

# THE PROPAGATOR. IARS

VOLUME 99/00 ISSUE FIVE APRIL 2000 PRINTED BI MONTHLY PRICELESS.

Meetings 2<sup>nd</sup> Tuesday of each month (except January) S.E.S building Montague Street Nth Wollongong.  
Starting at 7:30 PM. Official news letter of the Illawarra Amateur Radio Society Inc. PO box 1838 Wollongong 2500.

THIS COMING MEETING FOR APRIL WILL BE HELD SATURDAY APRIL 8<sup>TH</sup>. THE MEETING WILL BE HELD AT CATARACT DAM. START ARRIVING AT CATARACT DAM, ON THE APPIN ROAD, AT AROUND 11 AM. BRING THE WIFE, KIDS ETC, MAYBE SOME HF GEAR SO WE CAN TX ON HF, AND LETS ALL HAVE A GREAT TIME AT THE DAM SITE.

THERE ARE BBQ'S, BOTH WOOD AND ELECTRIC. PLEANTY OF HOT WATER AND THERE WILL BE THE USUAL THINGS THAT HAPPEN AT OUR CLUB MEETINGS. THE MEETING WILL START AT AROUND 12NOON. FOR MORE DETAILS CONTACT BRIAN VK2UBF AFTER 5PM MOST DAYS, HE LIES ON THE LOUNGE FROM 6PM, ON 146.850 OR CALL HIM ON THE PHONE AT 4267 2296.

DON'T FORGET TO BRING SOME MONEY FOR THE GREAT MEAT TRAY. THE SNOWBALL WILL ALSO BE DRAWN AND YOU NEVER, NEVER KNOW YOU MAY JUST WALK AWAY WITH A \$20 MEAT TRAY.

IF IT'S RAINING ON THE SATURDAY THE MEETING WILL BE HELD ON THE USUAL TUESDAY NIGHT APRIL 11<sup>TH</sup> STARTING AT 7:30PM.

SO LET'S ALL MAKE THIS A GREAT TIME SO WE CAN MEET SOME MEMBERS THAT CANNOT ATTEND ON THE NORMAL TUESDAY EVENING MEETINGS.

**SO LETS HOPE MANY, MANY MEMBERS ATTEND THIS SATURDAY MEETING.**

Well, April is here already. Where has the year gone? At the rate it's going it will be time for the *AGM*.

**DIRECTIONS TO DAM SITE.**

To travel to the dam site for this coming *SATURDAY MEETING*.

If traveling from the north. That is TRAVELLING south. Come along the F6 . When you get at the end get into the RIGHT HAND lane and look for the sign APPIN

CAMPBELLTOWN ROAD A green sign, no your LEFT. Take this road and turn right at the APPIN , CAMPELLTOWN road. About 3-5 km's along this road turn LEFT into the CATARACT DAM ROAD. This is the first road you will come to on YOUR LEFT.

TRAVELLING from the SOUTH. That is traveling NORTH. Take the Mount Ousley road but DON'T take the F6 turn off.

At the top of BULLI PASS , take the CAMPBELLTOWN

road and about 3-5 k along this road turn left. The meeting is hoped to be at the MIDDLE SHED. We should have a sign with Illawarra Amateur Radio Society near where the meeting will be held.

I hope to see many *LIFE* members at this meeting. If this works OK and members are in agreement what do you say, about having one of these meetings about 3 times a year?

I know it has been tried before but come on members lets get our collective fingers out and do something. I hope everybody reads the members profile in this issue. I think this person has hit the nail on the head. I know we are a club for Amateurs but lets look at ourselves in a *PROFESSIONAL* way.

This committee is trying to get members to attend meetings and, in some cases it's starting to have an effect on the numbers coming, which is *VERY* good, but wouldn't it be great if for just once in a year

we could get *MORE* than say 15% attendance!!!!!!!!!!!!!!

At the last *AGM* we only had about 5% attendance which made it nearly impossible to get places filled. That's why I've got about 5 hats. Wouldn't it be great if there were more *MEMBERS* pulling the rope *TOGETHER*. You never know you may even enjoy yourself. Wouldn't it be great if at the next working bee we had to say "NO we have enough bodies to help", instead of twisting members' arms.

What a great idea it is to drop the entry level to 5 words per minute for HF. I would think this will *STILL* have some people up in arms but you cannot please everybody all the time.

I hope everybody likes this edition and I'm looking forward to seeing many people at this meeting.

Until next time cheers Brian.

Propagator April 2000  
Page Two.

Minutes of General meeting held on 8<sup>th</sup> February 2000

Opened at hours 19:35 hours

Attend 32

In the chair as usual was Rob VK2TNK

Apologies from: vk2's cav, zdm , wrj , zrf , ezd

Visitors: vk2ron vk2zia con (cb'er) vk2tnb's xyl vk2wb

Correspondence in: Bulli scenic trust renewal of site fees. Invoice from vimcom. Calendar from Steven Martin. Thank you letter from Colin Hollis. E mails from Owen Holmwood to Rob vk2mt re linking to Dural 70cm repeater. E mail from Bob Bell re guest speaker . E mail from Richard Wilson re the P.I.G. Thank you letter from the w.i.a for attending the conference of clubs, minutes of meeting held November 12<sup>th</sup> meeting. Minutes of conference of clubs meeting November 13<sup>th</sup>.

News letters from: Central coast, Smoke signals, Dragnet, Smokes signals, Ballarat Radio Group.

