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PROPAGATOR

MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO SOCIETY

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

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MONTHLY METTING - Second Monday of each month, 7.30 p.m., at the Congregational Hall, Coombe Street, Wollongong.

CITTE STATION - VEZAMW

CHIP REPEATERS - VK2RAW Ch 5 (2 metres); VK2RUW Ch 1 (70 cm).

MCNTHIY EROADCAST - 7.15 p.m. on the Sunday preceding the meeting night. Proadcast frequencies are:

Repeater Channel 5 (or simplex channel 40) Repeater Channel 1 (70 cm) 28.46 MHz USB.

CITE NETS - 6 metres 8.30 a.m. Sundays - 52.525 MHz FM. 10 metres 8.00 p.m. Sundays - 28.460 MHz USB.

THIS MONTH'S MEETING -- Monday 12th May, 1980. 7.30 p.m. at the Congregational Hall, Coombe Street Wollongong.

A 10 metre pedestrian fox hunt will be run, starting from the meetics hall. Frequency will be 28.350 MHz. So bring all the 10 mobre sear you can!

The meeting on 14th April was well attended.

Roser Graham, VF2AIV demonstrated his homebrew antenna rotator and Firection readout. The rotator was based on a washing machine gearbox and windscreen wiper motor supplied at no cost by Terminal Industries Pty (better known as the TIP). The readout used a multiple position rotary switch, a circle of LEDs, and diode steering to reduce the number of connecting wires. A very nice unit.

Station equipment of the late Kaz Skulimowski, VK2NUP, was auctioned by Denis VEZVDM/YPI, with all the proceeds being returned to Mrs. Skulimowski.

The raffle prize (ARRL Handbook, Bill Orr's "Wire Antennas" and Dick Smith's "Australian Amateur Radio Handbook") was carried off by Tyle, VEZALU.

Clank nametags with dymo tape and writers were available to make eyelall QSOs easier, and the new coffee (tea) mugs purchased by the club could well turn out to be the best investment yet.

Oxley Region Amateur Radio Club Field Day, on Saturday and Sunday of June holiday weekend, at Fort Macquarie. Write to the club secretary at . . . Pox 712, Fort 'acquarie 2444.

** Southwest Amateur Radio Society Field Day - October 25th and 26th, at

Griffith Showground. Write to the secretary, Griffith Radio Club, 1.6.

Tox 4. Griffith 2680.

WICH NEWS - ICVICE SPECIAL

The quietness of the Wollongong group is to be shattered this year. Wicen members should have had plenty of time to recover from our last marathon at Eden. At long last (several years) I have in my hot little hand a copy of the WICEN course handbook. A full training course is to be run VERY soon, before excuses can be mustered.

There will be two courses run, one in the first half of the year and one in the second half. To be on the WICEN list you must have attended one of the training sessions.

The courses are of special interest to those who have mobile facilities to offer, as well as those who would operate fixed station only facilities. Ilease feel welcome to attend. Time and date to be advised.

Frequencies.

The 2 metre Sydney WICEN frequency is 145.7 MHz. This is a watched channel and should be avoided for normal communications if possible.

A WICEN net operates on 3.620 MHz on Thursday nights at 2130K (9.30 y.m.).

Operations.

WICEN has not been activated during the past 12 months in this area. However we have been on standby via the State Emergency Services.

Exercises.

These are at present being planned with the State Emergency Services. There will also be a statewide exercise to involve all WICEN operators. A local - and I do stress local - (that's a WICEN in joke, after Eden) exercise to be held during first half of the year will simulate welfare traffic after a major geological excursion.

Illawarra WICEN includes the far South Coast and Mittagong areas. These are capably looked after by Vic W/2VI, and Parry VM/2ZAG respectively. The Littagong group recently held a very successful exercise.

Questions.

Do you have to have a licence to join WICEN? - NO. All sorts of people are utilized during an exercise or an operation, including the all-important people who keep the tea and coffer flowing.

- Jim Fotts, VK2BBG.

