PROPAGATOR

NO 11/77

NOVEMBER 1977

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THE MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO SOCIETY

A Member Club of the Wireless Institute of Australia.
Positished by the Illawarra Amateur Radio Society

PO Box 1838 WOLLONGONG NSW 2500

PRESIDENT

Bill Calvert VK2DJ 19 Springfield Avenue FIGTREE 2525

Phone No: 71 3569

SECRETARY

Brian Boseley VK2BCI Figtree Hotel FIGTREE 2525

NOTICE OF MONTHLY MEETING - NOVEMBER 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 November 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
- 6 Lecture.

LECTURE

This month we have John Milton our local Radio Inspector who will talk to us about the "Roll of the Radio Amateur". As we always have a large attendance when John gives us a talk, I would advise you to be early to ensure a good seat.

MOONBOUNCE REPORT - NOVEMBER 1977

There are no EME tests to report this month. The mail situation appears to be getting worse, as last month's 432 EME News arrived after the EME test weekend and this month's EME News has not been sighted. As this weekend was probably the test weekend it looks as if we have missed out again.

Peter ZE5JJ, has sent some preliminary information on a new type of hybrid matching system for achieving circular polarisation. If more details become available then we will consider using it to revert back to circular polarisation for the antenna of VK2AMW.

The WAC Certificate has been received to confirm that VK2AMW has Worked All Continents on the 70 cm band. Without a doubt the first WAC on UHF (or VHF for that matter) for any station in this part of the world!

SATELLITE COMMUNICATION NEWS

Oscar 7 is working well. It has now done over 13600 orbits and both Mode A (2 metres to 10 metres) and Mode B (70 cm to 2 metres) have been listened to. Good clear signals are heard on both Modes. Stations have been heard from VK2, 3, 4, 5 and 6, as well as ZL on Mode B. Signal reports of up to 10 db over S9 have been received on tests carried out on Mode B at VK2ALU. However, lower power will normally be used, which provides S6 and S7 reports.

The new satellite antenna system at VK2ALU was put up with the help of VK2's ZEN,ZRK and BRE. It is doing a good job, but a programmable control system is now being worked on, to make tracking of the satellite that much easier. Mode B contacts have been made with a number of stations in VK and ZL. One was with a station operating mobile and using whip antennas on the car'

LYLE VK2ALU

BARBECUE

The long awaited barbecue will be held, not at the venue previously stated, but at the Koonawarra Bay Sailing Club at the end of Kanahooka Road in Dapto.

The date is 20 November, the Sunday after this meeting. The clubhouse (no booze or pokies, only hot water) will be open after 10 am.

Bring your own eats and drinks. A gas barbecue will be provided and boiling water for tea or coffee will be available. No charge.

There is a good launching ramp so bring your sailboad or power boat if you have one.

To get there, go south down the Princes Highway past Kembla Grange, cross the bridge where four traffic lanes merge into two and turn left into Kanahooka Road at the traffic lights. Follow Kanahooka Road for as far as it goes and you will see the A frame sailing club building on your right.

WARC-79 - FUND - RAFFLE

STOP-PRESS - URGENT - PLEASE NOTE - RUSH

This is the last month that we can accept postal requests for tickets in this raffle.

So far, requests for tickets by mail has been almost non existent: So what about helping to back the support that the IARC is giving to WARC-79 and send us \$1.00 NOW!

There will be no monthly RAFFLE this month but we ask the meeting to support this WARC-79 RAFFLE.

As you are aware WARC79 is drawing closer and the WIA are planning to send a representative with the Australian Delegation to enable us to get the best conditions possible for Amateur Radio.

The committee of the Illawarra Amateur Radio Society have decided to assist with the expenses of sending our representative to WARC79 and have organised the following fund raising guessing competition.

The $\underline{1st\ prize}$ is a single beam CRO - TRIO "CO1303D" with a 75 cm tube and is good to 5MHZ.

The 2nd and 3rd prizes have been donated by Macelec Pty Ltd of Kenny Street, Wollongong.

2nd prize is a Texas-Instruments Progromable Calculation.

3rd prize is a Texas-Instruments Digital Watch.

