

GATEWAY

*The Official Journal
of the Gippsland Gate
Radio & Electronics Club*



GGREC

JULY 1995

GIPPSLAND GATE RADIO AND ELECTRONICS CLUB INC

COMMITTEE MEMBERS 1995/1996

President	Albert Hubbard	VK3BQO
Secretary	Dave Campbell	VK3XMF
Treasurer	Ian Jackson	VK3BUF
Committee Member	Helmut Inhoven	VK3DII
Committee Member	Graham Brennan	VK3KCS

Magazine Editors: Graham VK3KCS & Ted VK3XLE

Printing & Dispatch: Graham Brennan Ph. (059) 963298

Deadline for articles in next months issue: Tues. August 1st

Club Meetings held at the Cranbourne Girl Guide Hall in Grant St.
Cranbourne Meetings commence at 8.15 pm on the third Friday of each month.

Club Station: VK3BJA Located at the Guide Hall

Repeater-----VK3RDD in 52.575 out 53.575 Mhz
HF-----28.325 Mhz , USB
VHF-----1 to 225 Mhz , FM
UHF-----438.850 Mhz , FM

ALL VISITORS WELCOME

EL PRESIDENTE' REPORT

Happy New Year folks. To most people that statement only applies to January the first but to the business sector it refers to July the first. Any way its the beginning of another financial year and all the paperwork associated with this busy time is finished with. (Well at least I think it is) To celebrate this time of year we had our annual Dinner Night. In what has become a well attended evening, most members ate, drank and chatted in front of a log fire, the latter adding to the atmosphere of the night. The food was in plenty and the company good so I am sure everyone enjoyed themselves. This event has to go on the permanent calendar.

The point I am pushing for this month will become clear after I tell a story. At approximately 4.30 am the other morning I was woken by a whooshing sound which was so loud and frightening that I was sure a space ship had landed outside our bedroom window. As most of you know, I live in the country so any strange noises are treated very cautiously. Without turning on the lights, I sneaked over to the window and pulled apart the blinds to be confronted by a huge fireball in the sky. To my horror, the house on the other side of the valley (only 300metres from us) was ablaze. Unfortunately it was too late to save the house but luckily no one was home. A fireman told us that by the time I had woken, the house would have been burning for a long while. This situation prompted me to check my own smoke detectors and that is my point. How often do those of you who even have them, check them. This was too close to home and for the measly cost of these devices, I trust every one has at least two in their house. Point taken I hope.

On a brighter note, the Committee has been working on upcoming events such as the White Elephant Sale and JOTA; both of which take a bit of organising. In case you did not know, the Club has a working party for JOTA. The two members are Ivan VK3ARV and Reg VK3VRG. Please give your support to these guys. Elsewhere in the mag, you will see that Helmut has summarised the new licence regs and included them for your information. Seems like the K calls do well from this. Activity on some bands and modes is bound to increase. Next month's prac night will extend from the last in which soldering techniques were discussed. We intend to have a show and tell about coax and associated connectors as well as doing any other practical thing that you would like to expend energy on. Well that's enough from me; get on with the rest of the mag. Or put it down and go to sleep. See you at the meeting.

73.....DE VK3BQO ALBERT

EVENT - QUEUE

Friday	21.July	08.15 pm	Club Meeting	GUEST SPEAKER ST. JOHNS AMBULANCE
Friday	04.August	08.30 pm	Prac Night	
Tuesday	08.August	08.00 pm	Committee Meeting	
Saturday	12.August	06.30 pm	Star Watch at Rialto Tower	
Friday	18.August	08.15 pm	Club Meeting	
????????????????????			Snow Trip	
Friday	01.September	08.15 pm	Prac Night	
Tuesday	05.September	08.00 pm	Committee Meeting	
Friday	15.September	08.15 pm	Club Meeting	
Saturday	16.September	07.30 am	White Elephant Sale	
October	21/22.October	08.00 am	JOTA	



