

# GATEWAY



THE OFFICIAL JOURNAL OF  
THE GIPPSLAND GATE RADIO  
AND ELECTRONICS CLUB INC

APRIL 1999

## **Gippsland Gate Radio and Electronics Club Inc.**

Club Meetings are held on the third Friday of each month  
at the Cranbourne Girl Guide Hall in Grant Street.

The doors open at 8:15 PM & the meeting commences at 8:30 PM.

**Visitors are most welcome.**

### **Committee Members 1998/1999**

President	Peter Pavey	VK3VB
Secretary	Pat Pavey	VK3OZ
Treasurer	Mike Ide	VK3KTO
Committee member	Ivan Blezzard	VK3ARV
Committee member	Reg Goddard	VK3UK
Magazine Editor & Printing and Dispatch	Dianne Jackson	VK3HDI Ph. (03) 9776 5000

### **Club Station VK3BJA Located at the Guide Hall**

Club Repeater VK3RDD Freq. in 52.575, out 53.575 Mhz

Call in Freqs. are HF on 28.325 Mhz, USB

VHF on 146.225 Mhz, FM and UHF on 438.850 Mhz, FM

Visit our internet site at:

**<http://avoca.vicnet.net.au/~ggrec/>**

### **Current GGREC Inc Membership Fee Schedule**

Full Member \$30.00, Pensioner Member \$15.00

Junior Member \$15.00, Extra Family Member \$10.00

Fees due after each April Annual General Meeting.

**The deadline for submitting Gateway articles is EIGHT DAYS  
before each General Meeting.**

Please direct magazine correspondence to **105 Franciscan ave Frankston 3199**  
or E mail **ijackson@netspace.net.au** or Fax: **9776 5451**

All other Club correspondence to **PO BOX 1098 Cranbourne 3977**

## THE PRESIDENTS REPORT APRIL 1999

They say "time flies when you are having fun" and this has held true for Pat and myself in our year as the GGREC Hon Secretary and President. When we arrived home after last years AGM, we sat down and wondered what we had let ourselves in for.

Yet now as I look back on the year of activities, I can see that what we have been part of is a club that pitches in and helps out. It has been great that the committee has had the support of many different people to make the years programme possible.

For most of the year we have maintained our two meeting a month format, the first (prac nite) devoted to bench work on many differing projects. Its good to see the soldering irons put to good use as intended and not just as a piece of rusting shack junk.

The second meeting, for official business, Talks on various subjects from Medical Laser Technology and its application, to insight into life in Gove/Nhulunbuy N.T. There have been Film nights, Demo's by radio suppliers, talks by the WIA, one on packet and much more. For outside interest we have provided operators and equipment for JOTA, been on cycle rides (/cycle/M), had weekends away at Woods Point and Cowes Phillip Island. All of these activities have only been possible because you the members have pitched in and helped.

We have a very keen group of students studying for their licences thanks to Ian Jackson, we wish them all well when it comes to exam time. The club continues to offer exam facilities on a by monthly basis.

Your committee have just re-negotiated the use of the guide hall on terms both organisations are happy with.

Our club chat frequency of 146.225 never fails to entertain the listener, for as well as the normal mobile operation of signal reports and road conditions, we hear discussions on SSTV, ATV, antenna construction and testing.

There have been times of consternation, when it seemed as if one members antenna rotator controller was jammed and was causing the beams to go around like a windmill. Thankfully this was not the case and after bleeding the excess smoke from the circuit, and sourcing a few strained components, all would seem to be almost back to normal.

As from Thursday 22<sup>nd</sup> April the club rooms will be open on the 4<sup>th</sup> Thursday of each month during the daytime between 10.00 & 12.00. The committee has agreed to a 6 month trial, so come on all you stay at home types, come down and join us for tea, coffee and biscuits, a chat and the chance to air VK3BJA.

By the time you read this, the club 6 metre repeater should be back in operation from its Cockatoo site, thanks to the work put in by Ian VK3BUF and Graeme VK3XTA. All it needs then is more use ??

AGM time again, and I ask members to seriously consider offering to serve on the club committee. At this point in time only our treasurer is willing and eligible to stay on for another year. Needed then are President, Secretary and 2 committee members. Please consider! It just remains for me to offer my sincere thanks to the outgoing committee for all the work put in over the past year.



