



The

PROPAGATOR



Illawarra Amateur Radio Society Inc.

The monthly newsletter of the Illawarra Amateur Radio Society Inc.
Registered by Australia Post publication number :- NBH - 1491.

Meetings are held on the second Tuesday each month (except January) at 7.30 pm in the
State Emergency Services building in Montague St, Nth Wollongong.

Visitors are most welcome.

Volume #91 , Number 6

June 1991

EDITORIAL

When you get to the penultimate page of this issue, you will notice that it is in fact a form. A candidate nomination form for the offices of the club in the new financial year.

I wrote not so long ago that the AGM was approaching at ever increasing velocity, and that it was time to consider taking on a position within the club. If you have never held a position before, then as Uncle Sam says, we want you. New faces and fresh ideas are always welcome. If you are elected, you will not be on your own, as there are always willing helpers from the past and present.

The nomination form should be filled out and forwarded to Ken or Pat or any other member of the committee before the AGM, but I would imagine that late nominees will be excepted on the night.

Don't forget that the next meeting is homebrew night, so bring all that good stuff along.

COMING EVENTS

June

This is home brew night. Bring along all those little nicks and nacks that make your hobby that little bit more interesting.

July

The AGM. Yes this is "D day" for the present offices of the club. You could have your name on the back of the Propagator too.

August

This will probably be decided at the first committee meeting, but I am quite sure that Peter KHE is just busting to give his talk on being a Broadcast orifice (Hmmm).

WANTED

Wanted:- An ATU with built in power and vswr meters. Must be able to handle 300 Watts of HF RF.
Contact Steve on 833073

ANY COMMITTEES OF THE IARS,
TUESDAY, 21 MAY, 1991 AT SES HQ,
MONTAGUE STREET, NORTH WOLLONGONG.
START 19:30.

PRESENT: VK2'S KWG (CHAIR), KCV,
KEY, TKE, XQX, JBS, MT, KLH, XLA.

APOLOGIES: VK2'S XSV, KHE.

THE MINUTES OF THE PREVIOUS
MEETING OF 16 APRIL WERE READ AND
RECEIVED.

CORRESPONDENCE IN:

OXLEY REGION ARC - INFO RE OXLEY
FIELD DAYS ON JUNE 8 & 9, 1991.

DRAGNET - ST GEORGE ARB.

BARG NEWS BALLARAT ARG.

AUST POST - INVOICE FOR PAYMENT OF
P.O. BOX.

MR. G MATTESICH, VK2BNG -
SUBSCRIPTION ENQUIRY.

SMOKE SIGNALS - CENTRAL COAST ARC.

AUST POST - APPLICATION FOR RENEWAL
OF REGISTRATION OF "PROPAGATOR"

BULLI PASS SCENIC RESERVE-
INFORMATION RE LEVY CHARGES.

MRS ISAACS - REGARDING RADIO
EQUIPMENT.

WOLLONGONG CITY COUNCIL - COMMUNITY
INFORMATION DIRECTORY.

GOULBURN ARC - SEEKING APPROVAL TO
LINK UHF REPEATERS.

GENERAL BUSINESS:

REGIONAL CONFERENCE OF CLUBS - 2
CLUBS HAVE REPLIED INDICATING 12
MEMBERS WILL ATTEND. MEETING SET
FOR SAT 15 JUNE 1991 AND ROOM HAS
BEEN ARRANGED WITH SES. BRIAN,
VK2KLH, HAS AGREED TO CHAIR THE
MEETING WITH PAT, VK2KCV, TO TAKE
MINUTES. ALL CLUB MEMBERS ARE
REQUESTED TO THINK HARD ABOUT OUR
HOBBY AND SUBMIT PROPOSALS RE THE
DIRECTION AND FUTURE OF AMATEUR
RADIO. THE FUTURE IS IN YOUR
HANDS. CATERING - WILL BE ARRANGED
BY SIMON, VK2XQX, WHEN NUMBERS
ATTENDING ARE KNOWN.

