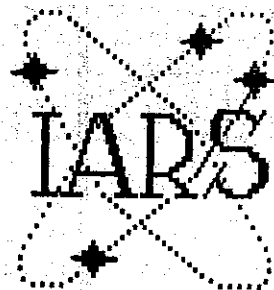


THE PROPAGATOR



ILLAWARRA AMATEUR RADIO SOCIETY

MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO SOCIETY .
VOLUME - 86 , NUMBER : 8 SEPT. 1986.
REGISTERED BY AUSTRALIA POST PUBLICATION NUMBER : NBH - 1491.

MEETINGS ARE HELD ON THE SECOND TUESDAY OF EACH MONTH ,
(EXCEPT JANUARY) AT 7.30.PM. AT THE STATE EMERGENCY SERVICES ,
BUILDING , IN MONTAGUE STREET , NORTH WOLLONGONG .

VISITORS ARE MOST WELCOME TO ATTEND THE MEETING'S .

LAST — MEETING

Thirty six members attended last months Illawarra Amateur Radio Societies meeting. The meeting was chaired by Bill VK2DYU (vice president).

After general business had been discussed Keith VK2OB (president) gave an interesting talk (with a few colour chalk drawings thrown in) on the facts and fallacies of S.W.R.

Treasurer Dave Henderson VK2YKQ/VAV, gave a run down during the meeting about the clubs incoming and out goings of funds.

An objection was raised by one of the members present regarding the charge to members who advertised in the "Propagator" wishing to buy or sell personal goods, this charge of \$1 per advert was also discussed at the committee meeting (held on the Tuesday after the Monthly meeting) and it was decided to put the matter to the members at the next meeting for discussion etc.

Also put forward at last Months meeting was the matter of perhaps raising Pensioner members fees from

\$5 to \$10 (100% rise).

The Monthly meeting ended with the usual gathering in the canteen for a "CHINWAG", and tea with biscuits.

The next Monthly meeting of the Illawarra Amateur radio Society will be on TUESDAY 9th SEPTEMBER 1986. Come along for the meeting and voice your opinions, all will be welcomed.

UNCLAIMED Q.S.L. CARDS.

The club has had the QSL-CARDS listed below for quite a long time, and has decided that any of these cards listed, that are not picked up etc; by the next meeting, will have to be destroyed.

So if your callsign is amongst them, and you want the QSL-CARDS please pick up by the next meeting.

TUESDAY 9th SEPTEMBER 1986.

QSL-CARDS available:-

VK2DZJ/VVS, VK2VVW, VK2JXM,
VK2VME, VK2PFU, VK2VOM,
VK2PCK, VK2PDT, VK2KFR,
VK2BAZ, VK2BES, VK2AIV,
VK2BHJ.

25TH — APPEAL

The appeal made to club members recently as regards our clubs 25th Anniversary (next March) as brought forth a flood of negative responses.

I cannot believe that among so many members there is no information available for this special occasion.

Time is of the essence. And I appeal again to any member with any knowledge of our Club's History to

contact either MORRY-VK2EMV or myself DAVE-VK2PZY.

To sieve through and put in to order information applicable to this special occasion, takes quite a long time. So once again please give us your help and support in trying to make this 25th Anniversary something YOU and your Club can be proud of.

REPEATER REPORT GRAEME VK2CAG

Since the new solar panel went up at Mt. Murray there appears to be enough energy available at all times to power the repeater. On the first few days the battery voltage rose to maximum during the daytime, and fell to below 12 volts at night, giving all indications of insufficient battery capacity and causing the repeater to automatically switch to low power. We visited the site a week later and set the low power switching threshold to 11.5 volts, thus forcing the battery to fully cycle between fully charged and almost flat. This has brought about a gradual improvement in battery capacity, and the voltage at night time now rarely falls below 12, and the repeater has not switched to low power for the last 3 weeks in spite of the overcast weather.

There was snow on the ground at Mt. Murray last visit on 26/7/86 and some photos were taken for the album.

At the time of writing this report there seems to be something amiss with the antenna at Mt. Murray, as the signals into and from the repeater vary in strength, especially in windy weather. If a guy wire has come adrift it would not be surprising after hearing the news of other damage caused by wind in the last storm. Another trip will have to be made to the site as soon as time and weather permit.

A plaque has been donated by Peter VK2JAM and engraved by Keith VK2OB's son. The plaque was displayed at the last meeting and will be mounted in a suitable place at the repeater site to display to visitors that the solar panel was donated by Eric P29ZEF as a memorial to the late Jim Mead VK2EJM.

Sublime Point 7275 is suffering from interference from a nearby paging transmitter. That is what is making those bleeps and blurps and rumbles coming from the repeater from time to time. The interference is non-destructive, that is, it does not cause jamming of amateur signals using the repeater, but is strong enough to trigger the repeater when it is idle, making 7275 an undesirable channel to monitor because of the annoyance caused by the interference. It occurs mainly during business hours when paging activity is most frequent. Tests have to be carried out at the repeater site to determine if there is anything that can be done to the repeater to solve the problem before any more drastic action is considered. The repeater receives on 147.875 which is very close to the pager frequency, just above 148MHz. We are luckier than some... there are repeaters sited near paging transmitters that have had to close down because of the interference from the pager. Lets hope for a satisfactory solution to our problem.

8225 70cm. repeater at Hill 60 had its transmit aerial blown off its mast in high winds around the end of July. The repeater was still functioning, but signals from it were varying as the aerial swung around in the wind, suspended partly by the co-ax. The aerial, a vertical collinear, was a temporary installation since it was broken by flying roofing iron in a storm last year. On 26/7/86 the mast was lowered and both TX & RX aerials were removed. The RX aerial (the highest one) was moved to the lower

Treasurer's Report - September 1986

There has quite a bit of concern lately about the club's financial situation. Unfortunately many of the facts circulating have been a 'load of old cobblers' (apologies to those in the leather trades!). This mis-information has been largely due to the poor state of the club's books - a situation which has now hopefully been rectified (full-wave!). I have been presenting financial reports at committee meetings, but the members on the whole, have remained in the dark (except for VK2KING whose entire shack is illuminated by the glow from his finals!). Consequently I have decided to present a short, verbal financial report to general meetings from now on.

