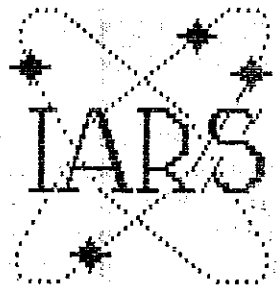


THE PROPAGATOR



ILLAWARRA AMATEUR RADIO.SOC.INC.

MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO. SOC. INC.
VOLUME - 86 , NUMBER : 10 NOVEMBER 1987.
REGISTERED BY AUSTRALIA POST PUBLICATION NUMBER : NBH - 1491.

MEETINGS ARE HELD ON THE SECOND TUESDAY OF EACH MONTH ,
(EXCEPT JANUARY) AT 7.30.PM. AT THE STATE EMERGENCY SERVICES ,
BUILDING , IN MONTAGUE STREET , NORTH WOLLONGONG .
VISITORS ARE MOST WELCOME TO ATTEND THE MEETING'S .

PLENTY CONTACTS ON 1987 JOTA

Another Jota has come and gone & I wouldn't be surprised to hear a few sighs of relief! This year Ron VK2DXQ, Sep VK2KIH and myself were at the Girl Guide camp, Mt Keira on the Saturday and Rob VK2MT helped me out on the Sunday.

We arrived on site on the Friday after work to erect aerials in the heaviest rainstorm I have seen in years. Despite this, we managed to set up 2 HF stations and a VHF station & erect 3HF aerials and 1 VHF aerial.

The HF aerials were the mandatory inverted V, a 20m vertical square loop and a horizontal loop with a total length of 320m and open wire feeders.

The big loop was plugged into my set, a FT707 and the results were so pleasing that I used it all weekend.

Rob VK2MT arrived on Sunday, erected a 20m monobander and used that.

Lots of contacts were made within Australia and New Zealand but only 1 in NSW!

TWO NEW MEMBERS

Two new members were approved at the October committee meeting. They are John Matthews VK2ZDM of Randwick and Tim Causer VK2XGU of Malabar.

It was reported at the meeting that the Mt. Murray 2mx antenna is nearly ready to be re-erected.

-----*****-----

This was 2 hrs & 50 mins with a very large Brownie group at Bathurst.

Saturday night was the highlight when contact was made with a Hobart Scout group.

Addresses were exchanged and it was very entertaining QSO.

Again, very few visitors arrived to talk on the radios. Although all the girls in camp had at least one try on the microphone, when the interesting countries came up, no one was there to talk, except the operators!

Maybe next year we could advertise it better, so that a few more people turn up. I must admit I did thoroughly enjoy the weekend and when you see the looks on the kids' faces you know all the effort is worthwhile.

Next year we could experiment with different aerials. So that we can talk to different countries.

Thanks once again to the operators who helped at both ends.

73s Jim VK2EJH.

STOPPING THE SILENCE

While not life-saving devices, implants in the cochlea, or middle ear, can break down the barriers of silence that surround the deaf. The vast majority of patients who have received cochlear devices became deaf after they learned to speak. Although the devices can be used by the prelingually deaf, it is currently difficult to interpret what they perceive with the implants.

With a cochlear implant, some deaf patients perceive a range of buzzing sounds, some can understand spoken words when combined with lipreading.

A range of factors that cannot be quantified, such as the perceptual adaptability of the patient, have significant influence on what a deaf person perceives. Lack of standard tests for cochlear implant effectiveness make it difficult to compare the test results of different companies.

Consequently, there is wide disagreement in the profession about what a patient might "hear" with different devices and which of the devices might be most effective.

In cochlear implants, which rely on electrical stimulation of auditory nerves, an electrode is inserted either near or inside the spiral-shaped

cochlea. Currently one prerequisite for the implant is profound sensorineural deafness—absence of the hair cells that change mechanical vibration into electrical impulses, despite a functioning auditory nerve.

Candidates for the implant must also be unable to benefit significantly from a hearing aid.

All cochlear devices employ an external microphone, an electric processor, a transmission system to relay electric signals to the electrode, and one or more electrodes for stimulating auditory nerves, but there the similarities between the devices end.

