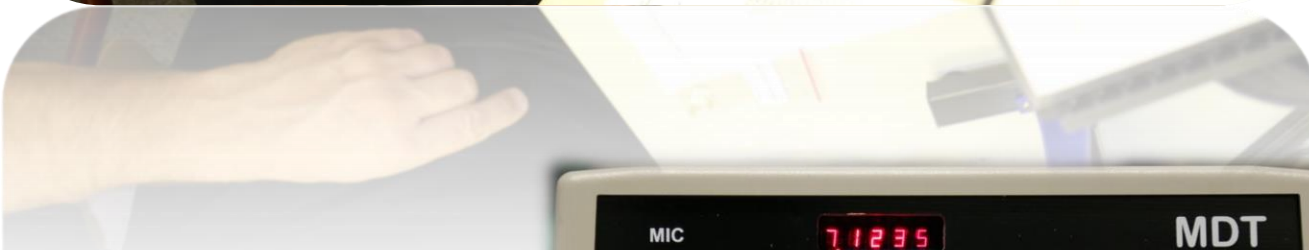




GATEWAY

**The Official Magazine of the Gippsland
Gate Radio & Electronics Club Inc.**

May 2016



The President's report
is on page 3
- It was too long for here!



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Event Queue

May:

- | | |
|------------------|---|
| 1 st | Club Net 8.00 p.m. |
| 3 rd | Committee meeting 7.30 p.m. |
| 6 th | Prac night |
| 8 th | Club Net 8.00 p.m. |
| 15 th | Club Net 8.00 p.m. |
| 20 th | May General Meeting 8.00 p.m. – Bruce Williams VK3BRW speaking on Interference. Last chance for entries to Home Brew Award tonight. |
| 22 nd | Club Net 8.00 p.m. |
| 29 th | Club Net 8.00 p.m. |

June:

- | | |
|------------------|--|
| 3 rd | Prac night |
| 5 th | Club Net 8.00 p.m. |
| 12 th | Club Net 8.00 p.m. |
| 17 th | June General Meeting |
| 18 th | Mid Year Lunch, Saturday at the Lady Lavender Tea Rooms, Bunyip. |
| 19 th | Club Net 8.00 p.m. |
| 26 th | Club Net 8.00 p.m. |

July:

- | | |
|------------------|----------------|
| 16 th | GGREC Hamfest. |
|------------------|----------------|

May 2016 From The President

Greetings fellow GGREC members, despite an arduous two-year pre-selection process and a heavily contested election I am now pleased to be representing the Club as President for the 2016 term of office.

Well... it actually wasn't quite like that. More accurately, nobody else wanted the job at the time and although crickets could clearly be heard when volunteers from the floor were called for, I eventually succumbed to the role. This is not to say that I don't take the role seriously, or at least as seriously as anything that I take seriously, but I shall indeed relentlessly pursue the aims of the club to the extent of my abilities. Seriously.

For the benefit of newer members who have not seen me in an active committee role for the past few years, I have been here before. I first joined the GGREC committee in 1979 as a General member. Since then I have served on the committee sixteen times, seven of those as President, a couple more as magazine editor and as public officer since 2002.

None of that is really important, as this is a fresh year and I'm keen to see our members all draw upon their reserves of energy and make 2016 a big one. So at the risk of hearing those crickets yet again, I would like to ask the members what they want out of the Club.

I have observed that sometimes when this question has been asked in the past, there is a difference between what members say they would like to see the Club to be doing and what they are prepared to be doing themselves. This makes it difficult to try and figure out where we should be investing our energies. I'm not sure what to do about this. Perhaps we should establish some kind of a forum one night and brainstorm our way through the issues. Certainly we have committee to implement policy and ideas, but a bit more direction is needed for the committee to act on your behalf.

This year the GGREC Mid Year Luncheon will take place at the Lady Lavender Tea Rooms, which is on the Princes Highway at Bunyip. The meals are nice and are not expensive, the outlook is pretty and its really easy to find. So if you are driving East on the highway, you bypass Pakenham go under a bridge at Nar Nar Goon, go past the big bird on the left at Gumbya park and a bit further up on the left you will see what looks like an old white weatherboard house with pale green windows and roof, set back from the road. It is well signposted and its driveway opens directly onto the highway. Remember, before you go, give a \$5 booking deposit to Graeme VK3BXG at the next meeting. You will get this money back when you arrive.

Paul VK3TGX, our magazine editor is always looking for articles, so if you can put a few words to paper on something you have been working on, or somewhere where you have been, he would appreciate the contribution. Here's a starting point. Think about a problem you resolved last week, then write about it. Perhaps you rescued a cat out of a tall tree, successfully dealt with two flat tyres, or reconciled hostile parties in a civil war somewhere. I'm sure everyone did something that was newsworthy at some level. Give it a go.

I have another question for our members out there... If you have an 'F' call or a standard license, are thinking about updating to the next level? As yet, I don't quite know what we can do about this, but first, I'd like to get a short email from anyone who is seriously interested in taking this step. Please send your upgrade comments to ianjackson@dcsl.net.au. We will make an assessment of what comes back and perhaps work out a plan to help our members.

