PROPAGATOR

NO 12/77

DECEMBER 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

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SECRETARY

Brian Boseley VK2BCI Figtree Hotel FIGTREE 2525

NOTICE OF MONTHLY MEETING - DECEMBER 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 12 December 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.
- 6 Lecture.
- 7 Drawing of WARC 79 Raffle.

LECTURE

This month we do not have a lecture set up just yet but listen to the broadcast on Sunday for any further developments. If you listen to John 2BHO giving the broadcast please call book after it to let us know of your interest.

Moonbounce Report - December 1977.

Still no more EME tests carried out since the last report because of absence of test schedules. The 432 EME News for December has not yet been received.

A letter has been sent to K2UYH to ensure that our mail problem is publicised. We can only hope that this sorts itself out soon.

The details of the newly designed hybrid for achieving circular polarisation from the feed dipoles have been received and is being looked at to see if it is applicable to our feed arrangement.

Contact is being maintained with the City Council with regard to their proposals for a possible garbage dump in the area of the dish site. Nothing has been finalised yet.

We are looking forward to increased activity. in the New Year.

Oscar Satellite Activity.

It has been noted that the Satellite has been operating in Mode A instead of Mode B on several occasions last month. This was corrected prior to the next Mode B period. I have been told that this may have followed the use of excessive power transmissions by some stations in the Northern Hemisphere. 100 watts ERP is more than adequate.

Very interesting visits were made to the QTE's of Oscar stations VK3ZBB and VK3ACR while in Melbourne last month.

Several new stations (for me) were worked on Mode B last month.

RTTY Activity in the Wollongong Area.

How about one of you keen RTTYers in this area running an item in the Propagator? I'm only a beginner in this field (you can do only so much in the hobby time available!!) and as sure that we would all like to hear what is going on. My thanks to Richard Ewell (tope I've spelled your name right!) for help with the Model 14 Reperferator, and clues on its operation which will be a big assistance in getting the system working.

Lyle VK2ALU.

11.28

the broadus

FOR SALE

KENWOOD SSB Transceiver. T.S. 520, complete with a DC-DC converter.

Ten months old - \$575 - no offers.

Contact Ian Miller VK2NJM on 83 2653

WANTED

Adds for this page - especially for equipment you are not using that could assist a novice to get on the air.

Contact G Cuthbert VK2ZHU at the meeting or Post Office Box 1838 WOLLONGONG

FOR SALE

COLLINS R309A Receiver. Didgital Readout. The ultimate in receivers - variable bandpass of 100 HZ to 16KHZ. (EX-GOVERNMENT TYPE UNIT).

\$400

Contact B Hartley Phone No. 29 1276 After Hours 84 2439

FOR SALE

YAESU Linea Amplifier model SL2100B. This unit is as new complete with Handbooks.

\$425

Contact B Hartley Phone No. 29 1276 After Hours 84 2439

NEXT MEETING

Don't forget that there is no meeting in January so that the next meeting is on 13 February 1978.

** A MERRY CHRISTMAS AND A HAPPY NEW YEAR FROM THE COMMITTEE **

** OF THE ILLAWARRA AMATEUR RADIO SOCIETY **

COMPONENTS FOR SALE

ADDITIONAL ITEMS IN STORE.			PACITORS		
		.001		6	cents
BC.109	20 Cents.	.0047		. 6	cents
MPF.131	85 cents.	.01		6	cents
5486 FETS	65 cents.	.022		6	cents
1N4148	10 cents	.047	9	8	cents
0A91	12 cents	.1		10	cents
	# J*				33
TANTALUM CAPS.					
.47 MF	17 Cents 1			25 cents	
.1 MF		2 MF		45 cents	
4.7 MF	20 001100	7 MF		65 cents	
Pair meter leads with alligator clips Vernier dials 35 mm. 4 turns knob for ½ turn dial DPDT slide switches Four pin plug and socket - pair Alligator clips - large, insulated. Red or Black Ground Plane Antenna Base Edge connectors Tag strips			\$1.50 25c 15c 20c \$1.00 \$1.00		
4				ल ल ल ल	
CONDENSERS				0 0 0 0	
Wire wrap type trim Ceramic bolt-down t 25V Electrolytics,	eed through capacito: mers rimmers double ended 4.7 uF 6c 100 uF 12c 220 uF 15c	rs	30c 5c 10c 10c	ounting 10c s PCB. \$1.00 can 10c eters. \$6.00	
"BELLING L	470 uF 20c EE" MOBILE ANTENNA BA	ASES \$4.00 EACH.		PCB m reglas with	
NEOSID	g. ^W			for fib	
Formers Balun formers - sm - la Cans - si - do Slugs - F	rge ngle uble 16,		8c 12c 15c 10c 12c 7c	NEW STORES ITEMS. 3 -13pF trimmers 12" x 6" approx. Coil former compl. 2" sq. 100mA cent	
S Meter 400uA 18" x Level Meter dual 20 0 - 1 mA Meter 50mm 0 - 1 mA Meter 75mm	OuA meters, 'illuminat square	te d	\$2.50 \$3.00 \$4.00 \$5.00		
RESISTERS Bag of 160 ½ watt re 10 each of values 19 1K, 2.2K, 4.7K, 6.83	esistors. 0, 47, 68, 100, 220, K, 10K, 22K, 47K, 6 8K	470, 680, K, and 100K.	\$4.00		

ANTENNA WIRE

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

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.

