

# THE PROPAGATOR

NO. 4/77

APRIL 1977

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THE MONTHLY NEWSLETTER OF THE  
ILLAWARRA AMATEUR RADIO SOCIETY

A Member Club of the Wireless Institute of Australia.  
Published by the Illawarra Amateur Radio Society  
PO Box 1838  
WOLLONGONG NSW 2500

## PRESIDENT

Bill Calvert VK2DJ  
19 Springfield Ave,  
FIGTREE 2525  
Ph. 713569

## SECRETARY

Brian Boseley VK2NBB  
Figtree Hotel  
FIGTREE 2525

## NOTICE OF MONTHLY MEETING - April 1977

Members are advised that the monthly meeting of the Illawarra Amateur Radio Society will be held at the Wollongong Town Hall Meeting Room on Monday, 18 April 1977 at 7.30pm.

## AGENDA

- 1 Apologies and welcome to visitors.
- 2 Minutes of previous General Meeting.
- 3 Correspondence.
- 4 Financial Report.
- 5 General Business.

## TRADE DISPLAY

This month Peter Schultz will again present his trade display of amateur equipment. If you wish to purchase a specific item from Peter at the meeting you can contact Keith Curle VK2BUU, or you can contact Peter direct and ask him to bring it with him.

Remember "BRING YOUR MONEY WITH YOU".

Geoff VK2ZHU

## MOONBOUNCE PROJECT - APRIL 1977

Scheduled 432MHz EME tests by VK2AMW on 26/3/77 yielded the following results:

OZ9CR - Called - nothing heard.  
F2TU - Called - nothing heard

Our echoes at this stage were peaking 7dB over noise.

G3LTF - Contact made with 'M' signal reports both ways.

A contact was also made with F9FT who called us near the end of our contact with G3LTF.

Visitors to the shack during the above tests were Peter Venner and two friends - VK2ALU and VK2ZEN operated.

### Visits during the monthly scheduled EME tests

Should anyone wish to come along to Dapto to see what goes on during Moonbounce tests, then if they will give a phone number, on which they may be contacted a day or two prior to the test weekend, to either VK2ALU or VK2ZEN then one of us will phone them to advise of the test period.

Monthly tests are scheduled for most stations interested in 432MHz EME contacts by Cor Maas VE7BBG who passes on the test schedules via the 432 EME News which is sent each month to all concerned by Allen Katz K2UYH. I don't usually get the 432EME News until a few days prior to the test weekend.

VK2AMW is scheduled on over the period shortly after moonrise at our location, for stations in North America and shortly before moonset for stations in Europe, as it is only during these periods that both stations concerned can each "see" the moon simultaneously.

Thus the test periods "change with the Moon"!!

We would be happy to have visitors at any test.

### Ron Wilkinson VK3AKC

A letter was received a few days ago from 2 meter Moonbounce man VK5MC. It included the sad news of the death of Ron Wilkinson, VK3AKC on 23/3/77. Ron will be sorely missed by those of us in VK and other areas who are interested in Moonbounce. He had made moonbounce contacts on 1296MHz and was preparing to come on to 432MHz EME of recent months. He was also very active in VK3 on VHF and UHF generally. He was always ready to help others in these fields.

Lyle - VK2ALU



# Sideband Electronics Sales

## HF TRANSCEIVERS

**ASTRO** - 200 digital solid state 200 W.P.E.P. P.O.A.

**TRIO KENWOOD** model TS 520 - D AC - DC 10 to 80 M. \$590

**TRIO KENWOOD** model 520 - D AC only 10 to 80 M. \$650

**TRIO KENWOOD** model TS - 820 - S AC only 160 to 10 M. with digital readout \$980

**TRIO KENWOOD** model TS - 820 AC only 160 to 10 M. \$850

**TRIO KENWOOD** DS 1 DC Converter \$ 65

VFO - 820 \$145

DG - 1 Digital Display \$160

YG. 88C Crystal Filter \$ 64

SP. 520 - 820 \$ 36

**TRIO KENWOOD** model TS - 700 - A FM AM CW SSB transceivers. Full 144-148 MHz coverage, 10 Watt output, VFO controlled, self-contained, AC-DC operation. \$650

**TRIO KENWOOD** model TS-600-A FM-AM. SSB transceiver full 50-54 MHz coverage 10 Watt output variable form 1 Watt to full power. VFO controlled AC-DC operation. Styling as TS-700-A. P.O.A.

