



THE PROPAGATOR

MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO SOCIETY.

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

CLUB STATION VK2AMW. CLUB 2m REPEATER VK2RAW.

I.A.R.S. is a Member Club of the Wireless Institute of Australia.

<u>PRESIDENT.</u>	<u>SECRETARY.</u>	<u>EDITOR.</u>
Jim Potts, VK2BBG, 14 John St., WOONONA. 2517.	Brian Boseley, VK2BCI, Figtree Hotel, FIGTREE. 2525.	Ian Bowmaker, VK2ZJA, 15 Akuna St., Keiraville. 2500.

MONTHLY MEETING. Held on the Second Monday of each Month,
at 7.30 pm, at the Wollongong Town Hall Meeting Room.

I.A.R.S. MONTHLY BROADCAST.

The Monthly Broadcast takes place on the Sunday preceeding
Meeting night each month, at 1915 Hours EAST.

Frequency used by VK2AMW for the broadcast is -

Repeater Channel 5, or Simplex Channel 40.

Relay by Brian, VK2BCI, on 28.460 MHz.

JUNE 1978

Members are advised that the Monthly Meeting of the Illawarra Amateur Radio Society will be held at the Wollongong Town Hall Meeting Room at 7.30 pm on Monday 12 June 1978.

AGENDA

1. Apologies and welcome to Visitors.
2. Minutes of previous Monthly Meeting.
3. Correspondence.
4. Financial Report
5. General Business
6. FILM

FILM FOR JUNE MEETING

This month again we are going to try another film which this time is a more recent production.

The committee is looking at getting more interesting lectures etc., for your entertainment on the meeting night, We are also considering a couple of Trade Displays as these seem to have been popular in the past.

Again if any member knows of any person who would be prepared to give lectures etc., please contact any member of the committee.

The President Writes

As Winter comes many amateurs will be abandoning the cold of the shack for the warmth of the living room. There, plans and circuits are born and reborn, mulled over, modified and put into the waiting file. And so it goes on, year after year, waiting for the warmer weather, the windless day, the spare time. And while we wait, the world changes. Sometimes quickly, sometimes slowly but always changing. So it is with Amateur Radio. New faces, new callsigns, new techniques and equipment. So much to be done, so much to learn, so much to try. Each amateur is involved in one or more of the endless activities which make our hobby so fascinating. And yet whilst we are all involved in different areas, we have one thing in common. The desire to communicate with different people trying different techniques.

The Citizens Radio Service has been with us for some time. For better or worse, it remains a starting point for many future amateurs. How many future amateurs come from this and other areas, depends upon the communities awareness of amateur radio. Not only its existence, but its utility. The days of "we're here because we're here" have gone. We can no longer look down our noses at the uninformed public. For without that public, amateur radio will not survive the upheavals that are taking place within and without the amateur service. For that is what we must carefully cultivate, the service of amateur radio.

Service is a doing thing. Not a thinking or talking thing. The amount of time available is in direct proportion to the importance of the task. I would suggest that helping the service aspect of amateur radio is as important as tomorrow.

For these reasons, I commend the workings of your club, the WIA, the novice course at the tech, and the Wireless Institute Civil Emergency Network. Look at them carefully, they are dependent upon your service.

73's
JIM VK2BBG

Moonbounce Report - June 1978:

Plans for the move from Dapto have reached the stage of detailed estimates being made of the weight of the "dish, best method of dismantling, etc.

Reports have been received of widespread activity on 432MHz during the first EME contest in April/May, but nil heard so far of any Australian participation on this band.

Oscar Report.

Oscar 8 continues to attract stations using Mode A (2 metres in and 10 metres out), with good signal strength being easily achieved. Some difficulties have been experienced in getting reasonable signals through on Mode J (2 metres in and 70cm out)

Oscar 7 Mode B (70cm in and 2 metres out) is still quite popular.

My Oscar system has now been modified to provide simple and I hope, more effective changes between Mode B and Mode J operation. The receiver decoupling problem on Mode J also seems to have been overcome, so attention will be directed towards Mode J experiments.

Microwave News.

The use of crystal locked equipment on 10GHz is being contemplated. This band lends itself to some very interesting experiments. Is there anyone else around Melbourne who would like to build up some useful transmit-receive gear and to use it on 10,000MHz?

Lyle VK2ALU.