68th ANNUAL YEAR DINNER

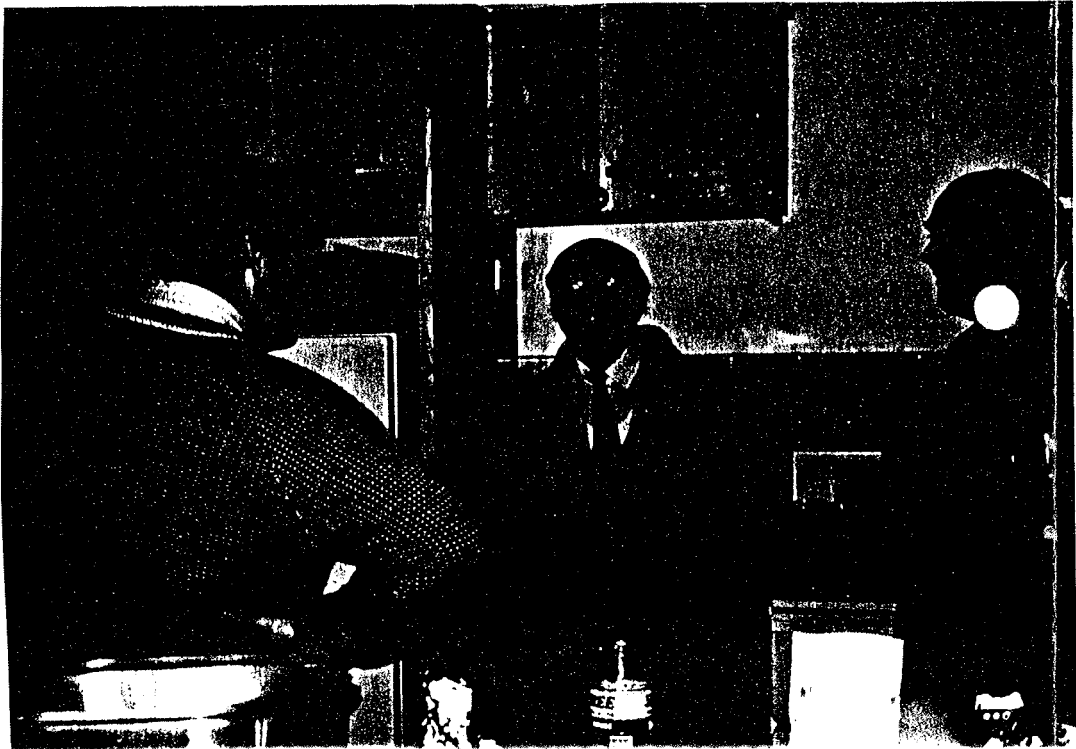
Our Club Dinner Night was held on the 1. July at the Cranbourne Girls Guide Hall. The evening started at about 6.30 PM. We had about 33 clubmembers attending this function. The tables were decorated with flowers and the fireplace was lit to give the hall a warmer atmosphere. After about 30 minutes chatting and heating up all the goodies, everyone grabbed a plate and some cutlery only to go to the table where all the food was to help him- or herself. There were about twelve different dishes on the table deliciously prepared and quite a lot of members went back for the second time to try something different.

And the sweets.....

plenty of sweets we had as there were homemade eclairs, cakes and creams, just right for the sweet-loving ones. After dinner everyone had a chat with everyone with a lot of members sitting around the fireplace. After all it was a very nice evening and those who could not come to this function missed out on something very nice and it most certainly is worthwhile to have an other night at the club like this one was. In the end we want to thank all members attending this evening for their contribution small or large to have made this evening a great success.

Helmut VK3DHI





PRAC NIGHT

FRIDAY 4TH AUGUST 1995

DIFFERENT TYPES OF COAXIAL CABLES AND CONNECTORS
AND HOW TO CORRECTLY FIT THEM TOGETHER.

The revised licences for radio amateurs

The Technical Licence Specification TLS 8/1995

Conditions to be compiled with by a licensee

1. The following conditions apply for the operation of an amateur licence:

A licensee must operate the amateur station to which the licence relates to transmit:

- a) in accordance with the following band plan
- b) in accordance with TLS 8/1995

A) Emissions from an amateur novice limited station:
(THIS IS A NEW LICENCE, INTRODUCED WITH THE TLS 8/1995)

1. Frequencies for digital transmissions (PACKET):

144,692 MHz to 145,208 MHz [NEW]

433,000 MHz to 435,000 MHz [NEW]

438,000 MHz to 440,000 MHz [NEW]

2. Frequencies for voice transmissions:

146,000 MHz to 148,000 MHz [NEW]

433,000 MHz to 435,000 MHz [NEW]

438,000 MHz to 440,000 MHz [NEW]

The transmitter output shall not exceed 30 Watts

***** *

P.T.O.