**TRIO KENWOOD** model TR 7400 2 meter FM transceiver 10 to 25 watts output. Frequency range 144.00 to 147.995 MHz No. of channels 800, Double conversion superheterodyne sensitivity better than 0.4 UV for 20 DB. \$385

**KYOKUTO** 2 M FM 15 W output transceivers with digital read-out and crystal synthesized PLL circuitry now tiwh 800 transmit and 1000 receive channels 5 KHz apart, covers all of 144 148 MHz, receive to 149 MHz. No more crystals to buy. Includes simplex, repeater and anti-repeater operation. only \$310

## NOVICE OPERATORS

All above HF transceivers will be modified for low cost to suit novice. Requirements 27 MHz conv. x tals in stock now for kenwood models.

**IT IS HERE AGAIN**, the well known SE-501 in new style case 15 Watt pep 23 AM SSB for as low as \$215 Same model with AC built in supply and DC built in SWR power meter and many goodies. \$260

## ICOM

### VHF TRANSCEIVERS SSB

**ICOM** model IC-202 2 M SSB portable transceiver 144-144.4 MHz \$215

**ICOM** model IC 502 6 M SSB portable transceivers 52 53 MHz \$215

## USED EQUIPMENT

Collins KWM 2 - A in new condition with power supply \$1,600

PM.2

6146 - b valves RCA new Large stock \$10 each.

**FDK MULTY QUARTZ** with 24 channels 10 sets of crystals supplied 10 Watts, new style. \$265

**YAESU MUSEN** model FT-101-E AC - DC transceivers 10 to 160 M with speech processor P.O.A.

**YAESU MUSEN** model FT - 301 P.O.A.

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**YAESU MUSEN** model FP - 301 P.O.A.

**YAESU MUSEN** FR 6-7. Uses Wadley loop principal \$300

**YAESU MUSEN** model YC-500 P.O.A.

## FREQUENCY COUNTERS

## HY - GAIN ANTENNAS

14AVQ 10-40M. verticals, 19' tall, no guys \$ 65

18AVT-WB 10-80 M. verticals, 23' tall no guys \$ 95

TH3JR 10 15 20 junior 3 el. Yagi 12' boom \$ 160

TH3MK3 10 15-20 senior 3 el. Yagi 14' boom \$220

TH6DXX 10-15-20 senior 6 el. Yagi 24' boom \$250

HY-QUAD 10-15-20 cubical quad Yagi 8' boom \$250

TIGER ARRAY 204BA 20M4el. Yagi 26' boom \$250

BN-86 balun for beam purchasers only \$ 25

## CUSH CRAFT ANTENNAS

A144-11 11 Element 2M-Yagi \$ 45

A147-11 11 Element 2 M Yagi \$ 45

A147-20 combination horizontal vertical 2 M \$ 70

A144 20 combination Yagi with matching harness circular polarization \$ 75

## ANTENNA ROTATORS

Model CDR Ham-11 for all hf beams except 40 M \$200

Model CDR AR-22 L junior rotator for small beams \$ 65

KEN model KR-400 for all medium size hf beams with internal disc brake \$110

KEN model KR 500 for vertical control of satellite tracking \$110

All models rotators come complete with 230-volt AC indicator-control units.

6-conductor cable for

KR 400-500 65 cents per metre

## COAX CABLE CONNECTORS

PL 259 \$1.20

SO-239 Chassi Mount \$1.20

Male to male joiner \$1.20

Female to female joiner \$1.20

Angle connector \$1.70

T-connector \$2.00

## COAX CABLE

RG - 8 - U foam filled per metre \$1.20

## SWR METER

\* Twin meter model: Y.M. - I.E. 3.5 to 145 MHz prof quality \$ 28

DRAKE TV - 3300 TVI lowpass filter \$ 31

SSR-1 Receivers \$270

All prices quoted are net SYDNEY, N.S.W., on cash-with-order basis, sales tax included in all cases, but subject to changes without prior notice. ALL-RISK INSURANCE from now on free with all orders over \$100; small orders add 50c for insurance. Allow for freight, postage or carriage; excess remitted will be refunded.