The extracochlear implant, being outside the cochlea, is widely perceived to be the safest. It must, however, use more energy to stimulate the nerves than internal versions.

CONTINUED NEXT PAGE

WHICHEVER WAY YOU LOOK AT IT
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SILENCE CONTINUED

Other devices are placed within the cochlea. The 3M House device, first developed by William F House of the House Ear Institute Los Angeles, is a single-electrode unipolar implant.

Analog signals are transmitted through the skin, from a transmitter coil to an internal receiver coil, by magnetic induction. The platinum electrode is inserted approximately 6mm into the cochlea. To an observer, the patient appears to be wearing a hearing aid.

The single-electrode implant is not inserted deeply into the cochlea, the potential for damage to the auditory nerves is considerably less than with more complex devices. The unipolar electrode, however, does not permit differential control over the portion of the auditory nerve that is stimulated.

Still in clinical testing is the 3M Vienna implant, a unipolar single-electrode device, which can be used either inside or outside the cochlea. An analog processor matches a loudness curve for the patient against a computer-generated curve to tune all frequencies to equal loudness. The greater flexibility of the Vienna processor allows a better match between the patient's electrical hearing and the characteristics of speech sounds than the House implant does.

Symbion Inc. is clinically testing the Ineraid Artificial Ear, a device with six unipolar electrodes. After implantation, the

"best" four electrodes are identified; the other two are not used.

The Ineraid is also the only cochlear implant that directly connects the electrodes implanted in the cochlea with an external sound processor that can be worn on a belt.

An 8-prong plug, 0.4 inch in diameter, connects the sound processor to the electrodes in

perienced topical infections, Symbion representatives say the problems have been minor. The company hopes to obtain full market approval by the end of this year.

One of the furthest steps in speech processing has been taken by Cochlear Corp. Its implant uses a 22-contact electrode array that can provide up to 21 separate frequency bands. The implant extracts specific features from speech and presents only this information to the cochlea. Specific contacts located along the auditory nerve are activated one at a time.

From work done at the University of California in San Francisco, comes the Storz Multi-channel Cochlear Implant, also in clinical trials. The device delivers analog signals simultaneously to four electrode pairs. Although electric current interaction may blur the sounds, the Storz device uses a configuration that its developers say minimises this problem: the bipolar electrodes are oriented radially, 2mm apart, at right angles from the core of the electrode along the length of the auditory nerve.

taken from T.S. News.

COAST-WIDE COMMUNICATIONS

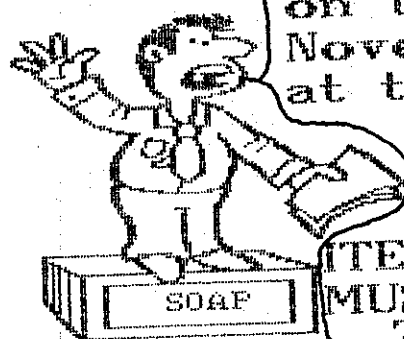
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VK2KWN WAYNE NEWPORT

the cochlea, via a percutaneous device implanted in the bone behind the ear. While some of the more than 45 users of the Ineraid have ex-



AUCTION SALE
on the 10th of
November 1987.
at the Meeting
PLEASE
DO NOT
BE LATE
ITEMS TO SELL
MUST BE IN BY
7.15.PM. TNX

CHRISTMAS TOURING

Xmas isn't far away and soon most of you hams will be hitting the road for those far distant places to relax and enjoy yourselves on holiday.

BUT, before you pile all that gear into your jallopny, and with your family, head for the open road, spare a thought of what you might have to do if an emergency arises and your faithful old **BANGER** breaks down.

For instance, would you know what to do if you got a flat tyre on a awkward cambered road, and your car is too low to the ground to get the jack under?

If you said yes then good for you. If you said no then you had better read on and find out a few pointers on how to **SURVIVE** on our roads.

1- If you are ever caught in the above situation (and with modern cars this has happened often) do the following:- After pulling into the side of the road, get your **SPARE** tyre out of your boot and place it in front of the flat tyre, then proceed to drive forward onto it. This has now lifted the car up giving you plenty of room to put the jack under.