Current membership:	Life	3
	Pensioner	16
	Normal*	89
	Overseas	2

	Total	110

* The word 'normal' is used loosely, since it could well be said that no member of the Illawarra Amateur Radio Society is normal. This would no doubt be substantiated by many XYLs.

Monthly transactions for August 1986:

Income	\$	156.00
Expenditure		127.86
Book Balance	\$	3,547.26

Budgeted expenditure to the end of this financial year (March 1987) :

Propagator costs	162.00
Lotto FRL1 costs	75.00
Refreshments	20.00

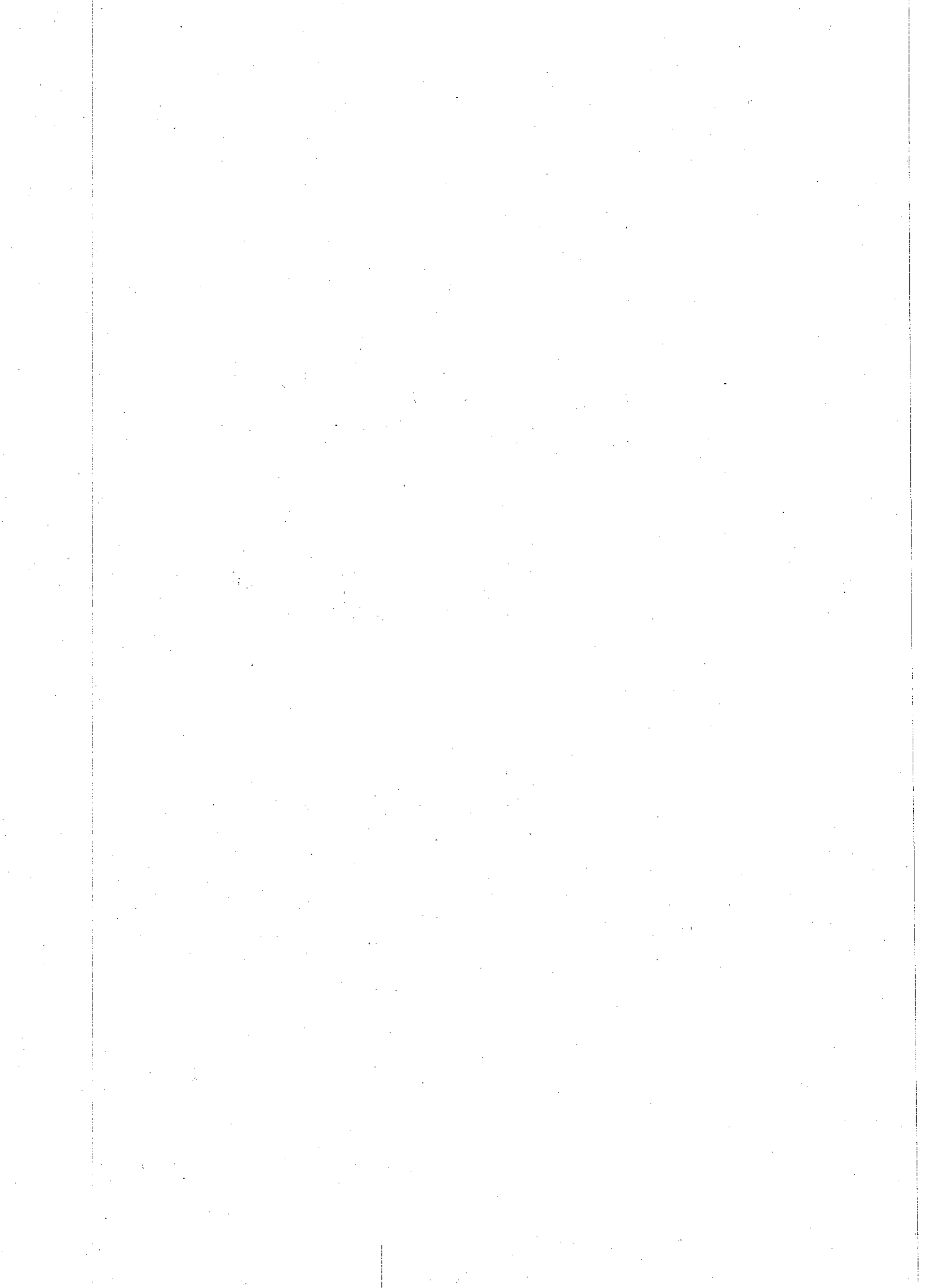
The lotto costs will be offset by the \$80 still to be collected for FRL1. The next lotto scheme will be starting shortly and if this is fully booked (as the last one was), a further \$729 profit will go into the club's coffers to take the club into the next financial year with about forty-one hundred dollars. This will be bolstered by the 1987 subscriptions to about fifty-one hundred dollars - then of course there will be further lotto schemes.....

So the club's financial situation is far from grim. In fact, we will be in a position to pay off the club's debt on the photocopier early - with little risk of leaving the club short of funds.

73

David VK2VAV/VK2YKQ

Treasurer



E.M.E. REPORT BY LYLE VK2ALU

Moonbounce Report September 1986.

Little has happened over the last month. In the latest copy of 432 and Above EME News a report from JH3EAD stated that he had heard VK2AMW calling CQ during our EME test on 28th June. He replied but only received "QRZ" in reply. This ties in with our Log. We could tell that a signal was there but he was just too far down in the noise for us to determine who it was.

Lyle VK2ALU.

REPEATER REPORT CONTINUED

position and used as the TX aerial, and a new collinear was mounted on top for receiving. The reason for this is that the new aerial has slightly more gain than the original, and is a better match to the co-ax at the receive frequency. This new arrangement has the effect of increasing the repeater's receiving sensitivity, which is desirable because it always seemed to have a better coverage from its transmitter than its receiving capability.