B) Emissions from an amateur novice station:

- 1) Frequencies for digital transmissions (PACKET):
 - 144,692 MHz to 145,208 MHz [NEW]
 - 433,000 MHz to 435,000 MHz [NEW]
 - 438,000 MHz to 440,000 MHz [NEW]

The transmitter output shall not exceed 30 Watts

2. Frequencies for voice transmissions:
 - 3,525 MHz to 3,625 MHz
 - 21,125 MHz to 21,300 MHz [NEW]
 - 28,100 MHz to 28,600 MHz

The transmitter output shall not exceed 100 Watts [NEW]

C) Emissions from an amateur intermediate station:

- 1) Frequencies for digital transmissions:
 - 144,000 MHz to 148,000 MHz
 - 420,000 MHz to 450,000MHz
- 2) Frequencies for voice transmissions:
 - 3,500 MHz to 3,700 MHz [NEW]
 - 21,000 MHz to 21,450 MHz [NEW]
 - 28,000 MHz to 29,600 MHz [NEW]
 - 50,000 MHz to 54,000MHz
 - 144,000 MHz to 148,000 MHz
 - 420,000 MHz to 450,000 MHz
 - 1240 MHz to 1300 MHz
 - 2300 MHz to 2450 MHz

These are the most common frequencies used,
for further info refer to bandplan

- a) The power output for HF transmissins is 400 Watts [NEW]
- b) The power output for VHF and UHF transmissions is 120 Watts
- c) The power output on 50 MHz is 100 Watts for SSB and AM
and 30 Watts for data-transmissions

Emissions from an amateur limited station:

- 1) Frequencies for digital transmissions:
144,000 MHz to 148,000 MHz
420,000 MHz to 450,000 MHz

- 2) Frequencies for voice transmissions:
29,000 MHz to 29,700 MHz (FM only) [NEW]

All other VHF and UHF voice transmissions are the same
as for amateur intermediate stations

- a) The power output for HF transmissions is 120 Watts
- b) The power output for VHF and UHF transmissions is 120 Watts
- c) The power output for 50MHz to 54 MHz is 100 Watts for SSB and AM
and 30 Watts for data-transmissions

Emissions from an amateur unrestricted station:

There are no changes to the bandplan for full call amateurs.



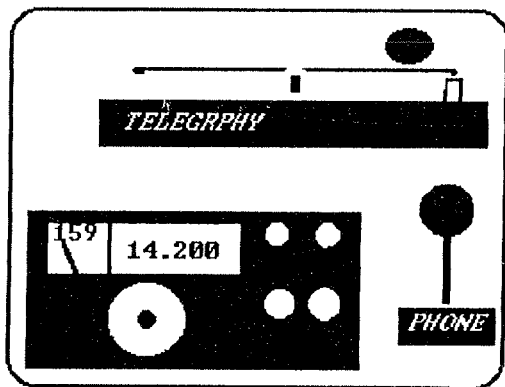
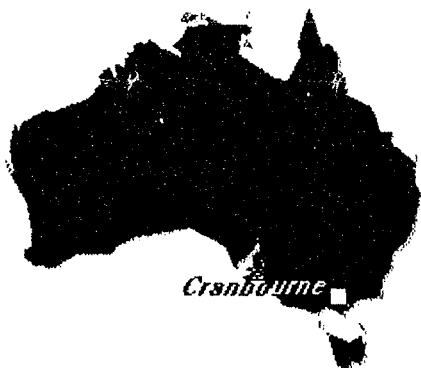
FROM THE MEMBERS OF GGREC

BONVOYAGE

TO PETER VK3KPD AND MARION VK3FMR
ENJOY YOUR TRIP TO P.N.G.
AND KEEP IN TOUCH



CONTEST CALENDER

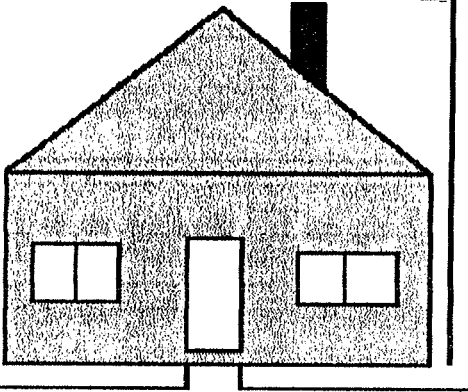


22/23 July	Venezuela CW DX Contest
05 August	YO DX Contest
12/13 August	Worked all Europe CW
12/13 August	SARTG RTTY Contest
12/13 August	Seanet SSB DX Contest
19/20 August	Keyman's Club of Japan CW Contest