Happy reading and see you at the General Meeting this Friday night.

Ian Jackson VK3BUF

From The Editor

Antenna troubles at the 'TGX QTH.

Over the last week or so we have had some rather wild windy weather.

The other day I looked up at my tilt over/ crank up Nally radio tower and noticed all the cables hanging out all over the place, obviously something had given out during the recent storms. (No wonder the rotator was being non co-operative during the storm)

Late last week the weather was on the improve, so down came the tower to see what damage had been done, and to get it all ready for the next big blow.

On my tower I have run a length of stainless steel wire rope down the side as a place to tie all my cables. Normally this wire rope is rather slippery, so I had placed tie point along it so the weight of the cables would be borne by the wire rope, rather than just letting them hang and slowly stretch. These tie points are nothing more than sections of plastic terminal strip screwed to the wire rope, just enough to stop the cable ties sliding.

So what had happened? Well quite a few of the supposed UV stabilised cable ties had let go leaving everything to hang on the 2 or 3 remaining ties. This mess was also added to by the cable assigned to a slack loop at the top, provided so the rotator can spin freely.

What a pain this was to sort out, I bound all the cables back together, but getting it all write was a pain, only realised when I stood the tower back up and extended the top section.

I would have it about at 90% extended then I would find that one of the cables was out of position with respect for the rest, meaning that one ran out of length and I had to stop and lower the whole lot to try again. What a pity I don't have the back yard space to extend the upper section when the tower is horizontal (Yes, I would need quite a few supports, to avoid breaking something)

In the end I took the opportunity to re-jig how I was supporting the various cables. Now only the upper section of the cables is supported by the wire rope, the lower section's cables are now tied directly to the mast, meaning when I lower the upper suction the slack loop that forms is a lot smaller, and less likely to fowl on things like my clothes line, or the 500W flood light half way up the lower section.

While I was at it I had a look at my 2 meter whip on the very top, darn the antenna base and pig tail was full of water. Also the aluminium bracket it is mounted on had a liberal coating of oxide corrosion between it and the steel mast clamp – So that is why it was performing so bad. The whip had lost its ground plane.

It was now getting late (again!), so I just dried it out, and added a heap of silicon to fend off the water. I also added an extra earth wire to the base so I didn't have to rely on the mast clamp. While soldering on the earth lug I started getting a pist pist pist sound's – it's raining on my soldering iron! I just got it safely up then BOY did the heavens open up!

Paul VK3TGX



Gippsland Gate Radio & Electronics Club Inc.



AN INVITATION TO STALLHOLDERS

On Saturday the 16th of July 2016, the Club will be conducting its annual HAMFEST for the sale of new and used electronics and radio equipment. As it was last year, the venue will be at the **Cranbourne Community Hall** on the corner of Clarendon and High streets, Cranbourne. High Street is part of the South Gippsland Highway Melway 133 K4.

The Club takes pleasure in offering you the opportunity to become a Seller at our 2016 event. Forty one tables will be available for stall holders but due to our NEW early table reservation system, many tables have already been allocated.

Details can be found on our web page at:

<http://ggrec.org.au/hamfest.html>

- Table hire remains unchanged at \$22 per table. A limit of 4 tables per Stall Holder applies. Table Hire provides access for 2 people to operate the stall and includes 2 tickets to the door prize and free tea/coffee throughout the day.
- The \$22 fee must be paid in full to the Club within 7 days of booking your table. Cancellations made more than 14 days prior to the event will be given a full refund by Direct Transfer (EFT) or by cheque if Direct Transfer is unavailable.
- To make a booking please contact us by email at: hamfest@ggrec.org.au. Payment may be made by direct transfer (EFT) to: **BSB 633000 ACC 146016746** or by sending a cheque or money order (payable to 'GGREC') to: GGREC C/O Ian Jackson 408 Old Sale Road Drouin West VIC 3818. If paying by direct transfer (EFT), please include your call sign/name as the reference.
- When making a table booking, Stall Holders will need to provide a **Name, Postal Address** and **Contact Phone Number** with a **Return Email Address** if different to that in a reply. Table requirements will include **quantity** and if **240v power** is needed.
- Upon receipt of the \$22 per table fee and contact details, a **Booking Number** will be sent as a receipt of payment. **IMPORTANT! No booking is confirmed until this number has been received by the Stall Holder.**
- Access to the Hall shall be from 8.30am (earlier if ready) for Stall Holders (and not later than 9:30am unless by arrangement).
- Transfer of your booking to another person is not permitted. Please contact us if you cannot attend or wish to discuss your booking at: hamfest@ggrec.org.au.
- The doors will open for buyers at 10am with a \$6.00 entry fee.

Each year, this event is a great success with many hundreds of people through the door in our large Cranbourne venue making it a premier event for radio markets in this state.

