cable and software is a distinct advantage. Note the software is easily downloaded from the internet and the programming cable is the same as the Wouxun KGUV6D that many of you already have. Once downloaded remember to select the correct language otherwise the headings will confuse you, well it did to me until Isaac, VK4FIBN, pointed me in the right direction.

Another feature over the 3R is the power output which is up from the 2W, high and low, on the 3R to 4W, variable to 1W, on the 5R which makes getting into the repeater less of a challenge when in some compromised locations. The battery is a 7.5V rechargeable Lithium Ion and is charged either with the supplied charging dock or via the wall charger supplied

with the radio, and battery life is excellent. All inputs to this radio are announced and confirmed in clear English as is the mode when you first turn it on.

This radio comes with a substantial range of features and way too many to cover here so I will stick to the ones I use and leave the others for a later review.

The information screen is clear and the A/B band and frequencies are easy to see, however some of the other icons used can be a little challenging for most I would suspect. Initial program of the up to 128 memory channels is a slow process using the keypad and menu, so having the programming cable and the software is a distinct advantage and frankly the only way to get this done, so avoiding the frustrations attached to doing it manually. It has been noted that when programming from the keypad the repeater offsets are not being held in memory even when correctly selected. This is a fault that to date has not been resolved however if you use the programming software this is no longer an issue as repeater offsets are recorded in memory as selected.

This photo shows the UV-3R on the left and the 5R on the right, however the 3R in this case is using the alternate higher gain antenna.



In conclusion as I previously mentioned there are many features in this radio that would need considerably more attention paid to but in the main I have concentrated on the prime ones that most of us would be given to use. This looks to be a neat and compact H/T having the advantage of more memories menu features and DTMP capability than the 3R, and, would compete well against other brands in the market at a stunningly lower price. So if you need the features then this one is well worth considering.

Bob Dixon VK4MR

## **Fundraising.**

As you are all aware the Group is always in need of funds to be able to continue operating, with rent, licence fees, insurance, interest on loan, repayment of loan being significant continuing expenses. At the moment the BBQ at Mitre 10 and membership fees are the only regular incomes the Group has.

Sale of VHF radios has been a useful exercise but that is just about finished and we need members to put their thinking caps on and come up with some more useful ideas.

Just to get members going I have one suggestion , how about a garage sale, this is a sure fire way of raising money. Obviously without items for sale the Group cannot follow this route in its normal format but if members could bring items they want to sell and be prepared to donate a percentage of the sale to the group then this becomes a very good fundraiser. I for one have quite a few things I would like to dispose of but do not enough items to warrant a garage sale of my own and I am sure other members will be in a similar situation also having gear they would like to dispose of.

Some of the items I would have for sale or donate are:

Acer 17" LCD Monitor.

Canon Power Shot A30 digital camera

Mini Video Camera

Steam Vapourizer

5.25" External sub-system drive.\*\*

Fellowes paper shredder.\*\*

Envi Cost Control Power Monitor with two transmitters\*\*

Climate Smart Power Monitor\*\*

\*\* These items I would donate with all proceeds going to the Group.\*\*

Having Googled "fundraising in Australia" here are some of the links which might prompt you to come up with other ideas.

<http://www.fundraisingideas.com.au/>

<http://www.fastfundraising.com.au/>

<http://www.australianfundraising.com.au/>

If you do think of something then put it to one of the committee members, raise it for discussion at the Wednesday morning meeting or perhaps the Monday night Net.

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## **Articles For Future Issues**

Floods at Clermont – Greg Weir VK4VBU

Wednesday Morning Meeting – Show & Tell - Bob Dixon VK4MR

EasyPal Digital SSTV - Erik Sundstrup VK4AES

???????????? – A Very Welcome Member of the Gympie Communications & Electronics Group