# Event Queue

DAY	DATE	TIME	DETAILS
Fri	16/04/99	8.30pm	<b>Annual General Meeting</b> followed by a video or film.
Thur	22/04/99	10am	<b>Daytime</b> meeting in the Guide Hall
Thur	29/04/99	11.am	<b>Visit to Channel 7 transmitter</b> : Mt Dandenong
Sat	01/05/99		<b>Exams</b> held at Tooradin
Fri	07/05/99	8.30pm	Prac night plus <b>Old Videos and Camera display</b>
Fri	21/05/99	8.30pm	General meeting
Sat	22/05/99	12noon	<b>Oasis Swimming Center</b> in Dandenong
Fri	04/06/99	8.30pm	Prac night at guide hall
Sat	19/06/99	6.30pm	<b>Annual Winter Dinner</b> BYO everything
Fri	18/06/99	8.30pm	General meeting

## MOORABBIN AND DISTRICT RADIO CLUB HAMFEST

**Date:** 8<sup>th</sup> May 1999

**Time:** 10.00am

**Venue:** Brentwood Secondary College, Heath Street, Glen Waverley 3170.  
Melways ref 71 D7 (near Brandon Park shopping centre).

**Table bookings:** Wally Hunt VK3JWH, on 9318 0197 (AH) or 0419356263.

**Entry Fee:** \$4.00



# Go ry De tails ...

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## CHANNEL 7 VISIT

Albert has arranged for us to have a look at the transmitter site for Channel 7 TV. The transmitter is on Mt Dandenong and the tour should take about an hour and a half. Meet at the HSV7 transmitter at 11am. Melway map ref: 66 E 2 and D 2, (off Ridge road).

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## NOTE EARLY MEETING START TIMES.

The Hall will be open this Friday Night at 8:00pm, with the meeting commencing at 8:15 **Don't Be Late!**

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## OLD VIDEO'S and CAMERA DISPLAY

**Please note change of date 7<sup>th</sup> May**

At the Prac night in May we will be having a "bring your old video gear" night. If you have got any old video cameras, players or anything related to this topic, then bring it along to the May Prac night and let us all have a good look, or dare I say it "laugh".

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## OASIS SWIMMING CENTER

At the Oasis swimming center in Dandenong, there is a lap pool, a fun pool, a toddlers pool, a spa and sauna, and all of the pools are heated. Meet at the Oasis Swim Center at 12 noon, Cleeland Street Dandenong. Adults: \$3.50, Child and Concession: \$3.00, Family: \$10.00 and Spectators \$1.00. After a good swim we can enjoy a late lunch, either at the swim center or wherever else we decide to go.

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## EXAMS

The next Amateur Radio exam will be held on the **1<sup>st</sup> of May**. It will be conducted by Peter and Pat Pavey at their house in Tooradin. If you are interested in sitting this exam for AOCP, NAOCP or Morse, then get your application forms in by the 20<sup>th</sup> of April. Exar: plication forms are available from Peter Pavey at the Club meetings.

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## DAY TIME MEETINGS

The GGREC are now holding **monthly** Day time meetings, these will be held on **every 4<sup>th</sup> Thursday** of the month, from **10am to 12noon**. Our first Day time meeting will be held at the Guide Hall on Thursday the 22<sup>nd</sup> of April. **Everyone is welcome**, (including partners), to come along and have a cup of tea or coffee, and enjoy some pleasant conversation with friends and fellow radio enthusiasts. See you there.

Next months day time meeting will on Thursday the 27<sup>th</sup> of May.