STIAMROLLER IN DISTRIBS STARTS A SCAPE AT SEA

As the storm which ravaged the south blew itself out last night a full-scale air-sea rescue operation was ordered in the Bristol Channel for the survivors of an air crash. All shir ing was warned to look out. Coastguards watched. Lifeboat graws stood by. A Shackleton crew at R.A.F. It Mawgan, Cornwall, prepared to take off as soon as the weather cleared.

But the alarm was called off - when police traced the distress call to a road roller on the M5 between Almondsbury and Cribbs Causeway, six miles north of Bristol. The driver, unable to work in the storm, had signalled to his mates two miles up the road:

"Mayday. Weather terrible. In ditching for tonight."

The international distress signal was picked up by radio ham Mr. Ray Smith of Patchway, Pristol. He range the police, the police range the airports... A spokesman for Gloudestershire police said last night:

"The driver who sent the message is an ex-R.A.F. radio operator."

- "Daily Wail"

DEFINITIONS:

Sween Generator: essential machine in a broom factory.

Plate tuning control: dial for a musical meal.

Feedline: queue outside a cafeteria.

CONTURNE UNERS GROWE: Letter to the Editor.

hear Sir.

I would like to advise your members that there is now a "Wollongong Commuter Club/Hsers Group".

As can be seen from magazines such as "73", Computers and Amate.r Tadio ro side b side.

We have two amateur radio members at the Loment. One has written a corse transmit and receive program for the 650 CFU which would be of interest to some of your members.

We require the following: 'embers -

who have a computer

(2) are building a computer

are thinking of building or buying a computer

who can't afford a committer

(5) who have good ideas to put a computer to use - e.g. teletype, lore, e To date we have the following computers:

3 TRS 80 level II, one with disc.

2 Chio Scientific.

1 Dream 6800.

1 Euro Card (Fob Armstrong) 2650.

2 Ordinary 2650.

1 Sorcerer.

We have software to exchange for all of the above.

We have members writing in Tachine Janguage, Pasic, and Micro Talic. Some of your members may not be sure which computer will suit them, so

new is their chance to play with ours, find out what they do, and then the one that suits them.

We have members that have no computers - Just a common interest. have been around for only about 12 months we have no fees - just fur.

Any of the following can be contacted for more information and datails: of mostins times, etc. -

Paul Janson, Darto, 615411 Garry Melson, Farmhorough Meights, 714054 Graece Jackson, Wollongong, 295876.

> Thanking you, Taul Janson.

It has been decided to raffle a Fenwood 3M-220 Station Monitor, ex Willium, which is in mint condition and working perfectly. 160 tickets orly will be sold, at \$2 per ticket or 6 tickets for \$10. Tickets will be on sale at the next meeting. A worthwhile riece of gear, so dig deep and tring your money with you.

RIPS AND HIRCES ...

- For the June meeting, it is hored to have slow-scan television gear le constrated.
- On Wednesday 23rd April Gio Donk VK2VPD and Duncan Laidler VK2YEP started their first CW class at Warilla High, and also made their first Peretre contact with Sydney from the school radio club.
- Tro-apator Trinting Troblems... with the revious printer no longer available, any information members may have about an affordable printer would le ver; welcome.
- The committee is considering the acquisition of permanent clubrooms for
- the society. Teain, any information about rossible premises would be welcome.

 Ilans are afont to resite the Channel 5 reseater. The proposed location ives improved coverage in Wollongong, with hopefully little reduction in one I stant areas. Further testing of the site is proceed soon.

NE THAT THE TA 1090:

The new very low noise receiving prear lifter has been built, and is in adjusted for lowest noise figure.

is it is not predent to use a gas tule roise generator as noise input to a 3'SFFF type preamplifier, a prise factor comparisor is being made un ill assistance from VI 2ZHU who produced the crintel circuit board.

- Ighter transfer.



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PROFESSIONAL & INDUSTRIAL ELECTRONICS

AMATEUR RADIO PRICE LIST

1203 80-10 Metre Transceiver 10 watt	. 87
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DAIWA

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reference took a law angreef reference to the united by and restar resists this test or .