The whole mast at Sublime Point was rotated by almost 180 degrees in recent storm, causing the aeriels (2 element yagi) to favour Sydney and the Blue Mountains. Several stations were heard making the most of it from those areas until we re-positioned the aeriels and tightened the clamps on 10/8/86. The reduction in signal strength on the coast and the reported increase in Sydney while the mast was turned gave us a good idea of just how directional the antennas are! A new antenna system for Sublime Point is being considered now that the duplexer is on line. It will still have to exhibit a directional characteristic favouring the South, in line with State Repeater Committee requirements.

COAST-WIDE COMMUNICATIONS

LOT.B. LAWRENCE -
HARGRAVE DRV. THIRROUL

WE STOCK: CB RADIOS
CB AERIALS - COAX CABLE
MARINE RADIOS
TV - AERIALS, ETC ETC.
SALES AND SERVICE

OPPOSITE THE
SHELL - GARAGE
PHONE : 67 2134.

VK2KWN WAYNE NEWPORT

ON THE NET

27th July 1986.

VK2EMV-MORRY: (co-ordinator).
VK2MT-ROB, VK2PGL-PHILL,
VK2EDQ-LEN, VK2JAM-PETER,
VK2JNC-NEIL, VK2CWS-CASEY,
VK2PZY-DAVE, VK2ENX-TONY,
VK2IU-RALPH, VK4NHF-MIKE. QLD

3th August 1986.

VK2MT-ROB: (co-ordinator).
VK1PJ-PHILLIP QSY OFF OUR
FREQUENCY ETC ETC ??????
VK2IU-RALPH, VK22ENX-TONY,
VK2KFW-FRED, VK2DJJ-REG,
VK2JAM-PETER, VK4NHF-MIKE,
VK6II-BILL-COULD I USE THE
FREQUENCY PLS???????????????

10th August 1986.

VK2MT-ROB (co-ordinator).
VK2ENX-TONYY, VK4NHF-MIKE,
VK2B88-JIM, VK2IU-RALPH,

VK2KFW-FRED, VK2CWS-CASEY.
17th August 1986. NO REPORT.
24th August 1986.
VK2PZY-DAVE (co-ordinator).
VK4VKC-JOHN Labrador,
VK2JNC-NEIL, VK2MT-ROB,
VK2IU-RALPH, VK2JAM-PETER.

POSITIONS WANTED

WANTED: JOB PAYING \$400 per week. If you find one please phone the editor.

HANDYMAN: Available. I'm no good at doing odd jobs, but very handy - I live just around the corner.

PACKET RADIO

Packet radio had its earliest beginnings in Canada, after their regulations were changed in '78 to allow experimentation of digital data type of transmissions. A group in Ottawa devised a high data throughput system that used a very simple 2k byte protocol.

Very limited attempts were made to popularize this polled protocol but the idea was taken up by a group in Vancouver who developed a more satisfactory system that came to be known as the Vancouver protocol.

This achieved some popularity in Canada, and even spread to Australia, acquiring some devotees in Sydney and Melbourne who came from the ranks of computer enthusiasts who had found little challenge in amateur radio as it operates at present in Australia, and had turned to computers, where at the time, the scene was one of development and experimentation.

The ability to interconnect their computers together using amateur radio proved to be a real advantage.

These groups became major champions of the cause, and successfully demonstrated this system to amateurs at conventions and

club nights etc. and in so doing, created much interest in packet radio.

Some time after the protocol was launched, it was up-dated to overcome a few problems and improve things a little. This came to be known as the Vancouver type 2 protocol, V2, this left some of the adherents using what was now called V1 protocol, and some the V2.

The scene today though, is that nearly everyone is now using V2.

The Americans, meanwhile, had not been inactive, and had examined the international commercial packet protocol known as X.25 (packet type communication has been in use commercially for some time) and having modified it suitably to suit amateur requirements, designated it AX.25

Other than those amateurs living near the Canadian border, US amateurs use only the AX.25 system.

During November 1985, member countries of the IARU met in New Zealand. On the agenda was packet radio. Representatives of countries in region 3 voted to adopt AX.25 as the preferred packet protocol, with Australia abstaining.

The point of view of the Australian representative

was that packet is an experimental mode and as such, no particular protocol should be favoured.

On Sunday, 8th December 1985, the N.S.W. conference of clubs was held at Teralba. During the conference several items concerning packet were voted on.

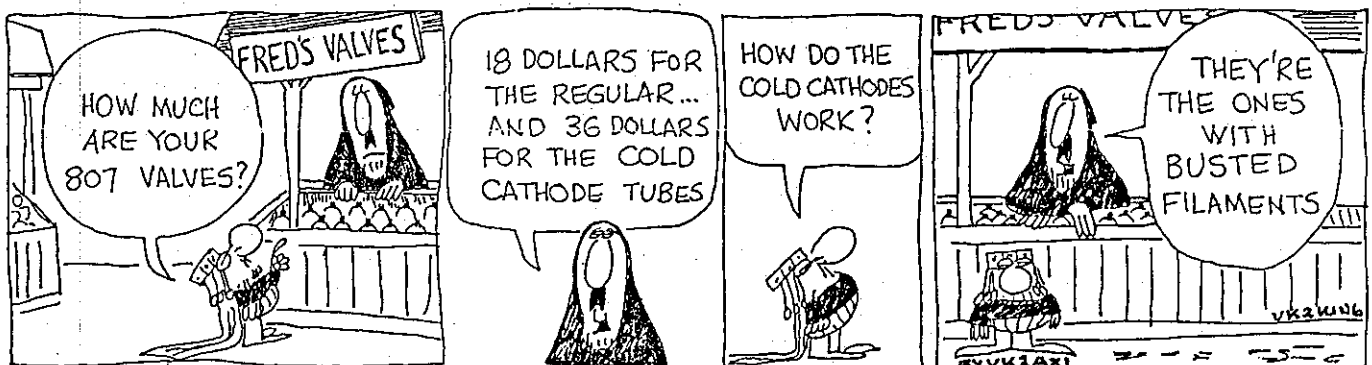
The results were:- AX.25 be adopted as the preferred protocol, (28 in favour, 18 against and 3 abstaining)

Recommended that the same H.F. frequencies as the U.S.A. be adopted, and that the CCITT standard be adopted for H.F. operation.