Antenna Woes

From the shack of Mark VK3PKT



So just about 6 weeks ago I bought my first ever brand new HF rig for the twisted shack, it is a nice and shiny Yaesu FT-450D which is the latest model and comes with the built in ATU and digital filtering as standard.

I had intentions of using it at the Antennapalooza and even drove down to Bayswater the day before to pick it up so I would have it on hand. I had read the manual on-line, had the G5RV Jnr in the car and had also purchased a new SLA 24AH battery to hook up to my Solar panel to keep it all running on the weekend.

Well as fate had it I set up on the Thursday before the weekend so that I would be able to help out a bit on Friday, well Thursday night we had that huge storm come down on top of us, the toilet blew over with my son in it, a tree came down on Ron's (VK3FRDL) camper and my tent was shredded so I went home.

Anyway I set-up the FT450 at home but the built in ATU couldn't tune up the G5RV Jnr I run at home, this was odd as a few weeks before I had the FT707 hooked up to it and it was fine, it wouldn't even tune up on 20mt which is the best band for the antenna, so after trying the built in ATU I switched the manual Transmatch in-line and started to give the knobs a twirl. I have a spreadsheet with the settings for various frequencies but I couldn't get the SWR down.

Well damn that wind must have damaged the antenna, broken one of the solder joints or something similar as the SWR was infinite and just kept the needle pegged. Well that was how I left it 5 weeks ago.

Then today (Monday) I was moving some stuff in the shack and had moved the FT450 and had powered it up to confirm I had DC to it, the antenna was disconnected and I noticed I had S4 noise, nothing out of the ordinary around here ! I grabbed the coax and as I touched the PL259 to the SO239 it dropped to zero what the....



So I started poking with a multimeter, I checked from shield to centre conductor and it was a dead short, but I knew the connectors all checked out before as it was running the FT707 with no problems, what was going on ? Had someone with a grudge and a pocket of brads pinned my coax, was I that disliked in the street.

So I unscrewed the lightning arrestor to see if a tin whisker had grown in the PL259 or something and just for interest I went to connect the G5RV to the transmatch and BAM S9 noise which is what I normally had. I screwed the PL259

home and tuned across 40 Mt and I could hear a few stations and some SW broadcasts.

I was not running the lightning arrestor on the 707 as I had lost it but had found it and hooked it up to the feed line and ground wire. It hadn't taken a hit as the ground wire was intact and no scorching but it was a dead short, I bought it on flea bay so it may have been a faulty one, oh well

I hooked up all the cables, and it all works. I have a Signalink USB sound card interface working for digital modes and a USB to RS232 cable doing CAT control. I connected to one of the winlink email systems today and also had a local chat with Ron who is a stones throw from me.

I am a happy chappy as I don't have to rip my antenna down and fix it as I had only done that 3 months back which is why I couldn't see it failing so soon.

So HF is back on in the twisted shack and I can start working digital again, maybe time to try RTTY as well

See you all down the log
73 Mark 'POCKETS' Clohesy



ASTROPHOTOGRAPHY WORKSHOP

SYMPOSIUM

The Mornington Peninsula Astronomical Society is proud to announce an Astrophotography Workshop.

We will be canvassing and introducing concepts which will assist both the amateur and the professional photographer.

The day will have array of lectures given by experienced and acknowledged astro-photographers. Practical hands on session will be also held during the evening at our observatory.

We will be providing tea, coffee and biscuits during the day. A BBQ and refreshments will be supplied to gear you up for the night ahead.

TOPICS

Introduction to Astrophotography.

Imaging the Southern Lights (Aurora).

Wide-field Astrophotography with a DSLR.

Deep sky Astrophotography.

Photoshop for astrophotography
(If weather is overcast)

Practical application and consolidation of concepts acquired.

