

GATEWAY



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

NOVEMBER 2000

Gippsland Gate Radio and Electronics Club Inc.

Incorporation Number A0016893M

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

The meetings commence at 8:00 PM.

Visitors are most welcome.

Committee Members 1999/2000

President	Bruno Tonizzo	VK3BFT
Secretary	Andrew Clinkaberry	VK3HFA
Treasurer	Mike Ide	VK3KTO
Committee member	Russell White	VK3MWR
Committee member	Helmut Inhoven	VK3DHI
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

Phone: 9776 5000 or Email ianjackson@netspace.net.au or Fax: 9776 5451

All other Club correspondence to PO BOX 1098 Cranbourne 3977

Production cost per copy of Gateway : 90cents

President's Message

Welcome to the November edition of GATEWAY.

Well here it is, the last magazine of the year 2000 !!

Like most of you, I cannot work out where the year has gone. It seems that it was only a few weeks ago that we welcomed in the new millennium.....

From the feedback I received on the night, JOTA/JOTI 2000 was a great success. The Cranbourne Guides said that they were grateful for the patience our members displayed in dealing with the inquisitive young guides. I thank all members who were able to come along and be part of a great day. I know that JOTA/JOTI 2000 was a day of fun and learning for both GGREC members as well as the Guides.

As there are no meetings in December, the committee and I would like to wish all GGREC members and their families a happy and holy Christmas and a prosperous New Year for 2001.

The November Prac Night received a visit from Ron Chidgley, the Community Facilities Co-ordinator with the City of Casey. Ron's visit was in response to our letter to the City of Casey regarding grants and or assistance available to GGREC to help us achieve our goal of an independent radio club room. More info at the GM.

The **January 2001** GM will host another in the series of our amateur radio "Show and Tell" nights. The theme will be "Other Brands". If you have radio related gear from a manufacturer that has not yet been featured at a GM (including Home Brew) please bring it along and proudly show it off.

See you at the GM,
73's from Bruno Tonizzo
VK3BFT

P.S. Don't forget to bring a few dollars to the GM to buy some tickets for the GGREC Christmas Hamper raffle.



Event Queue

DAY	DATE	TIME	DETAILS
Fri	17/Nov	8pm	General Meeting and CPR Demo
Sat	02/Dec	3pm	Xmas Party , at Ian VK3BUFs house.
Tues	2 nd Jan	7:30pm	Committee meeting at Bruno VK3BFTs house
Fri	5 th Jan	8pm	Prac Night
Fri	19 Jan	8pm	General Meeting and radio display
Fri, Sat, Sun	26 th 27 th 28 th Jan 2001		Bendigo weekend away. Big 4 Ascot Holiday Park
Fri	9 th Feb	7pm	Pub Night in Carrum Downs
Sat	24 th Feb	1pm	Museum visit and Dinner

CONGRATULATIONS to the candidates who sat exams at Tooradin on October the 14th. This, I think, was the most successful event GGREC has held this year. 3 candidates passed all the subjects sat and one passed one and failed one, a great effort.

From it we have heard Toby Corbett is now VK3HIV, and John Bilston will be picking up a "K or J" call soon.

Once again well done.

Peter and Pat Pavey.





Gory Details ...

CHRISTMAS PARTY

This year our annual Christmas break up party will be held at Ian VK3BUF's house in Frankston. we are planning a fantastic Christmas break up party this year. It should be lots of fun with competitions, prizes and of course our Christmas Hamper Raffle. Tickets for the raffle will be available at the November general meeting and also on the day, at the break up party. Tickets cost \$1.00 each. As usual it will be BYO everything. You will need to bring some meat for the barbecue, plates, knives, forks, glasses and drinks, and don't forget to bring along a chair.

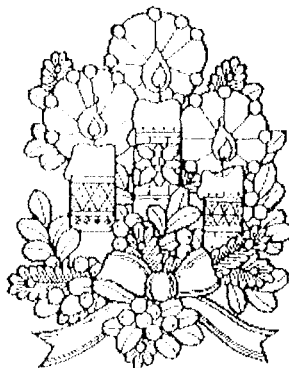
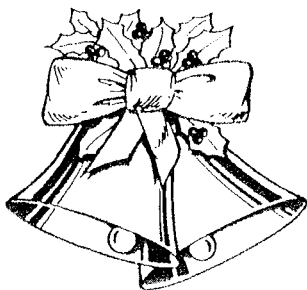
See you there, 105 Franciscan Ave Frankston. Melways map ref 103 A8. Saturday the 2nd of December.