The Canadians are not letting the grass grow under their feet however, as updates to their protocol keep arriving and both the Melbourne and Sydney groups are actively promoting the system.

At the recent Gosford Amateur Convention, the Sydney Amateur Digital Communications Group (who use V2) produced a very convincing demonstration of high definition still picture television, in colour, transmitted via packet. Sounds like the writing is on the wall for traditional slow-scan television!

CONTINUED PAGE 6



LOCAL RUMOUR

Local rumour has it that a few years ago deer roamed the Mountains around Kiera, and that a local hunter was up on the Mountain trying to catch and take home some venison (even in those days steaks cost a

fortune).

Anyway our hunter tells the story that he had spotted this big buck alone in a clearing.

He was taking aim to fire when he noticed the big buck had tears rolling down

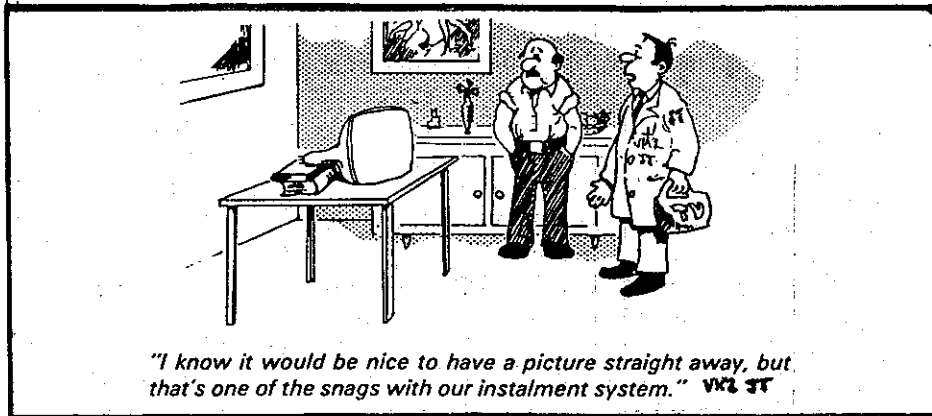
his face.

This threw our intrepid hunter way out as deep down he was a softie. So he approached the buck and to his surprise found that the buck could talk.

When the hunter asked him why he was crying, the buck told the hunter that he was crying from frustration.

He said his problem was that there were thousands of bucks on the Mountain but no Doe's. When the buck had finished his story the hunter shot him.

The moral of this sad story is:- that even if you have a few thousand bucks it doesn't follow that you have any dough thats spare.



"I know it would be nice to have a picture straight away, but that's one of the snags with our instalment system." VK2JT

OUR — THANKS

Club members I feel sure would like to extend their thanks to the two new companies who have commenced advertising in our Club paper, and in so doing have shown their support, along with our previous customers, for the Illawarra Amateur Radio Society.

Our new advertisers are J.F.E.Solution Sellers (Paul), and Wollongong Aluminium Centre (Tony).

Paul runs a computer

business from home, and has been in business for 7 years. If you are interested in computers then give Paul a ring.

He has available to Club members a Diskette with R.T.T.Y; C.W. etc on it, and has offered a FREE COPY from this Diskette to any Club member who wishes to contact him.

Wollongong Aluminium Centre (Tony) has been in business for a couple of Months and feel sure he will be well patronised by radio club members.

Let Tony know you are an Amateur Radio Operator when you give him a visit, and Tony will give you a good deal on Aluminium tubing etc.

He has large stocks of all the sizes of tubing etc that you need to build that beam you always wanted but couldn't afford, well now you can.

Good luck to both Paul and Tony and many thanks for your support.

NOT SO FAMOUS HAM INVENTIONS

- * The one-piece jigsaw puzzle
- * The inflatable Dartboard for campers
- * An Index for the dictionary
- * Waterproof Tea-bags
- * A flood-lit Sundial for night-time use
- * A Solar powered torch
- * A hairdryer that works underwater.

By VK2MT-ROB.

WOLLONGONG ALUMINIUM CENTRE

Available Ex Stock a Range of ALUMINIUM:-

- * Rectangular Hollows.
- * Round Hollows.
- * Square Hollows.
- * Flat Bars.
- * Channels.
- * Cutting Service Available *

All at COMPETITIVE WHOLESALE PRICES. Suitable for building your own antennas.

Situated At :-
79 Gipps St; WOLLONGONG
Located close to railway crossing.
Phone: 299382 or 285932.

PACKET RADIO

PART 2

Packet radio is, essentially, the transmission and reception of keyboard characters and computer data via any amateur radio transceiver, using the ASCII code. However, the big feature of this mode is that it is ERROR FREE. This fact alone places it far in advance of any mode yet devised, although there are many other features of this new technology that will become apparent as you read this book.

Unlike ordinary RTTY or ASCII, the data does not pass directly from the source to the radio or vice-versa. Instead it is routed through a terminal node controller, where the special characteristics of this mode are implemented.

This terminal node controller (referred to as a TNC) is really a microprocessor based device which is connected to a source of digital data via its RS-232C serial data port, and to an ordinary amateur radio transceiver via its radio port. Thus, it stands between the digital device and the radio.

Usually the TNC will be connected to a data terminal or computer via the data port, and all commands to the TNC as well as data to be transmitted will come from this device.

The TNC handles all the chores involved in actually sending and receiving the data, including packaging the data into bursts called packets or frames. Here now is the next feature to be considered. The on-air

transmissions of data comes in short burst. Unlike, say, RTTY where, should you wish to send a block of text containing about 600 words, your transmission would take up 10 minutes of on-air time, based on the usual amateur RTTY speed of 60 words per minute.

The same text send by packet on VHF would be transmitted at a speed of 1200 baud and broken up into 3 frames or packets. Each frame would consist of a starting signal, a synchronization signal, the call sign of the station to whom you are sending the packet, your own call sign, other control signals, the text that you typed, or at least 200 characters of it, a "frame check sequence" which is a numeric value based on the make-up of characters in the text, and finally, a closing signal.

