



The

PROPAGATOR



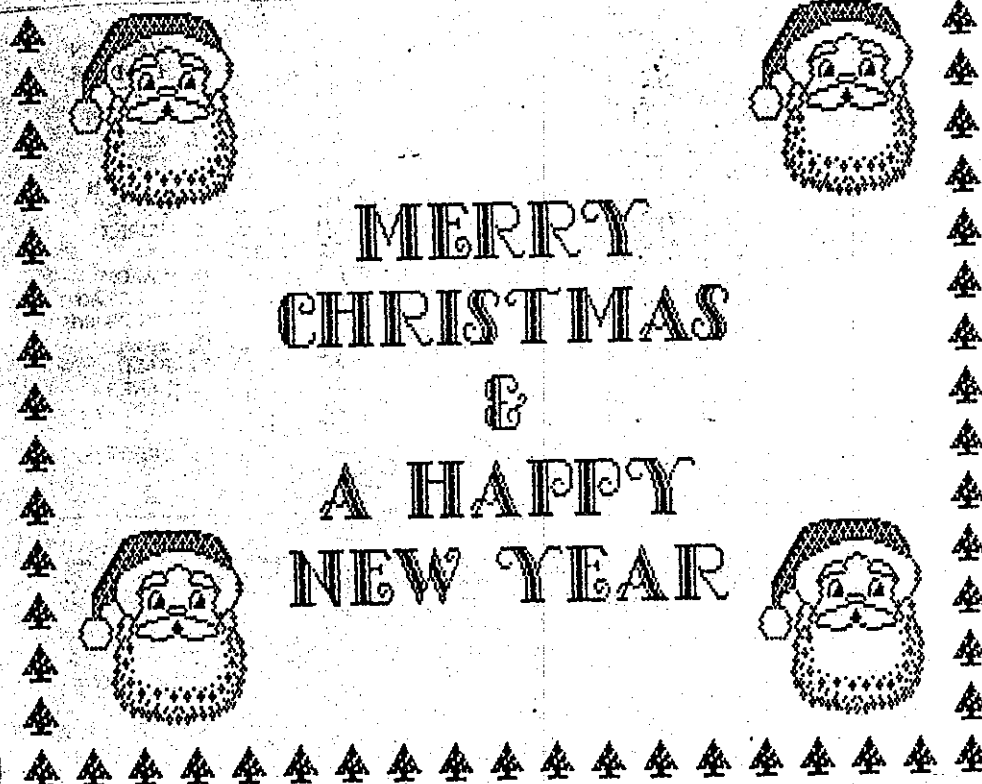
Illawarra Amateur Radio Society Inc.

The monthly newsletter of the Illawarra Amateur Radio Society Inc.
Registered by Australia Post publication number :- NBH - 1491.

Meetings are held on the second Tuesday each month (except January) at 7.30 pm in the
State Emergency Services building in Montague St, Nth Wollongong.

Visitors are most welcome.

MERRY=CHRISTMAS=MERRY=CHRISTMAS=MERRY=CHRISTMAS=MERRY=CHRISTMAS=MERRY=CHRISTMAS=MERRY=CHRISTMAS
E VOLUME 90 ISSUE 11
RRY=CHRISTMAS=MERRY=CHRISTMAS=MERRY=CHRISTMAS=MERRY=CHRISTMAS=MERRY=CHRISTMAS=MERRY=CHRISTMAS



MERRY
CHRISTMAS
&
A HAPPY
NEW YEAR

COMMITTEE MEETING

I.A.R.S. NOVEMBER 1990

MINUTES OF THE COMMITTEE MEETING HELD ON TUESDAY THE 20TH OF NOVEMBER 1990 AT THE SES BUILDING MONTAGUE ST NORTH WOLLONGONG.

MEETING STARTED 19:40

PRESENT

VK2'S KEY (CHAIR), KHE, KCV, XCL, XLA, XSV, XGJ, TPH, XGX, JBS, TKE, MT.

APOLOGIES: -KLH, KWG, FPN. THE MINUTES OF THE PREVIOUS MEETING WERE READ AND CONFIRMED.

CORRESPONDENCE IN:

WIA- VARIOUS TOPICS INCL MEMBERSHIP DRIVE, WICEN, 1991 CALLBOOK ETC. DRAGNET-OCT 90 ST GEORGE AMATURE RADIO SOCIETY. BARG NEWS-OCT 90 BALLARAT AMATURE RADIO SOCIETY. WIA INFORMATION RE CONFERENCE OF CLUBS. KIAMA COUNCIL-PERMISSION TO USE SADDLEBACK MTN FOR FIELD EXERCISES. AUSTEN AND BUTTA-PERMISSION TO USE BULLI SITE FOR FIELD EXERCISES APC-OCT 90- MOORABIN AND DISTRICT RADIO CLUB INC. SMOKE SIGNALS -OCT/NOV 90 CENTRAL COAST RADIO SOCIETY. CENTRAL COAST RADIO CLUB -PREVIEW OF THE GOSFORD FIELD DAY. (17/2/91). BLAMAC COMPUTER SERVICE PACKET RADIO CATALOGUE.

CORRESPONDENCE OUT

LETTER TO KIAMA COUNCIL RE FIELD EXERCISES LETTER TO AUSTIN AND BUTTA RE FIELD EXERCISES BULLI PASS SENIC RESERVE TRUST - REQUEST FOR EXEMPTION FROM ANNUAL LEVY. McLEAN CONWAY INFORMATION ON PUBLIC LIABILITY INSURANCE RENEWAL.