PUB NIGHT

Our next Pub night will be on the 9th of February 2001. This time we will be trying out the Sands Hotel in Carrum Downs. 71 Hall road. If you are interested in coming along to this event, then please put your name on the sign up sheet at the next general meeting, so that we can make a booking.

CHRISTMAS HAMPER RAFFLE

This year the Club has purchased a Christmas Hamper valued at approximately \$50.00. Raffle tickets cost \$1.00 each and will be on sale at the November meeting and also at the GGRFC Christmas break up barbecue, where the raffle will be drawn. Any additional donations to the hamper will be greatly appreciated.



READ ALL ABOUT IT

If you have been up to anything interesting or entertaining since our last meeting, then jot it down and let us read all about it.

CLUB NET

We are now running regularly scheduled Club Nets, on the Club 2 Metre frequency, 146.225. The Nets are held on every 2nd and 4th Sunday's of each month, starting at 8pm. Colin VK3NQS is our net controller this month. The next net nights will be, Sunday the 26th of November and the 10th of December.

BENDIGO WEEKEND

The Australia day weekend next year will be on Friday the 26th, Saturday the 27th and Sunday the 28th of January. The GGREC has planned a weekend trip to Bendigo, staying at the (Big 4) Ascot Holiday Park. It will be "book your own" accommodation, so don't leave it too late.

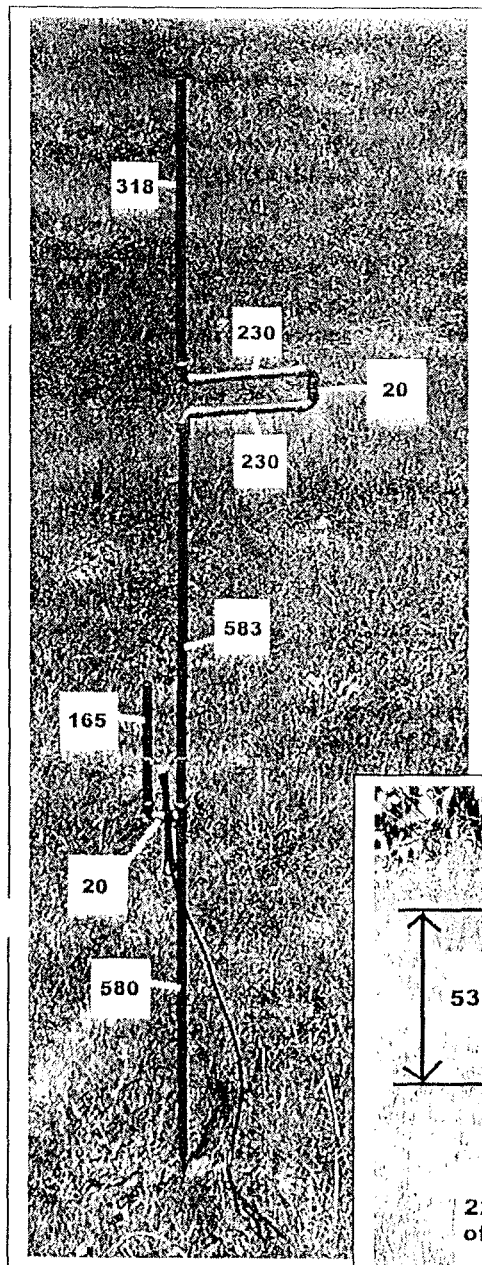
Ascot Holiday Park has a Pool, spa, playground, TV room and barbecues. For Bookings please phone 1800 062 340.

Maria Harding has been investigating all sorts of interesting things to see and do, including, Lake Weeroona boardwalk, White Hills Botanical gardens animal sanctuary, Bendigo Pottery, Bendigo car museum, living wings and things – tropical butterfly house, Golden dragon museum, Discovery science and technology centre, Mini Golf and wineries galore. (To name but a few). The weather in January is usually pretty good so we should be able to really enjoy ourselves.

There will be a sign up sheet at the next Club meeting. A rough idea of the numbers attending will help us to choose an appropriate venue, for a dinner on the Saturday night.

