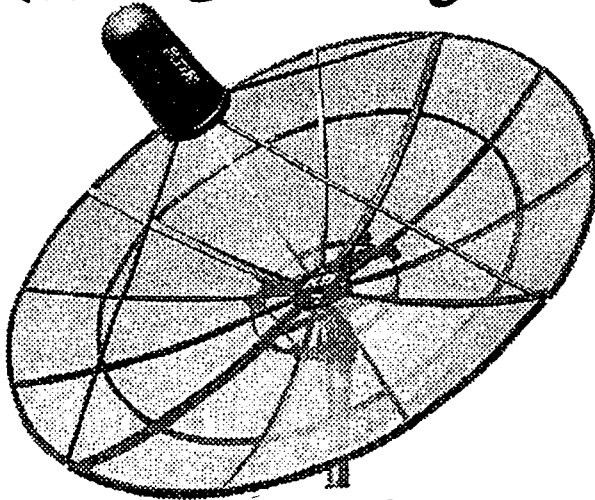


GATEWAY

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



GGREC

SEPTEMBER 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	VK3DIII
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.October 10th

Club Meetings held at the Cranbourne Girl Guide Hall in Grant St.
Cranbourne. Monthly meetings , doors open 8.15 pm & meeting
commences at 8.30 pm.

Club Station: VK3BJA Located at the Guide Hall

Repeater-----VK3RDD in 52.575 out 53.575 Mhz
HF-----28.325 Mhz , USB
VHF-----146.225 Mhz , FM
UHF-----438.850 Mhz , FM

ALL VISITORS WELCOME

EL PRESIDENTE' REPORT

Hi Folks. Isn't it nice to know that the warmer weather is close at hand. With it comes our warmer weather activities. First cab off the rank this month is the White Elephant Sale on Saturday 16th September. The event this year is of course going to be as good or better than other years so don't forget that a Club table (members only) will be available for those who have only a couple of items they wish to sell. Also a lot of help is required to man the drinks and food stalls so please lend a hand for this part. Next we have JOTA. GOTTA mention JOTA. I would like to remind everyone that this is a Club event and needs your assistance to make the job easier. A discussion about this year's organising will be held at the next meeting. By the way; the Club's part in JOTA will be held on Saturday 21st October. Keep it in mind.

Prac nights seem to be suffering a little. Remember that the demonstrations and lectures are being done at your request so make it worthwhile. Our next session will continue with test gear use.

Maybe we should be starting to think about the next fox hunt. It would make a good beginning to the warm weather events. Any other ideas are welcome.

OK , I will keep it short this month as there's work to be done. So see you at the meeting.

73.....DE VK3BQO ALBERT

EVENT - QUEUE

Sunday	10.September	07.00 am	Snow Trip to Lake Mountain, meet at the Stamford Hotel Cnr. Stud/Wellington Roads, Rowville
Friday	15.September	08.15 pm	Club Meeting <i>QUEST SP. T.O.G</i>
Saturday	16.September	07.30 am	White Elephant Sale

Friday	06.October	08.15 pm	Prac. Night
Tuesday	10.October	08.00 pm	Committee Meeting
Friday	20.October	08.15 pm	Club Meeting
Saturday	21.October	08.00 am	JOTA

Friday	03.November	08.15 pm	Prac. Night
Tuesday	06.November	08.00 pm	Committee Meeting
Friday	17.November	08.15 pm	Club Meeting



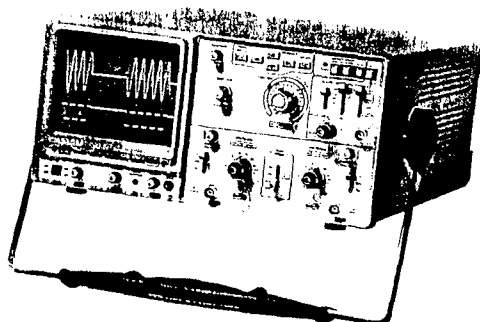
OCTOBER PRAC NIGHT

FRIDAY 6th

OSCILLISCOPES (PART 1)

- * THE CONTROLS**
- * SIMPLE MEASURMENTS**

COME AND HAVE A PLAY!



To all GGREC Club Members.

This message was sent out twice in order to attract some JOTA stations worldwide for contacts by means of Packet Radio.