GENERAL BUSINESS

- 1/ DEAD BOLT HAS BEEN PURCHASED AND WILL BE FITTED SHORTLY.
- 2/ PRICE FOR RENTAL OF TENTS AND EQUIPMENT HAS INCREASED. ORDER CHANGED TO 2 TENTS WITH KEN TKE TO SUPPLY B.B.O. EQUIP. VIC XSV TO ORDER TENTS AND JOHN XGJ TO PICK UP SAME.
- 3/ SECRETARY TO CONTACT KIAMA COUNCIL RE CERTIFICATE OF INSURANCE
- 4/ FIELD WEEKEND. A GENERATOR AND BATTERY CHARGERS WILL BE AVAILABLE, INDIVIDUALS TO PROVIDE THEIR OWN BATTERIES.
- 5/ COMMITTEE RESOLVED TO HOLD OUR CHRISTMAS NIGHT (NEXT MEETING) IN THE USUAL LOCATION AND FASHION. A CHRISTMAS RAFFLE WILL BE HELD WITH KEN, KWG TO PURCHASE RAFFLE TICKETS. JOHN, XGJ HAS CONSENTED TO BE MINISTER FOR FESTIVITIES FOR THE NIGHT.
- 6/ COMMITTEE MEMBERS AND OTHERS ARE REMINDED THAT THERE WILL BE A COMMITTEE MEETING ON TUESDAY THE 5TH OF FEB 1991 AS WELL AS TUESDAY THE 19 FEB 1991. THERE WILL BE NO MEETINGS (GENERAL OR COMMITTEE) DURING JANUARY.
- 7/ A REMINDER WILL BE SENT WITH THIS MONTHS PROPOGATOR RE STATUS OF MEMBERSHIP. IF YOUR WRAPPER IS BLUE YOU ARE UNFINANCIAL AND IN DANGER OF HAVING YOUR LIFE SUSTAINING COPY OF THIS PUBLICATION CURTAILED. OF COURSE YOU DID LOOK AT THE WRAPPER. IF IN DOUBT CONTACT KEN TKE OR RAY XCC.

THE COMMITTEE WOULD LIKE TO THANK ALL MEMBERS, VISITORS WHO PARTICIPATED IN THE NOVEMBER AUCTION FOR THEIR SUPPORT.

GOSFORD FIELD DAY

WE ARE HOPEING TO ARRANGE A BUS TO THE GOSFORD FIELD DAY IN FEBRUARY. PETER KHE, WILL TAKE NAMES ETC AFTER THE CALLBACKS TO GET A IDEA OF NUMBERS.

TOWER

THERE WILL BE (OR WAS, WHEN YOU READ THIS) A WORKING BEE TO DIG THE TOWER FOUNDATIONS AND LAY CONCRETE ON SATURDAY THE 1ST DECEMBER. WERE YOU PART OF THIS HISTORIC EVENT?????? THANK YOU TO THE TOWER COMMITTEE FOR THEIR EFFORTS. PHIL TPH, WAS SO OVERJOYED THAT HE COULD NOT CONTAIN HIMSELF ----IN FACT HE DIDN'T AND CLEARED THE ROOM IN RECORD TIME (AND OUR SINUSES). *MORE ON THIS LATER...Ed* SPECIAL THANKS TO VIC XSV.

ROB REPORTS THAT THE NOISE THAT HAS BEEN PLAGUEING VK2RUW HAS STOPPED, AT LEAST FOR THE MOMENT. PHIL, TPH, HAS DONATED (OR LENT) A COLLINEAR ANT FOR THE REPEATER. IT IS HOPED THAT SOME TESTING WILL BE DONE AT KNIGHTS HILL IN THE NEAR FUTURE AS IT HAS THE PROSPECTS OF BEING A SUPERB REPEATER SITE. SEE ROB'S REPEATER REPORT FOR MORE DETAILS.

COMMITTEE MEETING CONT..

FUTURE CLUB TOPICS
INCLUDE:-

A TALK BY THE WIA ON
TOPICS RELEVANT TO OUR
HOBBY

AMATEUR T.V. (BY A LOCAL
AMATEUR-NOT A CERTAIN MR
SKASE).

BROADCAST OFFICER DUTIES
HOME BREW NIGHT (AMATEUR
RELATED GEAR - BUT GROG
WILL BE WELCOMED AND
TESTED OF COURSE.

THE SUBJECT OF AMATEUR
SATELLITES AND ROUNDED
OFF BY THE NEXT ANNUAL
GENERAL MEETING AT WHICH
YOU CAN ASPIRE TO HIGH
OFFICE AND WILL PROBABLY
ATTAIN IT, ESPECIALLY IF
YOU DON'T ATTEND.

THE COMMITTEE WOULD LIKE
TO TAKE THIS OPPORTUNITY
TO WISH ALL MEMBERS AND
THEIR FAMILIES A VERY
MERRY CHRISTMAS AND BEST
WISHES FOR THE NEW YEAR.
PERHAPS WE SHOULD ALL
STRIVE TO USE AS MANY OF
OUR BANDS AS OFTEN AS
POSSIBLE DURING THE
COMING YEAR.

GOOD DX AND 73 ...

THANK YOU

I THINK ALL THE MEMBERS
WHO ATTENDED THE RECENT
FIELD WEEKEND AT
SADDLEBACK MOUNTAIN WILL
JOIN WITH ME IN
CONGRATULATING THE
ORGANIZING COMMITTEE IN
A JOB WELL DONE. WE
ATTENDED FOR A BRIEF
WHILE ON THE SUNDAY AND
IT APPEARS THAT ALL HAD
A GOOD TIME. WE HAVE
INCLUDED ELSEWHERE IN
THIS ISSUE SOME
PHOTOGRAPHS TAKEN BY ROB
BUT THE COPIES DO NOT DO
THEM JUSTICE. AGAIN
CONGRATULATIONS TO THE
COMMITTEE. I FOR ONE WILL
BE ATTENDING THE NEXT
ONE.

A Ham's Christmas

By Walker A. Tompkins, K6ATX

Twas the Night before Christmas, and in the ham shack
Was the warm glow of tubes in the transmitter rack
The logbook was brought up to date with great care
In case the FCC might someday be there.

XYL and harmonics were snug in their beds
(No Tennessee Indians to addle their heads)
I plugged in the mike and my new VFO
Getting all set for a nice QSO.

When from the relays there rose such a clatter
I yanked the big switch to see what was the matter.
Then up on the roof by the two-meter beam
There came QRM like a heterodyne scream:

"On Gonset, on Babcock; On Viking and Elmac!
On Ranger, on Collins! On Heathkit and Eimac!
Bias to the grid and volts to the plate,
Just watch that S-meter while we all modulate!