2- If you have boiling up troubles, (the car, not you) then wait till the water in the radiator has cooled down sufficient to remove the rad cap with safety, then put a piece of rag

(a hanky will do) over the hole and tie it on with some string etc.

With this done start up the car and driving at a maximum of 60Kph, look for somewhere to replenish your radiator. A good spot to look for at this time is the local watering hole. Remember to put your rad cap somewhere safe for when you're top up.

3- If you get vapour lock (your car silly) this means the petrol in your petrol pump has turned into vapour (caused by running hot on a very hot day) and no petrol can be pumped up to your carby, the result is no petrol and inertia of your beloved jallopny.

To get the old girl going again (the car not the **XYL**), pour a cup of cold water over the pump and pipe that goes up to the carby.

4- Light troubles. If a rear light bulb blows out and you haven't been carrying spares (shame on you) don't panic as in most cars the reversing light bulbs will often fit and get you out of trouble. Also don't forget your interior light has a bulb in to.

PHYSICS department: if you thought lead was the densest metal around, you're wrong! The heaviest stuff is osmium, and an ingot about the size of a dollar note would weigh about 6kg. Osmium is the worst smelling element too — it readily oxidises and the resultant gas is nasty and poisonous. It is very hard, and was used in light-bulb filaments and pen nibs.

5- How to avoid prang-ups the answer is sell the car and stay at home. If this isn't a satisfactory answer then use these techniques:- if a sign says 110 k.p.h. it doesn't mean by law you have to drive in this section of the road at 110 k.p.h., what it means is the maximum is 110 k.p.h., if you have your wife and kids with you and a load on the roof rack etc. and you want to get to where you are going then ignore the maniac who seems hell bent on keeping a date in Hades and chug along at your own comfortable speed.

Better to arrive late than **D.O.A.** (Death Of Amateur).

When going down steep hills (such as similar to the infamous **Rulli Pass**), check brake at top before proceeding if all is O.K. drop down a couple of cogs into lower gear. **DON'T** keep foot on brake, this is the quickest way for a **BRAKE FADE** and putting 10 years on your life when you arrive at the bottom of the hill in one piece (if you do).

The best way is drop down a few cogs and touch brake pedal occasionally, preferably on any straight stretch of the hill. Keep checking ahead for places to run up against if brakes give out. The last thing you can do if all else fails is to keep the car in the lowest gear possible and switch off engine.

WARNING Do NOT turn key **COMPLETELY OFF** as this will sometimes **LOCK UP** your **STEERING WHEEL**. O.K. that's all for now, good motoring. Dave (VK2 PZY)

October committee meeting

A well attended meeting discussed the repeater proposals mentioned at the October general meeting.

Rob VK2MT reported that the Mt Keira guide camp was operated at for Jota weekend. A variety of antenna types was tried with varying success as propagation was limited by the conditions and the site.

Anyhow lots of Girls had a chance to try their voice on air and the Boys enjoyed themselves.

Details of weekend activities in cluded in this issue.

October Monthly Meeting.

Twenty-nine members attended the October meeting. Dave VK2YKQ/VAV gave a progress financial report and the meeting discussed digipeater operations. After general business the meeting became a ragchew and the store did some brisk business.

A meat raffle was won by John VK2XGJ and the usual tea and bikkies concluded the evening.

A new new member present was David Warner who we wish the best of luck in the next exams.

AUCTION AT NOVEMBER MEETING

As usual the Club annual auction will take place at the November meeting.

Members can bring their surplus items and are assured of a wide range of other peoples surplus items. In order to allow time to organise lot numbers with items to auction should arrive before 7.15 pm.

There will be a number of car phone transceivers from Graham who says they are a better batch than the last lot. We hope to have some CO-AX donated as well.

INFORMATION REQUESTED.

The repeater committee request any info on design and construction of duplexers for 70cm repeaters. Please contact Phil VK2TPH

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BITS AND PIECES ODDS AND ENDS

Lack a centre-tapped heater transformer?

Just as a problem exists these days in locating components suitable for high-voltage rf applications, so one finds increasing difficulty—or out-of-this-world costs—in providing the power for the valves still needed in linear amplifiers.