WICEN NEWS

The long awaited Maritime Mobile WICEN exercise was held on Lake Illawarra on a beautiful Sunday morning. The object of the exercise was to provide communications for the power boats patrolling around the annual fun afloat event in which rafts are sailed across the lake. Communications are normally provided by 27mhz (marine). However, due to interference from the C.R.S. it was impossible to obtain emergency communications on this band. Hence the use of WICEN on an exercise basis.

Initially of course, everything went wrong. Key people were abroad, sick, or elsewhere. As the day dawned, no one was really sure how many WICEN people, and in what condition, would arrive at 6.30 a.m. But the keen ones turned up on schedule. 2AXI had left his very expectant XYL to come. ZVX left his sick bed to come. ZFO came with instructions not to come, and so on.

Base communications started to look like trouble. At first, no base. A Kyokutu and AC power supply from my boat. Then the aerial. Ever tried to put an aerial up somewhere you've never been, in a hurry? Charlie Bou zoomed home, only to find everyone marine mobile when he returned.

At last, base and mobiles. Admittedly the base operator had never spoken on the air before but with Charlie's assistance, voila, a professional. Of course no one told us that a P.A. system with records adverts etc., would be set up in our absence about 1 metre from our base. Oh joy and bliss. High power on 2M (15 watts) gave a horrible squeal. Back to low power. But the base could not talk at the same time as the announcer and he wasn't pleased with the boats who always called at the wrong time. Under the circumstances, Joan, XYL of ZKU did a magnificent job. (Did you find the lost raft, Joan?)

Highlights of the event included BBG in mid air (those jet boats really go!) ZVX showing off (no 10ghz devices on the take) AXI sitting sevenly (dazed by it all?) ZKU as the white knight in WICEN garb (he wasn't the only one) BBG giving greetings to the adoring multitudes (oh boy! They were wondering who or what I was). The noise when you're marine mobile has to be experienced, especially when high speed M.M. with one hand on the boat and one holding the rig. Anyway, I thought that the boat was supposed to be moored. (As I floated frantically into the rising sun) And the field glasses, I'm told, were to be used for looking at the rafts, not the spectators.

In conclusion, an extremely enjoyable WICEN exercise performed under difficult conditions. Stations participating were VK2's BOU, ZVX, AXI, ZKU, ZFO and BBG. Also ZKU's XYL Joan. Many thanks to all, and especially to those who remained off 146.00 during the exercise.

73's Jim VK2BBG

COMPONENTS FOR SALE

Disc Capacitors. .001, .0047, .01, .022. ... 8 cents.
.047 ... 10 cents. .1 ... 15 cents.

Electrolytic condensers, 25V, double ended.
4.7 uF ... 10c. 100 uf ... 15c.
220 uF ... 20c. 470 uF ... 25c.

Trimmer Condensers.
Wire wrap type trimmers. 10c.
PCB mounting trimmers, 3-13 pF. ... 15c.

Tantalum Capacitors.
.47 mF ... 20c. .1 mF ... 20c.
4.7 mF ... 20c. 10 mF ... 25c.
22 mF ... 45c. 47 mF ... 65c.

Coil Former, complete with can. ... 10c.
Neosid Small Balun Formers 15c.

ANTENNA BASE, 'Belling Lee' mobile type ... \$4.00 ea

METERS

S Meter 400uA 1-3/8" x 5/8" \$2.50
Level Meter dual 200uA meters; illuminated \$3.00
2" sq. 100mA centre zero meters \$6.00

Resistors

Bag of 160 1/2 watt resistors
10 each of values 10, 47, 68, 100, 220, 470, 680, \$4.00
aK, 2.2K, 4.7K, 6.8K, 10K, 22K, 47K, 68K, and 100K.

ANTENNA WIRE

Bronze alloy wire, single strand, 1.2mm diameter. See sample at meeting.
Lengths cut to order 5c/metre

In4148 - DIODE 10c
OA91 - DIODE 12c
Pair meter leads with alligator clips 30c
Four pin plug and socket pair 20c
Alligator clips - large, insulated. Red or Black 20c
Edge connectors \$1.00

WESTLAKES NOVICE MANUALS New Stock \$3.50

As can be seen the store stocks have been drastically depleted over the past month:-

Next month we will have a full near range of components for sale.

The committee is interested to know what you would like to see in the store, so if you consider a specific item would be a good seller please contact Geoff 2HV at the meeting.