July 1995

PROPAGATION

Sunspot No. 16.5



STATIONS WORKED:

AA - USA
ZL - NEW ZEALAND
RA - RUSSIA
HA - HUNGARY
IVORY COAST

SIGNALS HAVEN'T BEEN
GOOD, HOWEVER DX IS
STILL POSSIBLE.
BE THERE AT THE RIGHT
TIME

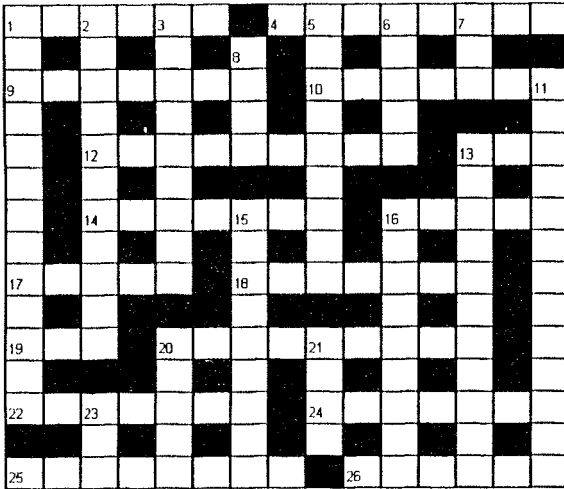
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Graham VK3KCS
PH. (059) 96 3298.



13/7/95

ACROSS

- 1 3Y (6)
- 4 Piezoelectric materials (8)
- 9 Common transistor electrode in highest power gain amplifier configuration (7)
- 10 Meter to determine circuit resonance frequency (4,3)
- 12 Motor which runs on AC or DC (9)
- 13 Signal to start (3)
- 14 Connected stages (7)
- 16 Read only computer memory that can be erased and re-programmed (1,1,1,1,1)
- 17 Early large scale digital computer built at the University of Pennsylvania (1,1,1,1,1)
- 18 Communication (7)
- 19 Atom with net positive or negative charge (3)
- 20 Photographic copy (9)
- 22 Pivot (7)
- 24 Transmit di-da-da-dah (4,3)
- 25 Roughest (8)

DOWN

- 1 Duplex CW (5,2,6)
- 2 Double base diode (1,1)
- 3 Impurity semiconductor (9)
- 5 Temporary storage locations within a CPU (9)
- 6 Ability (5)
- 7 Logical conjunction (3)
- 8 Logical value of 1 (8)
- 11 Front end R.F. signal boosters (13)
- 13 Emitter coupled (7,4)
- 15 Targets (3,6)
- 16 Reciprocal of capacitance (9)
- 20 Touch keyboard key (5)
- 21 Eject (4)
- 23 EA day (3)

AN OPEN DAY FOR THE CLUB - EXAMINING POSSIBILITIES

Ian Jackson VK3BUF

Our Club has been based in Cranbourne for some time now and this has seen many benefits for us. However, it becomes increasingly evident that the local community is largely ignorant of our existence here. This is regrettable as we are missing out on potential local support and membership.

At the next general meeting (July) I will be floating a proposal for a public Open Day at the Guide hall around the end of the year or early next year. The concept is far from being set in concrete, but what I envision is a combined static display and practical demonstration.

The static display could be just a number of transceivers and amateur equipment highlighting what we use and how we use it.

The major part of the Open Day would be a series of practical demonstrations of radio and electronics concepts. A bit like a mini Scienceworks with a leaning towards our areas of expertise. If we could isolate perhaps 10-12 concepts to be demonstrated, we could then assign one person (Club member) to each item to show the concept to the public.

The event would have to be given lots of local publicity, signs posted, local newspaper articles etc. I would suggest free admission, but have a sausage sizzle and other refreshments available as a minor income earner. Handouts promoting the Club could be distributed

We would probably have many people throughout the day, and some may be tempted to come along to our meetings for a look-see. I believe that to entice new members to the Club, we must first capture their imagination's with the technical aspects and then show that our Club has something to offer.