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# IMPACT OF 'LOW INTERFERENCE' DEVICES ON AMATEUR BANDS

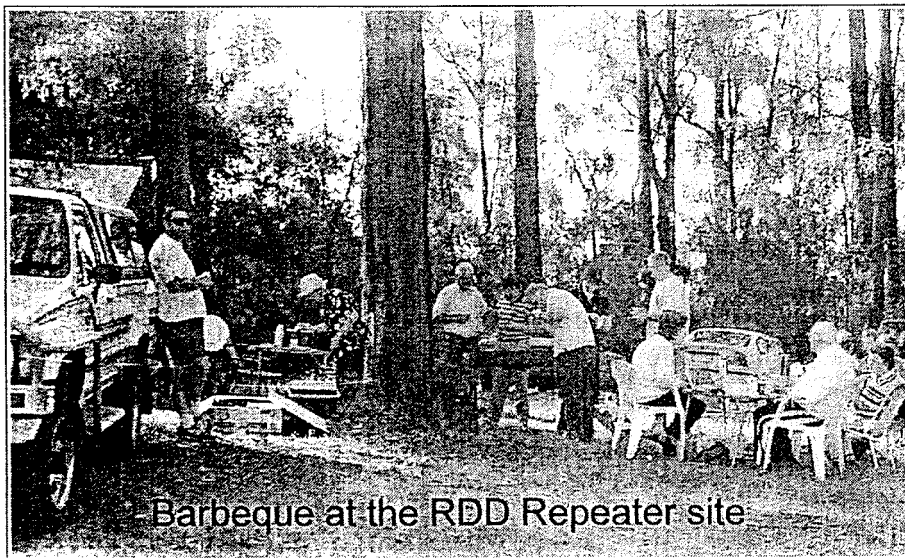
There has been much discussion recently about Low Interference Potential Devices (LIPD) operating on amateur bands. We have received a fair amount of information on this topic from various sources and while it is not practical to duplicate it all here, we can give a brief description and indicate other sources of reading material on the topic.

The legislation that permits these devices was released in December of 1998. It allows 25mw devices to operate without licenses on some parts of the 70cm band, on the basis that the signals are so low as to not bother anyone. This appears not to be the case as on March 15 a pair of cordless headphones held open the VK3RSE repeater for some time.

This legislation also permits 30picawatt devices to operate on the 80M band, and various other devices can use up to 2 watts on the 2.4Ghz and 5.7Ghz bands.

It would seem that unless amateurs promptly complain en-masse of this incursion, we are doomed to put up with the interference problems in the long term. There are many standard letters that are available for dispatch to various government instrumentalities. Some of these may be seen on a web site dedicated to this problem at the location of: [www.users.bigpond.net.au/vk3yng/lipd](http://www.users.bigpond.net.au/vk3yng/lipd)

It would also be worthwhile looking out for feature articles in the W.I.A. magazine 'AR' and the 'Australian Communications' mag at newsstands.



Barbeque at the RDD Repeater site

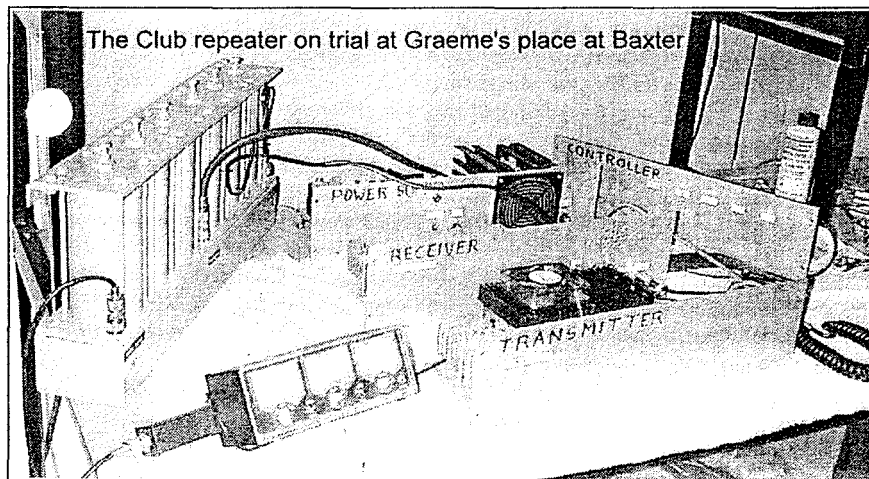
## VK3RDD 6M REPEATER REPAIR/UPGRADE

The Club's repeater near Cockatoo is back on the air. It has been operating on a test basis in Baxter for a week on the lead up to the reinstallation at the repeater site on Saturday the 10<sup>th</sup> of April. The repeater had been suffering from a few problems. In particular, it was low in output, and intermittently disappeared altogether many hours at a time. This time, the ants nest was not to blame.