JAMBOREE ON THE AIR

JOTA 1995

THIS IS AN ANNUAL EVENT IN WHICH SCOUTS AND GUIDES CAN HAVE WORLDWIDE CONVERSATIONS BY MEANS OF AMATEUR RADIO. OUR CLUB HAS BEEN SPONSORED BY THE GIRLS GUIDE CLUB OF CRANBOURNE. WE OPERATE DURING THE WEEKEND OF OCTOBER 21 & 22, 1995 ON PACKET CHANNEL 4712 IN WORLD WIDE CONVERSATIONS AS WELL AS ON OTHER AMATEUR RADIO FREQUENCIES SUCH AS 15, 20, 40 AND 80 METERS. WE HOPE THIS EVENT WILL BE A GREAT SUCCESS FOR THE GIRL GUIDES OF CRANBOURNE.

WE THANK ALL JOTA STATIONS WHO CONTACT OUR STATION IN ADVANCE FOR THEIR EFFORT.

OUR PACKET ADDRESS : VK3DHI @ VK3COL.#MEL.VIC.AUS.OC
: VK3BJA @ VK3COL #MEL.VIC.AUS.OC

RADIO CLUB : GIPPSLAND GATE RADIO CLUB

LOCATION : CRANBOURNE, VICTORIA, AUSTRALIA
40 KM SOUTH-EAST OF MELBOURNE

LOCATOR : QF21

STATION CALL : VK3BJA

ON BEHALF OF THE GIRL GUIDES OF CRANBOURNE

HELMUT, VK3DHI

-----oOo-(==)-oOo-----
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(oO Oo)

**INCORPORATION RULES FOR GIPPSLAND GATE RADIO AND
ELECTRONICS CLUB inc.**

20/04/95

RULE 1:

The name of the organisation shall be the Gippsland Gate Radio and Electronics Club here in after called the Club.

RULE 2:

Within these RULES, unless inconsistent with the context impugning the masculine gender only shall include the feminine gender.

RULE 3:

The objects of the Club shall be:

(A) To promote and develop the science of radio, electronics and its associated interests, in all its branches.

(B) To cooperate with similar clubs and organisations throughout the world.

(C) To provide social intercourse for all its members.

(D) To do all such things as are conducive or incidental to the attainment of the objects.

RULE 4:

Membership shall be open to all persons subscribing to the objects of the Club and paying the prescribed fees. No restrictions shall be imposed on any person by virtue of religious or political beliefs, sex, nationality or race, but the Committee shall have the right to refuse membership to any person without assigning any reason therefore.

RULE 5:

The following classes of membership shall apply:

(A) Life member. Any person rendering such meritorious service as to warrant such membership to be approved by a three fifths majority of members present and voting at any General Meeting of the Club.

(B) Full member. Any person over sixteen years of age.

(C) Junior member. Any person under sixteen years of age. Any person over sixteen years of age attending an educational institution full time.

(D) Pensioner member. Any person eligible for a State or Federal Government pension.

(E) Family member. Any person being the spouse of, or child of AND LIVING WITH, a Full member.

(F) *Honorary member.* Any person/s that the Club Committee may from time to time appoint.

RULE 6:

The Clubs fiscal year is from the first of April to the thirty first of March of the calendar year following. The subscription fees payable each fiscal year by each class of member shall be decided at the General Meeting immediately preceding the Annual General Meeting. Any member not paying the prescribed subscription by the thirty first of May shall be deemed to be unfinancial. The Treasurer shall collect PRO - RATA fees from NEW members joining mid term. Club funds shall be derived from membership fees and other money raising events such as raffles and white elephant sales.

RULE 7:

Any member may be expelled or suspended from membership for a period not exceeding twelve months, at the discretion of the Club Committee, provided that such member shall have the right to appeal at a General Meeting. Voting on this issue both in Committee and in General Meeting be by secret ballot.

RULE 8:

Any member may resign his membership by giving notice in writing to the Secretary, but shall continue to be responsible for any liability incurred during or as a result of his membership.

RULE 9:

(A) The Annual General Meeting shall be held in April each calendar year.

(B) At least six other General Meetings shall be held each fiscal year. Notification of these Meetings and notices of motion are to appear in the Club newsletter one month prior to the meeting.

(C) All General Meetings shall be conducted in accordance with standing orders.

RULE 10:

(A) All Club Committee members shall retire at the Annual General Meeting and shall be eligible for re-election providing they have not served three full consecutive terms in the same position; in which case they shall be

ineligible. At a General Meeting prior to the AGM, a chairman conversant with meeting procedures shall be elected and a minutes recorder nominated for the duration of the Annual General Meeting.