Before you start tearing your hair out at having to type in all these various pieces of information each time - forget it, the TNC has been programmed to do it all for you! Not only that, but once having established contact with the desired station you are in a condition called a "virtual connection", which means that you are virtually hard wired to that station.

All other transmissions on the air will be ignored. There's more: your transmitter will keep on sending the first frame until it receives back from the other station, a signal with the numeric value of the text characters and only after receiving the correct signal, will it continue on with the next frame.

The number of "attempts" may chosen by the operator. The air time of the burst are measured in seconds, not minutes. Of course, one can set up their receiver to "eavesdrop" on

the traffic on air should that take your fancy.

If you stop and think about all this at this stage, you will realise that there is a lot of time spent NOT transmitting, and it is during that time that other TNC's are listening for a break in transmissions so as to send their text to their designated station.

All this takes place on the same frequency on a shared basis. This means that many contacts can take place simultaneously, on the one frequency, each block of text arriving at its own destination, error free (or not at all if the desired station is not on the air or out of range)

Should stations prove to be out of range too often, one solution is to set up a repeater on a hill.

This works like the common voice repeater EXCEPT that it receives the frame, stores it in its own microprocessor and then retransmits it immediately AFTER. Thus, the packet repeater only uses one frequency.

This may still be the same frequency that perhaps a couple of stations might be using for a simplex contact while within range of the repeater but because of them having typed the appropriate instructions before commencing their contact, the repeater knows not to take any action on that particular series of packets.

It should be pointed out also, that at the receiving station, the text is displayed on the screen, or typed out on the printer (as decided by the receiving operator) in one continuous whole as the TNC takes care of the break between packets.

CONTINUED PAGE 7

PACKET RADIO

PART 3

All these housekeeping functions of the TNC require quite a lot of computing power, so the TNC, while being very easy to construct, is certainly a product of the modern age.

The actual programme contained on board is very complex, and the simple description given here of the functions of the system cannot convey the degree of sophistication that amateur radio is about to embark on.

Exactly the same thing happened back in the '60s when someone mentioned "Sideband" and many amateurs were unable to enjoy the benefits of that new technology simply because it was new, and represented a change to their long established methods.

The same thing is making itself evident even at this early stage of packet radio and sad thing is that

it is they who become the losers in the long term.

Those to whom packet radio appeals (and that will not be all amateurs) are set to enjoy one of the quantum leaps in technology of the 20th century.

Before we close this brief description of the system, one last feature remains. That is the ability of each packet station to become a repeater in its own right. This feature is termed digipeating, and simply means

that your message may be sent to its distant destination through several home stations over the country.

This may even be done whilst the intermediate stations are unattended, however, as unattended operation is not permitted under the current regulations, the WIA are presently preparing a submission to the Department on this matter, so we should be able to enjoy this feature in the not too distant future.

taken from B.A.R.G.

GOSSIP COLUMN

We have heard via the grapevine that MR. & MRS. ROB VK2MT have recently had an addition to their family.

Congratulations to you Rob and your XYL on this exciting event.

We all wish the FOAL a happy and strong life. And at this point in time, our information was vague as regarding the FOAL'S sex.

A well known member of our Club who holds the distinguished title of VK2KING Honoured the Wollongong area recently with his presence.

Whilst in the area the King will be staying with relatives and "CASING" the area for new material to put in his cartoon strips.

Lyle VK2ALU spent a week recently as a visitor to the Jenolan Caves area.

There has been a rumour going about that Lyle made the trip to Jenolan in an endeavour to get closer to the Moon surface to get more accurate echo's back, but I

do not believe the rumour going around that Lyle took with him on the roof of his car a extension-ladder to assist him in this matter.

FOR SALE

1 X 19" Communication Rack
2 X SIEMENS PRINTERS
(No Keyboard)
1 X NCR (SMART) U.D.U.
(With Keyboard)

What offers to transfer this junk from my shack to yours - will deliver!

Contact Grahame VK2DUP
ON 044-439376...

FOR SALE

MICROBEE-321C
(32K) COMPUTER :-

WITH * Wordbee
* Telcom 1 (modem)
PLUS * TP-40 Printer, Plotter.
* Green scr-monitor
* Aytek Multi prom interface (in kit form-not made up)
* ETI facsimile decoder (in kit form not made up)
* User manuals and articles

* Technical manual (worth Gold)
* Hackers handbook.
* Some games

NO Reasonable offer refused and will deliver if required

CONTACT: GRAHAME VK2DUP
ON 044-439376

OR SEE ME AT THE
L.A.R.S. MEETINGS

NEWTEK-

ELECTRONICS

WE STOCK:

ALARMS - ANTENNAS
BOOKS - BOXES
COMPONENTS-COMPUTERS
HARDWARE - KITS - TOOLS
WIRE AND A LARGE RANGE
OF SEMICONDUCTORS FOR
THE PROFESSIONAL AND
HOBBYIST : 116 CORRIMAL
STREET. WOLLONGONG.
(JUST FROM HARP-HOTEL)
PHONE : 27 1620.

LITTLE GEM

Most test equipment and whatever powered by dry cells does'nt incorporate a pilot light , due to the increased demand for power this involves; even a LED used normally draws about 20Ma.

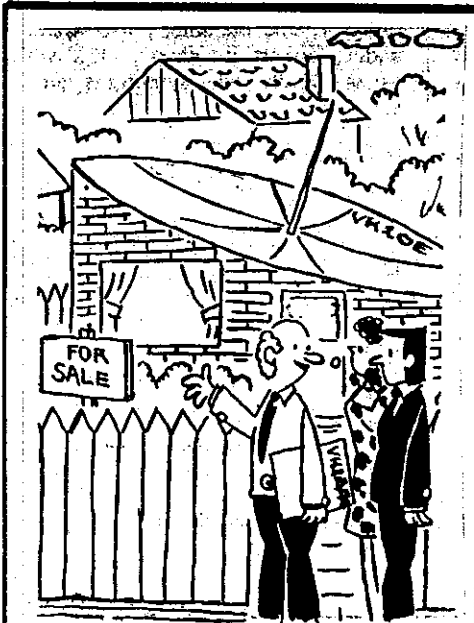
This little gem works on the principle of storing a charge and using it to briefly illuminate a LED.