REPEATER REPORT :

VK2RAW - A BATTERY PROBLEM
OCCURRED LEAVING THE REPEATER
SILENT. THE PROBLEM WAS FOUND TO
BE A DEAD CELL. THE BATTERIES

WERE REPEARED FOR CHARGING AND WE
NOW ONLY HAVE TWO SETS OF
BATTERIES FOR THE REPEATER. THE
COMMITTEE GAVE A VOTE OF THANKS TO
KEN, VK2TKE, FOR THE TIME AND
EFFORT SPENT IN TRACING AND FIXING
THE PROBLEM. DOTC - HAS ACCEPTED
ROB'S, VK2MT, RATIONALISING OF OUR
LICENSES AND THIS SAVED US APPROX
\$68. EVERY LITTLE BIT HELPS!!
VK2RUW - ROB, VK2MT, IS PLANNING
THE LOGISTICS OF LINKING UHF
REPEATERS VK2RGN (GOULBURN) AND
VK2RUW - SEE ROB'S REPORT FOR
DETAILS. MEMBERS AND READERS ARE
ALSO REMINDED THAT THE UHF BANDS
ARE RIPE FOR PICKING BY COMMERCIAL
INTERESTS SO, ONCE AGAIN, USE IT OR
LOSE IT. SOME RUMOURS SUGGEST IT
MAY ALREADY BE TOO LATE FOR SOME
PORTIONS OF OUR BANDS.

CLUB STATION:

1. ACTION ON THE ANTENNA WILL BE
HELD OVER UNTIL WE CAN MAKE SOME
SPACE IN THE SHACK. THERE WILL BE
A GIGANTIC CLEAR OUT OF
ACCUMULATED EQUIPMENT GOING CHEAP
OR EVEN FREE WITH HINTS AND IDEAS
OF WHAT CAN BE SALVAGED FROM ITEMS
AND IDEAS FOR CONSTRUCTION PROJECTS
ETC.

2. CLUB CALL - NOW THAT "I" SERIES
CALLS ARE AVAILABLE, A POLL WILL
BE TAKEN OF MEMBERS AT THE NEXT
MEETING TO SEE IF WE SHOULD TRY
AND OBTAIN THE CALL VK2IAR FOR THE
CLUB STATION (IF IT IS STILL
AVAILABLE).

NEXT MEETING :

TUESDAY, 11 JUNE, 1991 - HOME BREW
NIGHT - BRING ALONG ANYTHING THAT
HAS BEEN MADE, MODIFIED, CHANGED,
RESURRECTED, ETC. EXAMPLES ARE -
POWER SUPPLIES, TEST EQUIPMENT,
ANTENNAS (NOT 80M QUADS),
TRANSCEIVERS, COMPUTER EQUIPMENT OR
PROGRAMS. NO PRIZES BUT LOTS OF
ADMIRING AND ENVIDIOUS GLANCES.

MEETING CLOSED 22.15

ZAPHOD'S HINT No 3.550

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at least remember how to find it
out.

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PRINCESS HWAY DAPTO

Winter Maintenance for Amateur Radio Equipment

1. Oil all RF stages to reduce noise levels.
2. Rotate tubes and check air pressure.
3. Adjust heaters to 100 degrees.
4. Plug all grid leaks and check padding on padders.
5. Check RH group of all bleeders.
6. Check water levels in tank circuits and reservoir capacitors.
7. Check sharpness of trimmers and resharpen if necessary.
8. Replace all screens in filters dropped by screen droppers.
9. Check weights of all plate loads.
10. Empty ion traps and clean excess flux from all magnets.
11. Sweep all IFT'S and empty IFT cans.
12. Check and if necessary instal new beaters in mixers.
13. Clip new lambswool on all buffers.
14. Check licences of drivers and renew if necessary.
15. Check linears with ruler.
16. Fit new hoppers on all feeders.
17. Look down all flat transmission lines for reflections.
18. Check taste of PI output with product detector and mop up any splatter.
19. Check that rate of PI output matches feed lines.
20. Grind seats of all standing waves.
21. Discard all out of date complementary output stages.
22. Keep more than one ion in the fire at all times.
23. Replace all spent 'T', 'Q', 'Z', gamma matches.
24. Check high and low beams for distance.
25. Dust and replace all images at a standard frequency.
26. Count quads.
27. Make sure that all guys are tight and all plate circuits are loaded (suggest a bus bar for this). Beware end effect.
28. Tighten lids on biscuit containers.
29. Oil all crystal locks.
30. Dredge all net channels.