AMATEUR RADIO COURSE, 1978

In 1978, the School of General Studies within the Wollongong Technical College will be running an approved course in Electronics, which will cover all the work needed to obtain a Novice, Limited, or Full Amateur Licence.

TIME: The course starts on Friday 17th February, at 6 p.m. to 9 p.m. It will then continue weekly at the same time.

LOCATION: Wollongong Technical College, Matthews Building, Room 213 (see map below).

ENROIMENT DETAILS: Enrol on the first night of the course, Friday 17th
February, at room 213. (If you miss the first night,
enrol on the second night.) Fee is \$2.

COURSE INFORMATION:

The Novice section of the course assumes no previous knowledge of electronics or radio. Starting from scratch, it will prepare you for the Novice Licence Examination in October.

Recommended Novice Study Materials: (Available at the class)

"Questions and Answers for the Novice Licence" - published by Westlakes Radio Club. \$3-50

"Handbook for Operators of Radio Stations in the Amateur Service" - published by P & T Department. 30¢.

Beginner's Morse Code Cassette. \$2-00

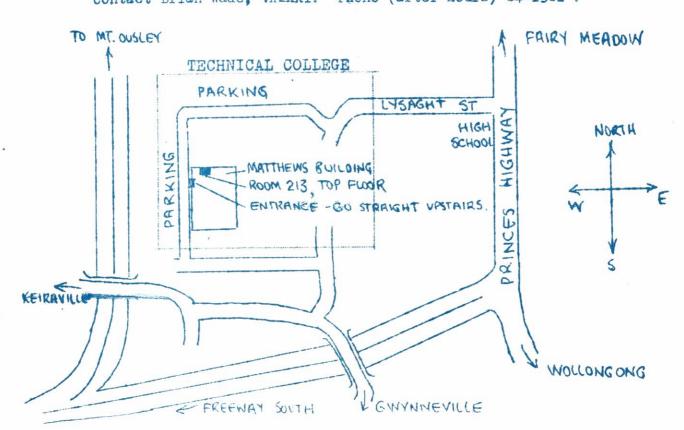
The Advanced Section of the course starts where the novice section finishes, so you can upgrade your novice licence to a limited or full licence at the August examination.

Note - If you have a limited licence, you can take morse code by itself to upgrade to a full licence.

Recommended Advanced Texts:
The R.S.G.B. Handbook.
The A.R.R.L. Handbook.

FURTHER INFORMATION:

Contact Brian Wade, VK2AXI. Phone (after hours) 84-1381 .