(B) At the Annual General Meeting, a Club Committee comprising the following shall be elected from amongst the eligible financial members: President, Secretary, Treasurer and two additional members. The Committee shall have the power to appoint further committee members for the purpose of sub committees. A majority of committee members shall hold the A.O.C.P., A.O.L.C.P. or N.A.O.C.P. The new committee members shall assume office at the conclusion of the Annual General Meeting.

(C) The Committee shall hold meetings as to discuss and decide upon matters within the Committees powers. These meetings may be attended by other Club members provided prior approval is obtained from the President. The position of any committee member absent from two consecutive Committee Meetings without apology or three consecutive Committee Meetings with apology shall automatically become vacant. The decision on re-appointing of this position is to be made at the following General Meeting.

(D) The decision of the Club Committee shall in all non-monetary matters relating to the Club, be final. It shall have general control of officers, sub-committees and may for good causes declare any office vacant. It shall constitute a Board of Appeal from the rulings of officers and actions of all committees and may hear and determine any disputed matters or any complaints or grievances as to Club matters between members except as otherwise provided for in RULE seven.

(E) In the event of an office holder being deemed incompetent by a majority of committee members in a "no confidence" vote, the office holder shall stand down until such time as the position is re-confirmed at a General Meeting as provided for in RULE seven.

(F) A retiring President or Secretary who is not a member of the new Club Committee shall automatically become an ex-officio member of the Club Committee for a period of six weeks with power to vote.

(G) 1/ It shall be the duty of the President to preside at the General Meeting of the Club and the Club Committee, and to perform such other duties as ordinarily pertain to his office.

2/ It shall be the duty of the Secretary to keep or cause to be kept the records of membership, record the attendance at the Club Committee Meetings, record and preserve the minutes of the Club Committee and Club

General Meetings and to perform all other duties as ordinarily pertain to his office. All records are to be kept in a manner allowing inspection by any member; provided a written request has been received at least 48 hours prior.

3/ It shall be the duty of the Treasurer to have custody of the Club funds except where otherwise provided for in RULE thirteen, accounting for the same to the Club at its Annual General Meeting and at any other time upon demand of the Club Committee. He shall perform all other duties as ordinarily pertain to his office. All financial records are to be kept in a manner allowing inspection by any member; provided a written request has been received at least 48 hours prior.

4/ It shall be the duty of the chairman at the Annual General Meeting to conduct the elections of office bearers in accordance with standing orders.

RULE 11:

(A) Elections of office bearers shall be by secret ballot. Any equality in voting shall be resolved in favor of the retiring candidate, if any, or otherwise by lot.

(B) Nominations shall require a proposer and seconder and shall be called for at least twenty eight days before an Annual General Meeting and shall close with the Secretary seven days before the Annual General Meeting.

(C) To be eligible for nomination in the elections for Club office bearers, the nominee shall have attained the minimum age of 16, have been financial for and attended at least three General Meetings in the Current fiscal year, and not be deemed ineligible under any other RULE within these Rules. (Unless under exceptional circumstances, which shall be voted on in a General Meeting. See RULE 10a)

(D) To vote in the elections for Club office bearers, a person must have been a member for six months and be financial as at the Annual General Meeting. All votes shall be in person at the Annual General Meeting.

(E) The ballot paper shall list candidates names alphabetically and call signs, (if any), without any indication as to which are retiring office bearers.

RULE 12:

(A) The quorum at General Meetings shall be ten financial members or one sixth of the financial membership, whichever ever is the smaller. All votes shall be in person at the General Meeting with the exception of a Special Resolution where a signed, dated ballot paper with a single choice in response to the

resolution question is written is acceptable if received at or before the General Meeting in question..

(B) The quorum at Club Committee Meetings shall be three committee members. Meetings shall be conducted in accordance with standing orders. In the event of an equality in voting at a Committee Meeting, the presiding Chairman may exercise a second or casting vote.

RULE 13:

(A) The Club fiscal year shall commence on the first day of April of each year and all the Club books shall be brought up to date and finalised for the preceding day. Auditing of the Clubs financial books shall be completed by this same date. The Auditor shall be nominated at a General Meeting prior to this date and shall be deemed to be competent and qualified if the majority of members present at the meeting so agree.