# Sideband Electronics Sales

For personal attention: 24 KURRI STREET, LOFTUS

P.O. BOX 184, SUTHERLAND, 2232

OPEN ON SATURDAYS TILL 12 NOON

TELEPHONE: 521 7573

PETER SCHULZ, VK2ZXL



## SECRETARY'S REPORT - ILLAWARRA AMATEUR RADIO SOCIETY 1977.

This year has seen the continual growth of the Society. There has been 11 general meetings and a similar number of committee meetings.

The attendance figures averaged around 41 per meeting and the number of new members is very pleasing. There are now in excess of 120 paid up members and while this shows only a 33% attendance it must be remembered that a lot of our members are from outlying areas - from Sydney in the north to Tuross in the south. We don't expect the odd member from Victoria or Queensland to make it to the meeting very often.

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I would like to thank the committee and members for the assistance given to me during the year and hope my successor has the help and co-operation I did.

Keith VK2BUL.

### FOR SALE

#### AWA CARPHONE JUNIOR

2 metre single channel valve type transceiver with crystals for 146 MHz simplex. In good working condition, with copy of circuit. Works from 12V DC supply. \$15.

#### PYE 50W BASE STATION

With crystals for 146 MHz simplex operation. Not working properly and without 6/40 output valve. Could be restored to working order by someone who knows what he is doing. In beautiful hammertone cabinet. Has good high voltage power supply. With copy of instruction manual. \$15.

Contact Charlie Proctor VK2 ZEN at the meeting or phone 611607.

#### SOLID STATE 40 METRE TRANSCEIVER

Solid State 40 metre Transceiver 75 watts PEP. This is an AFQ building blocks unit and is complete with microphone and speaker. Size of the unit is 8" x 6" x 3". \$110.

Contact Barry Hartley VK2FE 291455 Work or 842439 at home.



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MACELEC  
99 KENNY STREET WOLLONGONG  
PHONE 29 1455

- SOMETHING TO THINK ABOUT -

If you bought a Kenwood 5 Band H.F. Transceiver for \$660.00 and used it for an average of 10 hours per week, sold it after 5 years for \$200.00, it would have cost you \$0.17 per hour or \$1.70 for each weeks enjoyment "Working The World."

KENWOOD TS520 Now One of the most popular and versatile Transceivers about. 80 thru 10 metres AC-DC.

.....\$660.00

\* \* \* \*

KENWOOD TS820 When only the best will do. 160 thru 10 metres - variable I.F. - Full speech processor - Speech Monitor etc. etc.

.....\$880.00

DGI Digital Display Option (with 820).....\$160.00

\* \* \* \*

KENWOOD 7400A Mobile 2 metre F.M. 144-148 MHZ complete coverage - 800 channels - Digital Readout - Conservative 25 watts Power output, with 5 watt Low Power Select, Unique Squelch System, Automatic Repeater 600 KHZ offset selection.

.....\$395.00

\* \* \* \*

KENWOOD TS700A Base or Mobile Operation complete 2 metres coverage - Automatic Repeater offset Select - SSB - CW - AM - FM.

.....\$650.00

\* \* \* \*

MIDLAND 13 - 893 27 MHZ mobile Transceiver 15 watts P.E.P. SSB 5 watts A.M. 23 channels

.....\$279.00

\* \* \* \*

LAFAYETTE MICRO 75 23 channel 27 MHZ SSB - Mobile, For the serious Operator.

.....\$320.00

\* \* \* \*

KENWOOD HC2 World Time Clock Showing Country Call Prefix

.....\$ 29.50

\* \* \* \*

Also a wide range of Mobile Antennae and test equipment.

CONTACT  
BARRY HARTLEY VK2FE  
99 KENNY STREET  
WOLLONGONG 2500  
PHONE 29 1455



## AMATEUR RADIO COURSE, 1977

The course will cover the theory, regulations, and morse code needed for the novice, limited, and full amateur licences.

LOCATION: Wollongong Technical College, Matthews Building, room 216  
(see map below).

TIME: 6 p.m. to 9 p.m. on Friday nights, starting on Friday 18th February.

ENROLMENT: Enrol on the first night of the course, Friday 18th February, at room 216. Fees are only \$2 .