Oideband Clectronics Oales

HE TRANSCEIVERS		AUSTRALIA'S SOLE DIST. OF KLM PRODUCT	rs
ASTRO - 200 digital solid state 200 W.P.E.P.	\$1000	KLM SOLID STATE POWER AMPLIFIERS	
TRIO KENWOOD new model TS-520-S		(MHz) 144-148 PA10- 80BL 80 OUTPUT (wa	tts)
160 to 10 M, with optional digital		" PA10-140BL 140 "	
readout connected externally. Can be		" PA10-1608L 160 "	
used as a frequency counter self contained		" PA 2- 70BL 70 "	
separately powered by 12 volt DC.		400-470 PA10- 70CL 70 "	
Price will be shortly announced.		PA 2- 12-B 12 Watts	
TRIO KENWOOD model TS-820S AC only	12/52/25	PA 2— 25BL 25 Watts	P.Q.A.
160 to 10 M with digital readout.	\$1000	HY GAIN ANTENNAS	0 05
TRIO KENWOOD model TS-820 AC only	0050	18AVT-WB 10-80 M. verticals, 23' tall no guys TH3MK3 10-15-20 senior 3 el. Yagi 14' boom	\$ 95 \$220
160 to 10 M.	\$850	TH6DXX 10-15-20 senior 6 el. Yagi 24' boom	\$250
TRIO KENWOOD model MC-50 Microphone.	\$ 49	HY-QUAD 10-15-20 cubical quad Yagi 8' boom	\$250
TRIO KENWOOD model TS - 700 - A FM-AM- CW-SSB transceivers, Full 144-148 MHz		TIGER ARRAY 204BA 20M4 el. Yagi 26' boom	\$250
coverage, 10-Watt output, VFO controlled,		8N-86 balun for beam purchases only	\$ 25
self-contained, AC-DC operation.	\$650	MARK MOBILE ANTENNAS	
TRIO KENWOOD model TS-600-A FM-AM.		HW-80, 6' long for 80 M.	\$ 28
SSB transceiver full 50-54 MHz coverage 10		HW-40, 6' long for 40 M.	\$ 25
Wattoutput variable from 1 Watt to full power.		HW-20, 6' long for 20 M.	\$ 23
VFO controlled AC-DC operation. Styling as		Swivel mounts & chrome-plated springs for all	\$ 13
TS-700-A.	\$650	CUSH CRAFT ANTENNAS	
TRIO KENWOOD model TR-7400 2 meter		A144-11 11 Element 2M-Yagi	\$ 45
FM tranceiver 10 to 25 watts output.		A147-11 11 Element 2 M Yagi	\$ 45
Frequency range 144.00 to 147.995 MHz No.	\$385	A147-20 combination horizontal vertical 2 M	\$ 70
of channels 800, Double conversion super-)R	ANTENNA ROTATORS	
heterodine sensitivity better than 0.4 UV for 20 I	ж.	Model CDR Ham-11 for all hf beams except	
Universe 224 model 15 watts pep 23	\$215	40 M	\$200
channel AM SSB for as low as	\$215	Model CDR AR-22 L junior rotator for small	
Universe base 240V and 12V DC. The	0200	beams	\$ 65
best value for money only	\$260	KEN model KR-400 for all medium size hf	
ICOM		beams with internal disc brake	\$110
VHF TRANSCEIVERS SSB		All models rotators come complete with 230-	
ICOM model IC-202 2 M SSB portable trans-		volt AC indicator-control units.	
ceiver 144-144.4 MHz	\$215	6-conductor cable for	
ICOM 22-S synthesized 22 channel 2 M		KR-400-500 65 cents per metre COAX CABLE CONNECTORS	
transceiver 10 channel pre programmed.		PL-259	\$1.20
Supplied with 50 extra diodes for the	4000	SO-239 Chassi Mount	\$1.20
programming.	\$269	Male to male joiner	\$1.20
ICOM model IC-502 6 M SSB portable trans-		Female to female joiner	\$1.20
ceivers 52-53 MHz.	\$215	Angle connector	\$1.70
YAESU MUSEN model FT-101-E AC-DC		T-connector	\$2.00
transceivers 10 to 160 M with speech processor	\$800	COAX CABLE	61 20
YAESU MUSEN model FT-301.	\$960	RG - 8 - U foam filled per metre SWR METER	\$1.20
	\$1140	Twin meter model: Y.M. I.E. 3.5 to 145 MHz	
**SU MUSEN model FT - 301 - S **SU MUSEN model FL-2100-BLineal Ampl.	\$660 \$525	prof quality	\$ 28
SU MUSEN model FP - 301	\$165	DRAKE TV - 3300 TV I lowpass filter	\$ 31
MUSEN FR G-7 Uses Wadley loop princ.		SSR-1 Receivers	\$270
SEN FT221-R 2 meter all		CRYSTAL FILTER, 9 MHz, similar to	
elver.	\$628	FT-200 ones. With carrier crystals. Soon Avail.	
NCY COUNTERS	1 × 1 × 1	APOLLO 3 position co-ax switches	\$ 15
MUSEN model YC-500-E-S-J	P.O.A.		

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

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WIRELESS INSTITUTE OF AUSTRALIA

Application for membership forms are available from Geoff Cuthbert, VK2ZHU, or direct from The New South Wales Division of the W.I.A., 14 Atcheson St., Crows Nest, NSW. 2065.

An organisation is only as strong as its members, so lets see what you can do towards reaching the target membership of 8000.

99 KENNY STREET WOLLONGONG PHONE 29 1455

ØKENWOOD

TS 820 H. F. Transceiver 10-160M\$960.0	00
DGI Digital Display for TS820\$160.0	0
TS 520S H.F. Transceiver 10 - 160M	0
DG5 Digital Display / Frequency Counter for	
TS 520\$170.0	10
TS 600 All mode 6 metre Transceiver\$734.0	00
TS 700 All mode 2 metre Transceiver\$675.0	10
SP 520 Extension Speaker to suit TS520-820 36.0	0
TR2200A 2 metre FM Portable\$192.0	0
TR7200 2 metre FM Mobile\$249.0	0
TR3200 70CM FM Portable\$291.0	10
TR7400A 2 metre FM Digital 25W Mobile\$444.0	0
R300 Communications Receiver\$260.0	0
MC 50 Desk Microphone\$ 49.0	10
MC 10 Hand Microphone \$ 13.0	10
HC 2 Ham Clock \$ 32.0	10
M 25 2 Metre Hi-Gain Mobile Antenna 17.2	:5
MB Mobile Base only\$ 3.6	2
M25T 2 Metre Hi-Gain (Top Only) \$ 13.7	5
Hansen FS5 SWR - Power Meter\$ 36.0	0
Hansen SWR - 6 Field Strength - SWR Meter 26.0	0
B & K 1827 6 Digit Auto Ranging Frequency Counter\$228.8 100 HZ - 30 MHZ.	15

ØKENWOOD

We also stock a range of Audio Generators - Signal Generators Digital Multimeters - Power Supplies ETC.

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PHONE 29 291455 OR CONTACT BARRY HARTLEY VK2FE

^{*}Prices subject to change without Notice,

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