With the assistance of Graeme VK3XTA, Paul VK3TGX, Albert VK3BQO, Peter VK3ZPW and myself, VK3BUF, we have completed the following work:

- Removed miscellaneous dead bugs from all equipment stages.
- Removed one very alive and scary white tail spider from under the micro module.
- Repaired some dried out capacitor problems in the power supply
- Provided a thermostatically controlled cooling fan to the power supply.
- Replaced and re-built the entire driver stage from another one ratted out of an old RT80 VHF Low chassis.
- Changed a number of caps in the PA stage with ceramic chip and variable caps.
- Retuned the receiver unit
- Inserted a fresh EPROM in the microprocessor based controller.
- Retuned the TX exciter, driver and PA stages.
- Retuned the Polar Cavity resonator unit. (tricky)
- Relabelled all the controls
- Replaced most of the DC power connectors
- Ingested many stubbies of light beer.

Particular thanks go to Graeme VK3XTA for use of his workshop and several metres of his solder wick for the upgrade process. The repeater receives on 52.575 Mhz and transmits on 53.575 Mhz. This service should ensure many more years of reliable operation.





## Dargo Jaunt - by Ivan VK3ARV

Scotch mist overcast conditions were not about to dampen my spirits as I made my way towards Berwick, the rendezvous with Ian (Buf) and Peter (Zpw) both in the other vehicle making up our small convoy bound for the Dargo region.

After breakfast (second in my case) in "Morwell", like many other Towns of this era bypassed by freeway, we left this Hamlet pondering it's fate, and once more made our way east.

A small town encircled by mountains "Dargo" is delightfully situated, unless of course you are a radio operator wishing to erect an antenna system, where higher territory would be more advantageous. Here was the last chance to take on supplies prior to moving into the mountains and away from civilisation for a couple of days, but not before enjoying a light ale in the local.

About 12 k's from Dargo, surprised we had not found the turn of to Grant it was evidently time to consult the map resulting in a unanimous decision that that the turn of had been missed, backtracking 6 k's (approx) there was a fork in the road, one branching to the right, and the one we were on, again the map was reviewed, discovering we had been on the correct road all the time. (must have been the beer)

Grant, like most of these former gold mining towns, was reclaimed many years ago Mother nature, the only actuality of their existence are tourist information boards, in some cases a cemetery and

the occasional piece of rusting machinery constantly in defiance of nature's restoration attempts, here we took a few snapshots a look around, then proceeded towards Talbotville. Driving between these localities afforded some breathtaking mountainous scenery.

Talbotville's only link with the gold rush era and the present, is its cemetery, there are about half a dozen graves still evident the last burial was 1906.

Having concluded there was no possible way we could be on the wrong track and in-light of our parched condition, a break and beer

seemed appropriate. Still with about an hours drive before reaching the Pioneer Racecourse, our base camp for the proceeding two nights, one can would to have to suffice.

Reaching our destination, selecting the camp site, pitching tents and setting up camp was done with minimal fuss. Seven or eight hours, three hundred and forty kilometres after leaving our Q it was now time to luxuriate in our surroundings and savour the tranquillity of the bush.

The only other tasks left were to prepare the evening meal and set up the portable radio, station. Ian's idea was to have go at sstv tx in a portable environment using the FT101, laptop computer and slow scan TV interface unit many of us built as a club project, power was via an inverter, unfortunately all did not go as well as we would have expected, due to the appalling conditions on 80m, although weather at our portable QTH was perfect, we did notice lightening well to the south of our position resulting in crud on 80m. Even so we managed to make contact With Reg VK3UK, Helmut VK3DHI and Doug VK3KMN. After exchanging a couple of pictures it was decided we'd leave it until the next evening, thanks for coming up Gentlemen.

Australia's ever reliable bush alarm clock, the kookaburra's, woke us (me) to the beginning of a new day, not a moment of this Magnificent setting was to be wasted, I rose immediately enveloped in void blackness of the night, fumbling for my clothes hastily dressing and quietly as possible (Ian &





Peter still asleep) it was not long before the fire was crackling, the billy was on the boil, my first taste of caffeine for the day was imminent.