(B) The funds of the Club are to be deposited in a bank selected by the Club Committee. Such moneys of the Club not immediately required may be invested upon such securities and in such a manner as from time to time determined by the Club Committee or by a majority of members present and voting at a General Meeting.

(C) The Club Committee shall have the power to sign and countersign cheques, and otherwise act as may be necessary to operate any Club account under the provisions in RULE 13d below.

(D) All disbursements other than petty cash shall be made by cheque which must be approved by any two committee members. The decision to spend any amount more than 12 times the annual full membership fee must be ratified by members at a General Meeting.

(E) The Club shall keep one general account and may at the discretion of the Committee generate other accounts if the need arises such as editorial or educational. In all cases the general Club account may call on the other accounts for moneys.

..... (F) Custody of the common seal of the Club shall be the responsibility of the public officer. Use of the common seal must be ratified at a General Meeting with one month's notice of motion given in the Club newsletter.

RULE 14:

(A) The Club shall be dissolved if a Special Resolution to this effect is carried at a General Meeting, two months notice of motion of the proposed resolution having been given in the Club newsletter.

(B) In the event of dissolution, all assets shall be sold; the means determined by the Club Committee (that is, the Committee in office prior to dissolution) and any outstanding debts paid. The Club financial books shall be audited as per the Annual General Meeting and all records and balance of moneys remaining shall be transferred to the Wireless Institute of Australia, Victorian Division, to be used in furthering the original objects of the Club.

RULE 15:

Each member shall be entitled to one vote; with the exception of family members under 16 years of age or honorary members who shall have no vote. In the event of an equality of voting on any question the chairman shall have the casting vote.

RULE 16:

These Rules or Statement of Purposes in Rule 3 may only be amended by a Special Resolution, provided two months notice of the proposed amendment has been given in the Club newsletter or other formal notice.

RULE 17:

Any doubt arising as to the application or meaning of any RULE of these Rules shall be resolved by a vote at a General Meeting; the decision shall be final and conclusive. Such ruling must conform to the Incorporation Act.

RULE 18:

The Club Committee shall publish or cause to be published a newsletter. Issues are to be made at least quarterly and distributed to eligible members in a manner decided by the Club Committee. The purpose of this newsletter is to advise members of important notices and of impending meetings within the minimum notification period. An amount per member shall be charged to offset the printing costs of the newsletter and such amount is to be included in the annual subscription payable by each member.

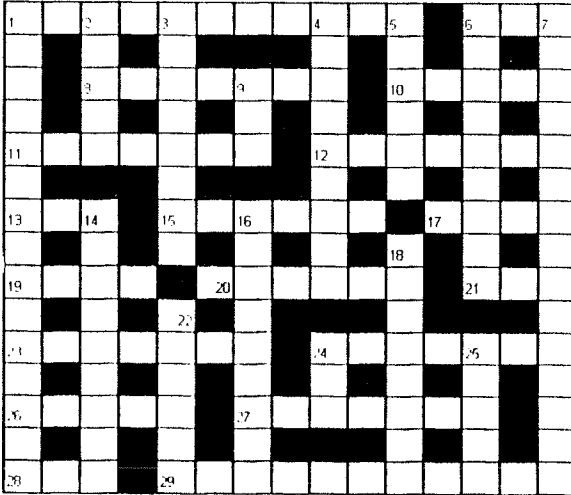
RULE 19:

The Club Committee may promulgate bylaws governing all Club awards, contests or competitions and may vary and interpret such bylaws.

RULE 20:

Any member/s responsible for damage or destruction to property, equipment or other material in the Clubs charge, shall be liable to fully compensate the Club; the conditions to be determined by the Club Committee.

"SEPT. CROSSWORD"



30/8/95

ACROSS

- 1 RTTY paper punches (11)
- 6 Comparative power ratio (1,1,1)
- 8 NRS (7)
- 10 Types of capacitor (5)
- 11 Beam component (7)
- 12 Type of travelling wave tube (7)
- 13 George Simon (3)
- 15 Proportions (6)
- 17 QRX (4)
- 19 KH7 (4)
- 20 Maltreated equipment (6)
- 21 Facilitates QSL (1,1,1)
- 23 Ionosphere lying in the Mesosphere (1,6)
- 24 YJ (7)
- 26 Amplitude shift (2,3)
- 27 Recited (7)
- 28 Log please (3)
- 29 Resistors having large non-linear negative temperature co-efficient of resistance (11)