From the antenna tuner Santa slid with a smile.
As I turned on the rig and reached for a dial
An RF choke he held tight in his teeth
And coax encircling his head like a wreath.
A bundle of Hamgear he had flung on his back -
Was that my name on a new power pack?

He had a stub nose like an egg insulator
And his cheeks glowed bright red like a hot
oscillator.

He spoke not a word, but went straight to his work
Laying out all the gear, then turned with a jerk
And, laying a wavemeter alongside his nose
Said "Pse QSL?" and up the feeders he rose.

He climbed up the dipole, to his team gave a whistle
And away they all flew like a jet-propelled missile.
But I heard his last signal from the ionosphere:
"Seventy three; Eight-eight! And a Happy New Year!"

Thanks to John Simon and the I.B.B.S.

VK2FPN VK2FPN VK2FPN VK2
K INVITATION F
2 P
FPN VK2FPN VK2FPN VK2FPN

SOME PEOPLE WILL DO ANYTHING TO GET OUT BETTER. PETER
READ VK2FPN HAS RECENTLY TAKEN A BIG STEP TO DO JUST
THAT. SOME PEOPLE RUN HIGHER POWER TO INCREASE THEIR
SIGNAL AND SOME OTHER PEOPLE PUT THEIR ANTENNAS UP
HIGHER. PETER HAS GONE ONE BETTER. HE HAS MOVED HIS
QTH TO A HIGHER LOCATION (A BIG TOWER WOULD BE
CHEAPER) AND HAS EXTENDED A INVITATION TO MEMBERS
AND FAMILY TO DROP IN AND SEE HIM AND FAMILY ON SAT
AFTERNOON THE 22ND OF DECEMBER FOR NIBBLES AND A
DIP. WE THANK PETER FOR THIS KIND INVITATION. THE
ADDRESS IS No 4 TARANA AVE
KANAHOOKA. (HE HAS A POOL)

REPRODUCED BELOW IS THE CONVERTED ILLAWARRA AMATEUR RADIO SOCIETY LEATHER TONGUE AWARD AS PRESENTED TO KEN VK2TKE AT OUR LAST MEETING. SO BE WARNED.....YOU DON'T KNOW WHO MAY BE LISTENING.....AND YOU MAY BE NEXT.

THIS IS AWARDED BY THE CLUB NOT THE EDITORS OF THIS MAGAZINE.
(WE HAVE NO TROUBLE CLEARING A REPEATER AS IT IS)

The Leather Tongue Award.
Repeater : VK2RAW/VK2RIL/VK2RAH

This is a perpetual Award of the Illawarra Amateur Radio Club Inc, made to any operators on the 2Mx or 70cm repeaters who are selected either by the Timeout Method or by the Waffling Method, to be the honoured recipient of the Award.

2. Timing period

The time is set at approximately 3 minutes and is completely at the mercy of RF interference, ambient temperature, and supply voltage.
So be careful!!!!!!!

3. How to win.....

The method used to win the Award, is entirely of the stations choosing. ie. It may be equipment failure, someone sitting on the microphone, or even the ratchet jaw method may be used.
So anything goes!

4. Responsibilities of the Holder.

- a) To display the Award in a prominent position in the shack and to explain how the award was won to anyone who enquires.
- b) To have a suitably engraved plate, with name and callsign, thereon attached to the award
- c) To monitor the repeater as often as possible to "catch" the next "Awardee", however if no new recipient is caught within 4 months, then the Award should be returned to the Illawarra Club and the Club Committee will determine the new recipient.

General conditions

- a) This is a fun Award and should be accepted honestly and graciously by the winner, but should they not admit the incident, then a verbal statement from 1 (one) listener who positively identified the station is all that is required to bestow the Award.
- b) Any excuse made by the "Winner" will be heard at a Club Meeting but must be ruled as inexcusable by the direction of these rules.
- c) If the Award is won by someone living outside the Illawarra region then the Award should be held at the Club on their behalf.
- d) The Club secretary is to maintain a list of all holders of the Award, including a summary of the relevant details.
- e) Should the conditions of section 4 not be fulfilled a nominal fine will be imposed.
- f) Any monies received should be used to maintain the Award and the repeater.

Codisil 1

If 6 (six) months have elapsed since the Award was last made, the President of the Club is empowered to bestow the Award on any member of the Club, for any reason what-so-ever. eg repeatedly discussing on the repeater, subjects which are totally boring to other listeners.

Illawarra Amateur Radio Club Inc.

THE FOLLOWING IS A LIST OF FINANCIAL MEMBERS OF THE IARR AS PER OUR CURRENT RECORDS. WE ARE PRETTY CERTAIN THAT THERE MAY BE SEVERAL MISTAKES AND IF YOU ARE FINANCIAL BUT NOT LISTED BELOW THEN LET THE COMMITTEE KNOW NOW. PLEASE DO NOT BE OFFENDED IF YOUR NAME IS NOT SHOWN AS THE COMMITTEE FEELS THAT THIS MAY BE THE BEST WAY OF UPDATEING OUR RECORDS.

