



# THE PROPAGATOR

MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO SOCIETY.

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

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, 111 Bellevue Rd., FIGTREE. 2525.	Ian Bowmaker, VK2ASN, 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.

CLUB STATION - VK2AMW. CLUB REPEATER - VK2RAW, 2m, Channel 5.

I.A.R.S. MONTHLY BROADCAST.

The Monthly Broadcast takes place on the Sunday preceeding  
the Meeting Night each month, at 1900 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.

I.A.R.S. CLUB NETS.

6 Metre. 9.30 am Sunday, 52.525 MHz FM.  
10 Metre. 8.00 pm Sunday, 28.460 MHz USB.

SEPTEMBER 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 11th September, 1978.

Visitors are most welcome to attend.

TRADE DISPLAY for SEPTEMBER MEETING.

A wide range of new items from TRIO-KENWOOD will be on display.  
On hand to demonstrate the equipment will be Sandy Bruce-Smith,  
VK2AD, the National Sales Manager (Communications), Trio-Kenwood,  
as well as a staff member of MACELEC.  
Unfortunately, due to other commitments, Barry Hartley, VK2FE, of  
MACELEC will not be able to be present.

A very worthwhile display has been promised, and we are grateful  
that Barry and MACELEC are able to put on the display for us.

AS USUAL THERE WILL BE THE RAFFLE WITH WORTHWHILE ITEMS AS PRIZES.

FUTURE MEETINGS FOR 1978

9th October, FILM.

13th November, Talk by John Milton, District Radio Inspector.

11th December, Auction Night. Members to provide items for sale.

QSL CARDS.

A new batch of QSL cards has arrived. Anybody waiting (?) for  
cards should contact Gerry, VK2APG.

Moonbounce Report - September 1978.

The recent approach for the transport of the dish to the new site did not work out. Another avenue will now be followed up.

Oscar Satellite News.

Oscar 7 - Not a lot of activity on Mode B passes recently checked, but it varies.

Oscar 8 - Mode J (2 metres up - 70 cm down) is very interesting because of the variety of signal strength reports. Sudden changes in strength on my own downlink signal has been noted on some recent evening passes, with the signal increasing from S1 to S6 over a second or two and remaining at about this level for the remainder of the pass, even though no other signals were heard during this period. This could be consistent with antenna shielding by the satellite during portion of the pass rather than polarisation shift.

More detailed tracking information for Oscar 8 should be available shortly.

A frequency scanning system is being set up which will allow the full passband to be monitored. This may help to determine fading patterns for different signals being simultaneously received.

Does anyone in the Illawarra or mid South Coast area have information on Oscar 7 & 8 Mode A operation that I can include in these notes?

Lyle VK2ALU.

FOR SALE

2 Metre FM Transmitter-Receiver Unit - with Handbook - same as the unit used to develop the original Wollongong Repeater - with Ch40 xmit. xtal. and modified to 3 channel receive xtal. switching. Uses valves including 6QE7/50 in final power amplifier unit. P.A. can be easily removed and used as a self contained power amplifier, 5 watts in gives approx. 80 watts out, with own 240 volt power supply, metering etc. on single chassis.

Complete xmittr/recvr. in modern style rack, which also includes 600 ohm line facilities. Designed as a complete repeater unit to commercial standards. Two receive coaxial filters suitable for 2 metre use also included with Unit. - \$80

VK2ALU Ph. 296984 or Callbook address.

## CONGRATULATIONS.

Our best wishes and congratulations to Graeme, VK2CAG, on the arrival of First Harmonic. We understand the happy event was on 25th August, and that mother and daughter are fine.

## STORE.

Sales at the last meeting were an all time record, and we are pleased to note that members were co-operative with the request to refrain from handling the components.

The Store Sub-committee has suggested that members wishing to make purchases might write out a list of items that they require on a sheet of paper and hand the list to the Store operators. This procedure will reduce the numbers of persons crowding around the table and make the handling of purchases much easier for everybody.

Again we ask members to note that the Store is in operation at Meetings and also by mail order. We regret that sales can not be made at other times, unless prior arrangements are made with a member of the Store Sub-committee.

## JAMBOREE OF THE AIR , 1978.

The 21st JOTA is to be held on the weekend of 21st and 22nd October 1978.

As in previous years, we are seeking the services of members to assist the Scouts and Guides in their activities.

Any member who is able to assist, either by loan of equipment, available to operate their own station, or available as a spare operator, please contact the Secretary, Brian, VK2BCI, as soon as possible so that arrangements can be made with the Scouting groups.

Our efforts are greatly appreciated by the Scouting Officials, so let's keep up the effort again this year.

VK2AMW will be operating Portable from the Scout Hall at Figtree.

Novice Operators - this is your chance to do some Full operating. We also need full calls as well as limited calls to act as relief operators. If you are able to spare even a brief period of time, please contact Brian, VK2BCI, so that some sort of a roster of operators may be drawn up for the weekend.

# 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

### WANTED.

ARTICLES FOR PUBLICATION.

YES - EVEN CARTOONS ARE WELCOME.

PHOTOGRAPHS, FOR DUPLICATION TO BE  
USED AT CLUB DISPLAYS, SEE JIM VK2BOU,

I.A.R.S. COMPONENTS STORE

CAPACITORS.