DC TO DC CONVERTER FOR THE TS5203

To operate the TS520S from 12V DC, you can spend about \$70 on an optional commercial converter, or about \$5 on a homebrew version!

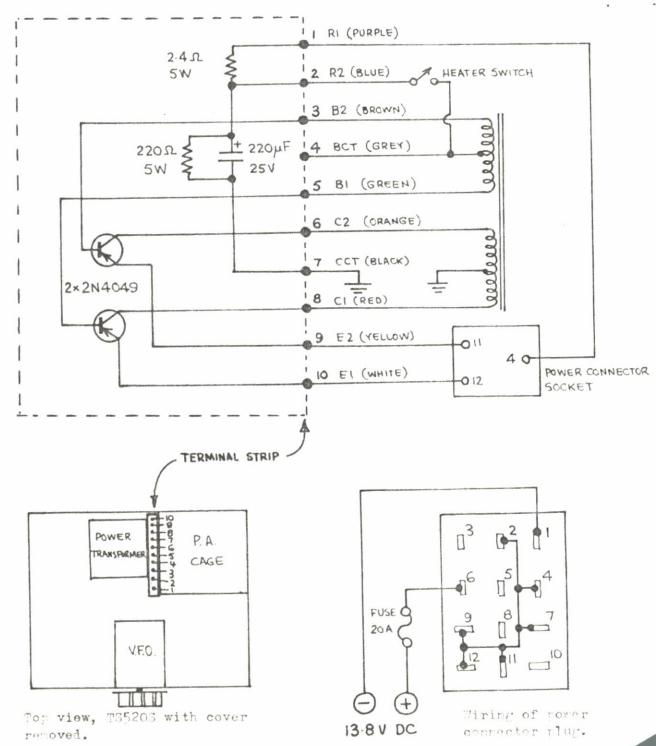
- 1. Make up the chopper circuit shown in the dotted box. Only a modest heat-sink is needed for the transistors.
- 2. Take the top cover off the T35203 and find the terminal strice between the power transformer and PA cage (see diagram). Bun wires from the chopper to the terminal strip.
- 3. Wire up a power connector plug as shown.
- 4. Fire up on 12 volts DC:

Note on transistors:

The specified transistors (2N4C49) have hefty ratings and a price to match: PNP; germanium; V_{cb} 60V; V_c 45V; V_{eb} 3CV; I_c 60A; F_{tot} 17CW; and price about \$25 each.

However, Ian VEZDES reports that he has open ted at novice power levels using a pair of 2N277 transistors: INP; Germanium; $V_{\rm cb}$ 40V; $V_{\rm ce}$ 25V: $V_{\rm cb}$ 20V; $V_{\rm ce}$ 15A; $V_{\rm cb}$ 156W.

Best of all, the 2N277's can presently be obtained, on heatsinks, from the club store and other sources, for a few dollars.



A QUOTABLE QUOTE

"There are some simple rules for promoting club growth which I can pass onsuch as making sure that your club meetings are fun to attend. That may sound too simple an idea, but unfortunately, I have been to far too many club meetings which were anything but fun. Long battles over buying paint of spruce up the club room will not bring back the membership to the next meeting.

Let me provide some basic rules for getting clubs to grow. I mentioned that mettings should be funthat means that the business end of the meeting should be kept mercifully short. The business aspect of a club should be handled almost 100% by the executive of the club, with merely brief reports to the memberhaip. There is a tendency on the part of some nitpickers to try to get long bitter battles going over obscure matters; somehow the whole club joins in and the meeting goes or endlessly with evereyons deeply involved in the discussion. It seems that this amount of participation and interest must be good for the club.....NOT TRUE. The fact is that many of the battlers will find something more enjoyable to do instead of the next meeting..... like watching television.

Think of the club meetings as show biz. Look for some interesting people to bring in and talk to the group. If you have any Ham manufacturers in the area, draw on them. Arrange shows of RTTY, SSTV and any other new or unusual developments. Microcomputers are also a big draw. Get some of your experts to talk about DXing, satellite communications.....maybe a short QSL show and tell during each meeting for the DX gang to brag about their accomplishments. New equipment is always of interest. If someone has built a piece of gear, have a show-and-tell about it.