Financial Members 1990/91 as at 20.11/90

VK2EU	W Ferneaux	VK2XSV	V Hee
VK2CO	C Webb	VK2XTE	W Curle
VK2HQ	F Hill	VK2XGX	S Ferrie
VK2IU	R Buono	VK2YKQ	D Henderson
VK2KQ	R Parton	VK2ZDM	J Mathews
VK2MT	R McNight	VK2ZLJ	J Lodding
VK2OB	K Curle	VK2ZNS	N Walker
VK2PG	P Gresser	VK2ZYS	A Stockley
VK2AGV	R McIntosh	-----	T Jepson
VK2AHN	T.C.Hobbs	-----	N Koosachi
VK2AIV	R Graham	-----	A Berkuta
VK2ALU	L Patison	-----	R Mitchell
VK2AND	J Simensen	-----	R Bonella
VK2ASN	I Bowmaker	-----	P Klower
VK2BHO	J Hodgkinson	VK2????	R Wooten
VK2BIT	P Woods	VK2????	S Benko
VK2CAG	G Dowse		
VK2CDP	D Parry		
VK2DHP	G Hood		
VK2DYU	W Chadburn		
VK2DSH	D Hughes		
VK2EBI	T Murphy		
VK2EJH	J Hayes		
VK2EMI	R Simkins		
VK2EMK	H Manning-Knight		
VK2ENX	A Mowbray		
VK2EWJ	J Woodward		
VK2EXN	I Callcott		
VK2FCW	J Delahunty		
VK2GID	G Denney		
VK2JBS	W Stone		
VK2JHW	H Williamson		
VK2JJJ	B Rewak		
VK2JTB	T Brown		
VK2JTS	A Stone		
VK2KCV	P Kennedy		
VK2KEY	P Jordan		
VK2KHE	P Tomlin		
VK2KLD	L David		
VK2KLH	B Clarke		
VK2KWG	K Grimm		
VK2NNJ	J Lawer		
VK2PJS	M Moore		
VK2PXN	J Williams		
VK2TKE	K Goodhew		
VK2TPH	P Howchin		
VK2XAN	P Laughton		
VK2XBC	C Stevens		
VK2XCC/PHD	R Ball		
VK2XDB	D Boys		
VK2XGJ	J Simon		
VK2XLA	G East		
VK2XNH	S Johnson		
VK2XRK	M Klien		

See Jack at

**NEWTEC
ELECTRONICS**

We stock

Alarms, antennas, kits,
tools, cable, data
books, Goldstar test
equipment, Electronic
components for the
professional, Amateur
and hobbyist.

**102 Kembla St.
Wollongong**

(opp. Wgong Bowling Club)

Ph. 27-1620

~ ~ PREVIEW ~ ~
CENTRAL COAST AMATEUR RADIO CLUB Inc
1991 GOSFORD FIELD DAY

Amateur radio operators, their families, friends and those interested in amateur radio are invited to attend the 1991 GOSFORD FIELD DAY which will be held on Sunday, 17th February 1991 at the GOSFORD SHOWGROUND. Gates open at 8.00am in wet or fine weather as all displays are under cover.

REGISTRATION: ADULTS - \$6.00, PENSIONERS - \$3.00,
CHILDREN (under 12) - Free.

A special group concession will also be available on application.

PROPOSED PROGRAMME

Sunday 17th February 1991

0800 to 1300 REGISTRATION
0800 to 1700 Tea and coffee available in Dining Room (no charge)
0930 Disposals booking-in closes (Dwyer Pavilion)
1000 DISPOSALS open (Entry southern end of Dwyer Pavilion)
1200 Bus Tour departs
1200 Various Seminars commence
1330 Drawing of raffle. Check at INFORMATION for winners.

Field Day attractions include -

Historical equipment display
Disposals
QSL Bureau
Seminars
Trade displays
Flea Market
Television Equipment of Yesteryear display
Amateur Television display
Packet Radio display
Ladies Stall
Complementary tickets for Reptile Park and Bus Tour
Video Theatre - Technical Presentation

A FIELD DAY INFORMATION SERVICE will be provided on the Gosford 2 metre repeater (6725) on Saturday afternoon and Sunday morning using the callsign VK2AFY/P.

TRAINS: Sydney and Newcastle trains will be met by a courtesy bus which will run between Gosford Railway Station and the Showground between 8.00am and 10.30am. Return transport may be arranged at INFORMATION.

PARKING: Plenty of off street parking is available at the Showground.

ACCOMODATION: Accommodation is usually scarce on the Central Coast at Field Day time, and early booking is advised.

CATERING: Tea, coffee and biscuits available from 8.00am to 3.00pm at no charge in the Dining Room. Takeaway food can also be purchased in the Showground.

CALLS PRESENT: Bring your QSL cards for the "CALLS PRESENT" board

EQUIPMENT of YESTERYEAR DISPLAY: See equipment from a by-gone era

EXHIBITORS: Companies, persons, groups or clubs wishing to set up a traders table or display at the Field Day should contact the Field Day Organisers.

at P.O. Box 252, Gosford 2250, before 25th January 1991.

DISPOSALS: Disposals forms and lot numbers may be obtained at the Showground on Saturday afternoon 16th February 1991. Items for disposal may be booked in on Saturday 16th February between 2.00pm and 4.00pm or on Sunday 17th February before 9.30am. Please note that 9.30am is the cut-off time for disposals booking-in and late arrivals may be refused. Improperly tagged or catalogued items WILL be refused.

FLEA MARKET: For those who wish to bypass disposals and sell their equipment trestles will be available in the Flea Market.

Information on Group Concessions, Trade Displays, Flea Market, Disposals, Programmes or any other Field Day information can be obtained by writing to:-

The Field Day Committee,
Central Coast Amateur Radio Club Inc,
P.O. Box 252,
Gosford. NSW. 2250.

After Hours PHONE. (043) 92 2244

For People Who Want Quality and Support a Realistic Price!

Thinking about PC's??

We sell quality IBM COMPATIBLES with Superior specifications to the original AND at much LOWER PRICES

XT, AT and 386 compatible Computers

All are TURBO machines and have 12 months warranty.

All we ask is that you **PHONE US** before buying
COMPUTERS, SOFTWARE or PERIPHERALS

SOFTWARE
Available: Educational, Real Estate, Milko, Doctor Hire, Register, Accounting, Sales Monitoring and Programming Languages for IBM and compatibles.

HARDWARE
Available: All peripherals for IBM and compatibles including Printers, Monitors, Hard Disks and Expansion Cards.

OTHER
Consulting, Contract Programming and Training Available. We have been in the industry since 1979.

For your Computer needs phone.....