### RECOMMENDED STARTING TEXTS:

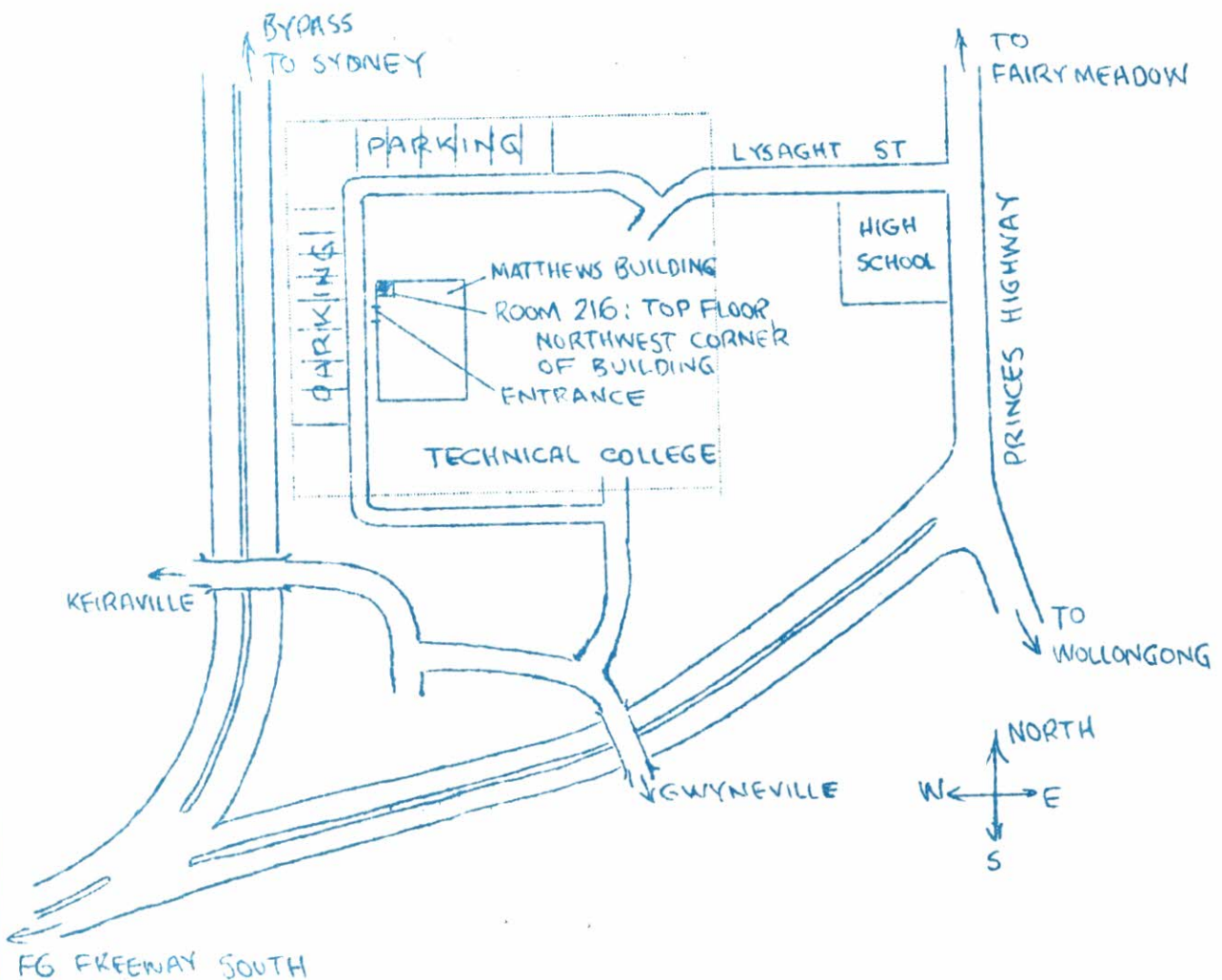
"Questions and Answers for the Novice Licence"

- published by Westlakes Radio Club

"Basic Electronics"

- published by "Electronics Australia"

FURTHER INFORMATION: Contact Brian Wade, VK2YAW. Phone (home) 84-1381.