Hours past, hunger and thirst satisfied, we were once again in our vehicles heading north into unfamiliar territory, the Wongangarra river on our right was followed for many kilometres as we began to climb the first of many spurs heading towards our planned lunch stop, Guys Hut, atop of Mt Sarah.

It was during this initial ascent I noticed that the Hilux was not performing as a four wheel drive should, it seemed light in the rear end and was slipping uncharacteristically. I pressed on, with Ian and Peter ahead of me un-aware of my predicament.

As the track became steeper the problem increased. Finally forward motion ceased, wheels spinning, dust rising and not much else happening. I transmitted my dilemma to the others via 2 metres who were out of sight, but only about 100 metres in front of me. They stopped their vehicle and on 'shank's pony' wandered back while I was still in the car pondering my plight.

There was only one possible explanation! as Ian approached my vehicle, I said; check that the hubs are locked would you please...!

At 100 metres ASL Mt Sarah is about as close to Heaven as I care to be, at least for some time anyway. A more panoramic dining setting one could not imagine, the sky a deep shade of blue, almost purple, temperature was 10 deg cooler than river level. After lunch Guys Hut was inspected, built before the turn of the century a single room shack with a fire place and single bed, it's difficult to imagine some one, many years ago, lived here.

Leaving this link with the past, we made our way down the mountain across the Wongangarra river, heading east again we began to climb, reaching another helipad, one of many dotted through out this region, it was discovered that I had a flat tyre (not my day) Having rectified this minor inconvenience, we were soon mobile again making our way towards Brewery Creek Track where we would turn right and head south back to base.

It was very pleasant to be once again at our camp site with one's posterior on a seat that was not pitching, reeling and rolling, in seven hours we covered seventy kilometres, over some excellent four wheel drive trails experienced magnificent countryside enjoyed views accessible only by four wheel drive. Sunday night proved far more successful on 80m with many good quality pictures sent to and received from Reg, the only one with SSTV facilities on air that evening many thanks to Reg and those who came up for a chat.

Another great night was spent around the camp fire chatting about everything and nothing in particular. A myriad of stars above not a breath of wind, only the occasional night bird or a possum broke the sound of silence.

The following morning after breakfast the vehicles packed, we made our way south on the Crooked River track towards Hawkhurst. Here we veered north en route to the infamous "Billy Goat Bluff Track" that followed a spur up to the Pinnacles, a little apprehensive hearing so much about this track, I had mixed feelings.

As a continuous climb with many rocky sections, at times very slippery even in dry conditions Billy Goat Bluff Track was about what I expected, the Hilux handled it very well, however the rough heavy suspension on this vehicle does cause some discomfort, this track would be a great test for any four wheel drive.

Reaching the top we left the cars, walked another one hundred and fifty metres to the CFA lookout, the last view of this region was more spectacular than any we had previously encountered, three hundred and sixty degrees uninterrupted mountainous country lay before us, apart from a few small low clouds our vision was unimpeded, it has to be seen, photographed or painted words could never do this staggering panoramic spectacle justice!

An hour further south saw us polishing off a cold meal of tinned meat, bread and fruit before the final decent down to Stratford, Sale then into the outer suburbs of Melbourne, another wonderful trip, great companions, albeit too short.

*Please note that information contained within this article may not have been verified and is for interest and assistance only. No responsibility will be accepted for use of this information in any form.*

A great topic for discussion this month is the Year 2000 problem. This encompasses everything in our day to day lives. A great deal has been written about this and I would be surprised if anyone doesn't know what it means. So rather than put my slant on things, it is better that I give some suggestions about how to test your PC hardware BIOS for Y2K compliance. Please do not ask me what my definition of compliancy is because everyone has a different view on the subject. Suffice to say that the tests below will allow you to find out if your PC will react incorrectly to the new millennium dates. Read the instructions carefully as the tests will be inconclusive if you don't. Also you could corrupt your databases (if you have any) by not following the procedures exactly. In any testing of this kind, I think you should back up your important data just to be sure.