When: The 10th of September 2016

Where: The Briars MPAS society rooms Mt Martha

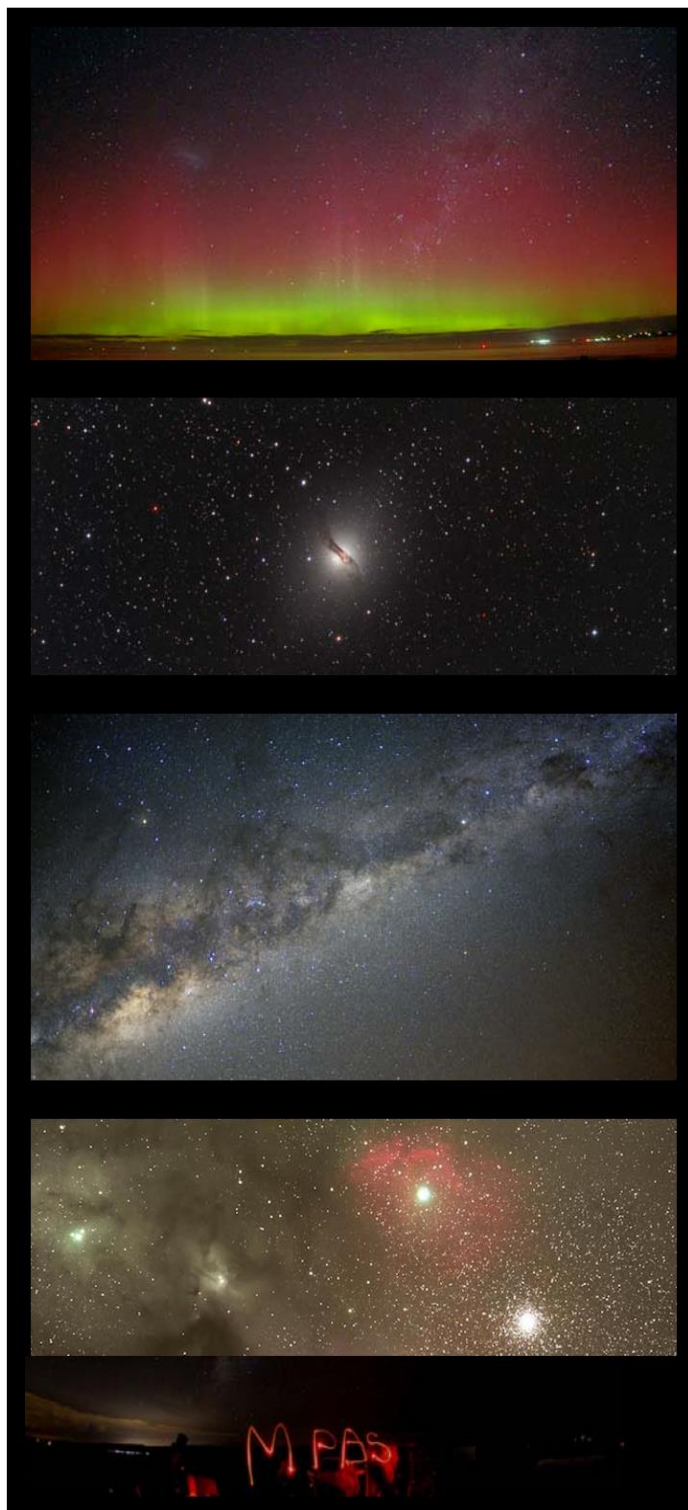
Time: 12:30 till late

Places are limited to 80 people so bookings are essential.

\$30 entry, which includes a BBQ Dinner and light refreshments.

Bring your Tripod, Camera, warm clothes and an enquiring mind.
Further information can be found at www.mpas.asn.au

Book online at <http://www.trybooking.com/198793>



Submitted by Dave. VK3JL

Notices



Mid Year Lunch Saturday 18th June 2016.



At Lady Lavender's Tea Rooms 3085 Princes Hwy, Bunyip VIC 3815
www.ladylavenderstearoom.com.au

This years' Mid Year dinner is at Lady Lavender Tea Rooms which is located just off the Princes Highway at Bunyip. The entrance is between the turn off to Garfield road and the turn off to the Old Princes Highway.

You can view the menu on line and purchase alcoholic drinks by the glass at the bar. So come along and get together with friends to celebrate the start of a new Club year.

To secure your spot at the table, please pay a \$5.00 deposit to the treasurer at the May general meeting. If you pay your deposit directly into the Club account, please follow up you payment with an email to the Treasurer with your details.