DOWN

- 1 Indirect frequency synthesis circuit (5,6,4)
- 2 Reliable propagation distance (5)
- 3 Unit of resistivity (3,5)
- 4 $v \cdot v$ (2,7)
- 5 Voltage stored on a capacitor by S/H amplifier (6)
- 6 Writes up program detail (9)
- 7 Graphs of circuit current against deviation from tuned frequency (9,6)
- 9 $z + 10$ (1,1,1)
- 14 150HA1AAN (5,4)
- 16 Unwanted signal produced in a radio valve (4,5)
- 18 $9 + 9$ (3,5)
- 22 Mist (6)
- 24 AFSK (1,1,1)
- 25 Carrier 6.7496 Mhz above lower frequency edge of colour television channel (5)

SUNSPOT MAY BE START OF NEW CYCLE

Astronomers at the California Institute of technology say they have identified the first new sunspot in the next sunspot cycle.

Scientists at Caltech,s Big Bear Solar Observatory in Big Bear City, California, photographed the spot on August 12,

"This makes us happy," said Hal Zirin, professor of astrophysics at Caltech and director of the Big Bear facility. "the sun is a lot more interesting to study when things are going on." Early in the 11-year sunspot cycle, sunspots appear rarely and at relatively high solar latitudes around 30 to 35 degrees, then increase in frequency and appear at lower latitudes until they reach sunspot maximum, After this peak in activity, the number of spots slowly declines, and they appear even closer to the suns equator until they reach a relatively quiet phase called sunspot minimum.

The sun has been in a quiet period through much of 1994 and this year, with a few spots showing up near the equator. The new sunspot found on August the 12 appeared at a solar latitude of 21 degrees, and its magnetic polarity is opposite to that seen over the last decade, a key to identifying it as the manifestation of the start of a new cycle, Caltech said.

Scientists at Caltech said they expected an early beginning to cycle 23, but not this early. Sunspots in the new cycle should rapidly become more common and reach a high level of activity in 1998 or 1999, Caltech said

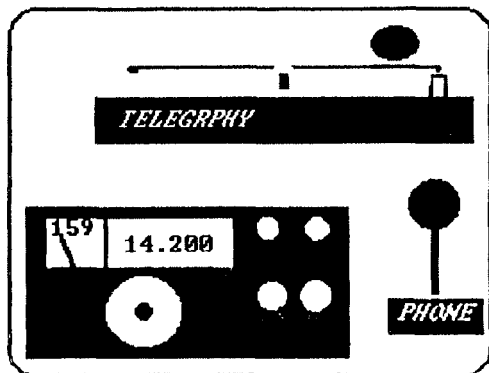
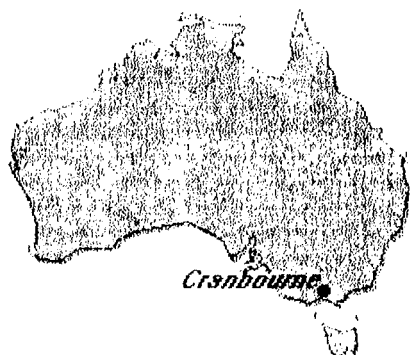
NEXT SOLAR CYCLE BEGINS

There is not much an observatory has to offer ham radio, but this is to pertinent to ignore. As we all know, we are sitting at dead bottom of the solar cycle....a period of extreme solar "quiet" (minimum) conditions. From a communications standpoint, you plot solar activity (various indexes or sunspot counts) to determine when the next cycle begins, but this method identifies the next solar cycle months after the fact.

From an astronomy and observational standpoint, there are two distinct conditions that identify the end of one cycle and the beginning of the next: 1. During a solar MINIMUM- sunspots are rare and when they do occur, are located along the sun's equator within +/- 7 degrees. 2. During a solar MAXIMUM- sunspots become more numerous and are located at much higher latitudes on the solar disk, above 30 degrees. 3. The magnetic polarity the next The first sunspot above the equator since early 1994 was observed Saturday, 12 1995 at the Big Bear Solar Observatory, operated by Cal Tech. The sunspot was observed at 21 degrees north latitude and was of opposite magnetic polarity from all sunspots since 1984....identifying the start of the new solar cycle.. Thus, the next solar cycle began August 12, 1995, a bit ahead of most forecasts. This suggests that improved HF propagation could be evident as early as next spring and summer, depending upon the rate of increase in solar activity. ---NATIONAL RADIO ASTRONOMY OBSERVATORY in