Janson Computer Services

Ph (042) 61-5451

P.O. Box 397
Dapto N.S.W. 2530

Mon-Fri 7.30pm-9.30pm
Sat-Sun 9.30am-3.30pm

REPEATER REPORT

WELL, THE DIPLEXER FOR VK2RUW FINALLY ARRIVED LATE OCTOBER & WAS DULY INSTALLED AT HILL 60. WHAT A DIFFERENCE IT MADE. EVERYBODY THAT TESTED THE NEW SYSTEM FOUND THAT THE REPEATER WAS MUCH EASIER TO ACCESS & A MUCH INCREASED SIGNAL STRENGTH IN RETURN. IT WAS QUITE SURPRISING ACTUALLY, THE DIFFERENCE IT DID MAKE, NOT JUST A FEW DB BUT IN SOME INSTANCES MANY S-POINTS INCREASED. IT WAS OBVIOUS THE OLD SYSTEM WAS NOT TOO HEALTHY. IN THE MEANTIME, THE INTERFERENCE THAT RUW HAD BEEN SUFFERING CONTINUED, THE SIGNAL THAT FLOATED AROUND THE INPUT FREQUENCY, HAD BEEN OCCURRING FOR QUITE A FEW MONTHS. A COUPLE OF THE FELLOWS DID A "DF" ON THE OFFENDING SIGNAL, FRIANGULATING WITH HOME BASES, AND ENDED UP THE BACK OF FARBOROUGH HEIGHTS. THE HOUSE THEY WERE SITTING IN FRONT OF HAD NO ANTENNAS (BAR THE TV TYPE), SO IT APPEARED TO BE A RED HERRING. THE SIGNAL ITSELF WAS PROBABLY A MIX OF 2 SEPERATE SIGNALS & THE GUYS MAY HAVE BEEN RIGHT BETWEEN THEM, WHO KNOWS? ANYWAY, THEY REPORTED THEIR FINDINGS TO ME & I CONTACTED DOTC ABOUT THE PROBLEM. I WAS ASKED TO WRITE AN OFFICIAL REPORT ON THE PROBLEM BUT WOULD YOU BELIEVE THE SIGNAL CEASED BEFORE I SENT IT IN. SO CROSS FINGERS THAT IT DOESN'T RETURN, IT HASN'T TO THIS DATE - (1/12/90). AS MANY OF YOU ARE AWARE, RUW HAS UNDERGONE FURTHER UPGRADING. ON THE

23/11/90, I REMOVED THE REPEATER FROM HILL 60 & INSTALLED IT IN THE SAME CUBICLE AS RAH AT KNIGHTS HILL. THE SYSTEM CONSISTS OF REPEATER & DIPLEXER ATTACHED TO ABOUT 120 FEET OF LDF 4-50 AIR SPACED HELIAX CONNECTED TO A 16 FOOT LONG, 10DB COLINEAR-TYPE ANTENNA AT THE 100 FOOT LEVEL ON THE TOWER. THE REPORTS THAT I'VE HEARD SO FAR HAVE BEEN EXTREMELY GOOD. THE FURTHEST SOUTH REPORT IS FROM MILTON/ULLADULLA, TO THE WEST, JUST OUTSIDE LITHGOW (THE SIGNAL OVER TO THE BLUE MOUNTAINS IS VERY GOOD), & TO THE NORTH NEWCASTLE, (BUT CONDITIONS WERE HELPFUL). THE ANTENNA IS PRESENTLY ON THE NE SIDE OF THE TOWER, SO THE SIGNAL TOWARDS THE SW (TOWARDS GOULBURN) MAY NOT BE AS GOOD, BUT WE'LL SEE. INTO WOLLONGONG, THE ONLY SHADOW AREAS ARE ALONG THE EDGE OF THE ESCARPMENT IN THE NORTHERN SUBURBS (EG. BALGOWNIE, WOONONA HEIGHTS, ETC) BUT A HOME BASE TYPE ANTENNA SHOULD HAVE NO PROBLEMS. FURTHER IMPROVEMENTS TO THE SYSTEM ARE PLANNED, LIKE INCRASING THE HEIGHT OF THE ANTENNA TO 200', USING LOWER LOSS HELIAX (7/8" TYPE) INCRASING THE TXER POWER OUTPUT FROM 8 WATTS TO AROUND 25 TO 30 WATTS. THIS IS ALL GOOD NEWS, NOW FOR SOME BAD NEWS. IT HAS BEEN BROUGHT TO MY ATTENTION THAT SOME PEOPLE ARE NOT HAPPY ABOUT THE CHANGES TO THIS SYSTEM. NO ONE HAS SAID ANYTHING TO ME PERSONALLY, BUT THE GRUMBLINGS HAVE BEEN COMING THROUGH LOUD & CLEAR. IN FACT THE IMPROVEMENTS TO RIL (THE MUCH IMPROVED ANTENNA SYSTEM LAST YEAR), & THE REMOVAL OVER A YEAR AGO OF

THE UHF REPEATER (RIL) FROM SUBLIME POINT HAVE ALSO BEEN GRUMBLED ABOUT. THESE COMMENTS ARE DAMN ANNOYING & IN MY OPINION EXTREMELY UN-PRODUCTIVE TO THE CLUB. TALK LIKE: "NOW THAT THE REPEATER COVERAGE HAS BEEN IMPROVED EVERYONE FROM OUIT OF THE AREA/NOT IN OUR CLUB WILL BE USING THE REPEATER... THE REPEATER WILL BE SO BUSY NOW THERE WON'T BE ANYTIME FOR US TO USE IT... IT WILL BE TOO ANNOYING LEAVING THE RADIO ON THE REPEATER BECAUSE SOMEONE WILL BE USING IT ALL THE TIME...". OF COURSE THERE IS THE OLD SAYING YOU CAN'T PLEASE EVERYBODY ALL THE TIME, BUT ISN'T IT THE AMBITION IN ONES LIFE TO ALWAYS BETTER OR IMPROVE ONESELF. DOES THIS NOT ALSO APPLY TO ONES WORK OR TO YOUR HOBBY. THE WHOLE PURPOSE OF OUR REPEATERS IS TO ASSIST IN EXTENDING THE RAGE OF A LIMITED RADIO SETUP, IN PARTICULAR MOBILE OR PORTABLE STATIONS. TO THIS END OUR CLUB'S REPEATERS SERVE THIS PURPOSE WELL, BUT THERE IS "ALWAYS" ROOM FOR IMPROVEMENT FOR THE BENEFIT OF THE CLUB AS A WHOLE, NOT JUST FOR CERTAIN INDIVIDUALS. TO ALLOW FOR THE FULL PROCESS OF DEMOCRACY IN OUR CLUB TO TAKE PLACE, AT THE DECEMBER MEETING, THOSE IN ATTENDANCE WILL BE ASKED IF THEY WANT RUW TO RETURN TO HILL 60 OR REMAIN AT KNIGHTS HILL. ALSO DISCUSSION & SUGGESTIONS FOR IMPROVEMENT TO OUR CLUB'S REPEATERS WILL BE INVITED. IF YOU DON'T COME & HAVE YOUR SAY, THEN STOP YOUR GRUMBLING & COMPLAINING. AS I MENTIONED ABOVE, THE REMOVAL OF SUBLIME POINT UHF REPEATER VK2RIL A WHILE AGO HAS CAUSED SOME EX-MEMBERS TO HAVE THEIR OWN

REPEATER REPORT Cont.....