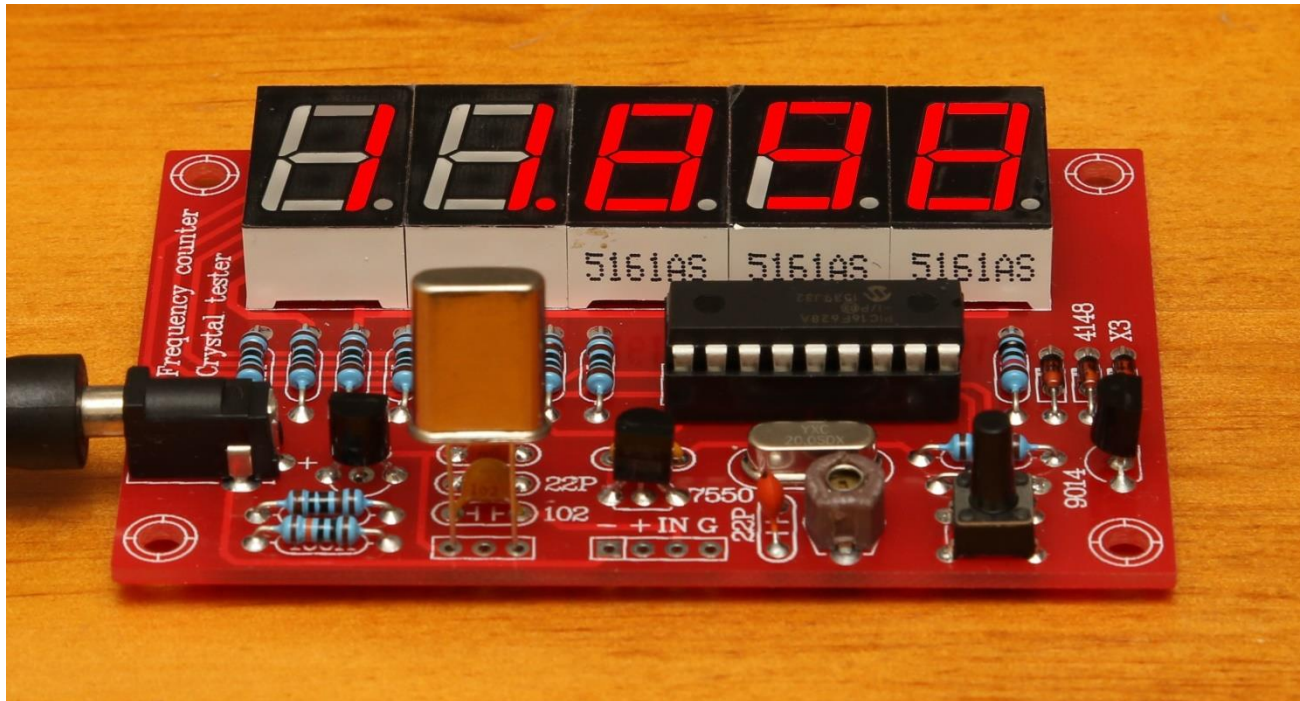
GGREC Sunday night Net

Want to know the latest GGREC Club news and details of upcoming events? If you want to be kept up to date then you need to call into the **GGREC Sunday Night NET**. The NET is held every **Sunday** at **8:00 PM** sharp on **VK3RLP 439.475 MHz, 91.5Hz** tone access. Don't miss out!

Intruder watch

A surprise visitor (intruder) who climbed down the hand rail just outside the main door as we were gathered at the sink having a coffee break during the MDT radio construction prac night.





After I built my original MDT frequency display board (frequency counter), I happened to visit Altronics, and found I could buy the components somewhat cheaper, especially with the GGREC account we have there.

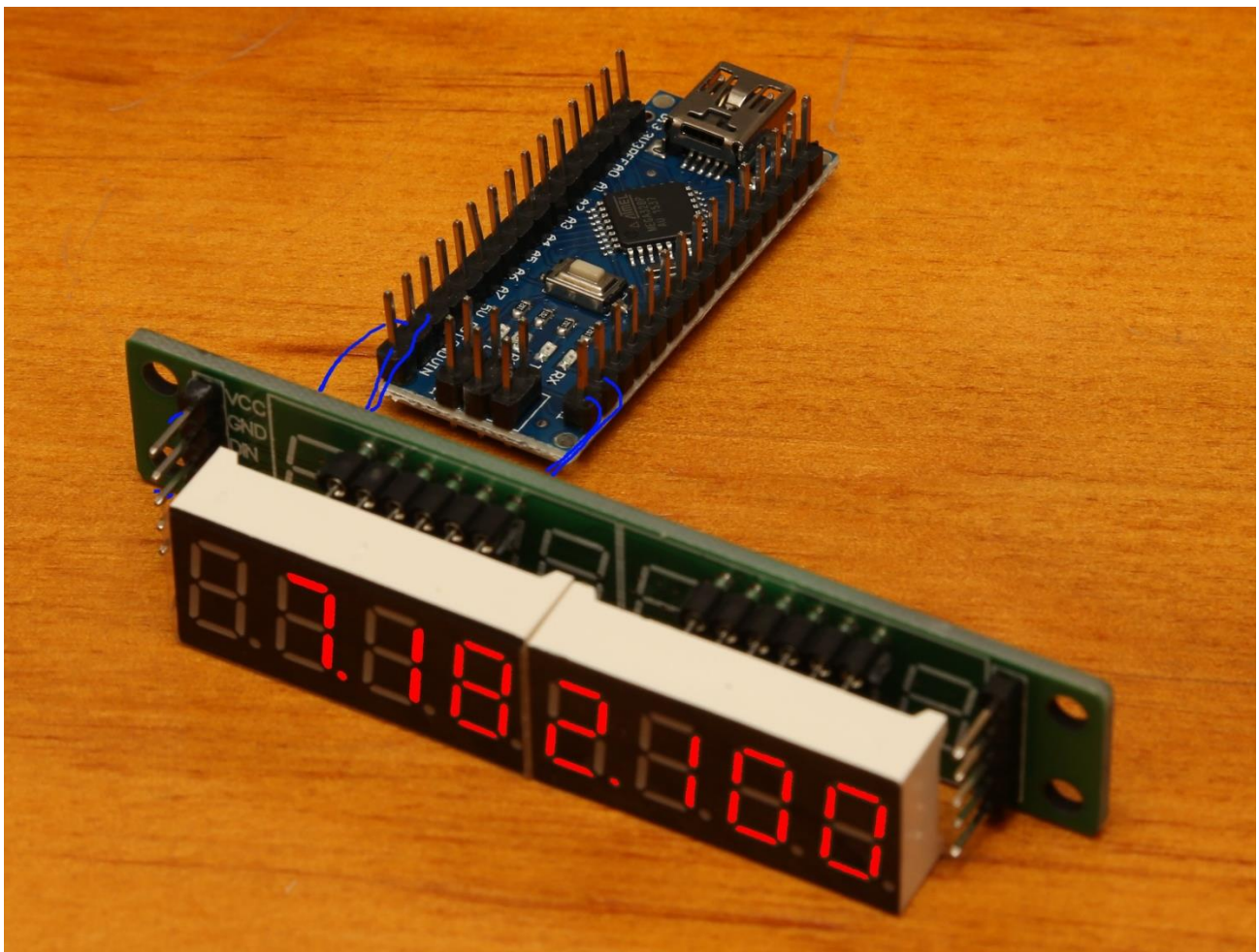
Afterwards, I found I could also buy a kit for the same counter from www.banggood.com for about the same price I originally paid for just the crystal & the micro. So I ordered one.