I have considered a few potential demonstrations, we could set up a dipole on 21Mhz indoors and show the high voltage points with a fluoro tube. Perhaps one stand could feature how antennas are directional by using tiny quarter wave ground planes and 3 element beams on 70cm or UHF CB. Does anyone know how to make a spark gap transmitter? The best result is with a simple and repeatable experiment that does not rely on incomprehensible technology. Each demo should convey a single concept so that spectators will depart saying to themselves "Ah I always wondered how that worked!"

This idea for an open day will not happen by itself. It would take a lot of support and input by all of our members. I suggest a work group of five persons be formed to coordinate the event and I will be looking for people to volunteer at the coming meeting night. I stress that if you do chose to get involved that you would be called upon to actually *do* work, not just help with the brainstorming. Think about it.

If there is not enough interest to get the work group going, then we will not pursue the concept any further. In this day of high-tech marvels, it is difficult to impress or entlfuse people. This could be a rare opportunity for the Club to do so. We shall see...

BLOW UP BLOW UP BLOW UP

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your photos?*

*Don't know how
to get it done?*

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GENERAL MEETING 16th June 1995

Meeting commenced: 20 30

Chairman: Albert VK3BQO

Minute Taker: David VK3XMF

Present: As per attendance sheet

Visitors: Matthew

Apologies: VK3KPD, VK3KCS, VK3NPD, VK3EXJ, VK3XDR, VK3FMR

Correspondence: W A N S A R C , E M D R C , F A M P A R C , Postcard from Glen VK3UGC in Japan, Advantage Credit Union, W I C E N News, A R

Treasurers Report

Read Ian VK3BUF	Moved: Paul Ash	Sec Helmut VK3DHI	Carried Yes.
Income \$ 164 00	Expenditure: \$ 205 00	Balance: \$4,200 44	

Previous Minutes: Circulated in monthly magazine

Read VK3XMF	Moved Bobby Bishop	Sec VK3DHI	Carried Yes
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New Call Signs: Nil

Business Arising from Previous Minutes

Max VK3TMK: Max is in good spirits and recovering well according to various members

P.O. Box: The new post office box number is 1098, Cranbourne 3977

6M Repeater: VK3BUF will check on processor problems indicated by the repeater releasing intermittently during QSO's.

Science Works: Sunday 18th June 1995, has been set aside for members to meet at Spotswood at 11 am for a tour of this interesting venue

Annual Club Dinner: All members were advised that this years Dinner is to be held on Saturday 1st July 1995, 6 30 pm at the Guide Hall. BYO a meal and drinks

White Elephant: VK3BQO advised that the Guide Hall has been reserved for the Saturday 16th September 1995, for this event

Working Bee: Ivan VK3ARV and VK3BUF fixed the HF antenna. The magazine cupboard is also installed. Many thanks go to all who lent a hand doing these jobs

HF Kits: Components are available tonight for those who ordered them at \$30 00. The printed circuit boards are also ready for collection at \$15 00

Jota: The coordinators this year will be Reg VK3VRG and Ivan VK3ARV. They have been invited to the July Committee meeting so as to discuss this years requirements

General Business:

2M Linear: VK3BQO mentioned that Dick Smith Electronics had these units for sale at \$119 00, with power out between 30 - 35 watts. He said you would have to be quick to be able to secure one though

Practical Night: A Soldering skills - hands on demonstration - is to be the theme of the coming Practical night. Very small and quite unusual components will be put to the torch so be there

Raffle: A dual fluorescent flash lamp is tonight's prize

Licence changes: The Committee will read and publish a digest of the SMA's latest changes in the Club Magazine

Account Discrepancy: Ian VK3BUF explained the \$750 00 deposit discrepancy was in fact not an error by the bank as we at first thought but part of another deposit of \$370 00 that was correctly cleared on to our statement

WIA Broadcast: Doug VK3KMN reports the WIA Lyndhurst site is being sold, therefore they are relocating the Broadcast facilities to their Ashburton office

Guest Speaker: Albert VK3BQO spoke about the new eight digit telephone dialling system to a captivated audience

Next Meeting: 21st July 1995

Meeting Closed: 21 05