< MACELEC >

**99 Kenny st. WOLLONGONG.
Phone 291455.**

Kenwood 7S820's the ultimate \$1199

7S520's most popular \$735

7R7500 2 metre mobile \$350

Hansen all new power - swr meter \$82
measures pep and rms

Novice Special: SBE Sidebander \$210
ten metre mobile - 46 ch pll

R300 communication receiver 260

A7 200 ant tuner swr 173

2 element Quad for ten and fifteen
metres. 52 ohm input \$95

Plus a wide range of test equipment
and accessories

Contact Barry Hartley VK27E

WANTED

Information on S.S.T.V. in the local area.

I require a S.S.T.V. recording to align my S.S.T.V. adaptor.
Please contact:

Peter Laughton 28 Immarna Ave., WEST WOLLONGONG - Phone 295047

FOR SALE

FT 200 complete with Power Supply and Manuals.
In full working order.

Please contact C. Headley - Phone 291052

QSL CARDS

Cards arrived in May for the following
BJL, OO, MT, DJ, NIP, ALU, ALV, AUP, BJB,
BHL, BRZ, ZBM, NNL, NJM, AYP, BLS, BHO, AHN

WANTED

3BP1 Cathode Ray Tub - preferably with Mu-metal shield.
Phone Ken on 611335 or contact Charles VK2BOZ

FOR SALE

TRIO TS511 180 W H F Tranceiver 80m thru 10m
Contact Richard Hill VK2NNL

WARNING

The W.I.A. advises that Amateurs should not take an active part in the search for jamming transmitters in the 11 metre band should the Sydney problem spread to our area. To date some 9 or 10 have been found. The latest one had trip wires connected to detonators which would destroy the equipment as well as injure the searchers.

TV CHANNEL 5A

Federal Executive has on behalf of the Amateur Radio Service submitted objections to the use of T.V. channel 5A, which is currently in use in our area. However, there is little material to support their objectives.

Would any person who has any information of problems with IVI etc please bring details to the next meeting, or contact Geoff Cuthbert VK2ZHU (Who is an alternate Federal Councillor) on 289085. We have been requested to prepare a submission as a matter of urgency.

FOR SALE

Solid State Stereo Amplifier 10 WATTS R.M.S. per channel.
Has front panel but no case. \$35 contact Barry Hartley
VK2FE Phone 291455 or 842439.

NEW PUBLICATION

As some of you may be aware a new amateur publication is now the
News stands:-

"AMATEUR RADIO ACTION" PRICE \$1.

PROBLEM

When a DOCTOR goes to a DOCTOR does the DOCTOR treat the DOCTOR
as the DOCTOR wants to be treated or does the DOCTOR treat the
DOCTOR as the DOCTOR wants to treat the DOCTOR??

ANSWER

Our editor is convalescing and Geoff VK2ZHU is producing this issue
of the PROPAGATOR.

CO-AXIAL CABLE

All of us at some time need Co-Ax. How's your supply ?
As noted above, the IARS has arranged for the purchase of cable ,
at the right price of course.

From the same source, both RG8U and RG58U cable is available.
Once again we are offering cable to members at a good price.

If you would be interested in the purchase of Co-Axial cable
please indicate to the Store Sub-committee what length and
which type of cable you would like. We need this information
as the purchase can only be made in lengths of 100m.

Below is a guide to the cable types:

Cable.	Inner Conductor.	Outside Diameter.
RG8U (UR67)	7/.029	.405 ins.
RG58U (UR76)	19/.0068	.195 ins.

Both types have capacitance of 30 pF per foot, and are
quite suitable for all VHF applications as well as HF use.

THE WIRELESS INSTITUTE OF AUSTRALIA

- INFORMATION
- EDUCATION
- FREE MONTHLY MAGAZINE "AMATEUR RADIO"
- VALUABLE MONEY-SAVING SERVICES:
 - Components, disposals, surplus gear — Magazines and books
 - QSL Bureaux — Sales and exchange facilities
- Modest membership target is 8000 for WARC 79.
- REPRESENTATION
- ADVICE
- SOCIAL ACTIVITIES
- CONTESTS
- AWARDS

GET WITH IT — GET FACTS NOW

2 Metre Fox Hunt (CH40)

A fox hunt is to be held on Sunday 18th June, commencing at 11.30 a.m. from the Lighthouse at South Beach, Wollongong. Bring a B.B.Q. lunch B.Y.O.G.

