

THE PROPAGATOR

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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

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NOTICE OF ANNUAL GENERAL MEETING

Members are advised that the 1977 Annual General Meeting of the Illawarra Amateur Radio Society will be held at the Wollongong Town Hall Committee Rooms on Monday 14 March 1977, commencing at 7.30 pm.

NOTICE OF MONTHLY MEETING - February 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 14 February 1977 at 7.30 pm.

AGENDA

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

CHANGE OF ADDRESS

Please take note that the postal address for all mail is now -

P.O. Box 1838, WOLLONGONG. 2500

Lyb.

Have a Q.S.L card for you at the meeting.

Jeff

Moonbounce Report February 1977

Results of tests carried out by VK2AMW since the last report -

December 12

JAIATL - first contact, 'O' signal strength reports each way.
JAIVDV - 'O' reports each way.
F2TU - first contact, 'M' reports each way
SK6AB - not heard

January 8th

K3PGP - first contact, 'M' reports each way.
WB5LUA - faded out after a few minutes, 'T' report sent.

January 23rd

FY7AS - French Guiana - first contact, 'M' reports each way. First Australia - South America contact on 70cm. This contact was the result of a CQ during the known common window rather than a scheduled test.
FY7AS uses circular polarisation. He was of consistent signal strength though only 1 to 3dB. over noise for most of the contact. He is located at the Guiana Space Centre.

The next series of EME tests is scheduled for VK2AMW on Feb. 5th. They are with stations in USA and Japan plus a VK2AMW CQ period.

Technical Topics

It appears that the period of supremacy of bipolar transistors for very low noise 70cm preamplifiers is over. The MT4575 bipolars used by VK2AMW and others give a measured noise figure of 1.2dB on 432MHz.

Now JAIVDV has come up with a design for a 432MHz preamp. having a gain of 15dB and the incredibly low noise figure of less than 0.8dB, according to his report in the 432 EME News for January 1977. The transistor used is a V244 GASFET which costs about \$200 in USA and Japan. Apparently it is a standard type of GASFET for use in the 4 to 8GHz range.

The price may seem very high for such a device, but if they were in use at VK2AMW in place of our present front end transistors then our receiving system would be upgraded to the same extent as would require an increase of dish diameter from our present 30 feet to approx. 40 feet. Such would certainly cost more.

Lyle VK2ALU.

BLACK & WHITE T.V. SETS

Roger Graham, VK2 AIV has more black and white T.V. sets available. Mainly suitable for stripping for parts. If you want one, phone him on 341431. They can be picked up from his QTH at Gerringong or he can bring a limited number to the meeting. You take them from there. \$1 donation to the Club for each set supplied.

THIS MONTHS TALK

Roger Graham VK2AIV will give a talk on SCOTCHCAL photosensitive self-adhesive aluminium lables and how to use them to give your equipment that professional look.

MACELEC

83 Princes Highway Fairy Meadow
as from Monday 14th Feb. 1977
our new adress will be
99 KENNY STREET WOLLONGONG 2500
PHONE 291455

KENWOOD TS820 when only the best will do. 160-10 metres.
Full speech Processor- Variable I.F.-SSB-CW-FSK.
Speech Monitor-True Digital Readout (optional)
RTTY Patch Etc. Etc P.O.A.

KENWOOD TS520. Rapidly becoming the most popular transceiver
on the Amateur Market. 80-10 metres. AC or DC speech compressor
and excellent Audio quality \$660

KENWOOD HC2 HAMCLOCK.

Attractive and versatile timepiece that shows at a glance the
call Prefix and time of most countries.....\$29.50

HANSEN FS5 Power Meter.

Scaled 0-10 watts and 0-100 watts also VSWR. Dual impedance
50-75 OHM. For optimum performance from your transmitter
you will get it with this one..... \$29.50

MIDLAND 13-893 27 MHZ Mobile Transceiver. Has upper and
lower Sideband 15 Watts P.E.P. 5 Watts A.M. Clarifier, RF gain-
Mic Gain-Double conversion Superhet front end. Comes complete
with mic mounting Kit..... \$279

We also have a range of test equipment- C.R.O's- signal
Generators- Mobile Antennae etc.

NOTE NEW ADDRESS AS FROM MONDAY 14th FEB.
99 KENNY STREET WOLLONGONG. PHONE 291455
or Contact BARRY HARTLEY VK2FE

FOR SALE AT THIS MEETING

Brand New Ex P.M.G. Equipment

Several receiver and low power transmitter units. Not on amateur frequencies. Some may be convertible. Some circuits available. The units are for rack mounting and contain crystal ovens, meters, voltage regulators, filters relays, heat sinks, 10.7 MHz I.F. filters, B.N.C. correctors etc. Nothing over \$10.

Inspect the units at the meeting. There will probably be a ballot for the privilege of purchasing. Preference to be given to anyone who has not bought a unit yet, starting with the P.A. units sold at the December meeting.

NEW TREASURER

The Treasurer who has now held this position for three years wants to hand the job on to either a) someone who knows all about bookkeeping and who from his wide experience will improve the present excellent system or b) someone who knows nothing about bookkeeping and having the advantage of being open minded about it will improve the present excellent system. Either way, you can't lose.

If interested see the Treasurer, Charlie ZEN at this meeting, who will give you an idea of the small amount of work involved so that you can decide to nominate for the position at the March annual meeting.

GOSFORD FIELD DAY

Don't forget the Gosford Field Day on Sunday 20th February. This is the best field day of them all. See the insert in January A.R. for full details.

WANTED.

ANY OLD MR3s YOU HAPPEN TO HAVE SCATTERED AROUND THE SHACK. THEY ARE REQUIRED FOR SPARES ONLY.

PLEASE CONTACT KEITH 2BUU AT FEBRUARY MEETING OR PHONE AT HOME 84 2469.

FOR SALE.

ALL SOLID STATE 40 metre TRANSCEIVER - TUNEABLE THRU THE 7 MHz BAND. SSB 75 WATTS P.E.P. COMPLETE WITH MIC & SPEAKER. HOME BREW. SIZE 8" x 8" x 3" Price \$125.00
CONTACT BARRY HARTLEY VK2FE. PHONE 84 2439 HOME or 291455 WORK.

1977 COURSE FOR AMATEUR LICENCES. WOLLONGONG TECH. COLLEGE.

IT IS HOPED TO RUN A COURSE THIS YEAR, STARTING IN MID FEBRUARY, AND LEADING TO THE NOVICE, LIMITED AND FULL CALL AMATEUR LICENCES. THE COURSE WILL INVOLVE ONE NIGHT A WEEK, AND WILL COVER ALL THE NECESSARY THEORY, REGULATIONS AND MORSE CODE.

WE MUST HAVE SUFFICIENT STARTERS TO MAKE THE COURSE POSSIBLE, SO IF YOU ARE INTERESTED, DON'T DELAY - CONTACT BRIAN WADE VK2YAW. PHONE AT HOME 84-1381 OR SEE HIM AT THE FEBRUARY MEETING OF IARS FOR FURTHER DETAILS.

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

METERS

S Meter 400uA 1 $\frac{1}{2}$ " x 5/8"	\$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.C. 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.

I.A.R.S.
P.O. BOX 1838,
WOLLONGONG. NSW. 2500.

MR.L. PATISON VK2ALU
98 HEASLIP STREET
WOLLONGONG
2500
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