FROM WIRELESS & C. NEWSLETTER.

**** Page 3 ****

WOLLONGONG

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A NOTE TO VK2PG

If the callsign above looks familiar, then you are someone we would like to see. A month or so ago, VK2PG (sorry but we didn't get his name) gave us an article for the magazine. This included a beautiful drawing of the circuit that goes with the article.

Unfortunately, the article and drawing have gone astray in our piles of information. We still have all the words on computer, but we have no copy of the drawing. Can you please bring one along to the club meeting, or get it to us somehow? Then we can try to put it in again. Thanks!

DOTC QUESTION

Editor's note: Due to a mix-up last month, in which a few pages disappeared between printing and layout, the DOTC question was not included. (Did anyone miss it?) Here, then, is last month's article:

Last time we ran a question, Keith VK2OB asked us the following: What sort of signals does a linear repeater station accept?

The answer was (C) SSB, FM and CW signals. A linear repeater copies exactly what it hears, and so is independent of mode.

VK2RAW, however, is an FM only repeater (or variants of FM), because it demodulates the incoming signal and then modulates it again to retransmit. This means that it needs to know how to demodulate, and to do this you need to know the mode. And you can't use CW because of the tail.

This month, Keith VK2OB asks you this one:

Which of the following L-type filters is the best band-stop filter:

- (a) Series resonant LC circuit in series with the load and parallel resonant LC circuit in shunt.
- (b) Parallel resonant LC circuit in series with the load and series resonant circuit in shunt.
- (c) Series resonant LC circuits in series and in parallel with the load.
- (d) Parallel resonant LC circuits in series and parallel with the load.

REMINDER

Don't forget the upcoming Annual General Meeting in July. Start training now for a position on next year's committee. Then you can show everyone how the Society should be run (or how to run a broadcast, right Peter VK2KHE????).

RADIO EQUIPMENT

Coming up for sale at a meeting in the near future will be some radio equipment from the deceased estate of Geoff Isaacs. This equipment will be catalogued and priced fairly by the committee. No ridiculous offers will be entertained.

Geoff was a member of our club and went thru the tech course with Keith VK2OB.

Some equipment available will be:-
Azden 2m FM t'ceiver
Kenwood TS520

Electrophone UHF CB
Uniden AX144 CB
JEL Tribander
MARC Communication Receiver
power supplies
morse keys

various helical antennas
Some home brew equipment will be auctioned at a meeting in the near future. Some stuff includes:-

home brew GDO
" " ATU's

partially constructed kits and general shack stuff.

HOME BREW NIGHT

Next meeting is the Home Brew night. Everyone wants to see what everyone else has been up too.

Anything that you have made, modded, added too, changed, remade, do other things, what ever, bring it along and tell us about it.

Have you got something that doesn't work quite right or are having a problem with a bit of it? Bring it along and I am sure that someone will be able to help you.

Calling All Amateurs

It's time to visit your local
Market at BULLI if you need :-

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QUOTE OF THE MONTH

I hope we haven't run this before. I don't think so.

"The human brain commences working at the moment of birth, and never stops, until you transmit on 146.250MHz."

For those who hadn't remembered, you have to transmit offset to a repeater.

"This type of failure is difficult to accurately predict in advance." - a certain electrical engineer who shall remain nameless to protect his guilt.