CO-LINEAR J-POLE FOR 70CM

Details provided by Peter VK3ZPW



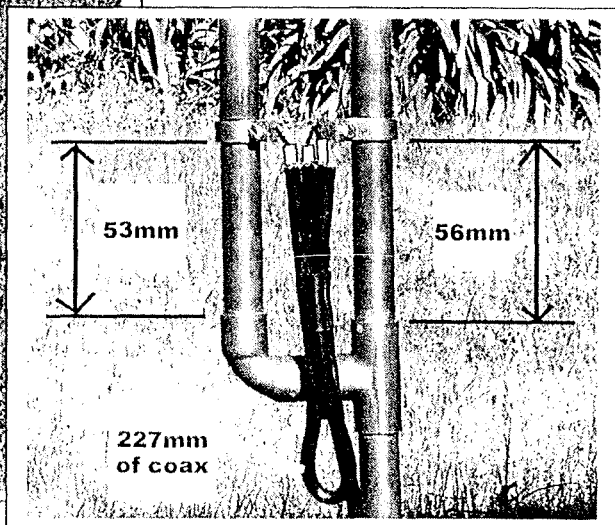
This antenna exhibits approximately 5 dB over a quarter wave ground plane antenna. Made entirely from $\frac{1}{2}$ " copper pipe and fittings, it features excellent SWR over the entire 70cm band. The copper elbows and 'Tee' sections are standard items available from any plumbing suppliers at a very low cost.

The sections here were soldered with a gas blowlamp without difficulty.

The feed point is made from small strips of copper strap and a conventional 4:1 coax balun from RG58 coax. The length of the coax loop is 227 mm. (measured from braid to braid)

The section below the bottom 'U' is for mounting only. It may be grounded to a mast or ground independent.

To build this you will need five elbow fittings and one 'Tee' fitting.



RT85

DOOR STOP OR 6 METRE TRANSCEIVER

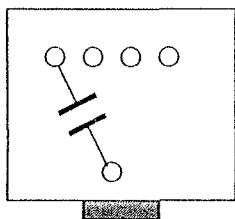
Are you the owner of a RT85 6 metre noise generator? Did you get so far with what was an excellent GGREC Club project and give up because the noise from the data lines was so awful on both TX and RX

Well in that case here are a few mods to convert what seemed a total waste of funds into a friendly functional 6 metre FM radio.

You will need to dig out the circuit diagrams and blow the dust off.

The first mod is with thanks to Paul VK3TGX.

- Dismantle the head and on the board find the Mic AMP **LF351**.
- On the underside of the board solder a **0.1uf** capacitor across pins 4 and 6 regardless of the IC being in use. (some sets have a mod dispensing with this stage).
- Locate the speaker socket and solder a **0.1uf** capacitor as shown in diagram.



TOP OF BOARD

I also soldered a **0.1uf** across the 12 volt input to ground on the processor board and I slid a ferrite bead over the + and - wires just inside the main case.

The mods helped to reduce the data buzz but not totally eliminate it, also the noise was interfering with other rigs close by. It had been speculated over four or five years (yes years) that the main problem was caused by interaction taking place on the ribbon cable linking the remote head to the processor board. Some reduction in interference to nearby rigs was possible by wrapping cooking foil around the ribbon, OK for testing but not a permanent solution.

If you check the CCT for the head module you will see that only five wires (Numbers **10, 11, 12, 13** and **14**) are for control or data, the remainder carry the power, speaker, mic etc. If we segregate the two groups no more problem. I elected to replace the ribbon cable with two separate screened cables, a five and a twelve wire both available at local DSE stores. In this way we separate the nasty noise stuff from the signals we really want to hear.

At my first attempt I laced the two cables together with heatshrink tubing, then soldered the wires onto 16 way DIL crimp sockets (DSE Cat No **P2744**) this way quite a fiddle. To give some strength to this assembly I applied liberal amounts of araldite fixing the wires to the connectors. This was successful for the control head, but proved too weak for the termination at the main chassis.

On a previous mod we have used pins **15** and **16** to provide additional earth leads. As pin **1** is already at 0 volts we can dispense with pin **16**. This then means we can use a 15 pin solderable device to connect the cable to the main radio. DSE Cat No **P2687** (MALE) and **P2688** (FEMALE) fit the bill, and one plastic shell P2689 completes the parts.

Now by bending pin **16** of the DIL plug on the main body out of the way it is possible to solder the tags of the 15 pin SUB D CONNECTOR onto the DIL pins. Some gentle bending is needed to re-align one to the other, but it does eventually fit.

Make yourself up a chart of the pin outs and cable colours and it should all come together like clockwork. I joined the earth wire from both cables together and soldered them to connect up with DIL pin **15**, terminating the 5 core cable to line up with DIL pins **14, 13, 12, 11** and **10**. The remainder I connected using nine of the twelve wires in the second cable. Once all soldering was complete I finished up the **16/15** pin connector with more araldite.