Correspondence Out: Letter to Bob Bell re guest speaker. E mails to Owen Holmwood re linking on 70cm. Richard Wilson re the P.I.G. E mail to Rob Sanders re guest speaker at February meeting.

Minutes of meeting being has read. Moved vk2ubf 2<sup>nd</sup> vk2tnk

Matters arising from: NIL

Treasurers report: Not Given as Jim was in Hospital.

Repeater report: Rob spoke on the work done at vk2rmp and that finally the intermod from CSR is no longer there. The work put in by those where there was much appreciated.

General Business: Name tags at a cost of \$6 plus tax. Name tags where ordered Wednesday. Deposit for the bus to Wyong. About 12 people gave their names so the bus will run.

Committee meeting will be held: on February 16<sup>th</sup>.

Meeting close: 19:50 The guest speaker drew the snowball. Number 67 Brian Withers. As Brian was NOT present the snowball will jackpot to \$30 for the March meeting. The meat try was drawn by Con and was won by Jim vk2zww. After a VERY interesting talk by Ron Sanders vk2wb. Everybody adjourned to the tea room and the plates brought where very nice indeed. The noise at times was greater than that from the intermod from CSR.



Minutes of General meeting held on March 14<sup>th</sup> 2000.

Opened at hours 19:30 hours

Attend 17

Apologies from: vk2's zwg, tph , zdm , agb , zlj , ejh , gce , mt

Visitors: nil

Correspondence in: Invoice from Vimcom, Letter from Optus re Madders plains tower, Invoice from Vimcom, Renewal notice aca for vk2rbt Mt Boyne E mails from Brian Clarke vk2gce re LIPDS  
moved vk2ubf second vk2tnk

News letters from: Ballarat Amateur Radio group, Dragnet ( ST George Club), Smoke Signals (Central Coast)

Correspondence Out: get well card to Lyle vk2alu

Minutes of meeting being has read. Moved vk2ubf 2<sup>nd</sup> vk2tnk

Matters arising from: nil

Treasurers report: attached moved vk2cav second vk2ubf

Repeater report: not given as Rob was not there.

General Business: April meeting to be held Saturday 8<sup>th</sup>, call books each member to arrange for their own call book from Dick Smiths

Snow ball to be drawn. Draw Raffle.

Snow Ball was drawn by Bob vk2wrj number 20 Rodger Graham vk2aiv. NOT PRESENT so jackpots to \$35 at April Meeting.

Raffle Drawn by Bob Bell Won by Rob vk2tnk. Rob went home with a nice side of lamb. When do i come for the roast dinner Rob?

Next General meeting will be held: Saturday April 8<sup>th</sup> Cataract Dam.

Meeting close: 19:45.

The guest speaker gave a GREAT talk on hf aircraft communications. This talk when for over 45 minutes and the members present asked many questions at the end. One web site to visit is [www. Airnavsystems.com](http://www.Airnavsystems.com). After the talk many members enjoyed the great cakes etc all washed down with tea or coffee.

## FOR SALE.

Items listed here, it's the buyers responsibility to make sure they are working. The Club does this as a service to it's members.

2M Ringo Aerial Contact Peter Reid \$100 ono vk2hpr 04180341.

TNC Tiny 2 \$100 also a 2m HT with 2 aerials and speaker mike Alinco

\$120. Contact Brian Farrar vk2ubf 4267 2296

> > Subject: TECHNOLOGY FOR  
COUNTRY FOLK....THEIR OWN  
VERSION....  
> >  
> > THOUGHT WE COULD START THE  
NEW YEAR WITH A LITTLE COUNTRY  
HUMOR.....  
> >  
> > \* LOG ON...MAKING A  
WOODSTOVE HOTTER!  
> > \* LOG OFF...DON'T ADD NO MORE  
WOOD!  
> > \* MONITOR...KEEPING AN EYE ON  
THE WOODSTOVE!  
> > \* DOWNLOAD...GETTIN' THE  
FARWOOD OFF THE TRUK.  
> > \* MEGA HERTZ...WHEN YUR NOT  
KERFUL GETTING THE FARWOOD!  
> > \* FLOPPY DISC...WHATCHA GIT  
FROM TRYIN TO CARRY TOO MUCH  
FARWOOD!!  
> > \* RAM...THAT THAR THING WHUT  
SPLITS THE FARWOOD!  
> > \* HARD DRIVE...GETTIN' HOME IN  
THE WINTERTIME!  
> > \* PROMPT...WHUT THE MAIL  
AIN'T IN THE WINTER TIME.  
> > \* WINDOWS...WHUT TO SHUT  
WEN IT'S COLD OUTSIDE.  
> > \* SCREEN...WHUT TO SHUT WEN  
IT'S BLAK FLY SEASON!!  
> > \* BYTE...WHUT THEM DANG FLYS  
DO!!  
> > \* CHIP...MUNCHIES FOR THE RV.  
> > \* MICRO CHIP...WHUT'S IN THE  
BOTTOM OF THE MUNCHIE BAG.  
> > \* MODEM...WHUT CHA DID TO  
THE HAY FIELDS!  
> > \* DOT MATRIX...OLD DAN  
MATRIX'S WIFE.  
> > \* LAP TOP...WHAR THE KITTY  
SLEEPS.  
> > \* KEYBOARD...WHAR YA HANG  
THE DANG KEYS.....  
> > \* SOFTWARE...THEM DANG  
PLASTIC FORKS AND KNIFS.  
> > \* MOUSE....WHUT EATS THE  
GRAIN IN THE BARN..