Compiled 26/5/91
 VK2RAW- The large bank of batteries on Mt.Murray appeared to start failing around the 13th of May. The pitch of the ident dropped to its lowest whenever the sun went down. By the end of the week the voltage got so bad that both RAW voice & RAH rxer system were shut down each evening till the next morning. If the battery voltage was allowed to drop too low the equipment could become unreliable and the remote control of the site systems could be lost. The decision to shut down a repeater is not taken lightly, but the chance of losing control of the site is of more concern. Unfortunately, due to commitments, no one could get up to the site the following weekend to attend to the problem. The WIA broadcast Sunday morning brought the battery voltage right down. Fortunately it was a sunny day so the system was probably running on the power from the solar panels. The evening broadcast would have been disastrous, so the decision was made to relay the broadcast on 7275 instead. This appeared to work well.

Late Monday arvo 20/5/91, Ken TKE was able to make a trip to Mt.Murray after finishing work. So in the dark, cold and very foggy conditions, he carted the 6 replacement cells up the hill & brought the failed set down. Later checking found that one cell had totally collapsed and another was on the way out. A BIG THANKYOU to Ken for his trip to the site. Remember he did the exchange in almost total darkness and by himself.

VK2RIL- Just recently some pager bleeps and blops have been coming thru 7275. The interference appears to happen more often in the evenings. A site inspection will be necessary to see if something has been changed or installed. Let's hope this can be rectified soon.

VK2RUW- We have received an official letter of request from the Goulburn Amateur Radio Society to link our VK2RUW with their VK2RGN on 438.325. A letter of confirmation has been sent to them following the approval of our club members at the April meeting. The control board to interface RUW with

the link T'ceiver is presently being built. Many design considerations had to be taken into account. These were made more difficult by our desire not to take RUW off the air to hook up the system on the bench. This means allowances have to be made in the design to allow for variations between the theory on the circuit diagram and what will be found when actually hooking up the wires at the site.

Much communication has already taken place between myself and my counterpart in Goulburn, so that when we finally go to turn the equipment on at each end, they will hopefully communicate with each other. By the time you read this, work will be well under way.

At first the repeaters will be continually linked. This will be a "test period" to check if the system works and to gauge the response from the users both here and in Goulburn. In the future, a DTMF decoder will be installed to remotely open and close the link. This will be further complimented with a tail beep, to indicate when the link-thru is open. If you don't have DTMF on your rig, a simple inexpensive encoder can be built with a handfull of components. If the link-thru is closed and Goulburn calls it will automatically be opened, so the need for you to have DTMF is not all that important.

Favourable reports on RUW's coverage from both inside and outside our area are still being received. All very pleasing.

By the way, the light globe in the cubicle seems to be doing the trick keeping RUW's squelch warm. The has been behaving itself for quite a while now.....touch wood (lend us your head for a sec Ray. ED). Lyle ALU has donated 3 small 100w/240v cubicle heaters which will be pressed into service soon with thermostat control.

VK2RAH- The 10m repeater is still working well. The need for still improving the receiver is apparent. Further to this, a second receiver site elsewhere to Mt.Murray and Knights Hill is being looked at. This will give the repeater a form of diversity reception and would greatly improve the ears of the system. If anyone has any ideas on converting 70MHz low band VHF radios to 29MHz PLEASE contact me. We are fighting an uphill battle to further improve our converted CB receiver.

Soon the callsign VK2RAH will cease to exist. DOTC have accepted our proposal to combine repeater licences to save our club money on licences.

The 10m repeater will be contained under the callsign of VK2RUW.

A quick run down of our repeater systems:-

* VK2RAW - Mt.Murray
146.850 MHz -Voice

147.575 MHz Digl
(frequency soon to be changed and also to be linked to the 70cm Rose back-bone).

29.520 MHz Rxer
(linked to Knights Hill on 70cm).

* VK2RIL - Sublime Point
147.275 MHz -Voice/RTTY

* VK2RUW - Knights Hill
438.225 MHz -Voice
(soon to be linked to Goulburn via VK2RGN).

29.620 MHz -Txer Voice
(Receives Mt.Murray on 70cm).

Till next time:- Rob - VK2MT

AVAILABLE CALLSIGN

The club's call sign as you should all know is VK2AMW. No one at the last committee meeting was able to say whether it had any special significance or whether it was just the call sign that was given to us when we applied for a club station. If there is, please let it be known at the next club meeting.