Club projects are a plus. Novice and higher class licence classes will only help the club to grow. If you don't have at least 50% youngsters in your club then you may find that it is in the hands of some old-timers who are keeping out the youngsters and newcomers."

WAYILE GREEN W2NSD 73 Jan., 1980

If you have any comments on the above there is a list of committee members on the front page of the PROPAGATOR. It's your club, need I say any more.

DENIS VK2VDM/YPI

DX REPORTS

Jim WP2VPS worked Tom ZEIAN (Phodesia) on 28.53 MHz from 5.45 to 6.00 p.m. local time on 4th March, using a converted CB set with 12 watts into a quarter wave vertical at 30 feet. A good contact into a country no longer on the map! Jim also seems to have the ideal random wire antenna - 3.W.P. is less than 3:1 on all bands - without an antenna tuner - and it gets out all right.

John VIZVWT while on holidays (mobile) down at Nowra on the Easter weekend with his 10 metre rig, 15 watts FEP and ministick converted antenna made contact into Santa Rosa, Brazil, with station PY3CB - and is now anxiously waiting for his QSL card.

NEW CALLS

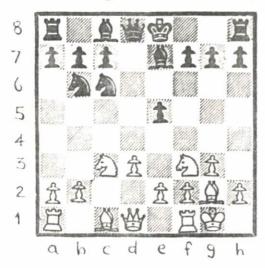
Congratulations to Fred Zickar VK2YSB on his new callsign - Fred is hoping to get onto 2 metres FM with a (much modified) ex-AM rig. Congratulations also to Jim Smith VK2VPS who has passed his full theory exam.

KARPOV v's THE WORLD

On the 13th of January, Radio Moscow started a radio chess match for short wave listeners. The match, given the title above, engages World Chess Champion Anatoly Karpov, against all who care to partake.

Every second sunday a new move by the World Champion is announced, listeners then consider their move and reply by mail. The most popular move selected by listeners is then taken as the move for 'the World' and played against Karpov.

Here is the game as at 20/4/80 :-



1. Pc4, Pe5 2. Nc3, Nc6 3. Nf3, Nf6

4. Pg3, Pd5

5. Pxd5, Nxd5 6. Bg2, Nb6

7. 0-0, Be7

8. Pd3

(0-0 = king side castling)

White : Karpov Black : The World

The complete rame is played through at the beginning of each broadcast to give you the latest position. Listeners may send in moves at any stage through the game. The next moves will be announced on the 4th and 18th of May at 8.30 pm local time. I listen on the following approximate frequencies - 15130 kHz & 17840 kHz. Moves are addressed to - 'Karpov v's The World', Radio Moscow World Dervice, Moscow, USSR. - George SWL







NOVICE SECTION

ZENER VOLTAGE CHECKER

Gio Donk VK2VPD 22-2-180

Have you ever needed a zener diode of a certain value and not been able to read the numbers on your diodes in your spare-parts box? Or if you could read the number, you could not find it in your reference book? Or knew what voltage your zener was supposed to be but when put into the circuit it did not meet up to specs? Well I have, and I could not find a simple circuit for a zener tester either. So I designed my own. You will need:

1 SPST switch; 2 9V batteries; 1 2M linear pot; 1 2K2 resistor 1 Strepsils tin (or any small container); 2 alligator clips (red and black); some covered wire; and a small amount of tin for making battery holder which is to be soldered into the bottom of the tin.

The current limiting resistor was picked as 2K2 ohms because larger values seemed to drop the voltage too much, and smaller values blew up too many diodes(2.2k is just right). The two 9 volt batteries hooked up in series allows any zener up to 16 volts to be tested(the range between 16-18 V is not very reliable).

The pot should be set for QV every time a new zener is tested, then wound up until meter no longer rises. The pot acts as a voltage divider and prevents the diode from being overtaxed with too great a voltage.