> > \* MAINFRAME...HOLDS UP THE  
BARN ROOF.  
> > \* PORT...FANCY FLATLANDER  
WINE.  
> > \* RANDOM ACCESS  
MEMORY...WHEN YA CAIN'T 'MEMBER  
WHUT YA PAID FER THE  
> > RILFE WHEN YOUR WIFE ASKS.  
> > \* MOUSE PAD...THAT HIPPIE TALK  
FER THE RAT HOLE.  
> > Please excuse some of the  
grammar.....but it just wouldn't be the same  
> > without it.  
>>\*\*It is Good to Remember that the tea  
kettle, although up to it's neck in  
>boiling water.....Continues to SING\*\*  
So keep on singing.....)

Thank you Mike vk2yzq for E mailing this  
to me.

If you would like to E mail me anything my  
E mail address is

vk2ubf@fishinternet.com.au

IF GOD HAD A PC...

=====

In the beginning, there was the computer.  
And God entered:

C:\>Let there be light!

Enter user ID

C:\>God

Enter password

C:\>Omniscient

Invalid password

Enter password

C:\>Omnipotent

And God logged on at 12:01:00 AM,  
Sunday, March 1.

C:\>Let there be light!

Unrecognizable command

C:\>Create light

Done

Continued next page

C:\>Run heaven and earth  
And God created Day and Night. And  
God saw that there were 0 errors.  
And God logged off at 12:02:00 AM,  
Sunday, March 1.  
And God logged on at 12:01:00 AM,  
Monday, March 2.  
C:\>Let there be firmament in the midst of  
water and light  
Unrecognizable command. Try again.  
C:\>Create firmament  
Done  
C:\>Run firmament  
And God divided the waters. And God  
saw that there were 0 errors.  
And God logged off at 12:02:00 AM,  
Monday, March 2.  
And God logged on at 12:01:00 AM,  
Tuesday, March 3.  
C:\>Let the waters under heaven be  
gathered together unto one place  
and let the dry land appear and  
Too many characters in specification  
string. Try again.  
C:\>Create dry land  
Done  
C:\>Run firmament  
And God divided the waters. And God  
saw that there were 0 errors.  
And God logged off at 12:02:00 AM,  
Tuesday, March 3.  
And God logged on at 12:01:00 AM,  
Wednesday, March 4.  
C:\>Create lights in the firmament to  
divide the day from the night  
Unspecified type. Try again.  
C:\>Create sun moon stars  
Done  
C:\>Run sun moon stars  
And God separated the light from the  
darkness. The sun ruled over the day and  
the moon and stars ruled over the night.  
And God saw there were 0 errors.  
And God logged off at 12:02:00 AM,  
Wednesday, March 4.  
And God logged on at 12:01:00 AM,  
Thursday, March 5.  
C:\>Create fish  
Done  
C:\>Create fowl

Done  
C:\>Run fish, fowl  
And God created the great sea monsters  
and every living creature that creepeth  
wherewith the waters swarmed after its  
kind and every winged fowl after its kind.  
And God saw that there were 0 errors.  
And God logged off at 12:02:00 AM,  
Thursday, March 5.  
And God logged on at 12:01:00 AM,  
Friday, March 6.  
C:\>Create cattle  
Done  
C:\>Create creepy things  
Done  
C:\>Now let us make man in our image  
Unspecified type. Try again.  
C:\>Create man  
Done  
C:\>Be fruitful and multiply and replenish  
the earth and subdue it and have dominion  
over the fish of the sea and over the fowl of  
the air and over every living thing that  
creepeth upon the earth.  
Too many command operations. Try  
again.  
C:\>Run multiplication  
Execution terminated. 6 errors...  
C:\>Insert breath  
Done  
C:\>Run multiplication  
Execution terminated. 5 errors...  
C:\>Move man to Garden of Eden  
Filename: Garden of Eden does not exist.  
(A)bort, (R)etry, (I)gnore?  
C:\>Create Garden of Eden  
Too many parameters.  
C:\>Create Garden.edn  
Done  
C:\>Move man to Garden.edn  
Done  
C:\>Run multiplication  
Execution terminated. 4 errors...

Continued next Page

C:\>Copy woman from man  
Done  
C:\>Run multiplication  
Execution terminated. 3 errors...  
C:\>Create desire  
Done  
C:\>Run multiplication  
And God saw man and woman being fruitful and multiplying in Garden.edn  
Warning: No time limit on this run. 2 errors...  
C:\>Create freewill  
Done  
C:\>Run freewill  
And God saw man and woman being fruitful and multiplying in Garden.edn  
Warning: No time limit on this run. 1 error...  
C:\>Undo desire  
Desire cannot be undone once freewill is created.  
C:\>Destroy freewill  
Freewill is an inaccessible file and cannot be destroyed. Enter replacement, cancel, or ask for help.  
C:\>Help  
Desire cannot be undone once freewill is created. Freewill is an inaccessible file and cannot be destroyed. Enter replacement, cancel, or ask for help.  
C:\>Create tree of knowledge  
And God saw man and woman being fruitful and multiplying in Garden of Eden  
Warning: No time limit on this run. 1 error...  
C:\>Create good, evil  
Done  
C:\>Activate evil  
And God saw he had created shame.  
Warning: System error in sector E95.  
Man and woman no longer located in Garden.edn. 1 error...  
C:\>Scan Garden.eden for man, woman  
Search failed.  
(A)bort, (R)etry, (I)gnore?  
C:\>Delete shame.  
Shame cannot be deleted once evil has been activated.  
C:\>Destroy freewill

Freewill is an inaccessible file and cannot be destroyed. Enter replacement, cancel, or ask for help.