The reason for this is that the "I" series of call signs has been released and as this is being written, the call sign of VK2 IAR is available i.e.

VK2 Illawarra Amateur Radio.

If anyone can see or tell us why we should not change the club call to VK2IAR, it will be voted on at the next meeting and if passed and the call is still available it will be done.



C.W. ABBREVIATIONS

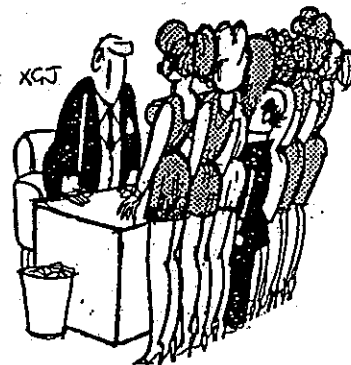
When using the Morse Code, abbreviations are useful to speed communications. Always use abbreviations sparingly when contacting an operator of unknown experience and ability. Below is a list of standard CW abbreviations.

AA	All after	GND	Ground	SED	Said
AB	All before	GP	Ground plane	SEZ	Says
ABT	About	GUD	Good	SIG	Signature; signal
ADR	Address	HI	The telegraphic laugh; high	SINE	Operator's personal initials or nickname
AGN	Again	HR	Here; hear	SKED	Schedule
ANT	Antenna	HV	Have	SRI	Sorry
BCI	Broadcast interference	HW	How	SVC	Service; prefix to service message
BCL	Broadcast listener	LID	A poor operator	TFC	Traffic
BK	Break; break me; break in	MA, MILS	Milliamperes	TMW	Tomorrow
BN	All between; been	MSG	Message; prefix to radiogram	TNX-TKS	Thanks
B4	Before	N	No	TT	That
C	Yes	ND	Nothing doing	TU	Thank you
CFM	Confirm; I confirm	NIL	Nothing; I have nothing for you	TVI	Television interference
CK	Check	NM	No more	TVL	Television listener
CL	I am closing my station; call	NR	Number	TX	Transmitter
CLD-CLG	Called; calling	NW	Now; I resume transmission	TXT	Text
CUD	Could	OB	Old boy	UR-URS	Your; you're; yours
CUL	See you later	OM	Old man	VFO	Variable-frequency oscillator
CUM	Come	OP-OPR	Operator	VY	Very
CW	Continuous wave	OSC	Oscillator	WA	Word after
DLD-DLVD	Delivered	OT	Old timer; old top	WB	Word before
DX	Distance, foreign countries	PBL	Preamble	WD-WDS	Word; words
ECO	Electron-coupled oscillator	PSE	Please	WKD-WKG	Worked; working
ES	And, &	PWR	Power	WL	Well; will
FB	Fine business; excellent	PX	Press	WUD	Would
GA	Go ahead (or resume sending)	R	Received as transmitted; are	WX	Weather
GB	Good-bye	RAC	Rectified alternating current	XMTR	Transmitter
GBA	Give better address	RCD	Received	XTAL	Crystal
GE	Good evening	REF	Refer to; referring to; reference	YF (XYL)	Wife
GG	Going	RIG	Station equipment	YL	Young lady
GM	Good morning	RPT	Repeat; I repeat	73	Best regards
GN	Good night	RX, RCVR	Receiver	88	Love and kisses



"I think this campaign's going to be fought on a big scale."

THE I.A.R.S. ON
A FIELD TRIP



"Head office has given me the difficult task of making one of you redundant."

ROSE

John XGJ informs us that the TNC for the Rose system has returned to John's QTH with a few new black things with silver legs in it. It will be reinstalled as soon as John can get himself up the hill to put it their.

X'TALS

Have you had trouble getting x'tals, or getting them for the right price?

BEACON X'TALS in South Aus has a fair deal going. About a week turn around and \$14.40 inc tax + \$3.00 p.p. The gentlemen's name is Noel.

Beacon X'tals can be found at
24 Stanley st
leabrook S.A. 5068
Ph 08 3323031
Fax 083328591

See Jack at

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Another Way Of Communicating.