Tickets will be \$1 each with a maximum of 1000 tickets to be sold. We hope to have the tickets printed and available at the next meeting.

It is proposed to conduct the draw for these prizes on the 12 December - our last meeting for the year.

For those of you who cannot get to our monthly meetings the following form can be completed and returned to the Treasurer who will then forward the tickets to you.

WARC79 - GUESSING COMPETITION

Please fill in the missing letters

O_ C_ L _ A _ C _ P ___

Please send me tickets at \$1 a ticket. I enclose \$ _____ to cover the cost of the tickets.

NAME:	•				•		٠	•	•			•	•	•	•	•	•	
ADDRES	S					•						•		•	•		•	

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).

ENROLMENT 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

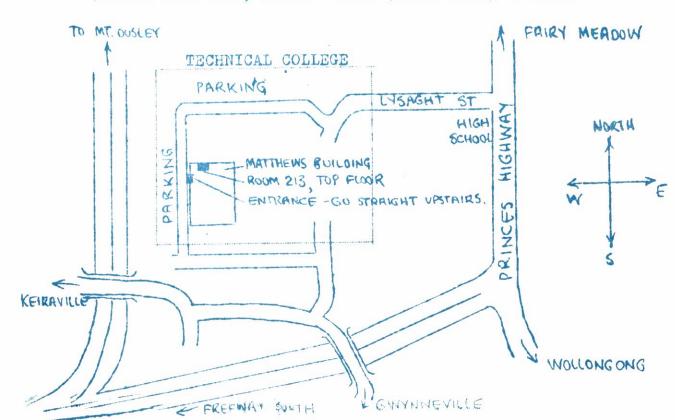
The Advanced Section of the course starts where the novice section finishes, so you can upgrade your novice licence to a limited or full licence at the August examination.

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 Wado, VK2AXI. Phone (after hours) 84-1381 .



TIME CONVERSION

G.M.T. is "Greenwich Mean Time"

Local Time is "Australian Eastern Standard Time"

	Local Time			G.M.T.		Local	G.M.T.		
12	midnight	227	0000	1400	12	noon	28	1200	0200
1	a.m.	8	0100	1500	1	p.m.	38	1300	0300
2	a.m.	100	0200	1600	2	p.m.		1400	0400
3	a.m.	25	0300	1700	3	p.m.	203	1500	0500
4	a.m.	=	0400	1800	4	p.m.	*	1600	0600
5	a.m.		0500	1900	5	p.m.	=	1700	0700
6	a.m.	28	0600	2000	6	p.m.	811	1800	0800
7.	a.m.	22	0700	2100	7	p.m.	88	1900	0900
8	a.m.	=	0800	2200	8	p.m.	2	2000	1000
9	a.m.	12	0900	2300	9	p.m.	88	2100	1100
10	a.m.	82	1000	0000	10	p.m.	=	2200	1200
11	a.m.	=	1100	0100	11	p.m.	255	2300	1300

For calls made between 12 midnight and 10 a.m. local time, QSL cards should bear the previous days date, i.e. the date at Greenwich.

e.g. a contact made at 8.30 in the morning of April the 20th 1977, would be entered on a QSL card as follows:Date: 19/4/77 G.M.T.: 2230

VK2NHG.