PRIVATE PROTEST AND NOT RENEW THEIR MEMBERSHIP. FOR THIS THEY ARE TOTALLY ENTITLED OF COURSE, BUT THE STORIES ABOUT HOW GREAT THIS REPEATER ARE TOTALLY INCORRECT. A BIT OF HISTORY- THIS REPEATER WAS ONLY SET UP BECAUSE IT COST NO MORE IN LICENCE FEES FOR THE CLUB TO CO-SITE UHF WITH THE PLANNED VHF. THE RATHER POOR QUALITY EQUIPMENT WAS ONLY PRESSED INTO SERVICE TO SATISFY THE REQUIREMENTS OF THE WIA THEN, TO ESTABLISH THE UHF REPEATER WITHIN THE YEAR OF FREQUENCY ALLOCATION OR LOOSE THE FREQUENCY. THE REPEATER ITSELF AND THE ANTENNA SYSTEM WERE ONLY MEANT TO BE TEMPORARY, AND THE PERFORMANCE OF THE REPEATER REFLECTED THIS. AT MY PLACE IN FAIRY MEADOW I CAN SEE SUBLIME POINT. VHF FROM THE SITE WAS AND STILL IS "FULL SCALE", THE BEST I COULD EVER GET ON UHF WAS ABOUT A THIRD OF THIS. OTHER PEOPLE I HAVE ASKED, COULD NOT EVEN ACCESS IT. THE REPEATER TRANSMITTER DESIGN IS RATHER PRIMITIVE BY TODAYS STANDARDS & IN FACT COULD BE CLASSED AS ILLEGAL THESE DAYS. WHEN I REMOVED THE REPEATER OVER A YEAR AGO (WHEN IT WAS SUPPOSIDLY WORKING GREAT), IT HAD NO ANTENNAS HOOKED UP TO IT IN FACT IT'S ANTENNAS (2 QUICKLY LASHED TOGETHER 2 ELEMENT YAGIS FACING SOUTH) DID NOT EVEN EXIST. THE CLUB'S ORIGINAL SUPPORTING MAST HAD BEEN REMOVED BY MOTOROLA & DISPOSED OF. HOW IT WAS SUPPOSEDLY WORKING SO WELL WITH NO

FEEDLINE OR ANTENNAS IS RATHER INTERESTING. IN FACT IT WAS IN THIS STATE FOR MANY MONTHS (POSSIBLY OVER 6 MONTHS). THE REASONS WHY WE DECIDED THAT IT WAS NOT WORTH RE-INSTALLING ARE THESE... THE EXTERNAL CABINET THAT ALLOWED FOR A SHORT RUN OF FEEDERS DOES NOT EXIST ANYMORE. THE REPEATER WOULD HAVE TO BE INSTALLED WHERE 7275 IS PRESENTLY LOCATED. THIS WOULD MEAN A RUN OF FEEDER AROUND THE LENGTH OF 120", FAR TO LONG RG213 TYPE, HELIAX WOULD HAVE TO BE USED, BUT BECAUSE THE REPEATER IS NOT DIPLEXED IT WOULD REQUIRE 2 RUNS OF FEEDER. RATHER EXPENSIVE. THE SPACE ON THE MOTOROLA TOWER IS VERY LIMITED, THE CHANCES OF GETTING 2 POSITIONS ON THE TOWER DIRECTLY ABOVE EACH OTHER FOR THE BEST ISOLATION WOULD BE VERY UNLIKELY. WITH ALL THE EXISTING COMMERCIAL ANTENNAS ON THE TOP HALF OF THE TOWER, WE WOULD END WITH THE TXMIT ANTENNA NOT FAR OFF GROUND LEVEL. 2 ANTENNAS WOULD BE REQUIRED. IF THEY WERE LARGE FOR GOOD GAIN THERE WOULD BE NO SPACE, IF THEY WERE SMALL THE GAIN FACTOR WOULD NOT BE THAT GREAT. THEN THERE IS THE COST OF HAVING TO BUY OR MAKE 2 ANTENNAS & THE ASSOCIATED SOFTWARE. AS STATED ABOVE THE QUALITY OF THE REPEATER IS QUITE POOR. SURE IT WORKED, BUT I CONSIDER IT'S QUALITY AN EMBARRASMENT TO THE CLUB, NOT TO MENTION THE LEGAL SIDE OF IT'S TYPE OF TXER. ALMOST HALF A YEAR AGO I POSED THE QUESTION AS TO WHETHER THE CLUB SHOULD MAINTAIN 2 FAIRLY AVERAGE TYPE UHF REPEATERS, OR

SHOULD WE CONCENTRATE ON HAVING ONE EXCELLENT ONE. THE COMMENTS I RECEIVED CONFIRMED THE LATTER. THIS IS WHAT WE ARE DOING WITH RUW, IT BEING FAR AND AWAY THE BETTER QUALITY REPEATER. THE ABOVE REASONS HAVE BEEN TOLD AT CLUB MEETINGS ON MANY OCCASIONS. THEY APPEAR TO HAVE FALLEN ON DEAF EARS. AFTER SUGGESTIONS FROM SEVERAL MEMBERS, THE REASONS HAVE BEEN PUT IN WRITING & PUT IN THE CLUB MAGAZINE. I APOLOGIZE FOR THE SPACE TAKEN, BUT IT IS AN EFFORT TO STOP THE KNOCKING. IF YOU ARE NOT SERVICED WELL, OR ARE UNHAPPY ABOUT OUR CLUB'S REPEATER SYSTEMS, PLEASE SPEAK TO ME OR ONE OF THE REPEATER COMMITTEE, DON'T TRY & STIR UP TROUBLE WITH YOUR CRITISIZMS.