The cct uses only about 450 Micro-amps, and provides visual indication that you have left your gear on.

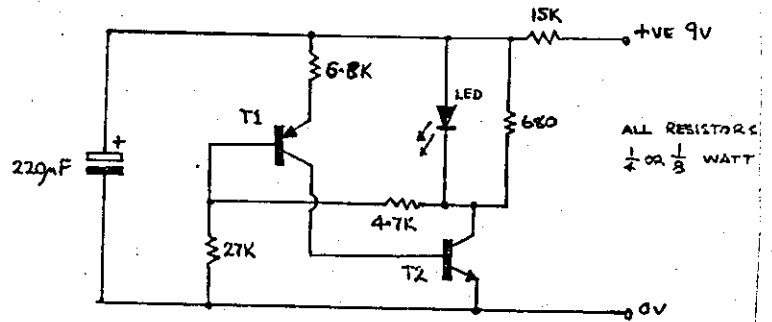
The cost of the components will soon be offset by the saving in dry cells.

The unit can be build on a bit of vero-board, and because of size, can be installed with a minimum of fuss.

It is easier to cope with than just discovering that your portable signal-generator or grid-dip has been on for a week----- and guess what ?



"Now if you're into satellite TV, this is the house for you!"



Hint:- use a green LED it's easier to see in bright light

T1 & T2 any general purpose transistor will do

eg. T1 2N3645 BC558 BC559 BC157 BC177

T2 BC109 BC108 BC107 BC547 VK3

DICK AEX.

— FOR —
COURTESY TO
AMATEURS AND
VALUE
IN
OUR AREA
NOT USUALLY
SEEN ELSEWHERE

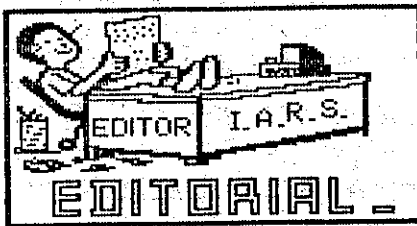
WE RECOMMEND!!!!

CAVIONS

11. MOLLOY STREET, BULLI.

PHONE: 042-84-6838

TO ALL OUR CLUB MEMBERS.



in more fund raising lists about voicing your opinions etc.

So come on you "OLD TIMERS" come to the next meeting and don't be shy, The views expressed in this column are the personal views of the editor
VK2PZY (Dave).

It had to happen, just as sure as when the government needs extra cash they slug the poor old motorist, then when our club needs to cover extra cost in its running, it wants to slug the poor old pensioner members.

As a member who is fast approaching this era myself, I have voiced my opinion against this at committee meeting, and I voice my opinion against it now.

Far from increasing the pensioners membership fees the club should be finding ways to get financial enough to have pensioner members fees abolished. (the committee will try to abolish me after this editorial).

It is to stop this type of thinking within the club that I have been trying to improve the clubs finance (in my own small way) via the propagator. This has been through looking for more paying advertisers etc within the club members as well as outside advertising.

Whilst it is appreciated that costs in running the club, (and in particular the propagator) have risen over recent times, I believe these costs could be met via such things as advertising, auctions & fund raising lists etc, such as we have going at present.

Instead of negative thinking and taking the easy way out by slugging the "OLD TIMERS", let us have positive thinking and endeavour to raise more members involved

Dont make expensive mistakes by buying blind What should you expect as a minimum when purchasing an IBM compatible?

- * Dual speed 4.77MHz & 8MHz
- * 8088-2 Processor
- * Fully socketed Mother Board
- * Socket provided for 8087 arithmetic chip
- * Eight Expansion slots (2 should only be occupied)
- * Extra sockets for ROM's
- * Minimum 640K on Mother Board
- * 135w Power Continue output
- * Built in cooling fan
- * Centronic parallel printer port
- * 2 RS-232 serial Communication port (you will probably end up with a Modem & Mouse or A/D card etc)
- * Joystick Port
- * Dual floppy Controller
- * Battery backed clock/calendar
- * Legal Bios eg. ERSO
- * 2 Quality Floppy Japanese Disk Drives as used in Sperry, IBM, Olivetti etc .
- * An on site Warranty & Insurance must be available from Computer Shield or Hills Industry (Nationally protected).
If these companies dont offer maintenance on the machine you are purchasing then forget it, Companies only offer maintenance contracts on machines they believe are reliable.

PHONE J.F.E. SOLUTION SELLERS.

We have been selling Computers since 1979 as a family run business where Personal Service is a —(PRIORITY)—
Mon - Fri 7.30 - 9.30pm. Phone: (042) 61-5451.
OPEN FOR BUSINESS ALL WEEK END

SO THE STORY GOES

A drunk was staggering down the main street of the town. Somehow he managed to make it up the steps to the cathedral and into the building where he crashed from pew to pew finally making his way to a side aisle and into a confessional box.

A priest had been observing the man's sorry progress and figuring the fellow was in need of some assistance, proceeded to enter his side of the confessional box.

But his attention was rewarded only by a lengthy silence.

Finally he asked, "May I help you my son?" "I dunno", came the drunk's voice from behind the partition, "You got any paper on your side?"

HEARD ON THE DURAL REPEATER

"My eldest Son's just became an Actor you know, and he just got his first BIG part in a play". KERCHUNK.

"That's great news old man, what's he playing?". KERCHUNK.

"He plays the part of a man who has been married for 25 years". KERCHUNK.

"Oh well old boy, tell him to keep at it. Someday he might just get a speaking part!". KERCHUNK. UNUSUAL SILENCE.

By VK2MT-ROB.

A POLICEMAN who hurried to a burgled TV and radio shop asked a drunk at the scene if he had witnessed the crime.

"A big furniture van drove up and two men unloaded an elephant.

It smashed the window with its trunk, the man carried out TV sets, the elephant got back into the van and they all drove off."

"Was it an Indian elephant or an African one?" the policeman asked sarcastically. "The Indian elephant has smaller ears."

"I don't know," said the drunk. "It had a stocking over its head."