Some members may not be aware that there currently exists in the Illawarra area Other means of Communicating over the Phone other than talking. They are called Bulletin Boards. There are several operating in the area two of which are operated by members of our club. The I.B.B.S. Operated by John Simon VK2XGJ will be celebrating its 7th year of operation next month, and is the longest established Board in the area. John is well known on the Packet Scene as one of Leading exponents of Packet radio and he has currently a Packet BBS set up at his home. Our reporter tells us that he is currently working on setting up a multi port Packet BBS which when completed will allow Packet to be used with " Flying Mailboxes" as they pass overhead. The other Board in the area is The Outer Limits BBS operated by Bill VK2JBS and has only been on line for a couple of weeks. All you need to connect to these systems is a computer and a phone Modem. So if you want to try another mode of communicating give it a try. The boards can be contacted on the following numbers. IBBS--- 618230
The Outer Limits----265270.
Were sure both John and Bill would be pleased to welcome you to their systems.



THE HONEYMOON WON'T
BE A PROBLEM. WE ARE
GOING SOMEWHERE WHERE
THERE ARE NO REPEATERS.

WAVEGUIDES

Those of you who were at Lyle's Microwave demonstration night last year will remember waveguides - hollow copper tubing that waves travel down. A bit of technical stuff on waveguides follows for those who might be interested.

Waveguides are another method of transferring AC power (such as radio waves) from one place to another.

How does it work? A waveguide is a hollow copper tube (usually rectangular section, but they don't have to be). Currents are made to flow in the walls of the guide, which set up alternating electric and magnetic fields in the airspace inside the guide. These alternating fields take the form of waves and allow waves to propagate down the air inside the guide. The waves don't travel down the copper walls.

Are they any good? Well, at 1GHz, RG-213 coax has around 9dB of loss per 100 foot length. Use 7/8 inch Heliac and this goes down to 2.2dB per 100 feet. Use a waveguide and the loss is only 1db per 100 feet. Remember that dB is a logarithmic scale and this is indeed an achievement.

OK, so why are we wasting our time at VK2RAW with that Heliac stuff? Why not use some waveguide - it must work even better at 2m?

Unfortunately, a waveguide's size must be arranged for the frequency. To operate at 144 to 148 MHz, a rectangular guide would be about 1.2 by 0.6 metres. And it must be made of conductive material (like copper). Somehow I doubt that the tower would hold it up. Oh, well, back to the Heliac.

But at frequencies above 1GHz, the stuff is quite useable, and is better suited to transmission than coaxial cable (unless you buy the VERY expensive stuff).

VIMCOM

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AND YOU KNOW THE NAME
AND YOU KNOW WHAT WE
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AND HELP YOUR CLUB.

Call in and see us at:-

131 Kenny St
Wollongong

(right down the southern end)

Ph. 284400

CLUB STOREROOM

As you may or may not have noticed the club storeroom has great loads of stuff in it which will make it extremely difficult to set up a club station within its confines. To solve this problem the committee decided to have a clearance sale at the home brew night, which is next meeting. Basically no offer will be refused, so if you need a printer form your computer real cheap, there are a couple of going deckwriters. If they are not sold whole they will be wrecked and components sold. They have excellent caps for power supplies in them. There is other stuff in there with many usefull bits in them. If you don't snap them up, they are going to the dump. GOT IT!!!

The Illawarra Amateur Radio Society Inc.

NOMINATION FORM

FOR THE ELECTION OF CLUB OFFICES

I A Member Of The Illawarra
Amateur Radio Society Inc Nominate The Following People For The
Vacant Committee Positions.

Nomination
Accepted.

PRESIDENT: _____

VICE PRES: _____

SECRETARY: _____

TREASURER: _____

THREE ORDINARY MEMBERS:

I _____ a member of the Illawarra
Amateur Society Inc. Second The Above Nominations For The
Committee Vacancies.

Dated ----/----/1991.