C:\>Stop

Unrecognizable command. Try again.

C:\>Ctrl\_Break

C:\>Ctrl\_Break

ATTENTION ALL USERS \*\*\*

ATTENTION ALL USERS: COMPUTER GOING DOWN FOR REGULAR DAY OF MAINTENANCE AND REST IN FIVE MINUTES.

PLEASE LOG OFF.

C:\>Create new world

You have exceeded allocated file space. You must destroy old files before new ones are created.

C:\>Destroy earth

Destroy earth: Please confirm.

C:\>Destroy earth confirmed.

COMPUTER DOWN \*\*\* COMPUTER DOWN. SERVICE WILL RESUME SUNDAY, MARCH 8 AT 6:00 AM. YOU MUST SIGN OFF NOW.

And God logged off at 11:59:59 PM, Friday, March 6. On Saturday, March 7, God rested. On March 8, God created Macintosh. And God saw that it was GOOD. {And just think, He didn't even have to contend with Y2K!!!:-)}

Thank you Phil vk2tph for E mailing this to me.

JUST A REMINDER THAT THIS COMMING MEETING WILL BE HELD ON SATURDAY AT CATARACT DAM. ON APRIL 8<sup>TH</sup> SO BRING ALONG THE WIFE AND KIDS AND LETS ALL ENJOY THIS DAY OUT. IF YOU WOULD LIKE MORE INFORMATION GIVE BRIAN VK2UBF A CALL. HIS PHONE NUMBER IS ELSEWHERE IN THE NEWSLETTER.

# MEMBERS

## PROFILE

### HORATIO WARDSWORTH SOMEBODY.

I was first licensed in the early 1960's. I was born in 1939 and at an early age got fascinated with WIRELESS. When I was about 12 years old the old STC wireless used in my home was a great piece of furniture. As I remember it it was a burr walnut

When I first started to attend meetings. if you didn't get there early you didn't get a seat. I was there when LYLE started to do his E.M.E from Dapto. I was also around when the club went to Mount Murray to set up the repeater site there. I was even around when the club went looking for a new place to hold meetings.

Over the years, that I've been a member, I've seen many members come and go. I would like to know how many members now, were with the first radio club here in Wollongong? Known then as THE WOLLONGONG AMATEUR RADIO CLUB.

What a pity that some members think that if they attend meetings and pay their membership on time, they are good members. What a pity more members don't get involved every time something is planned. Every time I've done something for the (our) club I have had a GREAT time. Wouldn't it be great if at this coming AGM, there were so many names for each is position we had to have a ballot!!!! This would show that members have some interest in our club.

I was talking to the editor the other day and he told me, he, has learned a lot from his computer, not that he knew that much before.

cabinet with a high polish. The front had a beige cloth covering the very

large speaker and I think it had only 2 knobs on the front. I can remember listening to radio 2WL of an evening to programs like the *SUNSET TRAIL* and serials like *Hagans Corner* and *Search for the GOLDEN BOOMERANG*. I can remember an announcer with a VERY gravel voice, not like the voices you hear on radio these days. In those days they had a frequency of 1430ke's

just in the short time he, has been doing it. He's not sure if he will do it again next year but if every member gave him just ONE article he would have enough material for over 60 issue's and at 6 per year that's nearly 10years !!! He was also saying that it has keep his brain active trying to think up what to put in the next issues. So come on *Members* if somebody can give me a PROFILE. WHY CAN'T YOU !!!! But I would suppose that everybody thinks that somebody has DONE IT, NOBODY now has to do it. Thank you SOMEBODY. I would think that next profile will be a Blank sheet of paper (Ed.)



## MURPHY'S LAW

If anything can go wrong, it will.

### COROLLARIES:

1. Nothing is as easy as it looks.
2. Everything takes longer than you think.
3. If there is a possibility of several things going wrong, the one that will cost the most will be the one to go wrong.
4. If you perceive that there are four possible ways in which a procedure can go wrong, and circumvent these, then a fifth way will promptly develop.
5. Left to themselves, things tend to go from bad to worse.
6. Whenever you set out to do something, something else must be done first.
7. Every solution breeds new problems.
8. It's impossible to make anything foolproof because fools are so ingenious.
9. Nature always sides with the hidden flaw.
10. Mother nature is a bitch

## THE MURPHY PHILOSOPHY.

Smile...tomorrow could be worse.

## MURPHY'S CONSTANT

Matter will be damaged in direct proportion to it's value.

## QUANTIZATION REVISION OF MURPHY'S LAW.

Everything goes wrong all at once.

## HILL'S COMMENTARIES ON MURPHY'S LAW.

1. If we loose to much by having things go wrong, take all possible care.
2. If you have nothing to loose by change relax

3. If we have everything to gain by change, relax
4. If it doesn't matter, it doesn't matter.

## O'TOOLE'S COMMENTARY ON MURPHY'S LAW

Murphy was an optimist.

## ZYMURGY'S SEVENTH EXCEPTION TO MURPHY'S LAW.

When it rains, it pours.

## BOILING POSTULATE

If you're feeling good, don't worry, you'll get over it.

## ILES' LAW

There is always an easier way to do it.

Corollaries:

1. When things just can't get any worse they will.
2. Anytime things appear to be going better, you have overlooked something.

## CHISHOLM'S THIRD LAW.

Proposals, as understood by the propose. Well be judged otherwise by others.