Little Johnny startled his school mates one day by writing on the blackboard the sentence: "Johnny is a passionate devil."

Not unnaturally, his attractive young teacher was miffed and made him stay in after school that afternoon.

When Johnny finally was released, his school mates flocked around him to hear what punishment had been meted out to him for his crime.

"I ain't saying nothin'," said Johnny, "except that it sure does pay to advertise."

When a draft of Wrens arrived at an isolated naval station where no woman had been seen for months, the captain warned the chief Wren of the perils her charges would have to guard against.

"Don't worry, sir," she replied, tapping her forehead, "my girls have it up here."

"It doesn't matter where they have it," growled the captain, "my sailors will find it."

GUEST SPEAKER

Guest speaker at next Months Club meeting will be VK2ALU-LYLE, he will be giving a demonstration of the measurements of S.W.R. by means of a sweep generator.

Measurements will be made at 2 metres and 70 Centimetres on antennas, and he will also show how to adjust the resonant frequencies of filter and other tuned circuits.

Lyle wants tuned circuits and antenna's brought in to the next meeting by members.

Also filters and other resonant devices to be checked for S.W.R. These checks can be made between 3.5 MHz to 438 MHz.

F.R.L.I. WINNERS

Week No:	16 C. Hartu
Week No:	17 B. Aldridge
Week No:	18 C. Proctor
Week No:	19 M. Keech
Week No:	20 D. Routledge

An airline pilot was having a routine medical checkup. Among the questions the doctor asked was, "When did you have your most recent sex experience?"

"Nineteen fifty-five," said the pilot.

The doctor showed surprise, "So long ago?" he queried.

The pilot looked just as surprised. He glanced at his watch and shrugged, "Well it's only twenty one fifty now."

● THE Japanese version of the fairy tale of Rip Van Winkle is about a fisherman, Urashima Taro, who was lured into the depths by a turtle and found himself in the service of the Goddess of the Sea. Returning home after what seemed like a short stint at her palace, he found that many years had passed and that his home village had changed beyond recognition.

The REVIEW's regional editor, Susumu Awanohara, who has spent most of the past eight years working for us in Singapore, Jakarta and Hongkong, felt a little like Urashima Taro when he returned to his native soil of Japan on a recent trip. What was new was not so much the electronic and computer technology itself, but the single-minded application of it.

● CITY centres feature computer screens offering a cascade of information — and not only function as shopping, restaurant and entertainment guides. Passers-by can read the latest news as purveyed by the newsagency or newspaper of their choice, book seats on trains months ahead or be guided to places of interest, where they can arrive helped by a map and armed with the relevant local history.

Many of the computers are without keyboards or buttons; The seeker of information must simply touch the correct command on the screen. And anything which appears on it can be printed out almost instantaneously. Most of these services are free, but for a small fee at the local railway station an unemployed person can find a job for the day, or longer, first scanning and then gradually narrowing down the options according to the line of work, hours worked, geographical area, desired salary, and so on.

● SUSUMU was familiar with the ¥5,000 or ¥10,000 cards for train rides (good for multiple use until the amount is used up) and of course, the similar public telephone cards — a journalist's dream, particularly if he has to make frequent long-distance calls while working from outside the office. Now large-denomination cards are available for the ubiquitous pachinko (pin-ball) parlours as well. The automation of this largely mindless national pastime had already made it unnecessary for the player even to use his thumb to flick the balls up into the maze of traps and holes, removing the dextrous element of skill which was the game's only point. Now that the player does not even have to feed coins into the slot, it is even more difficult to explain why so many people spend so many hours crouched among banks of these machines. The noise is soporific, it is said.

Coffee-vending machines are now equipped with digital displays which inform the thirsty how many more seconds will elapse before the machine

stops pouring and the paper cup can be picked up. In hotels and expensive restaurants, urinals are equipped with infra-red sensors which bring automatic flushing after each use. Toy robots also use infra-red so that they will follow the master.

● WE have all seen diagrammatic maps of underground railway systems in the world's major cities, naming stations on the line and illustrating intersections. In Tokyo now, some lines have such electronically operated maps, with a glowing red light marking the passenger's whereabouts, while a green arrow indicates his next stop. A similar display can be found at some bus stops, which indicates when the next bus leaves the previous stop and is on its way.

● SOON the electronic information will be for gaijin too. I'm sure. Meanwhile, Tokyo's famous meeting place — in front of the Shinjuku railway station — boasts an old-fashioned message board, with personal messages scrawled in coloured chalks. But another message board is hi-tech: it is the exact reproduction of that at Shinjuku at another station along the Keio line — with the messages transmitted by optic fibre.

Technology changes, but messages don't. An irate fellow wrote at 4 p.m. on one recent afternoon: "Kyoko, I've waited for you since 3:15."

● WELL, some messages change. Over the years I've seen many extracts from Japan's first highway code but, thanks to Alice Greenway, I can now supply the full version of the rules of the road put out in Pyongyang, Korea, by then Japanese colonial authorities.

Motor Car Regulations

Pyongyang 1917

▶ You must drive your automobile at the rate of 8 knots (20 miles) per hour on the city road and 12 knots (25 miles) on the country road.

▶ In narrow place of corner and bridge speed slowly.

▶ When you see the policeman throwing up his hands you must not pass in front of him.

▶ When you pass the corner and the bridge ring your horn.

▶ When you get ahead of the passenger on foot or the cow or the horse you must ring your horn.

▶ When you meet the horse and the cow speed slowly and take care to ring horn and not be afraid of them.

▶ Last year the rule was: "Drive slowly when you meet the horse and the cattle, do not make them afraid and carefully make the sound. If they afraid the sound you must escape a little while at the side of the road till they pass away."

▶ When you drive the motor car do not leave from the driver seat and take care lest unexpected trouble happen.

▶ Do not drive the motor car when you get drunk and do not smoke on the driver seat.

▶ When two cars are driving in the road if there is another car in front of you or behind of you you must keep 60 yards away from him. If you go ahead of him ring horn and pass him.

▶ When you cross the railway wait until the train and other cars pass through.

▶ The front of the automobile must have two lamps to shine 60 yards away. The behind lamp of car must be seen from 60 yard point.