AS A RAP UP TO THESE RAMBLINGS, ALL OTHER REPEATERS ARE BASICALLY OK. ROSIE IS COMING SOON TO OUR PACKET REPEATER. 6850 PRESENTLY APPEARS TO HAVE SOME DESENSE AGAIN. WE'LL WAIT TILL WE REINSTALL IT'S PROPER ANTENNA & SEE IF IT STILL EXISTS. RAH IS OPERATING ON LOW POWER & A LOWER ANTENNA WHILE RUW IS ON TEST AT KNIGHTS HILL.

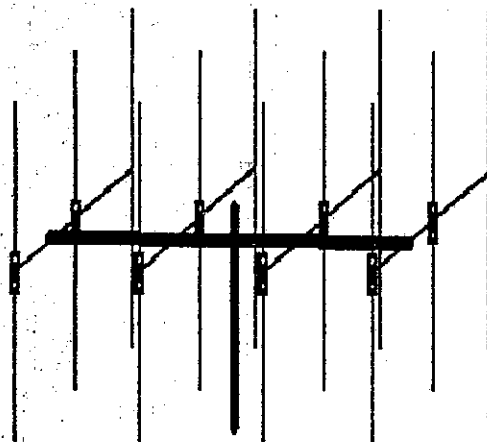
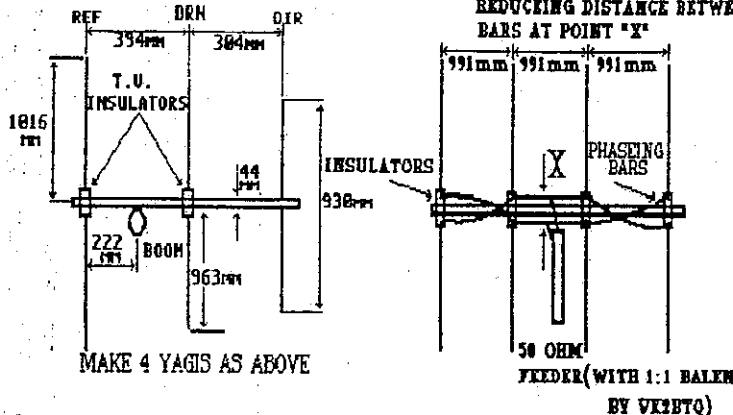
FINALLY, ON BEHALF OF THE REPEATER COMMITTEE, I WISH ALL THE BEST TO THE CLUB'S MEMBERS & TO OUR READERS FOR CHRISTMAS & THE NEW YEAR. A SPECIAL THANKS TO THE EDITOR FOR HOPEFULLY ALLOWING ALL OF MY REPORT TO BE USED.

BEST WISHES
ROB VK2MT

PHASED ARRAY AS USED BY VK2BTQ ON 2 METRES

BANDWIDTH 4MHz CENTRE FREQUENCY 146.00

ADJUST FOR BEST SWR BY
REDUCING DISTANCE BETWEEN
BARS AT POINT 'X'



REPRODUCED FROM
"THE LYERBIRD"
AUGUST 1979 AND
SUPPLIED TO US BY
PHIL VK2TPH.

THE ABOVE PLANS HAVE BEEN SUPPLIED TO US BY PHIL VK2TPH WHO STATES THAT THE ABOVE ANTENNA PERFORMS QUITE WELL. IF YOU DESIRE TO ONLY WORK THE TOP HALF OF THE BAND FROM 146.00 TO 148.00 MHz THEN THE DIMENSIONS MAY BE ADJUSTED AS FOLLOWS. CUT OFF 1/2 INCH OFF EACH END OF EACH DRIVEN ELEMENT.
CUT OFF 1/2 INCH OFF EACH END OF EACH REFLECTOR.
CUT OFF 1/4 INCH OFF EACH END OF EACH DIRECTOR.

PHIL HAS ALSO SUPPLIED DIMENSIONS FOR A 70 cm VERSION AS FOLLOWS.

REFLECTORS = 339 mm
DRN ELEMENTS = 321 mm
DIRECTORS = 310 mm

ELEMENT SPACINGS REF TO D*ELEMENT = 132 mm
" " " D*ELEMENT TO DIR = 102 mm

ARRAY SPACINGS = 330 mm
GOOD LUCK IF YOU DECIDE TO BUILD THIS PROJECT. ANY FURTHER DETAILS AVAILABLE FROM PHIL.

SOUTH COAST TRANSLATOR GETS ENVIRONMENTAL OK

AFTER LENGTHY POSTPONEMENT, THE UHF BROADCAST TRANSMISSION STATION (BTS) TO PROVIDE TELEVISION COVERAGE TO THE MILTON AND ULLADULLA AREAS ON THE NSW SOUTH COAST, APPEARS TO BE APPROACHING REALITY. WITH CONSTRUCTION EXPECTED TO BE COMMENCED IN EARLY DECEMBER.

THE COMMONWEALTH GOVERNMENT IS IN THE PROCESS OF CLEARING THE BAND II VHF CHANNELS TO PERMIT THE EXPANSION OF FM RADIO AND AERONAUTICAL COMMUNICATIONS. IN THE ULLADULLA AREA THIS APPLIES TO WIN 4 AND 1BC5A.

THREE TRANSLATORS ARE REQUIRED TO SERVICE RESIDENTS IN THE ULLADULLA HINTERLAND AND OTHER MOUNTAINOUS AREAS, DUE TO THE REDUCED COVERAGE PROVIDED BY THE NIGHTS HILL UHF TRANSMITTER.

TWO OF THE PLANNED UHF TRANSLATORS ARE NOW OPERATIONAL, ONE NEAR BATEMENS BAY AND THE OTHER NEAR NOWRA. THE THIRD, AT LITTLE FOREST TRIG, HAS BEEN A MAJOR STUMBLING BLOCK FOR THE GOVERNMENT.