COROLARIES:

1. If you explain clearly that nobody can misunderstand, somebody will.
2. If you do something which you are sure will meet with everybody's approval, somebody won't like it.
3. Procedures devised to implement the purpose won't quite work.

## SCOTTS SECOND LAW.

When and error has been detected and corrected, it will be found to be correct in the first place.

## COROLLARY.

After the correction has been found in error, it will be impossible to fit the original quantity back into the equation.

## FINAGLE'S FIRST LAW.

If an experiment works, something has gone wrong.

## FINAGLE'S SECOND LAW.

No matter what the anticipated results, there will always be someone eager to

- a) Misinterpret it,
- b) Fake it or,
- c) Believe it happened to his own pet theory.

## FINAGLE'S THIRD LAW.

In any collection of data, the figure most obviously correct, beyond all need of checking, is the mistake.

### COROLLARIES:

1. No one whom you ask for help will see it.
2. Everybody who stops by with unsought advise will see it immediately.

## FINAGLE'S FORTH LAW.

Once a job is fouled up, anything done to improve it only makes it worse.

## FINAGLE'S RULES.

1. To study a subject best, understand it thoroughly before you start.
2. Always keep records of data, it indicates you've been working.
3. Always draw your curves, then plot your reading.
4. Incase of doubt make it sound convincing.
5. Experiments should be reproducible, then in the same way.
6. Do not believe in miracles, rely on them.

## WINGO'S AXIOM.

All Finagle's laws maybe bypassed by learning the simple art of doing without thinking.

Thank you Jim vk2zwg for this item

Propagator APRIL 2000

# CONSTRUCTORS CORNER

## *6 meter 3 element beam*

Reflector-----115 and 1 2 inches

Driven-----111 inches

Director-----106 and 1 2 inches

Spacing between elements are 34 and 1 2 inches. The elements are 1 2 inch aluminum tubing of 1 16-inch wall thickness.(you can cut up an old TV antenna, they work great). The Boom length is 72 inches (6 feet). The boom is 1 and 1 4 inch tubing. You can attach 50 ohm coax to this antenna after you add a gamma match.(see Below) To attach the gamma rod to the antenna you will need to mount an SO-239 chassis connector to the center of the driven element. This can be made from a piece of sheet metal about 1 inch wide by 3 inches long. Bend the long side of the sheet metal into and L-shape so that you now have a 2x1 inch surface and a 1x1 inch on a 90 degree angle. Then center punch the 2x1 side and mount the SO-239 connector in the middle. Next bend the 1x1 inch surface onto the center of the driven element and secure it with 2 sheet metal screws.

### **GAMMA MOUNT BRACKET**

Now you will need to get some more sheet metal to build the SHORTING strap of the gamma this may vary in size depending on the tubing size and the space from driven to the gamma match. The gamma match is mounted along the side of the driven after you have soldered the inner conductor of the gamma to the center OD the SO-239. The spacing is usually about 1.5 to 2 inches from the driven element (Doesn't make much difference). To make the SHORTING strap make a 1 inch strip about 6 inches long .Take this strip and bend it around the driven and over to the gamma. Make sure it folds back over so that you can drill 1 hole at each.

### **A GAMMA MATCH**

The gamma match is made from 3 8 inch tubing. The inner portion is cut from RG-8 coax after you remove the black 'skin' and the copper braid. Once you have this antenna put all together you can adjust the match by sliding the shorting strap and the gamma tube in and

out(or up and down however you look at it) for lowest S.W.R.

### **A 6 METER HALO**

A good antenna that can be used for the car as well as the house is an HALO. This antenna maintains good omni-directional horizontal polarization. Basically the antenna is a half wave dipole bent into a circle. BUT shorter than a dipole for this frequency. The circumference is 60-70 inches. By using the gamma match (see above) you can use regular coax. This is a high-Q antenna. So bandwidth is about 200khz. (Perfect for 50.100-50.200 where most of the 6m ssb activity is)

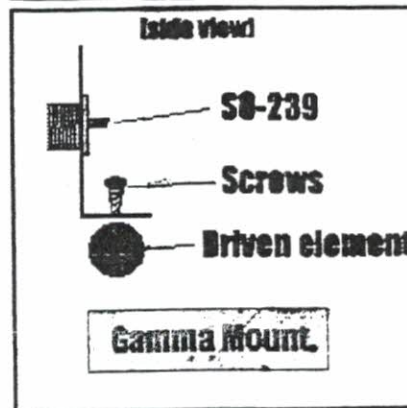
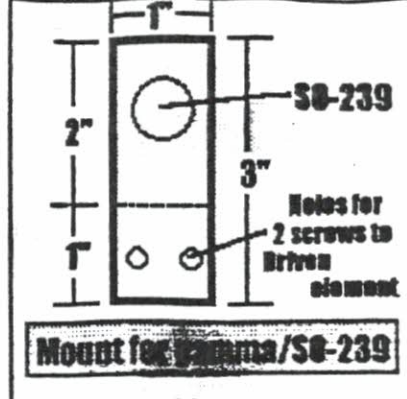
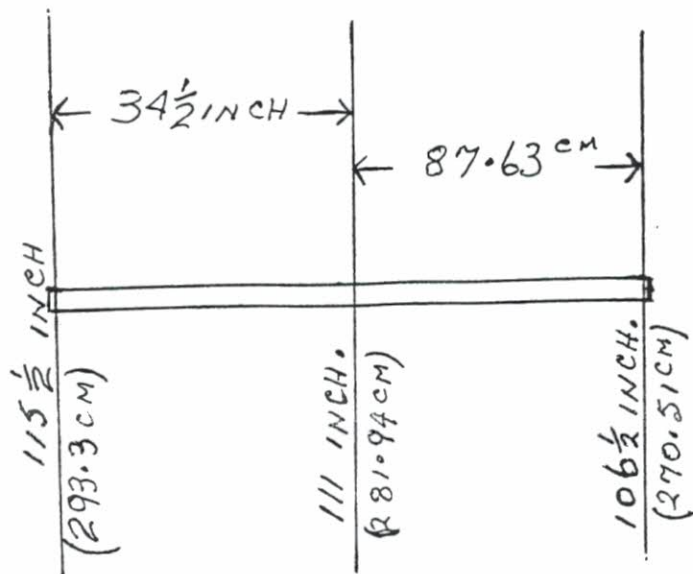
The 2 large discs can be about 4-5 inches round and the small disc about 1.5 inches. Mount the 2 larger discs at the ends of the halo by screwing end caps to the center of them and then the end caps will go over the ends of the halo. Next drill a small hole in one of the larger discs and the same size hole in the exact center of the small disc. Put a 2 inch bolt thru the center and run a nut up the bolt to lock it in place. Then a nut on each side of the large disc to secure the bolt to the larger disc. Mount the gamma rod the same as you did on the beam (see above) BUT bend the gamma to match the curve in the halo. Finally take three 2-3 inch nylon spacers and mount them between the large discs. You should drill 3 holes in a triangle pattern and use 3 nylon bolts and nuts. This will ensure that the ends plates do not move around on you. You can mount this antenna on a mast by making some type of bracket for support. (Just try to put the bracket by the mount where the coax gamma is so that the mount should not affect the antenna performance.)