The 50W (10V at 5A) directly-heated filaments of the rugged and still-popular 813 tetrode have always been something of a problem, with their requirement for a hefty centre-tapped heater transformer, especially where several of these valves are used. W. M. Frost, G3OHE, has found a simple but effective solution to this problem that he has never seen suggested in print. His idea is shown in Fig 4. He writes: "D1 and D2 are 1A silicon power diodes, piv rating unimportant. In regard to anode current, the 813 filament(s) act as a centre-tapped resistor to equalise diode currents. Should a small amount of standing bias be required for the 813 over and above the 0.7V that always exists with this arrangement, several diodes can be used in series in each filament/earth connection, providing 0.7V times the number of diodes in each leg (which should of course be equal in number). Whether or not the mode of operation is precisely as outlined above may be open to question, but certainly the arrangement works well in practice."

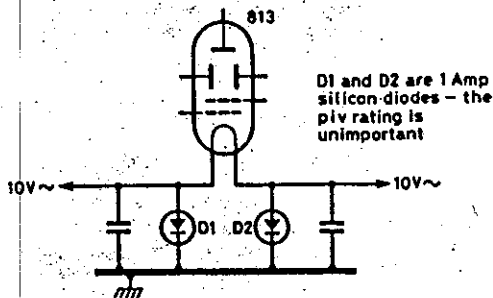


Fig 4. How a pair of 1A diodes can substitute for a centre-tapped transformer for the directly-heated 813 etc

Nicad charger

Brian Walters, GW3YSP, recommends the use of a 7805 three-terminal ic

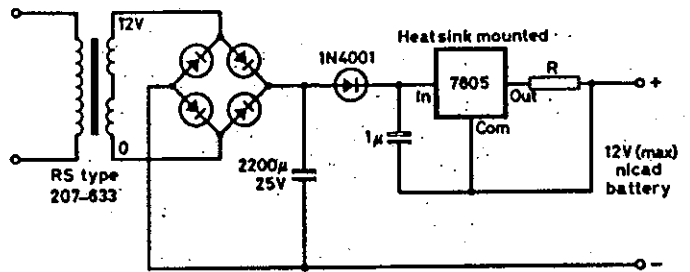


Fig 10. Constant current nicad charger using three-terminal ic regulator chip

regulator chip as a constant current source for charging nicad batteries. For the past five years he has been using this technique, which he took from RS data sheet No R/2854 issued August 1978, for batteries up to 5Ah capacity with a 12V maximum voltage.

The action of the 7805 results in the voltage-drop across R (Fig 10) remaining constant at 5V. Hence the voltage across the output and "common" terminals of the regulator chip is 5V, the regulated output voltage of a 7805. Table 1 lists the value of R for charging various cells, which may be single-cells of 1.25V up to 10 cells in series providing approximately 12V. For other charging rates and cells, R is given by 5/(charge rate), remembering that the normal charge rate for long life of a nicad cell should be around 0.1C of its capacity, ie a 5Ah battery would charge at 500mA for 14h. Some nicad cells are suitable for fast-charge but with a simple charger without a timer or voltage sensing it is far safer to stick to the 0.1C rule.

Table 1

Nicad cell type	Charge current	Value of R	
		Ohms	Watts
AA	66mA	75	0.5
C	250mA	22	2.5
D	500mA	10	2.5
PP3	9mA	560	0.5

GW3YSP suggests it may be possible to use the higher voltage 7812 (12V output) and a higher voltage mains transformer to charge 24V stacks using the same principle, although he has not tried this. He adds a timely reminder that nicad cells should generally be discharged to the 1V/cell level prior to recharging. Two or three complete charge/discharge cycles can often restore a battery which has developed a so-called "memory" to full normal working order. When discharging batteries the 0.1C rate is advised. □

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TRIMMING COAX

"Thus a vertical 5λ/8 antenna, whether elevated or not, has a built-in advantage for low-angle radiation of 3.07dB over a vertical λ/4 antenna, and presumably 3.07 - 0.26 = 2.81dB over a vertical half-wave dipole. If this advantage is not observed in practice, it is almost certainly due to incorrect matching of the antennas, and to different power levels delivered to each by the transmitter."