The prac night was fast approaching, so something relevant to the radio project to build on the night seemed like a good idea, and it worked first time - WOW. I haven't actually connected this board to the radio, but I can see no reason for there to be any problems.

The differences are this one has no 5V regulator, the displays are bigger and a lot more efficient than the miniature ones I used (So no emitter followers required), on the plus side it also has a crystal checked – in the picture above the kits crystal is the small one in front of the IC, The larger one is from my junk box, I'm testing it. (The checker is not perfect). As the kit has no regulator, I made up a DC lead to a USB plug and I am running mine from a USB power supply (i.e. a LiPo 'phone recharge' battery pack)

Even if you wanted to actually build my version, a lot can be said for buying this kit and just dropping the not required parts into your junk box – the price is about the same, plus you get a programmed chip and a pile of bits for possible future projects.

Another way to do it is build this kit, minus the displays, then attach some smaller displays via a small daughter board etc. - vero board etc.



Another solution I am exploring is to use an Arduino board and display module.

These two were also purchased from Banggood for a few dollars each. And have the potential to do a lot more than the previous unit. You don't even need a special programmer to program these boards as they come with an on-board USB connector, meaning you can plug it straight into a PC, you don't even need a power supply!

In the case of a frequency counter, they are more limited than the previous PIC based unit which can go to 40MHz, these can only handle 8MHz, still enough for the MDT kit.

This Arduino board is tiny, it's the same size as a through hole 40 pin IC , they come with the pin headers not installed, so you can install them facing up and use wire wrap etc., or you can install them on the bottom and plug the board into a 40 pin IC socket.

According to one data sheet I saw, you can get 40mA ?? out of the pins & they also have 8x 10 bit analogue to digital converters built in (amongst other bits) making them an ideal solution for quite a few projects I can think of.

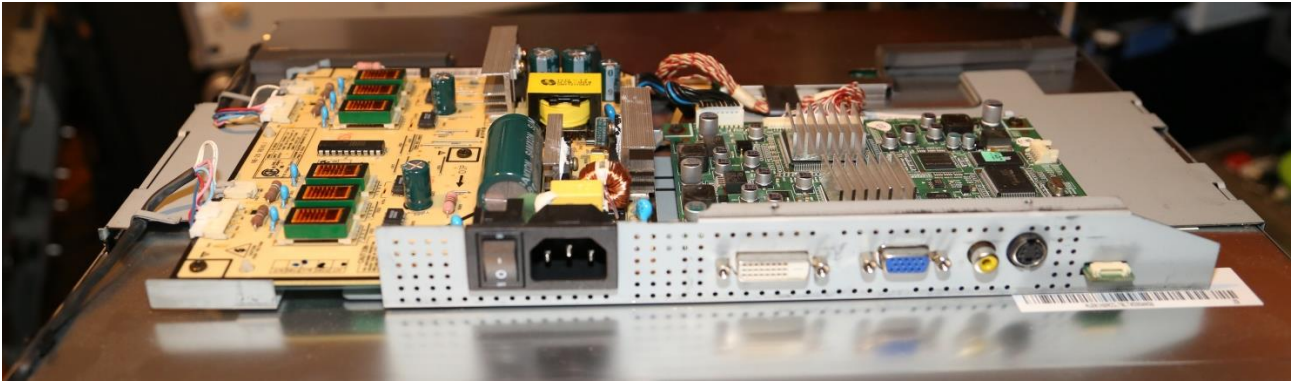
Even if you are not into programming, there are heaps of Arduino projects on the net.

I am hoping to get a few devices off the ground based on these \$3.20 boards.

Paul VK3TGX

Repairing an LCD Video Monitor

Quite a while ago (like a few years) I acquired an 'old' Samsung LCD computer monitor for a possible future project.