SUGGESTED PARTS LIST

- 5 CORE FOIL SHIELDED CABLE
- 12 CORE FOIL SHIELDED CABLE
- 3 x 0.1UF CAPACITORS (1 USED)
- 1 x IDC CRIMP SOCKET 16 WAY
- 1 x 15PIN SUB D CONNECTOR MALE
- 1 x 15PIN SUB D CONNECTOR FEMALE
- 1 x PLASTIC SHELL

DSE CAT

W2040
W2041
R3025
P2744
P2687
P2688
P2689

plus a useful quantity of patience.

From reports around the place the transmitted signal is now clear, the receiver audio too is free of data noise and adjacent rigs especially 2 metres FM seem unaffected by any data crud.



Hope to hear a few more RT85
Door stops up on air as effective
Communication devices soon.

73s Peter VK3VB



JOKES

A British bush pilot is flying on a job through the Australian outback when he encounters engine problems and is forced to make a crash landing. He survives, but is found unconscious and is taken to a local mission hospital which is run by the Sisters of Mercy. Upon awakening, he is greeted by the mother superior who advises him where he is and asks if there is anything he wants.

He replies, "I am a bit thirsty; could I have a cup of tea?" to which the mother superior says, "I'm terribly sorry, but our supply truck is late and we are out of regular tea. However, we do have a sort of native drink that is brewed from koala hides." The pilot thinks awhile and replies, "Well, I just have to have my cuppa; you can bring me that, thanks."

The nun leaves and returns in a few minutes with a steaming cup. The pilot takes the cup gratefully, but upon taking a sip, instantly gags and spits it out. "This tea is filled with hair," he exclaims disgustedly.

"Oh, I'm dreadfully sorry," the nun replies. "I forgot to tell you: the koala tea of mercy is not strained!"

A fellow named David received a parrot for his birthday. The parrot was fully-grown, with a bad attitude and worse vocabulary. Every other word was an expletive. Those that weren't expletives were, to say the least, rude.

David tried hard to change the bird's attitude and was constantly saying polite words, playing soft music, anything he could think of to try and set a good example. Nothing worked.

He yelled at the bird and the bird yelled back. He shook the bird and the bird just got more angry and more rude.

Finally, in a moment of desperation, David put the parrot in the freezer. For a few moments he heard the bird squawk and kick and scream. Then suddenly there was quiet. Not a sound for half a minute. David was frightened that he might have hurt the bird and quickly opened the freezer door.

The parrot calmly stepped out onto David's extended arm and said, "I believe I may have offended you with my rude language and actions. I will endeavour at once to correct my behaviour. I really am truly sorry and beg your forgiveness."

David was astonished at the bird's change in attitude and was about to ask what had made such a dramatic change when the parrot continued,

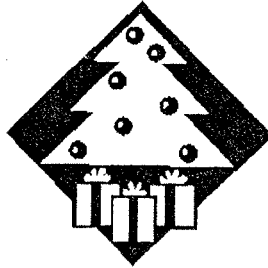
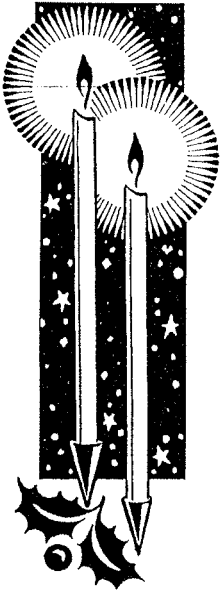
"May I ask what the chicken did?"

JOKES

WHISKY FOR CHRISTMAS

You will need, 1 BOTTLE OF WHISKY, Eggs , Flour, Sugar , Butter and Fruit etc.

* Sample whisky for quality. * Take a large bowl. * Check whisky again to ensure it is of the highest quality, pour 1 level cup and drink. *Repeat.*
* Turn on electric mixer and beat. * To make sure whisky is still OK cry another tup. * Turn off the mixer. * If the dried fruit gets stuck in the beaters, pry it loose with a drewscraver. * Sample the whisky again to check its consisticity. * Next sift in the lemon juice and strain your nuts.
* Add a teaspoon of sugar or something, whatever you can find. * Grease the oven and turn your cake tin 350 degrees. * Don't forget to beat off the turner * Throw the bowl out the window * Check the whisky again
* Go to bed.