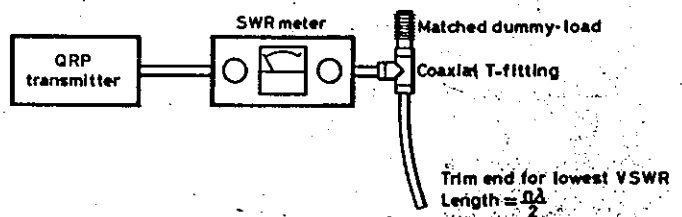


Fig 11. G3SEK's method of trimming coaxial cable to length

For hf operators who cannot reach 5λ/8 (225°) it is worth mentioning that the 110° vertical mentioned in the April 77 (2000 vertical) does show a useful sharpening of the vertical radiation pattern, though less than the optimum 5λ/8.

AUSTRALIA AMATEUR DIGITAL COMMUNICATIONS GROUP.
ABBREVIATIONS COMMONLY USED IN PACKET RADIO AND DATA COMMUNICATIONS.

ACU - Automatic Calling Unit.
ADCCP - Advanced Data Communications Control Procedure.
ANSI - American National Standards Institute.
ASCII - American standard Code for Information Interchange.
BBS - Bulletin Board System.
BPS - Bits Per Second.
CCITT - International Consultative Committee for Telegraph and Telephones.
CP/M - Control Program for Microprocessor.
CPU - Central Processing Unit.
CRC - Cyclic Redundancy Check.
CRT - Cathode Ray Tube.
DAA - Data Access Arrangement.
DCE - Data Communications Equipment.
DOS - Disk Operating System.
DPLL - Digital phase Lock Loop.
DR - Digital Regenerator.
DTE - Data Terminal Equipment.
EIA - Electronic Industries Association.
EPROM - Erasable Programmable ROM.
FCS - Frame Check Sequence.
FDM - Frequency Division Multiplexing.
FSK - Frequency Shift Keying.
HDLC - High-level Data Link Controller.
IMP - Interface Message Processor.
ISO - International Standards Organisation.
LAN - Local Area Network.
LAPB - Link Access Procedure-Balanced.
LIP - Link Interface Program.
LPC - Longitudinal Parity Check.
MODEM - Modulator-Demodulator.
MPSC - Multiple Protocol Serial Converter.
NABTS - North American Broadcast Transmission Specification.
NAPLPS - North American Presentation Level Protocol Syntax.
NIP - Network Interface Program.
NRZ - Non Return Zero.
NRZI - Non Return to Zero Invert.
OSI - Open Systems Interconnection.
PIO - Parallel Input Output.
PLP - Presentation Level Protocol.
PSK - Phase Shift Keying.
RAM - Random Access Memory.
RBBS - Remote BBS.
RCPM - Remote CP/M.
ROM - Read Only Memory.
SDLC - Synchronous Data Link Controller.
SIO - Serial Input Output.
SNA - System Network Architecture.
TC - Telecommunications.
TDM - Time Division Multiplexing.
TIP - Terminal Interface Program.
TNC - Terminal Node Controller.
UART - Universal Asynchronous Receiver Transmitter.
USART - Universal Synchronous/Asynchronous Receiver Transmitter.
VRC - Vertical Parity Check.

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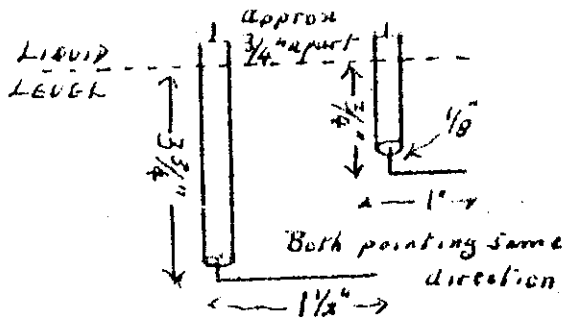
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Materials required:-

1. Plastic Jar 48 oz (7" x 4")
2. Coax Receptacle.
3. 5 grams Salt or 5 Salt Tablets.
4. 42 ozs distilled water (rain water OK)
5. Short length of 14g copper wire -with rugged insulation.