YOUR COMMITTEE FOR THIS YEAR

At the Annual General Meeting of the IARS the following members were elected to these positions:-

PRESIDENT:	BILL CALVERT VK2DJ
VICE PRESIDENT:	JOHN HODKINSON VK2BHO
SECRETARY:	BRIAN BOSELEY VK2NBB
TREASURER:	GEOFF CUTHBERT VK2ZHU
WIA OFFICER:	GEOFF CUTHBERT VK2ZHU
WICEN	JIM POTTS VK2BBG
3 OTHER COMMITTEE	
MEN:	CHARLY PROCTER VK2ZEN
	RICHARD WILSON VK2ZVX
	GERRY ROSAM VK2APG

At the committee meeting held the week after, the following additional duties were delegated:

QSL OFFICER:	GERRY ROSAM VK2APG
CATERING:	CHARLY PROCTER VK2ZEN
RAFFLES:	JOHN HODKINSON VK2BHO

One more member was seconded to the committee in the form of:

STORE OFFICER: KEITH CURLE VK2BUU

We are still looking for an editor for the PROPAGATOR which is now under my control.

FOUND

For the unknown person who was looking for one "Handset Control Unit for MR10".

Geoff - VK2ZHU

SUBSCRIPTIONS FOR 1977-8

Subscriptions are now due for 1977-8. Subscriptions finish in March 1978.

Subscription rates are as follows:

Paid April - July	\$3
Aug. - Nov.	\$2
Dec. - March	\$1

Pensioners and Students pay half.

The subscriptions cover the costs of postage of the Propagator and hall hire. The rest of the running expenses of the Club and of the Channel 5 repeater are covered by the monthly raffles and profit from sale of components.

The following members have prepaid their 1977-8 subscriptions and should not pay again. H. Laauw, S. Orfans, G. Rhodes, B. Dale, J. Moorley, D. Goddard and those who paid at the March meeting.

If paying by mail, you might like to use this form for convenience.

---

Subscription To the Illawarra Amateur Radio Club

Attached is \$3 in payment for membership for the period April 1977 to March 1978.

Name .....

Address .....

.....

Call Sign If Any .....

Please send to :      The Honorary Secretary,  
                            Illawarra Amateur Radio Club,  
                            P.O. Box 1838  
                            WOLLONGONG 2500



## COMPONENTS FOR SALE

### SCOTCHCAL

Photosensitive panel material for making professional looking front panels to pretty up your gear. See article in November issue.

Sheet size 10" x 12" \$3.50

### BOOKS

Basic Electronics A very useful book, especially for beginners. Published by Electronics Australia. \$3.00

Projects and Circuits Over thirty Electronics Australia projects combined into a book of 112 pages. \$1.50

Westlakes Novice Licence Manual This excellent book is being revised. At the time of writing, we have run out of copies for sale, but we might have supplies of the revised Manual by this meeting.

### GENERAL

Pair meter leads with alligator clips	50c
Vernier dials 35 mm. 4 turns knob for $\frac{1}{2}$ turn dial	\$1.50
DPDT slide switches	25c
Four pin plug and socket - pair	15c
Alligator clips - large, insulated. Red or Black	20c
Ground Plane Antenna Base	\$1.00
Edge connectors	\$1.00
Tag strips	10c

### CONDENSERS

Ceramic trimmer, mica insulation	30c
Small solder type feed through capacitors	5c
Wire wrap type trimmers	10c
Ceramic bolt-down trimmers	10c
25V Electrolytics, double ended	
4.7 uF	6c
100 uF	12c
220 uF	15c
470 uF	20c
Greencaps 100V	
.0047, .002	8c

### NEOSID

Formers	8c
Balun formers - small	12c
- large	15c
Cans - single	10c
- double	12c
Slugs - F 16,	7c

### METERS

S Meter 400uA $1\frac{1}{2}$ " x $5\frac{1}{8}$ "	\$2.50
Level Meter dual 200uA meters, illuminated	\$3.00
0 - 1 mA Meter 50mm square	\$4.00
0 - 1 mA Meter 75mm x 50mm.	\$5.00

### RESISTORS

Bag of 160  $\frac{1}{2}$  watt resistors.  
10 each of values 10, 47, 68, 100, 220, 470, 680, \$4.00  
1K, 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

The I.A.R.S. Store is stocked with selected purchases of good quality components. A small profit is marked up on these items yet prices are very reasonable. The profit goes towards expanding the range of items kept in stock.

Bring your money on meeting nights and keep stocked up with those often needed components.

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MR.L. PATISON VK2ALU  
98 HEASLIP STREET  
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2500

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P.O. BOX 1838,  
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