Socorro...
73s VK3ARV

CONTEST CALENDER

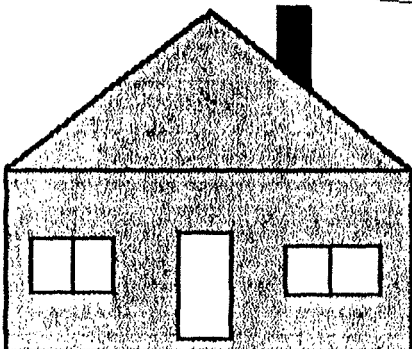


16/17 September	SAC DX CW
23/24 September	SAC DX Phone Contest
23/24 September	CQ WW RTTY DX Contest
01 October	RSGB 21 & 28 MHz Phone Contest
07/08 October	VK/ZL/Oceania DX Phone Contest
14/15 October	VK/ZL/Oceania DX CW Contest
15 October	RSGB 21 & 28 MHz CW Contest
21/22 October	Worked All Germany Contest Mixed Modes
28/29 October	CQ WW DX Contest Phone

SEPTEMBER 1995

PROPAGATION

Sunspot No. 14,4



Extrated Timetable:

Short path:

Europe: 40m 1400 - 2300 UTC
20m 0900 - 1400 UTC
17m 0500 - 1000 UTC
15m 0600 - 0900 UTC

Long path:

Europe: 40m 0400 - 0900 UTC
20m 0700 - 0900 UTC
17m lucky, if any.....
15m send a pigeon..

ca: 40m 1400 - 0100 UTC	Asia: 40m 0900 - 2100 UTC	USA: 40m 0500 - 1700 UTC
20m 0300 - 1200 UTC	20m 2200 - 1000UTC	20m 0200 1000 UTC
17m 0400 - 1000 UTC	17m 0000 - 0800 UTC	17m 2300 - 0400 UTC
lucky?15m 0500 - 0800 UTC	15m 0100 - 0700 UTC	15m 2300 - 0300 UTC
	(lucky ?)	(lucky ?)

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GENERAL MEETING 18TH AUGUST 1995

Meeting commenced: 20.30

Chairman: Albert, VK3BQO

Minute Taker: Helmut, VK3DHI

Present: As per attendance sheet

Visitors: None

Apologies: VK3XDR, VK3KCW, VK3XMF, VK3EXJ

Correspondence: F.A.M.P.A.R.C. Magazin

Treasurers Report: The new Commonwealth Bank Account is established
Read: VK3BUF, Moved: Reg, VK3JRG, Sec. Ray, VK3CEO, carried,
yes

Previous Minutes Circulated in monthly magazine

Read: Helmut, VK3DHI **Moved:** Bobbie **Sec:** Reg, VK3JRG **Carried:**
yes

New Callsigns: VK3JRG, Reg VK3HSA, Paul **CONGRATULATIONS**

Business Arising From Previous Minutes:

6m Repeater: The repeater is working OK after VK3BQO installed a
40W light globe into the cabinet

Club Science Work: Ian, VK3BUF progressed on this event and the sub-
committee is now working consisting of VK3TMK, VK3ARV, VK3KCS and
VK3SHA.

Stubby Coolers: The club will buy 50 stubby coolers, the artwork will be
our GGREC club badge.

Handsfree Kits: There are still a few kits not collected, see Ian,
VK3BUF for collection

White Elefant Sale: All is set to go for this event, VK3DHI and Dorothe
to organize BBQ and food etc.

Raffle Prize: A fluorescence light is offered as the prize, tickets are
\$1,00 per ticket.

Snow Trip: The snow trip is postponed to the 10. September due to
Father's Day being on the 3rd of September.

Prac Night: The theme of the next prac night will be a demonstration on
test gear

Trip Australia Day 1996: Ian, VK3BUF informed the club that we will
have a special room called the "RED ROOM" for the evening in the pub.
This was organized by Ian's father.

Farewells: Kerry, VK3KFC and Lynn Clayton are moving to Maryborough
QLD and Albert, VK3BQO thanked both of them for their contribution to
our club and presented Kerry with a plaque.

Marion, VK3FMR and Peter VK3KPD are also leaving our club to move to
PNG. Albert thanked both for their support to our club and presented
them with a giant Club QSL Card signed by all members present.

Guest Speaker: Garnet, VK3MTA explained the and interest of Scouts
and Girls Guide organizations into JOTA and Amateur Radio.

Next Meeting: 15. September 1995 **Metting closed:** 21.06