To match the antenna simply move the gamma around a few times(move it in small increments ). Once you get the S.W.R. down below 3:1 then move the small disc by loosening the nut and turning the small disc.(AGAIN move it in small increments)

Taken from the Internet from <http://members.aol.com/n2kbbk/6m.html>

Propagator April 2000 Page Ten.

# Six Meter Antenna

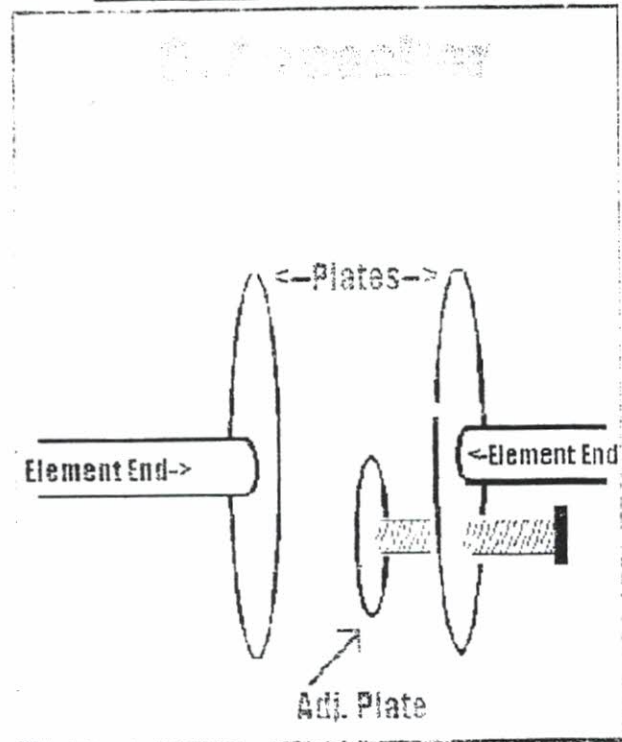


GAMMA MOUNT BRACKET

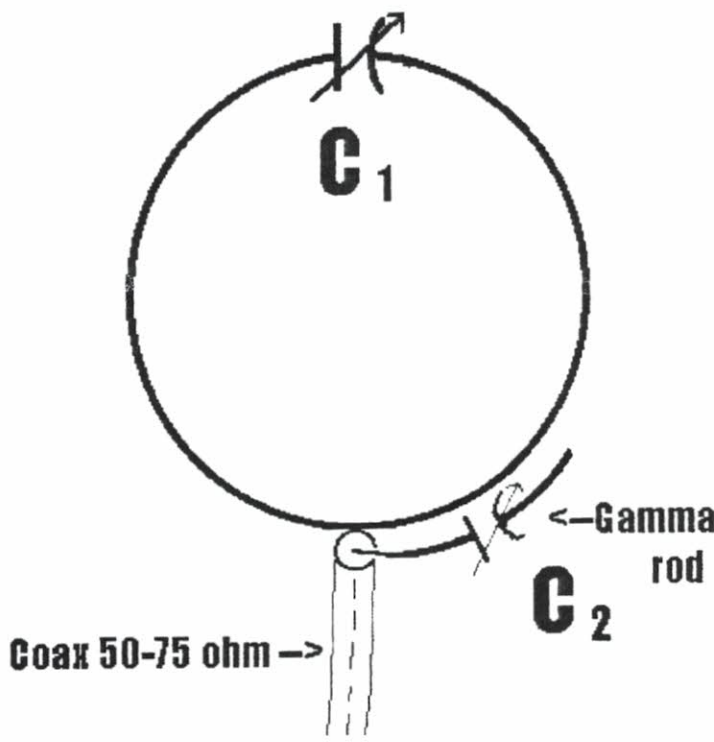
## A 3 ELEMENT BEAM

- Gamma tube 14 inches
- Inside conductor of RG-8 15 inches
- Finished Gamma Match Arm

### Gamma Match Arm



## 6 Meter Halo Antenna



## SO THE STORY GOES!!!!

A ham was going on holidays and his neighbour Mrs. Dunne heard he was going and asked if he could do a favour for her. The neighbour asked if he could look up her son named Nealey who was living in London.