Oldeband Clectronics Vales

		A CONTRACTOR OF THE STABLES	
HF TRANSCEIVERS		AUSTRALIA'S SOLE DIST. OF KLM PRODUCT	3
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 (wat	(42)
160 to 10 M, with optional digital		" PA10-1408L 140 " " PA10-1608L 160 "	
readout connected externally. Can be		" PA 2- 70BL 70 "	
used as a frequency counter self contained		400 470 PA10- 70CL 70 "	
separately powered by 12 voit DC. Price will be shortly announced.		PA 2- 12-B 12 Watts	
TRIO KENWOOD model TS-820S AC only		PA 2- 25BL 25 Watts	P.O.A.
160 to 10 M with digital readout.	\$1000	HY - GAIN ANTENNAS	Da Creek
TRIO KENWOOD model TS 820 AC only		18AVT-W8 10-80 M. verticals, 23' tall no guys	\$ 95
160 to 10 M.	\$850	TH3MK3 10-15-20 senior 3 et. Yagi 14' boom	\$220
TRIO KENWOOD model MC-50 Microphone.	\$ 49	TH6DXX 10-15-20 senior 6 el. Yagi 24' boom	\$250 \$250
TRIO KENWOOD model TS - 700 - A FM-AM-		HY-QUAD 10-15-20 cubical quad Yagi 8' boom TIGER ARRAY 2048A 20M4 et. Yagi 26' boom	\$250
CW-SSB transceivers. Full 144-148 MHz		BN-86 balun for beam purchases only	\$ 25
coverage, 10-Watt output, VFO controlled,	\$650		
self-contained, AC-DC operation.	2000	MARK MOBILE ANTENNAS	\$ 28
TRIO KENWOOD model TS-600-A FM-AM.		HW-80, 6' long for 80 M.	\$ 25
SSB transceiver full 50 54 MHz coverage 10 Watt output variable from 1 Watt to full power.		HW-40, 6' long for 40 M.	5 23
VFO controlled AC-DC operation. Styling as		HW-20, 6' long for 20 M. Swivel mounts & chrome-plated springs for all	\$ 13
TS-700-A.	\$650	CUSH CRAFT ANTENNAS	Control of Section 188
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-		ANTENNA ROTATORS	
heterodine sensitivity better than 0.4 UV for 20 D	B.	Model CDR Ham 11 for all hf beams except	
Universe 224 model 15 watts pep 23		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		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 KR-400-500 65 cents per metre	
ICOM 22-S synthesized 22 channel 2 M		COAX CABLE CONNECTORS	
transceiver 10 channel pre programmed.		PL 259	\$1.20
Supplied with 50 extra diodes for the		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 \$2.00
YAESU MUSEN model FT-101-E AC-DC	testa i	T-connector	34.00
transceivers 10 to 160 M with speech processor	\$800	COAX CABLE RG - 8 - 11 foam filled per metre	\$1.20
YAESU MUSEN model FT-301.	\$960	RG - 8 - U foam filled per metre SWR METER	
IMEDO INIOSEIA IIIOGO	\$1140	Twin meter model: Y.M. I.E. 3.5 to 145 MHz	
YAESU MUSEN model FT - 301 - S	\$560	prof quality	\$ 28
YAESU MUSEN model FL-2100-BLineat Ampt.	\$525 \$165	DRAKE TV 3300 TV I lowpass filter	\$ 31
YAESU MUSEN model FP - 301 YAESU MUSEN FR G-7 Uses Wadley loop princ		SSR-1 Receivers	\$270
VAESU MUSEN FT221-R 2 meter all		CRYSTAL FILTER, 9 MHz, similar to	
mode transceiver.	\$628	FT-200 ones. With carrier crystals. Soon Avail.	A 15
FREQUENCY COUNTERS		APOLLO 3 position co-ax switches	\$ 15
YAESU MUSEN model YC-500-E-S-J	P.O.A.		
TAESO MOSEN HOURT TO SOUL SS			

All prices quoted are net SYDNEY, N.S.W., on eash-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, LOFYUS

P.O. BOX 184, SUTHERLAND, 2232

OPEN ON SATURDAYS TILL 12 NOOM

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.

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

FOR SALE

MR10 converted for 2 metres - complete with crystals for 146.00 MHZ (channel 40).

Contact Richard VK2ZVX phone 29 8079 after hours

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

Kenwood trio communications receiver 9R-59DS.

Accurate calibration. Has been tested and needed no tuning at all. Complete with 60' horizontal aerial if required and handbooks - \$130 ono.

A McEwan 7 Nioka Avenue, Keiraville 2500 - phone 297636

Frankston & Mornington Peninsular Amateur Radio Club Seminar

19-20th November, 1977

Venue: PRINCE OF WALES HOTEL
- ST. KILDA

Theme: ANTENNAS AND PROPOGATION

PACKAGE NO. 1 INTERSTATE DELEGATES ONLY includes:

Two night's accommodation, Twin Share Basis;
Morning & Afternoon Tea, both days;
Lunch, both days;
Dinner, Saturday Night.