1. Start your PC in DOS mode – definitely not Windows.
2. No programs are to be running.
3. Set your CMOS clock to 23.59 - 31/12/99 then wait a couple of minutes. The PC should roll the date to the first of Jan. 2000. If not, a patch may fix this problem.
4. Next, change the clock to the same time again but turn off the PC before the roll over to 2000. Wait a couple of minutes, turn on the computer and see if the time and date has rolled over to 2000 without problem. If your PC passed the previous test but not this one, all you need to do is switch it off until the New Year has started. There may also be a patch for this as well.
5. The next test involves setting the date somewhere in the year 2000, switch off the computer, and wait a minute or so then turn it back on. On power up, the system should come up with the same date. If your system fails this test, a patch will not fix it, an upgrade for your BIOS is required. (or throw it away)
6. Another test involves setting the clock to 28/2/2000 at 23.59 and wait to see if the date changes to 29/2/2000 (a leap year of course). If your PC does not pass this one, it may not be a problem unless you make reminder entries or database entries that relate to leap year dates.

OK so you don't want to do all this your self. There are many programs available to self test your PC or try asking someone who knows. Good luck.

Interesting Websites: Thank you to those who passed the following for inclusion

[www.howstuffworks.com.au](http://www.howstuffworks.com.au)

A technical site explaining how devices work.

One for you Dianne -- Cross stitch design patterns etc. I found quite a few sites advertising free and purchasable patterns by using Lycos search engine with the search word of "Cross stitch" too many to list here. Also someone asked about second hand bookshops in America -- well it seems as though all the second hand shops are in the UK. Maybe you should start there.

Thanks to Steve Harding for posting some more photos on his web site with shots of the Philip Island trip. You can find these at:

<http://www.harding.hm/steve/doings/pisland/index.html> and for a lot more try [ftp://ggrec@ftp.harding.hm/Phillip Island/](ftp://ggrec@ftp.harding.hm/Phillip%20Island/)

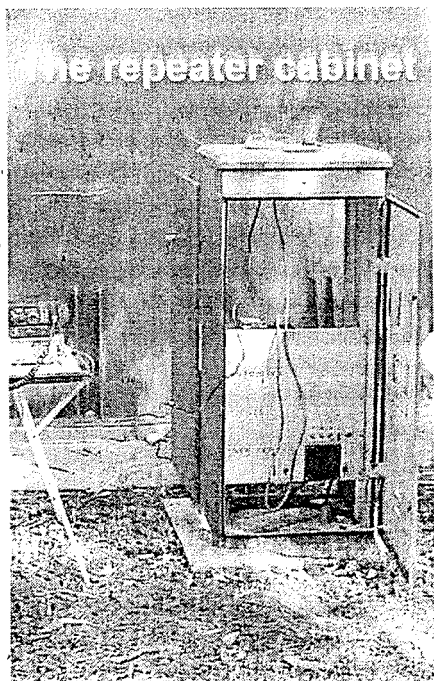
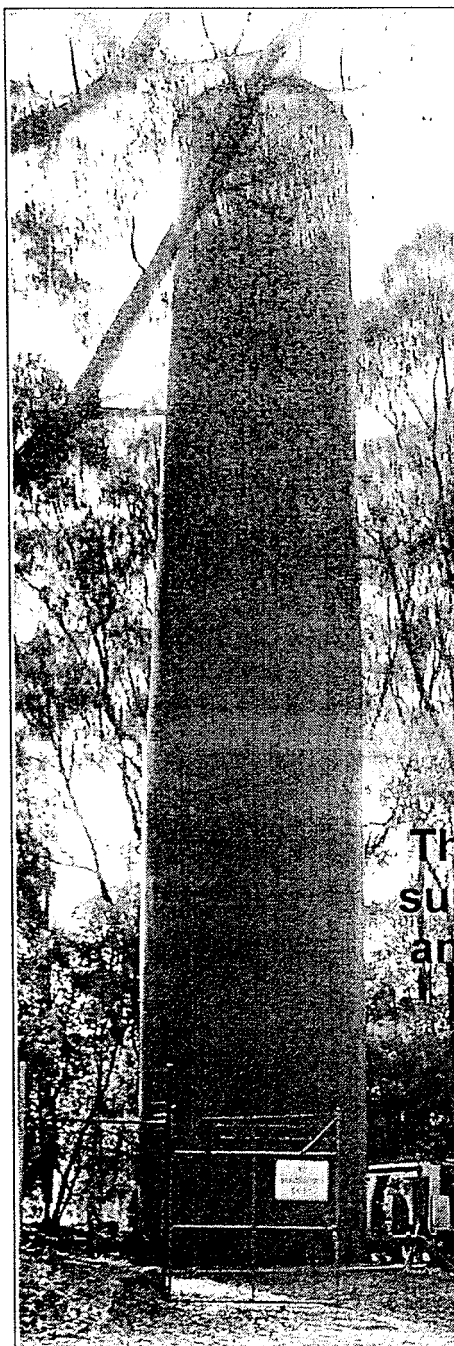
Search Engines: What are they do I hear you ask? This is your best helper on the Net. Without these great knowledge bases, nobody would get anywhere in WWW land. Put simply these are gianttttttt databases where key words are cross referenced to web sites so that when you request a search on a topic, as much detail as can be found (within certain bounds) is related to you on your screen so that you may select sites to visit. If you have a spare hour or three, think of a topic (anything will do), perform a search on it and see where you end up after a couple of hours. Great way to kill a dead afternoon or evening; believe me.