She told the ham that she hadn't received a letter from her son in 12 months and was worried that something was wrong.

The ham agreed to help her, and armed with Mrs. Dunne's son name and his London address plus the area code of W.C.1 he took off on his holiday.

On arrival at London airport, and after going through customs, he noticed a door with WC on it, so promptly entered and on looking saw a number 1 on the end door.

He tapped on the door and called out "Are you nearly done?" and a voice answered back "Yes but I have no paper" to which the ham replied "that's no excuse not to write your mum in Australia!!!"

## Why?

1. When you are driving looking for an address, why do you turn down the volume of the radio?
2. Should animal worming tablets be tested on humans

## Connect to the world

*With*

### Connectivity Australia Pty Ltd.

A guaranteed immediate connection

All lines 56k

V90 Modems

free telephone support.

With basic plan, there's no charge if no calls are made during the full calendar month.

The Internet provider for the Illawarra Amateur Radio Society.

Give them a call now and connect to the World Wide Web. We have a plan to suit just about

**everybody.**

Phone on **4227 5483** now level 2 166 Keira street WOLLONGONG.

Cnr Market street.

E mail

sales@connectivity.net.au

For  
Courtesy to  
Amateurs and  
Value  
In  
Our yard  
Not usually  
Seen elsewhere  
**WE RECOMMEND!!!**  
Cavions  
11 Molloy Street Bulli  
Phone 4284 6838

## FOR PEOPLE WHO WANT QUALITY AT A REALISTIC PRICE.

If you're looking for

Voltage regulators Insulators Mains adaptors

Capacitors Oscilloscopes or Meters.

Call into **VIMCOM** today for all your electronic needs.

Check out their monthly specials

Phone them on 4228 4400 or fax number is 4226 1857

131 Kenny Street Wollongong 2500.

## New rules for HAM radio in the US.

The FCC has issued its long-awaited Report and Order on amateur licensing restructuring. The bottom line is that starting April 15, 2000, there will be three license classes--Technician, General, and Amateur Extra--and a single Morse code requirement--5 WPM.

"We believe that an individual's ability to demonstrate increased Morse code proficiency is not necessarily indicative of that individual's ability to contribute to the advancement of the radio art," the FCC said.

Besides drastically streamlining the Amateur Radio licensing process, the FCC said its actions would "eliminate unnecessary requirements that may discourage or limit individuals from becoming trained operators, technicians, and electronic experts."

Although no new Novice and Advanced licenses will be issued after the effective date of the Report and Order, the FCC does not plan to automatically upgrade any existing license privileges. The ARRL had proposed a one-time, across-the-board upgrading of current Novice and Tech Plus licensees to General class, but the FCC declined to adopt the idea. This means that current licensees will retain their current operating privileges, including access to various modes and sub-bands, and will be able to renew their licenses indefinitely.

Starting April 15, 2000, individuals who qualified for the Technician class license prior to March 21, 1987, will be able to upgrade to General class by providing documentary proof to a Volunteer Examiner Coordinator, paying an application fee, and completing FCC Form 605.

The FCC's decision not to automatically upgrade Novice and Tech Plus licensees means the current Novice/Tech Plus HF sub-bands will remain and not be "refarmed" to higher class licensees as the ARRL had proposed. The FCC said it did not refarm these sub-bands because there was "no consensus" within the amateur community as to what to do with them.

The FCC decided to lump Technician and Tech Plus licensees into a single licensee database, all designated as "Technician" licensees.

Those who can document having passed the 5 WPM Morse code examination will continue to have the current Tech Plus HF privileges. The FCC said it may request documentation from a licensee or VEC to verify whether a licensee has passed a telegraphy examination.

The FCC action also authorizes Advanced Class hams to prepare and administer General class examinations, and eliminates Radio Amateur Civil Emergency Service (RACES) station licenses. RACES will remain, however.

Under the new licensing scheme, there will be four examination elements. Element 1 will be the 5 WPM Morse code exam. Element 2 will be a 35-question Technician exam. Element 3 will be a 35-question General exam, and Element 4 will be a 50-question Amateur Extra exam. The FCC has left it in the hands of the National Conference of VECs Question Pool Committee to determine the specific mix and makeup of written examination questions. Elimination of the 13 and 20 WPM Morse requirements means an end to physician certification waivers for applicants claiming an inability to pass the Morse code examination due to physical handicap.

The FCC disagreed with the League's suggestion that it undertake a restructuring of operating privileges along with licensing restructuring. The Commission said it wanted to give the amateur community a chance to "reach a consensus" regarding new technologies before it tried to restructure amateur operating privileges and frequencies.

Thank you Harry VK2JHW for e mailing this to me. What a great idea. I hope the W.I.A. adopt this as policy for Australia

I would like to thank Jim VK2EJH for help with this edition of the Propagator.

Propagator April 2000 Page Thirteen

# For Sale

ALL ITEMS LISTED HERE, IT'S THE RESPONSIBILITY OF THE BUYER TO MAKE SURE THEY'RE WORKING. Contact the owner for more details.

**Yeasu FT 767GX** HF/VHF/UHF. General cover Transceiver. Has CTCSS encode/decode option fitted. FIF 232 Serial interface for PC and some software. MD1 Filtered desk mike and SP filtered external speaker. Cost new \$4000 sell \$1700 ONO.