GREEN CAPS. .001, .0015, .0022, .0039, .0047, .0056, .0082,  
and .01, each 10c.  
.039, .047, .056, and .082, each 15c.  
.1, .15, and .47, each 20c.  
ELECTROLYTIC CONDENSERS, 25V, double ended.  
4.7uF, 10c. 100uF, 15c. 220uF, 20c. 470uF, 25c.  
2500uF, 50V, 2.00. 4700uF, 50V, 2.00.

TRIMMER CONDENSERS.

Wire wrap type trimmers, reduced to ... 5c.  
PCB mounting trimmers, 3-13pF and 2-20pF, each 10c.

TANTALUM CAPACITORS.

.47, .1, 1.5, 2.2, 4.7, & 6.8 mF each 20c.  
10mF, .. 25c. 22mF ... 45c. 47mF ... 65c.

NEOSID COILS.

Former .. 10c. Slug, F29 (VHF) ... 10c.  
Cans.... Single, 10c. Double, 15c.  
Small Balun Former, 15c.  
Coil former and can complete, 10c.

CABLES AND CONNECTORS.

Belling Lee. Sockets, 50c. Connectors, 50c.  
PL259 Plugs, 1.00. S029 Sockets, 1.00.  
Adaptors for RG58U cable for PL259 plugs, 25c.  
CO-AXIAL CABLE. RG8U (heavy) ... 1.20 per metre.  
RG58U (light) ... 50c. per metre.  
Sheathed, light hook-up co-ax, lengths of 4 metres, 1.00.

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. ... 4.00.  
10 each of values 10, 47, 68, 100, 220, 470, 680,  
1K, 2.2K, 4.7K, 6.8K, 10K, 22K, 47K, 68K, & 100K.

DIODES. 1N4148 ... 10c. OA91 ... 10c.  
EM404 ... 20c. EM410 ... 25c.

LED's. colour RED ..... 35c each.

I.C's. 741 ... 85c. LM38 ... 1.85.  
7812 regulators ... 2.00. NE555 ... 90c.

TRANSISTORS. MPF131 ... 85c. BC109 ... 35c.  
2N3568 .. 30c. TIP32A .. 50c. BF167 .. 50c.  
2N3054 .. 80c. 2N5485 .. 95c. 2N5457 .. 50c.  
2N5459 .. 50c. 2N5416 .. 50c. 2N3568 .. 30c.

PCB TRIM POTS.

Values, 2K, 5K, 10K, 25K, 50K, & 100K. .. 25c each.

PRINTED CIRCUIT BOARD.

Fibreglass PC board, copper on one side.  
Sheet sizes - 18" x 5" ... 1.50.  
12" x 4 1/2" ... 1.00.

POTENTIOMETERS.

Values of 5K, 10K, & 25K. each 50c.

SUPPRESSOR RESISTORS for ignition high tension leads.  
In line, screw type. each ... 50c.

SUNDRY OTHER ITEMS. Cable clamps .. 10c.ea. Plastic Tape .. 20c.  
Power Cords... 1.00 ea. Wafer Switches... 1.00 ea.  
Meter Leads... 20c. pair. Four Pin Plug & Socket... 10c.  
Alligator Clips - large, insulated. Red or Black... 10c.

**< MACELEC >**  
**99 Kenny st. WOLLONGONG.**  
**Phone 291455.**

KENWOOD SM220 Station Monitorscope.....	\$310.00
KENWOOD BS5 or BS8 Adaptor for Panoramic display.....	\$ 57.00
KENWOOD TS820S - The Ultimate - .....	\$1175.00
KENWOOD TS520S - Most Popular - .....	\$699.00
KENWOOD TR7500 2 Metre P.L.L. Mobile.....	\$275.00
S.B.E. "Sidebander" 10 Metre Mobile.....	\$199.00
KENWOOD R300 All Bank Communications Receiver.....	\$260.00
KENWOOD AT200 Antenna Coupler - S.W.R. - Power Meter- Coax Switch.....	\$173.00
KENWOOD TS700SP Digital 2 metre Allmode.....	\$812.00
QUAD 2 Elements for 10 and 15 Metres - 8db Gain - 50 ohm Input.....	\$ 95.00
HANSEN Transformer Coupled Power Meter Reads True P.E.P. and R.M.S. to 200 watts.....	\$ 82.00
HI-GAIN TH3JR 10/15/20M 3EL. Beam.....	\$229.00
NAGARA V5JR Trap Vertical 80-10M.....	\$139.00
CUSHCRAFT ARX-2 2 Metre Ringo Ranger.....	\$ 49.00
HANSEN Dummy Load 30 watts up to 150 MHZ.....	\$ 15.00
DAIWA FD30LS Low Pass Filter Cut Off Frequency 32MHZ - 3 Stages - Top Quality.....	\$ 20.00
HI-MOUND HK708 Morse Key.....	\$ 21.00
KENWOOD DG5 Digital Display for TS520S.....	\$187.00
KENWOOD TS600 6 Metre All Mode Transceiver.....	\$620.00
* We now represent VICOM in Wollongong and have access to the full range of VICOM AMATEUR EQUIPMENT.	
ROYCE SWR-Power Meter Dual Meters 0-10watt and 0 -100W F.S.D.....	\$ 35.00

CONTACT BARRY HARTLEY VK2FE

Prices Subject to Change Without Notice.

Above Items Normally Available Ex Stock.

WOLLONGONG, NSM 2500

P.O. Box 1838,

I.A.R.S.

MR.L. PATISON VK2ALU  
98 HEASLIP STREET  
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