▶ When anything the matter with your car you go police office and tell him.

▶ If you have permit, to drive do not give to other man.

▶ When you want to have a driver or exchange another you must enclose driver's address, career and age.

▶ You must always write number in your automobile. The wide of the before number is 3 inches and long is 4 inches. The wide of the behind number is 4 inches and the long is 5 inches.

▶ Special notice: You must never put overload on your automobile. The licence capacity of your Ford car is five persons — two in the front house and three in the back house.

Rules of the road in Japan. At the rise of the hand of policeman, stop rapidly. Do not pass him by or otherwise disrespect him. When a passenger of the foot have in sight, tootle the horn trumpet to him melodiously at first. If he still obstacles your passage, tootle him with vigour and express by work of the mouth the warning "Hi Hi". Beware of the wandering horse that he shall not take fright of you as you pass. Do not explode the exhaust box at him. Go soothingly by or stop by the road-side till he pass away. Give big space to the festive dog that makes sport in the roadway. Avoid entanglements of dog with your wheel spokes. Go soothingly on the grease-mud, as there lurk the skid-demon. Press the brake of the foot as you role around corners to save the collapse and tie-up.

● OH, those dear dead days of skid-demons, when the Japanese assumed that any car must be a Ford!

● AT a hot springs resort hotel near Mikawa, the birthplace of the great shogun, Tokugawa Ieyasu, Paul Hoff and family found it under renovation, with a bright new sign indicating the way to the main restaurant, where guests ate, drank and sang karaoke (it had nothing to do with organs of secretion, mini-banks or information).

宴会場

御案内

DINNER AND BANQUET HALL

INFORMATION

SUBMITTED BY VK2FE BARRY

THE ILLAWARRA AMATEUR RADIO SOCIETY

P.O.BOX 1838. WOLLONGONG. 2500. N.S.W.

MEETINGS: Are held every 2nd Tuesday of the Month except January, at 7.30 pm. in the S.E.S. Headquarters, Montague street, North Wollongong.

REPEATERS:
 VK2RAW - 146.850. - (VOICE) VHF Mt Murry.
 VK2RIL - 147.275. - (VOICE & R.T.T.Y) VHF Sublime Point.
 VK2RUW - 438.225. - (VOICE) UHF Hill 60 Port Kembla.
 VK2RIL - 438.725. - (VOICE & R.T.T.Y) UHF Sublime Point.

BROADCAST: On Sunday evening prior to the club meeting, at 7.00 pm. R.T.T.Y. Mode, and at 7.15 pm. on voice. Transmitted on 147.275 VHF, and relay on 3.562.Mhz. Callbacks will be taken after the voice broadcast.

W.I.A. RELAY: On 146.850. at 11.00 am. and at 7.30 pm. each Sunday.
CLUB - NETS: On 3.562.Mhz. SSB on Sunday at 8.00 pm. and a slow morse net on 28.440.Mhz. on Tuesday evenings at 8.00 pm.

NEWSLETTER: "THE PROPAGATOR", published monthly to reach FINANCIAL-MEMBERS in the week preceeding the club meeting. All articles, adds etc, to the editor must be in, or try, by the 3rd Tuesday each month.

MEMBERSHIP: The Secretary, I.A.R.S., P.O.Box.1838. Wollongong. 2500. Full membership is \$10 per annum; students & pensioners concessional members \$5 per annum.

AWARDS: The award of the Illawarra Amateur Radio Society is the LAWRENCE-HARGRAVE-AWARD. VK stations require 10 contacts with I.A.R.S. members. Overseas stations require 5 contacts with I.A.R.S. members. A contact with VK2AMW is sufficient for the award. Band-details, date, frequency, station worked and \$2 or 4 I.R.C.'s. to THE AWARD-MANAGER, I.A.R.S., P.O.Box. 1838. WOLLONGONG. 2500. No QSL-CARD is required.

STORE: The club store operates at each club meeting. by COMMITTEE-MEMBERS.

COMMITTEE:

PRESIDENT VK2OB - KEITH CURLE. 24. Beach Drv, Woonona.
 VICE-PRESIDENT VK2DYU- BILL CHADBURN. 45. Beltana Ave, Dapto.
 SECRETARY VK2EJH- JIM HAYES. 1 Kathleen Cres, Woonona.
 TREASURER VK2VAV-YKQ-DAVE HENDERSON. 8. Gladstone st. Bellambi.
 AUDITOR VK2ZHU- GEOFF CUTHBERT. 1 Nioka Ave, Kieraville.

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 VK2ALK- LES KIRCHMAJER. VK2DWR- DAVE ROUTLEDGE. VK2JAM- PETER WOODS.
 VK2OE- WOJCIECH TOMCZYK. VK2BMH- MARTIN HUTCHINGS.

REPEATER - CHAIRMAN: VK2CAG - GRAEME DOWSE.

REPEATER - COMMITTEE: VK2EXN - IAN CALLCOTT. VK2EMV - MORRY. v. d. VORSTENBOSCH.
 VK2DFK- MIKE KEECH. VK2MT- ROB McKNIGHT. VK2JAM- PETER WOODS. VK2EZY- DAVE COLLESS.

QSL-CARD'S OUT : VK2EXN - IAN CALLCOTT.

QSL-CARD'S IN : VK2DWR - DAVE ROUTLEDGE.

E.M.E. CO-ORDINATOR: VK2ALU - LYLE PATISON.

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LIFE - MEMBERS : VK2CAG- GRAEME DOWS. VK2OB- KEITH CURLE. VK2ALU- LYLE PATISON

SUNDAY - 'EVENING - CLUB-NET - ROSTER:

FIRST SUNDAY OF THE MONTH : VK2MT - ROB McKNIGHT.
 2nd SUNDAY OF THE MONTH : VK2ENX- TONY MOWBRAY.
 3rd SUNDAY OF THE MONTH : VK2PZY- DAVE CAPON.
 4th SUNDAY OF THE MONTH : VK2DWR- DAVE ROUTLEDGE.
 5th SUNDAY OF THE MONTH : VK2EBI- KEVIN MURPHY.