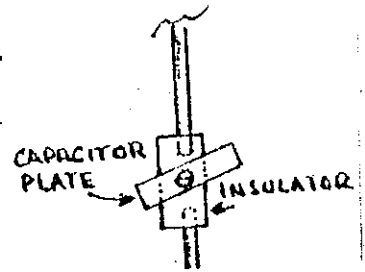
Can expect Temp rise of 25°C in 5 mins with 500 watts input.

Details first given to me by the late VK9RM, Ray Hoare, who I understand found it amongst some notes from the FT200 Club. I constructed it using cooking salt, rain water and 1/.064 IVC insulated wire. Adding salt to water and measuring with ohm-meter gave obviously wrong results due no doubt to polarization effect of Dc volts from ohmmeter, so used 50 cps low voltage AC, a milliampmeter and the old reliable Ohms Law. Operates well on HF but have not tried it on VHF.

The original article gives the following figures:-

2	salt tabs	-Impedance	80 ohms,	cap react	30 ohms
3	"	"	72 "	cap "	13 "
4	"	"	62 "	cap "	1.4 "
5	"	"	48 "	ind "	6.3 "

Slim Jim Tip:- To further reduce the SWR when using a Slim Jim antenna, try cutting a piece of jam-tin lid or aluminium, etc. to act as a capacitor across the insulator which is mounted in one leg of the antenna. A small piece, ... say, 50mm x 15mm should suffice. Drill a hole in the centre of the metal piece and screw to the insulator so that it can be rotated to vary the capacity between the ends of the wires held by the insulator. When adjusted, you will be able to get exact resonance of the antenna on the portion of the band you prefer. To get the lowest possible SWR you may need to adjust the co-ax tapping point in conjunction with the new capacitance plate.John VK2BTQ



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 VK2EBI-KEVIN, VK2PHD/4-RAY, VK2PZY-DAVE, VK2IU-RALPH.

18th OCTOBER 1987

VK2EBI-KEVIN Co-ordinator
 VK2MT-ROB, VK2IU-RALPH, VK2PHD/4-RAY, VK2EMV-MORRY

F.R.L.No: 3 WINNERS

- Week No: 13 P. BALL
- Week No: 14 D. HENDERSON
- Week No: 15 V. HEE
- Week No: 16 J. TAYLOR
- Week No: 17 J. HODKINSON

**VK2AMW/P
 CALL BACKS**

VK2AMW-PORTABLE CALL-BACK

- VK2BIT-PETER, VK2EXN-IAN, VK2CAG-GRAEME, VK2TPH-PHIL, VK2EWJ - JEFF, VK2ENX-TONY, VK2EMV-MORRY

SO THE STORY GOES

One good thing about living on a farm is you can fight with your wife without being heard.

Money never made a fool of anybody! It only show's em up.

A youth with his first cigar makes him self sick. A youth with with his first girl makes other people sick.

The great pleasure in life is doing what people say you cannot do.

Some days the only good things on TV are the vase and clock.

In diving to the bottom of pleasures we bring up more gravel then pearl's.

Life would be more serene and sweet, no aching or abrasions, if shoe's were brought to fit the feet instead of the occasion.

Laugh and the world laughs with you, snore and you sleep alone.

Women over thirty are at their best, but men over thirty are to old to recognize it.

Why does dentist ask you if it hurts only when you can't answer.

The reason that worry kills more people then work is that more people worry than work.

Did you ever notice that when it comes to restaurant's the lower the lights the higher the prices.

One good thing about christmas shopping is its toughens you for January sales.

Always put off until tomorrow what you should. It do at all.

Business is like riding a bicycle either you keep moving or you fall down.

Life after death , safety coffins were all the rage in the 1890's. One ingenious patented device enabled anyone prematurely buried by accident to wave a flag, ring a bell and light a lamp to summon help.

Fancy that ! Malayalam, a language spoken in Southern India, is the only name of language that spells the same backwards.