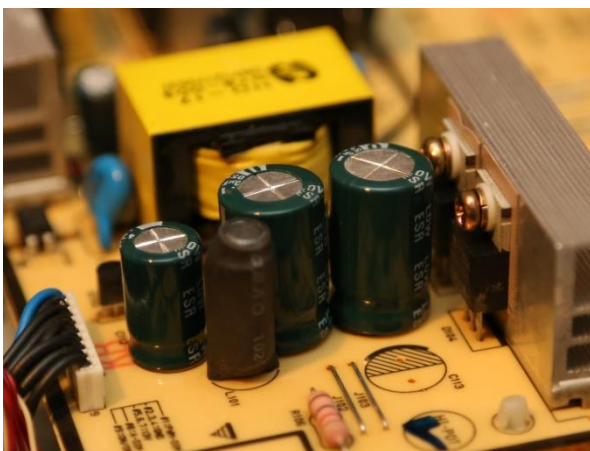
I originally was attracted to it because it had a composite video input, a rather rare inclusion on a monitor designed for use on a computer.

The original fault was it took ages for the back light cold cathode fluorescent tubes to light up, I assumed them to be totally worn out . My plans for this monitor was to rip it apart, remove the florescent tubes and replace them with LED strip lights.

I rated my chances of success at this modification as very low, there are just too many things that could go wrong that it was probably doomed from the start, But Hey, the monitor cost me zero, and nothing ventured, nothing gained.

The first pain was getting it apart, the only screws were for attaching the desktop stand, the actual case was clipped together with those infamous hidden plastic clips. There was nothing for it other than perseverance.

When I finally got to see the electronics, I quickly changed my mind as to what I thought the fault was. This monitor didn't just have one fluro tube, it had six. Have a look at the first photo, those six green transformers on the left hand (power supply) board are the fluro inverter power supplies – There is no way they would all fail together. I would have expected to see dark bands on the display, if one of more tube had failed.



Then I spotted the capacitors on the board. Quite a few had bulging tops, with signs of fluid escaping AHHH this is the real fault.

Down to Jaycar, an hour later all fixed.

Test equipment used :- None.

I.e., everyone in the club is fully equipped for this type of repair.

Nothing ventured, nothing gained – Have a go.

Paul VK3TGX

General Meeting Minutes 15/04/2016

Start time: 8.00 p.m.

Location: Club rooms.

Chairperson: Bruno

Minute Taker: Bryan

Present: As per attendance sheet

Visitors: Ray Brown

Apologies: As per attendance sheet.

Correspondence received:

1. Apparatus licence from ACMA for VK3RDD.
2. Email from Chris Chapman VK3QB re. Antennapalooza event.
3. Breakout magazine March 2016.
4. Series of emails from WIA re. public liability insurance.
5. Email from Allycia VK3FVWS re. club net and frequencies.
6. EMDRC April meeting details and other activities.
7. Email from Sergio VK3SFG re. Antennapalooza event.
8. EMDRC April 2016 Bulletin.
9. Email from NERG re. WANSARC Auction on 01/04.
10. Email from Jon VK3TUL re. Antennapalooza event.
11. Email from Rob VK3BRS re. upcoming prac night.
12. Email from WIA re. use of Memnet for WIA Contest Awards.
13. Email from Rob VK3BRS re. Home Brew Award.
14. Invoice (and subsequent receipt) from VentrailP for domain name registration.
15. Email from EMDRC re. open day and demonstration of IC-7300.
16. Email from Dave VK3XMF re. exhibition at Endeavour Hills Library.
17. NERG News for April 2016.
18. RARC Newsletter for April 2016.
19. Email from Joe VK3YSP re. ANZAC Day Special Event with Melbourne Scouts
20. Audit Report from Cathie West for 2016 AGM.
21. Gateway Magazine, April 2016.
22. WIA ANZAC Centenary Participation Certificate.

Correspondence sent:

1. Breakout magazine March 2016.
2. Email from Ian VK3BUF re. Antennapalooza and upcoming AGM.
3. Email from Ian VK3BUF re. use of rhombic antenna.
4. Notification of change of address re. licences to ACMA.
5. Series of emails to WIA re. public liability insurance.
6. Email to Allycia VK3FVWS re. club net and frequencies.
7. EMDRC April meeting and other activities.
8. EMDRC April 2016 Newsletter.
9. Email from NERG re. WANSARC Auction on 01/04.
10. Email to Mark Tell re. use of Bruce William's services at May GM.
11. Email to all Victorian radio clubs re. change of address.
12. Letter to Victorian Commission for Gambling and Liquor Regulation re. change of address.
13. Email to Bruce Deefholts (WIA) re. the lack of a club copy of AR magazine.
14. Email re. EMDRC Open Day and IC-7300 demonstration.
15. Email from Dave VK3XMF re. exhibition at Endeavour Hills Library.
16. NERG News April 2016.
17. RARC Newsletter for April 2016.
18. ANZAC Day Amateur Radio Special Event with Melbourne Scouts.
19. Yarra Valley ARG Hamfest notice.

Treasurer's report:

Graeme VK3BXG presented a report to the meeting covering the period 16/3/2016-15/04/2016. If members wish to receive a copy of the report, they should contact the Treasurer direct.