**AWA Ex commercial 2m** FM transceiver 45 Watts selectable Hi /Low power. Frequency display on LCD. Channel fast scan. Programmable radio with CCTSS encode/decode. Was used a little on paket. \$250

**Diamond x500 2m/70cm** Hi gain collinear Antenna. 8.3Dbd 2m 11.7 Dbd 70cm. Excellent condition \$100 firm price.

**Hy Gain DB 1015A** 10/15 meter 3 element yagi 8Db gain F/B ratio 20-25 Db \$100 firm price

**50Kg DSE Rotator** \$90.

**Uniden AX144 am/ssb** CB radio Needs new volume pot \$50

**Oskerblick UHF SWR** meter 430-480Mhz Power 0-5, 0-25 and 125 watts fair condition \$70

**Hansen Hf** SWR Meter 0-10 watts and 0-100 watts \$30

**Automan Alcohol** breath tester \$30 great for testing to see if your ok to drive a rig!!!

**Gate dip meter?** 440Khz - 280 Mhz. Earphone socket Tech Brand. model te15. Excellent condition with coils \$80

CONTACT TONY STONE ON ~~041265502~~ OR [tonylynn@dingoblue.net.au](mailto:tonylynn@dingoblue.net.au)

0412205502

## NEWTEK ELECTRONICS.

Phone or fax 42271620

RESELLER FOR

ALTRONICS ARISTA JAYCAR AVICO

Stockist of

Alarm accessories , UHF antennae , tools ,  
computer accessories , Test equipment , cables ,  
plugs , RF sprays and components for the  
professional and AMATEUR alike.

Call and see Jack at 348 KEIRA STREET  
WOLLONGONG Just up from the round-a-bout.

**THE ILLAWARRA AMATEUR RADIO SOCIETY INC.  
PO BOX 1838 WOLLONGONG N.S.W.2500 VK2AMW**

**REPEATERS**

CALL	FREQUENCY	MODE	LOCATION	LINKED TO
VK2RBT	146.675	VOICE	MT BOYNE	
VK2RMP	146.850	VOICE	MADDENS PLAINS	
VK2RMP	438.725	VOICE	MADDENS PLAINS	VK2RUW,2RGN
VK2RIS	146.975	VOICE	SADDLEBACK MOUNTIAN	
VK2RUW	29.620	VOICE	KNIGHTS HILL	(OFF AIR)
VK2RUW	438.225	VOICE	KNIGHTS HILL	VK2RGN,VK1RGI

**PAKET RADIO**

VK2AMW-1	144.725	GATEWAY	WOLLONGONG (SOON)
VK2AMW-3	144.825	PAKET	KNIGHTS HILL VK2AMW-4
VK2AWM-4	144.925	PAKET	KNIGHT HILL VK2AMW-3
VK2AMW-5	147.575	PAKET	MT BOYNE
VK2AMW-6	144.700	PAKET	MADDENS PLAINS
VK2AMW-7	147.575	PAKET	MT MURRAY

**SATGATE**

VK2XGJ	144.700	BBS	DAPTO
VK2XGJ	147.575	BBS	DAPTO
VK2XGJ	440.050	BBS (ROSE)	DAPTO
VK2XGJ	53.100	BBS	DAPTO

CLUB MEETINGS HELD 2<sup>ND</sup> TUESDAY OF EVERY MONTH EXCEPT JANUARY @ 7:30PM IN THE S.E.S HQ MONTAGUE ST NORTH W'GONG.  
COMMITTEE MEETINGS HELD THE 3<sup>RD</sup> WEDNESDAY OF EVEN MONTHS.  
**MEMBERSHIP \$20 PA OR \$15 CONCESSIONS EXPIRING AFTER AGM.**

**PRESIDENT:** Rob Skelcher VK2TNK 4226.2909

**VICE PRESIDENT:** Ted Hawkins VK2TTH 4257 2136

**SECRETARY:** Brian Farrar VK2UBF 4267 2296

**COMMITTEE:** Simon Ferrie vk2xqx, John Hodgkinson vk2bho,  
vk2kej John Lawer

**REPEATER COMMITTEE:** Rob Mc Knight VK2MT, John Lodding VK2ZLJ,  
Chris Stevens VK2XBC, Brian Farrar VK2UBF, Simon Ferrie VK2XQX.

**PUBLICITY:** Phil Howchin VK2TPH

**EDITOR:** Brian Farrar E mail vk2ubf@fishinternet.com.au

**PRINTER:** Ted Hawkins VK2TTH

**CANTEEN:** Simon Ferrie VK2XQX.

**LIFE MEMBERS:** Basil Dale VK2AW, Keith Curle VK2OB, Graeme Dowse  
VK2CAG, Lyle Patison VK2ALU, Rob Mc Knight VK2MT.

**DISCLAIMER:** All comments are those of the EDITOR and not of any  
committee or club member. All projects are presented as given and if any  
damage is done to your equipment the club is NOT responsible in any way.

HANDLE WITH ENTHUSIASM

SOUTHCOAST  
N.S.W.  
PAID 6-PM  
PAID 2000  
N.S.W.-AUST.

IF YOU REALLY  
CARE  
YOU'LL



ROB Mc KNIGHT VK2MT  
16 LOMBARD AVE  
FAIRY MEADOW 2519



# THE PROPAGATOR

VK2AMW SINCE 1948

The official newsletter of the Illawarra Amateur Radio Society Inc.

If undelivered please return to PO Box 1838 Wollongong 2500.