PS If you are on the Net and you don't know how to access a search engine, then you are not trying hard enough because they will find you.

### Windows Tip.

If you are in Windows Explorer and you would like to delete a file completely from a drive..... right click on the file, then while holding down the shift key, left or right click on the file and a question box will open asking you if you want to delete the file rather than sending it to the "Recycle Bin". This is handy if you keep filling up the recycle bin with unwanted trash.

Next month I will tell you why you have a "windows" key on your keyboard.



**The Water tower that  
supports the VK3RDD  
antenna system near  
Cockatoo**

# THE TWENTY-FIRST CENTURY AMATEUR RADIO RIG

by JOHN L. WICKHAM: VK3ZK

The following article is not intended as a knock against the latest Icom gear as I am sure, they are fine pieces of equipment. This article is just to get somebody's ideas going.

Forget about the latest generation of Icom rigs that you saw at a general meeting or so, ago. I have a wild dream for the next generation of HF, VHF and UHF amateur rigs.

Maybe within the next ten years or so, you will spend about \$5,000 plus for the latest rig, but instead of a flashy box with dials, knobs, buttons and quasi-computer screens, all that you will see will be a PCI plug & play card and a virtual reality helmet. Your mic., antenna and CW key will plug into the back of the card and the receive audio will be handled by your sound card. i.e; such rig will be designed for use with your PC.

Once you put on the virtual reality helmet, you will see a sight that will blow your brain. A virtual 3D control panel with every knob, button and dial that you could wish for on a panel, three feet wide and a quasi-computer screen about a foot wide.

After time passes, you may get tired of seeing the same control panel. By pushing a special button, you will be able to choose from one hundred-thousand different front panel designs or even custom-design your own. You could have your virtual rig look like a 1910 spark transmitter, a World War II AT5 transmitter, a late-50s Hallicrafters, a 70s FT-101 or anything else that takes your fancy. The really zany and trendy amateurs could have a heart-shaped or egg-shaped panel and turn it on with really loud and outrageous colours.

To move in a different direction in amateur rig design, forget about rigs with computer speech and circuits that recognise and obey your voice. The US military have been experimenting with instruments that are not controlled by buttons and knobs BUT BY YOUR THOUGHT WAVES! (If you have cable TV, you may have seen the Discovery Channel's story on it.) Imagine switching from 2Mx to 20 Mx or from USB to AM, BY JUST THINKING ABOUT IT! And forget CW keys, paddles and CW keyboards. By attaching a special electrode to your forehead, just above your nose, you can send CW at any speed JUST BY FORMING WORDS IN YOUR HEAD!

But in spite of all this 21st century stuff, you will still be able to get by with an old Heathkit or Yaesu or a simple DC receiver and a two-stage bipolar xtal controlled transmitter! If the latest Icom's take your fancy and you have the appropriate doh-reh-mi, go for them by all means.