OST BOX -ALL MAIL CAN BE SENT TO "THE ILLAWARRA AMATEUR RADIO SOCIETY" AT PO BOX 1838, WOLLONGONG, 2500.

EPEATERS -VK2RAH - 29.520 VOICE HF Mt MURRAY RX
29.620 KNIGHTS HILL
-VK2RAW - 146.850 VOICE VHF Mt MURRAY
-VK2RIL - 147.275 VOICE/RTTY VHF SUBLIME Pt
-VK2RAW - 147.575 PACKET VHF Mt MURRAY
-VK2RUW - 438.225 VOICE UHF KNIGHTS HILL
(OFF AIR) -VK2RIL - 438.725 VOICE/RTTY UHF SUBLIME Pt

ROADCAST -IS ON SUNDAY EVENING AT 6.45pm, IN RTTY MODE,
TRANSMITTED ON 147.275 AND RELAYED ON 3.618 MHz +/-
QRM. CALL BACKS TAKEN IMMEDIATELY AFTER. VOICE
BROADCAST HELD AFTER WIA RELAY ON 146.850 MHz
(VK2RAW) AND 3.618MHz +/- QRM.

IA RELAY -ON 146.850 MHz AT 10.45am AND 7.15pm EACH SUNDAY.

EWS LETTER -PUBLISHED EACH MONTH TO REACH ALL FINANCIAL MEMBERS
IN THE WEEK PRECEDING THE CLUB MEETINGS. ARTICLES
AND LETTERS ARE VERY WELCOME.

EMBERSHIP -\$15.00 P.A. CONCESSIONS \$12.00 P.A.

AWRENCE -VK STATIONS REQUIRE 10 CONTACTS WITH IARS MEMBERS.
ARGRAVE OVERSEAS STATIONS REQUIRE 5 CONTACTS. ONE CONTACT
WARD WITH THE CLUB STATION VK2AMW IS SUITABLE. DETAILS
OF CONTACTS ARE TO BE SENT TO THE CLUB SECRETARY.

TORE -THE CLUB STORE IS OPEN AT EACH MEETING.

***** COMMITTEE *****

RESIDENT -VK2KWG - KEN GRIMM
ICE PRESIDENT -VK2KEY - PAT JORDAN
SECRETARY -VK2KCV - PAT KENNEDY
ASSIST SEC -VK2XSV - VIC HEE
TREASURER -VK2TKE - KEN GOODHEW
ASSIST TREAS -VK2KHE - PETER TOMLIN
COMMITTEE -VK2MT - ROB McKNIGHT - VK2XSV - VIC HEE
-VK2FPN - PETER READ - VK2XGJ - JOHN SIMON
-VK2KLH - BRIAN CLARKE - VK2KHE - PETER TOMLIN
EPEATER PRES -VK2MT - ROB McKNIGHT
EPEATER COMM -VK2KHE - PETER TOMLIN - VK2XLA - GRAEME EAST
-VK2TKE - KEN GOODHEW - VK2XGJ - JOHN SIMON
-TOM JEPSON - VK2KLD - LES DAVID

-VK2TPH - PHIL HOWCHIN
-VK2JBS - BILL STONE
-VK2GID - GRAHAM DENNEY
-VK2MT - ROB McKNIGHT
-VK2KHE - PETER TOMLIN (That will bring trouble
-VK2AXI - BRIAN WADE
-2APHOD (VK2XQX, VK2JBS, VK2GID)
-VK2DSH - DALE HUGHES -VK2XCC - RAY BALL
-VK2XCC - RAY BALL
-VK2DYU - BILL CHADBURN
-VK2XSV - VIC HEE
-VK2XSV - VIC HEE
-VK2OB - KEITH CURLE
-VK2ALU - LYLE PATISON -VK2OB - KEITH CURLE
-VK2CAG - GRAEME DOWSE

3L CARDS OUT
3L CARDS IN
PUBLICITY
ROADCAST
ARTOONIST
PROPAGATOR ED
PRINTERS
SOCIAL DIRECTOR
YOUTH LEADER
FORE
POWER CO-ORD
OTC LIASON
LIFE MEMBERS