ABOUT YOUR FRIENDS

Ian VK2EXN along with his wife Lola and young Ian would like to take this opportunity to thank all those members, who visited him in hospital recently, also thanks for the cards that were sent by club members and the I.A.R.S. club...

Jim VK2QU was in hospital again after having a heart attack last week . Hope everything is O.K. now Jim .

Sorry to hear Roy VK2KO XYL was admitted to hospital recently. Hope everything turns out alright Roy.

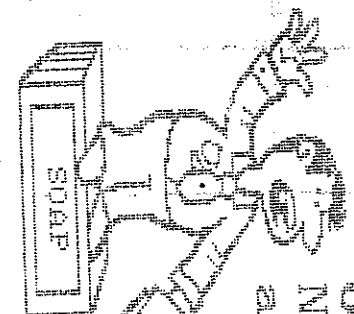
I'm giving up the smoking, Fair dinkum, it's no joke; They say your life gets shorter Each time you have a smoke.

I'm giving up the drinking - Yes, that's right, drinking too; For drinking puts the weight on And that's no good for you.

I'm giving up the horses, The dogs and all the rest For ev'ry time you gamble Your heart is under stress.

I'm giving up the woman- Yes, women too, for they Can give you high blood pressure And take your breath away.

I want to go on living A hundred years or more; But listen Mate, dont ask me What I am living for.



AUCTION SALE on the 10th of November 1987. at the Meeting PLEASE DO NOT BE LATE ITEMS TO SELL MUST BE IN BY 7.15.PM. TNX

AS THE CROW FLIES IN CONNECTICUT

Denis R. McKay - VK2DMR/W1
37 East Creek Circle
GUILFORD
CT 06437

As can be seen from the call letters and the address, I am an Aussie temporarily residing in Connecticut. As soon as I had arranged my reciprocal licence my thoughts naturally turned to antennae and being somewhat lacking in application my thoughts naturally turned to the lazy mans antenna - the random wire. I certainly had plenty of trees that nature had thoughtfully provided in strategic locations and a quick discussion with my landlord (who was also my neighbor) convinced me that that was the way to go.

My new employer, Don (who also happens to be KA1ACB), concurred in the design so we set aside the following weekend as 'Antenna Erection' days. We talked about who would get what hardware and when I asked where I could buy a slingshot all Don did was laugh. He assured me that my foreman (Charlie KA1FGI) had a trained crow for putting lines in trees.

Being of a somewhat cynical frame of mind, I suggested that, in the Australian vernacular, he was "having a loan of me". He showed me his full wave loop on 160 metres which was about 80 feet in the trees on his lot!!! This tended to suggest that maybe I was working with the Connecticut version Grizzly Adams. I was still somewhat dubious despite the fact that many previous attempts at lobbing lines in trees with anything from monofilament fishing lines and lead weights to pairs of Stilsons on quarter inch line (this has been seriously suggested in the amateur literature) had met with very poor results. My best attempts had been successful using a slingshot.

Don assured me that the following Saturday morning, Charlie would arrive in his pick-up with his crow in a cage.

Well, Saturday (and Charlie) duly arrived and I sidled up to Charlies truck and nonchalantly sauntered up and peered in the back of the pick-up - guess what- no cage!!

With my best dead-pan look we followed Charlie into the back-yard.

" Well, where do you want it?, says Charlie.

" Aw, somewhere up in that tree over there", says I. Don just grinned.

" No. Exactly where do you want it?" says Charlie.

I looked for the highest, most difficult place and pointed. " No problem", says Charlie.

He opened his little canvas bag and took out a roll of braided polyester squidding line and a 3 oz. lead fishing sinker, tied a finger loop about a metre from the end and carefully played out the line and arranged it on the ground, taking care to keep the large loops he produced separate from each other.

Then he attached the sinker to the end of the line, put his finger in the loop, swung the sinker in a vertical circle and let fly - first time, right where I had smugly asked. He then proceeded to pull my antenna wire through the tree.

Not only that but he did it four more times - no misses - no snags - calm as you like!!!!

Since that time I've bought my own crow. Charlie tells me that:-

- 1) Squidding line is the only line he has found that will not snag on branches, nor will it saw into branches when the tension is put on the line and tends not to tangle.
- 2) For maximum distance and height, a 3 oz. sinker is best. For shorter throws at close range change to a 4 oz. sinker.