Also bound copy of papers.

PACKAGE NO. 2 INTRASTATE DELEGATES ONLY includes:

One night accommodation, Twin Share Basis; \$38

MAIL TO:

P.O. BOX 38 FRANKSTON VICTORIA 3199.

COMPONENTS FOR SALE

	Ber Translation	The second secon		the state of the s	
ADDITIONAL ITEMS	IN STORE.		ISC CAPACITORS.		
			001	6 cents	
BC.109	20 Cents.		0047	6 cents	
MPF.131	85 cents.		01	6 cents	
54 8 6 FETS	65 cents.		022	6 cents	
1N4148	10 cents		047	8 cents	
0A91	12 cents	٠	Ī	10 cents	
TANTALUM CAPS.		and a	at v. = . = = = = = = = = = = = = = = = =		
.47 MF	17 Cents	10 MF		25 cents	
.1 MF	17 Cents	22 MF		45 cents	
4.7 MF	18 cents	47 MF		65 cents	
Vernier dials 3 DPDT slide swit Four pin plug s	and socket - pair s - large, insulated stenna Base	o for ½ turn dis	25 c 15 c		
CONDENSERS				4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Small solder ty Wire wrap type Ceramic bolt-de		pacitors	30c 5c 10c 10c	10c \$1.00 10c \$6.00	
	4.7 uF 100 uF 220 uF 470 uF	6c 12c 15c 20c		CB mounting glass PCB.	
. "BELL"	ING LEE" MOBILE ANT	ENNA BASES \$4.00	O EACH.	for PCB fibreglate with	
NEOSID	24 ga g	v m	ái		
Formers Balun formers	- smell - large		8e 12e - 15e	ITEMS immers pprox. r comp	
Cans	- single - double - F 16,		10c 12c 7c	STORES 3pF tr x 6" a forme	
METERS				NEW S -13 -12 x Coil 2" sq	
S Meter 400uA Level Meter du 0 - 1 mA Meter 0 - 1 mA Meter	al 200uA meters, il 50mm square	luminated	\$2.50 \$3.00 \$4.00 \$5.00		
RESISTORS					
	att resistors. ues 10, 47, 68, 100 , 6.8K, 10K, 22K, 4				
ANTENNA WIRE					
70 70		a Oum 22 mark	Con committee	at marthan	

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.

MACELEC 99 KENNY STREET WOLLONGONG PHONE 29 1455

SKENWOOD

TS 820 H. F. Transceiver 10-160M\$9	60.00
DGI Digital Display for TS820\$16	60.00
TS 520S H.F. Transceiver 10 - 160M	99.00
DG5 Digital Display / Frequency Counter for TS 520	70.00
TS 600 All mode 6 metre Transceiver	34.00
TS 700 All mode 2 metre Transceiver	75.00
SP 520 Extension Speaker to suit TS520-820 \$	36.00
TR2200A 2 metre FM Portable	92.00
TR7200 2 metre FM Mobile\$2	49.00
TR3200 70CM FM Portable\$29	91.00
TR7400A 2 metre FM Digital 25W Mobile\$4	44.00
R300 Communications Receiver\$2	60.00
MC 50 Desk Microphone	49.00
MC 10 Hand Microphone\$	13.00
HC 2 Ham Clock	32.00
M 25 2 Metre Hi-Gain Mobile Antenna	17.25
MB Mobile Base only	3.62
M25T 2 Metre Hi-Gain (Top Only)\$	13.75
Hansen FS5 SWR - Power Meter\$	36.00
Hansen SWR - 6 Field Strength - SWR Meter	26.00
B & K 1827 6 Digit Auto Ranging Frequency Counter\$2.	28.85

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

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99 KENNY STREET WOLLONGONG
PHONE 29 291455 OR CONTACT BARRY HARTLEY VK2FE

^{*}Prices subject to change without Notice,

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Registered for posting as a publication
CATEGORY B.

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MR.L. PATISON VKZALU 98 HEASLIP STREET WOLLONGONG

.2.A.A.I P.O. Box 1838,

MOTTONGONG' NZM 5200

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