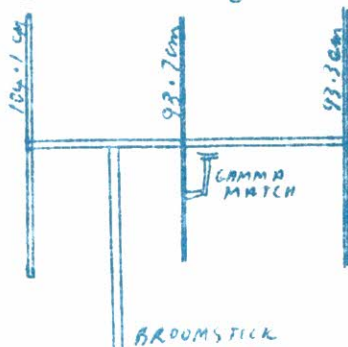
All hounds to be at lighthouse no later than 11.25 a.m. for instruction by the timekeeper.

All persons interested in participating are welcome to join in. Those without transport or receiving equipment will be catered for by others who have cars and receiving gear.

For those unfamiliar with fox hunts, the aim is to track down a hidden transmitter using directional antennas mounted on their vehicles. The fox is usually hidden within a 20 mile radius of the lighthouse, (This does not include over the escarpment, to avoid interference to Sydney station).

At 11.30 am the fox will transmit tone and I.D. and hounds will be sent off at intervals to track him down. The hound with the shortest elapsed time is the winner.

Shown below is a simple beam antenna that can be mounted on a broomstick and rotated through the car window.



Beam to be used vertically
Gamma matched to coax.
Gamma match approx 18cm long
and trimmer 30p1.
All elements can be mounted
to broom (refer ARRL)

The 'S' meter of your receiver is used to determine the bearing of the fox. When close to the fox an attenuator is useful to reduce signal strength (see ARRL for circuit)

For final sniffing of signal a fieldstrength meter is desirable, although good results can be obtained using only beam antenna and receiver 'S' meter.

Hope to see you all there.

RICHARD VK22VX
GERRY VK2APG

SOMETHING TO THINK ABOUT

Communication with Morse Code takes up less room in the Radio Spectrum than other signals. Being such a narrow band width this signal is able to penetrate much further than does the once used A M signal and allows a larger number of signals to occupy our allotted bands. However, with the technique of SSB (which is being used extensively throughout the world), Morse Code seems to be used now only by those amateurs who are attracted to this mode of operation.

In my opinion, it could be termed a project - one project of the many different kinds which are available within the hobby of Amateur Radio. Projects such as building antennas, constructing a transmitter (say, for instance, a 1-watt transmitter to see how far a weak signal will penetrate during favourable conditions), operating RTTY, building test equipment, or even just sitting down having a ragchew.

Projects such as these are available to the keen Amateur ham. My curiosity is aroused about the necessity of having to pass an examination in Morse Code before you are able to transmit on the H.F. bands! Surely this cannot be justified! To me, a hobby is doing what you want to do. If you desire to be proficient in Morse Code, as a project, then you would do so without necessarily passing an exam. Once having passed the necessary examination, does this:

- 1) Make you more proficient in Radio Technology?
- 2) Enable you to design, construct and develop better equipment?
- 3) Enable you to be a more skilled operator?
- 4) Enable you to deal with TVI problems more effectively?
- 5) Enable you to communicate more efficiently with hams in other countries (this is usually done with SSB anyway!)
- 6) Make you more dedicated to Amateur Radio?
- 7) Overcome the language barrier, (seeing that Morse is sent in plain English)

How many OACP holders use morse as a way of everyday communication with fellow Amateurs?

How many OACP holders throw the key out of the window once having passed the Morse test?

Why are the limited operators the only ones deprived of the HF bands and restricted to above 52 MHZ?

Let he who wants to work and experiment moon bounce do so.
Let he who wants to work and experiment RTTY do so.
Let he who wants to work and experiment oscar do so.
Let he who wants to work and experiment HF bands do so.
Let he who wants to work and experiment VHF bands do so
Let he who wants to work and experiment UHF bands do so.
Let he who wants to work and experiment Morse Code do so.
Let he who wants to build and experiment with projects do so.
Let he who wants to build and experiment with antennas do so.

You could go on and on!!!!

A holder of the OACP and a very good friend of mine once said: "If we were meant to communicate with each other using Morse, we would have been born with a set of points on our lips".

Think about it.

I.A.R.S.
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THE PROPAGATOR
Newsletter of the Illawarra
Amateur Radio Society
Registered for posting as a publication
CATEGORY B.

I.A.R.S.
POSTAGE PAID
WOLLONGONG
N.S.W.
AUSTRALIA
2500