I have since learnt that of those who know Charlie, many of them really believe that he has a crow because many week-ends he is off with his "crow" to help some ham erect antennas. For those guys - sorry fellows but you've been had!! For the others, sorry to let the secret out.

**For every action there is an equal but opposite reaction - especially on Mondays.

**Aside lines: Many a motorist whose eyes flit from limb to limb has hit a tree.

THE ILLAWARRA AMATEUR RADIO SOCIETY. INC.

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

MEETINGS: Are held every 2nd Tuesday of the Month except January, at 7.30 pm. in the S.E.S. Headquarters, Montague street, North Wollongong.

REPEATERS:
VK2RAW - 146.850. - (VOICE) VHF Mt Murray.
VK2RAW - 147.575. - (PACKET) VHF Mt Murray.
VK2RIL - 147.275. - (VOICE & R.T.T.Y) VHF Sublime Point.
VK2RUW - 438.225. - (VOICE) UHF Hill 60 Port Kembla.
VK2RIL - 438.725. - (VOICE & R.T.T.Y) UHF Sublime Point.

BROADCAST: On Sunday evening prior to the club meeting, at 7.00 pm. R.T.T.Y. Mode, and at 7.15 pm. on voice. Transmitted on 147.275 VHF, and relay on 3.562 Mhz. Callbacks will be taken after the voice broadcast.

W.I.A. RELAY: On 146.850. at 11.00 am. and at 7.30 pm. each Sunday.

CLUB - NETS: On 3.562 Mhz. 55B on Sunday at 8.00 pm. and a slow Morse net on 28.440 Mhz on Thursday evenings at 8.00 pm.

NEWSLETTER: "THE PROPAGATOR", published Monthly to reach FINANCIAL-MEMBERS in the week preceeding the club meeting. All articles, adds etc, to the editor must be in, or try, by the 3rd Tuesday each month.

MEMBERSHIP: The Secretary, I.A.R.S. Inc, P.O.Box.1838. Wollongong. 2500. Full membership is \$10 per annum; students & pensioners concessional members \$5 per annum.

AWARDS: The Award of the Illawarra Amateur Radio Society. Inc. is the LAWRENCE-HARGRAVE-AWARD. VK stations require 10 contacts with I.A.R.S. members. Overseas stations require 5 contacts with I.A.R.S. members. A contact with VK2AMW is sufficient for the award. Band-details, date, frequency, station worked and \$2 or 4 I.R.C.'s to THE AWARD-MANAGER, I.A.R.S. Inc, P.O.Box. 1838. WOLLONGONG. 2500. No QSL-CARD is required.

STORE: The club store operates at each club meeting. by COMMITTEE-MEMBERS.

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PRESIDENT: VK2DYU- BILL CHADBURN. 45 Beltana Ave, Dapto.

VICE-PRESIDENT: VK2OB - KEITH CURLE. 24. Beach Drv, Wodnona.

SECRETARY: VK2JTB- TOM BROWN. 10. O'Keefe Cr. ALBION - PARK.

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REPEATER - CHAIRMAN: VK2XGJ - JOHN SIMON.

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VK2EMV - MORRY .v. d. VORSTENBOSCH. VK2DFK-MIKE KEECH, VK2MT-ROB McKNIGHT,

VK2BIT-PETER WOODS, VK2TPH-PHIL HOWCHIN, VK2XGJ-JOHN SIMON, VK2FCP-FRED BROWN.

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SUNDAY - EVENING - CLUB-NET - ROSTER:

FIRST SUNDAY OF THE MONTH : VK2MT - ROB McKNIGHT.

2 nd SUNDAY OF THE MONTH : VK2ENX - TONY MOWBRAY.

3 rd SUNDAY OF THE MONTH : VK2PZY - DAVE CAPON.

4 th SUNDAY OF THE MONTH : VK2PHD - RAY BALL.

5 th SUNDAY OF THE MONTH : VK2EBI - KEVIN MURPHY.

And on stand-by : VK2DUP - GRAEME PARSONS.