Read: Graeme VK3BXG **Moved:** Graeme VK3BXG **Seconded:** Rob VK3BRS **Carried:** Yes

New Callsigns: Allan VK3SLR (Pending)

Previous Minutes: As distributed in April Gateways magazine

Business arising from the previous minutes:

1. Thanks to Ian and Di for the work with Antennapalooza. A good result and successful event. DVD from FAMPARC of activities held on the weekend.
2. WIA has put its proposals to ACMA re. the changes to the comms law which is currently being undertaken. Mike VK3KTO outlined a number of the proposals that the WIA has put to the ACMA. Further details are available on the WIA website.
3. Auditor appointment – Cathie West accepted our invitation to audit the books, and her report will be presented at the AGM.
4. Home Brew Competition – Extended to May GM. Presentation at the Mid-Year Dinner.
5. PO Box is now closed; all mail should now be going to Ian's address (C/- 408 Old Sale Road, Drouin West 3818.)
6. Hamfest report – Brian VK3FLEX said it is chugging along. Has been entered into VK Classifieds, but there has been some difficulty in getting WIA to put the details in. No payments for tables have been received as yet. Only 4 tables left.
7. Mid-Year Dinner – tentatively booked for 20 for Lady Lavender Tea Rooms in Bunyip. \$5 deposit to the Treasurer ASAP and then email to Sec GGREC to let him know that you will be attending.
8. Pat – update - \$2574 raised from supporters.
9. Repeaters – all going well.
10. Sunday Night Net – Numbers are variable. Reminder that it starts at 8.00 pm.
11. 40th Anniversary – quick meeting tonight for those interested in helping.
12. Public Liability insurance has been organised.
13. Thanks for articles submitted to the magazine.

New business:

1. EMDRC Open Day – Bruno reported on the Open Day & BBQ. A very good setup and interesting workshop tour. Coffee Group every Thursday between 10.00-13.00. The workers prepare many of the kits. Very close to being a Men's Shed. Hiro from Icom gave a presentation on the IC-7300 and demonstrated same. Also asked about a multi-mode UHF/VHF and will take that back to Icom HQ. He is happy to come to the club and give a talk about it.
2. WIA Awards – We can get a club access to Memnet, which will enable us to qualify for awards. No further action at this point in time.
3. VHF/UHF Winter Field Day coming up – check the date and perhaps we might be able to get something happening. Unfortunately, this clashes with our Mid-Year Lunch. (18-19/6/2016).
4. Melbourne Cup Weekend – another visit to Strathbogie? Other venue? Please give it some thought so that we can organise something.
5. Fees are due tonight.
6. Club calendar in the magazine to keep people informed.
7. Bruno thanked the committee for their work this year, and to all those club members who participated and provided assistance throughout the 12 months.

Meeting closed: 8:45 pm

Next Committee Meeting: To be advised

Next Prac Night: 06/05/2016

Next General Meeting: 20/05/2016



Club Information



Meetings 2000hrs on third Friday of the month at the
Cranbourne Guide Grant Street Cranbourne
Prac nights first Friday in the Peter Pavey Clubrooms Cranbourne 1930hrs
Visitors are always welcome to attend

Office bearers

President	Ian Jackson	VK3BUF	Repeater Officer	Albert Hubbard	VK3BQO
Admin Sec	Michael Van DenAcker	VK3GHM	Web Master	Mark Clohesy	VK3PKT
Treasurer	Graeme Brown	VK3BXG	Magazine Editor	Paul Stubbs	VK3TGX
General 1	Rob Streater	VK3BRS	Property Officer	Bruno Tonizzo	VK3BFT
General 2	Max Hil		Secretary	Ian Jackson	VK3BUF

Call in Frequencies, Beacons and Repeaters

The Club Station VK3BJA operates from the Cranbourne Clubrooms.
6m Repeater VK3RDD – Currently de-commissioned until further notice - *sorry*
70cm Repeater Cranbourne VK3RLP In 434.475MHz Out 439.475MHz CTCSS 91.5Hz
VK3RLP Repeater supports Remote Internet access (IRLP), Node 6794.
70cm Repeater Drouin VK3RWD In 433.575MHz Out 438.575Mhz CTCSS 91.5Hz
Simplex VHF - 145.450MHz FM • Simplex UHF - 438.850MHz FM
VK3RLP Beacons 1296.532MHz & 2403.532MHz

Membership Fee Schedule

- Pension Member rate \$25.00 Extra Family Member \$20.00
Standard Member rate \$40.00 Junior Member rate \$25.00
Fees can be paid by EFT to BSB 633000 - Account 146016746.
• Always identify your EFT payments.
• Membership Fee's Are Due at each April Annual General Meeting.

Magazine Articles to editor@ggrec.org.au or vk3tgx@gmail.com
All other Club correspondence to: secretary@ggrec.org.au
or via Snail Mail : GGREC, C/O Ian Jackson, 408 Old Sale Rd, Drouin West 3818
GGREC Web Site & Archive may be viewed at: www.ggrec.org.au
Website errors, contact web master via email webmaster@ggrec.org.au
Facebook Page www.facebook.com/GippslandGate