## READ ALL ABOUT IT

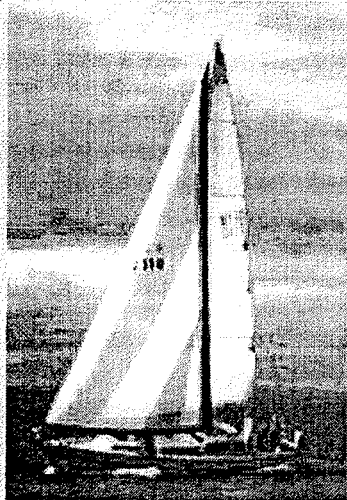
If you have been up to any interesting or entertaining since the last meeting, Jot it down and let us read all about it.

### Interesting Plaque by Colin VK3HR

A very interesting thing I learnt a while ago is a Plaque set in the nature strip in Chesteville Road Moorabbin directly in front of "Pepsi Cola" factory.

The plaque indicates that during the war a very powerful radio station was operating on this site. It played a very important part in the war effort being manned by woman's services, the "Royal Australian Navy" and the "United States Armed Services".

To see it, its just past Keys Road on Eastern side about 500 metres going North the "Pepsi Cola" factory is well back from the road.



### BRINDABELLA II in the OSAKA CUP

Roger Sayers VK3ETT is taking his yacht from Melbourne to Osaka, Japan as a competitor in the Osaka Cup.

The Cup commences on April 17, and continues non-stop for 10,200km. Roger will Appear for a short time each night at 6:00pm Melbourne time, initially on 80metres, 3.630 Mhz, and on 20 metres when further north. (freq. To be advised)

You may also listen for him on the Marine freq of 4.146 Mhz USB at 5:30pm.

Check <http://osakacup.com> for race details.

Name of Yacht: Brindabella II

Sail No.: S110

Date of Launching: 1983

Builder: Traditional Yachts

LOA(m): 11.08

Sail Area (m<sup>2</sup>): 61.92

Draft(m): 2.20

Hull Colors: White above waterline, blue below

406MHz EPIRB ID: BEEE00302C00001

Yacht Club: Royal Melbourne Yacht Squadron

Type: Adams 36

Nation: Australia

Designer: Joe Adams

Rig: Masthead Sloop

DISP(kg): 10,960

Beam Max(m): 3.13

Mast Height(m): 14.67

Radio Call Letters:

VLV9759

Hailing Port: Melbourne, Australia

Sponsorship:

## THE JOKES ON UK

A man and a woman were married for 40 years. When they first got married the man said, "I am putting a box under the bed. You must promise never to look in it." In all their 40 years of marriage the woman never looked.

However, on the afternoon of their 40<sup>th</sup> anniversary curiosity got the best of her and she lifted the lid and peeked inside. In the box were 3 empty beer bottles and \$1874.25 in small bills. She closed the box and put it back under the bed. Now that she knew what was in the box, she was doubly curious as to why.

That evening they were out at a special dinner at their favourite restaurant. After dinner the woman could no longer contain her curiosity and she confessed saying, "I am so sorry. For all these years I kept my promise and never looked. However, today the temptation was too much and I gave in. But now I need to know why do you keep the bottles in the box?" The man thought for a while and said, "I guess after all these wonderful years you deserve to know the truth."

"Whenever I was unfaithful to you I put an empty beer bottle in the box under the bed to remind myself not to do it again." The woman was shocked but said, "I am very disappointed and saddened but I guess after all those years away from home on the road, temptation does happen and I guess 3 times is not that bad considering the years." They hugged and made their peace.

A little while later the woman asked the man, "Why do you have all that money in the box?" To which the man answered, "Whenever the box filled with empties, I cashed them in."

**This joke was supplied by Reg VK3UK**

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### IRELAND'S WORST AIR DISASTER

Ireland's worst air disaster occurred today when a two-seater Cessna 150, crashed into a cemetery early this afternoon in central Dublin. Irish search and rescue workers have recovered 300 bodies so far and expect that number to increase as digging continues into the evening.

**This joke was supplied by Ron VK3EXJ**

### WANTED to BUY

I'm after a "Phillips FM 900" remote head radio for a reasonable price.  
I think they're ex CFA.

Home Phone: 03 9781 2426 Work: 03 996 33015

**Glenn Knight**