**Peter, VK3VB the winner of the \$100 draw supplied
by Graham VK3KCS of G&C Communications.
This took place at our recent Drama 'Drive In'
night where we saw 'The Dish' and 'Frequency'.**



FOR SALE

YAESU FT470 2/70 HAND HELD

WITH: SOFT CASE

FNB-14 1000mAh Battery Case

MH12A2B Speakers Mic & Operators Handbook

21 memories and 2VFO's per band.

Adjustable simultaneous reception on both bands

Wide Variety of Scanning Functions

\$325

Peter VK3VB

03 59983533 10:30am – 8:30pm

FOR SALE

YAESU FT530 2/70 HAND HELD

DUEL-BAND FM PAGING TRANSCEIVER WITH FNB-25

NI-CD BATTERY + SOFT CASE & RUBBER DUCK AE

\$350 o.n.o.

JIM VK3ZRG QTH/R 03 5672-4183

FOR SALE

IC – Q7A DUAL BAND 2/70 MINI HAND HELD

Receive 30 – 1300 Mhz Transmit 350mW

with Carry Case, HR 46 Speaker / Mic

RCA to BNC Adaptor

With Manual

\$350

Peter VK3VB

03 59983533 10:30am – 8:30pm

Best Wishes
for a
Merry Christmas

THE DISH

Last month about 25 people from the GGREC went to the Dromana Drive In to see "The Dish". It was lots of fun. As we arrived at the Drive In, we each received a raffle ticket. The prize was a \$100 voucher from G & C Communications. The raffle was drawn after the movie and was won by Peter Pavey VK3VB. Peter was presented with the voucher by Graham VK3KCS who very kindly donated the prize. (see photo on previous page.)

We had a look inside the projection booth. They have two projectors, one for each screen. (it's a twin drive in) and they use a sequence of mirrors, reflecting the second film through the roof and onto the rear screen. I was amazed to see that an entire film is contained on only one spool of tape.

I think everyone enjoyed "The Dish" although I am not sure that we got very much entertainment value from "Frequency". I thought it was a great night out and we should probably do it again soon.

By Dianne Jackson

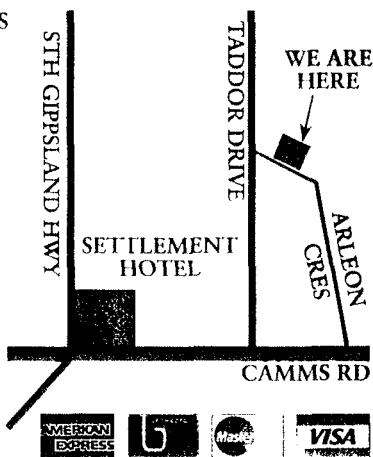
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GRAHAM VK3KCS

Gippsland Gate Radio and Electronics Club Inc.

GENERAL MEETING MINUTES

Date : 20/10/00 **Start :** 2008hrs

Chairman : Bruno VK3BFT **Minute Taker :** Andrew VK3HFA

Present : As per attendance sheet **Visitors/Guests :** Nil

Apologies : Helmut VK3DHI & Dorothy, Jenny, Bruce VK3ZMR, Steve VK3EGD & Maria, Phillip VK3YB, Paul VK3HAS & Melinda VK3HRJ

Correspondence received : EMDRC Newsletter, FAMPARC News, Amateur Radio, HARG Newsletter, Dromana Drive In, Email from Mayor re: JOTA.

Correspondence Out : Nil

Treasurers Report : Read by : Mike VK3KTO Moved by : Mike VK3KTO

Seconded by : Jason Carried

Income : \$25 **Expenditure :** \$177.12 **Balance :** \$6479.93

New call signs : Nil

Previous Minutes : Moved : Naree **Seconded :** Ivan VK3ARV Carried

Business Arising :

1. Discussion took place on the loss of parts of the 70cm band in W.A. and the need to "use it or lose it"

General Business :

1. It was decided that a group would be got together to see "The Dish" and "Frequency" at the Dromana Drive In
2. Exam costs from WIA have increased . It would require 4 people to sit exams on current charge to break even. It was decided that we would work on the cost as if 2 people were sitting....the cost per person will be around \$30. Peter VKVB wil advise.
3. Discussion took place on the replacement of the club computer. **It was moved that "Up to \$1500 be spent on a new computer"** Moved : Ron VK3EXJ
Seconded : Ian VK3BUF Carried.
4. Jason gave an informative talk on his work experience at the weather bureau.

Guest Speaker: Preparations were made for JOTA

Next meeting: 17th November 2000

Meeting Closed : 2050 hours.

GGREC
P.O. BOX 1098
CRANBOURNE