LITTLE FOREST TRIG FALLS JUST INSIDE THE BOUNDARY OF THE MORTON NATIONAL PARK, CREATING A CONFLICT BETWEEN THE NATIONAL PARKS AND WILDLIFE SERVICE, LOCAL RESIDENTS, BUSHWALKING AND OTHER INTERESTED PARTIES, AND DOTAC.

IN JUNE THIS YEAR AN ENVIRONMENTAL ENQUIRY LOOKED INTO DOTAC ACQUIRING 0.6 HECTARES OF THE MORTON NATIONAL PARK. IT RECOMMENDED THAT NO FURTHER ACTION SHOULD BE TAKEN TO ACQUIRE AN INTEREST IN MORTON NATIONAL

PARK UNTIL FURTHER INVESTIGATIONS HAD BEEN MADE INTO AN ALTERNATIVE TRANSMISSION SYSTEM.

THIS CAUSED FURTHER DELAYS IN THE SITING OF THE BTS, SINCE DOTAC HAD TO LOOK INTO ALTERNATIVES.

ALL THESE DELAYS MEAN VHF CHANNELS 4 AND 5A ARE STILL OPERATING, WITH THEIR SHUTDOWN DATE HAVING BEEN EXTENDED SEVERAL TIMES.

DOTAC HAS ANNOUNCED THAT THE SHUTDOWN DATE HAD BEEN EXTENDED FROM NOVEMBER 30, 1990, TO THE END OF FEBRUARY, 1991.

"THE GO AHEAD HAS BEEN GIVEN FOR THE CONSTRUCTION OF THE PROPOSED MILTON/ULLADULLA TRANSLATOR (AT THE LITTLE FOREST TRIG SITE) FOR UHF TV COVERAGE," SAID A SPOKESMAN. THE TRANSLATOR IS EXPECTED TO BECOME OPERATIONAL BY THE END OF FEBRUARY, 1991.

"TERMS AND CONDITIONS HAVE BEEN AGREED WITH THE NATIONAL PARKS AND WILDLIFE SERVICE IN RELATION TO ACCESS TO THE PROPOSED SITE," HE SAID.

A REPRESENTATIVE OF THE NATIONAL PARKS AND WILDLIFE DEPT. SAID "I UNDERSTOOD THAT THE FINAL LEASE DETAILS HAVE BEEN SIGNED.

"THE DEPARTMENT IS PUTTING OUT CONTRACTS FOR THE CONSTRUCTION OF THE TOWER AND THE BUILDING AND WE ARE PROVIDING THE ROADWORKS, THE REHABILITATION WORKS AND REPLACEMENT WORKS FOR THEM. WE'RE PROVIDING THE FUNDING FOR THAT.

"EVERYTHING'S JUST IN THE PROCESS NOW," HE SAID. "THE WORK SHOULD START IN TWO WEEKS, WE EXPECT." BY STEVE WILSON
REPRINTED FROM BROADCAST ENGINEERING NEWS NOV 1990

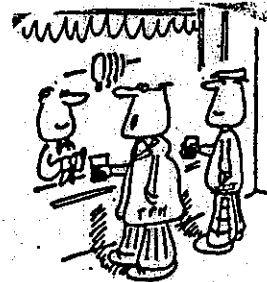
FOR SALE

COMMODORE C-64 COMPLETE WITH 1541 AND PRINTER. ALSO INCLUDES AAPRA MODEM HEAPS OF SOFTWARE. \$600 CONTACT- BRIAN CLARKE

BUS-02 2567724
HME-02 3452650

VICS LAWN SERVICE

WANT YOUR LAWN MOWED QUICK ????????
RING FOR VIC
HE'S REAL SLICK
HE'LL COME AND DO IT
IN THE TIME OF NICK
ALL ENQUIRIES CONTACT
VIC HEE VK2XSV



THIS IS ALL
THEY DID AT
ALL THE
OTHER
COMMITTEE
MEETINGS I
WENT TO.

**DONT
FORGET**

OUR DECEMBER
MEETING IS FAMILY
NIGHT SO BRING A
PLATE AND THE
FAMILY.

THE TRIBAL TREK

PAT THE BANISHED MEMBER OF THE WELL KNOWN TRIBE OF AFRICAN PYGMEES THE PHUKARWEE (SO CALLED BECAUSE THEY ARE ONLY 3 FEET TALL, AND LIVE IN 6 FEET TALL ELEPHANT GRASS), BECAUSE HE WAS TO TALL (JUST ED.), DID SET OUT ON AN ADVENTURE ONE SUNNY AFTERNOON WITH SOME MEMBERS OF HIS NEW TRIBE, THE IARS. NOW BEING A MEMBER OF THE IARS WAS SOMEWHAT DIFFERENT FROM HIS OLD TRIBE AS MANY DIFFERENT RITUALS AND CUSTOMS WERE FOLLOWED AND OBSERVED. ONE OF THESE STRANGE CUSTOMS WAS FOR SOME OF THE IARS TO TRAVEL MANY KILOMETERS FROM THE SAFETY OF THE FAMILY HOME, TO MEET OTHERS OF THE TRIBE, AND JOURNEY TO VACANT BLOCKS OF LAND ON TOP OF MOUNTAINS. THESE VACANT BLOCKS OF LAND WOULD BE CONSIDERED FOR OVERNIGHT RITUALS, WHERE MANY MEMBERS OF THE IARS WOULD ATTACH THEMSELVES TO SMALL BLACK BOXES WITH CURLY BITS OF VINE COMING OUT OF THEM AND CHANT FROM THE ANCIENT SCRIPTURES; SEE QUE DE EX TO MEET HER. THE OLDER AND WISER MEMBERS OF THE IARS WOULD CHANT DIFFERENT SCRIPTURES TO SHOW THEIR AGE AND LEARNING OF THE WAYS OF THE IARS. THEY WOULD SAY DIDAHDAHDIT DAHDAHDI DAH. WHEN GROUPS OF THE IARS MET TO LOCATE THESE PLACES OF WORSHIP, THE MORE TIGHTLY BONDED FAMILIES WOULD TRAVEL TOGETHER FOR FEELING OF SECURITY WHEN VISITING THESE STRANGE RELIGIOUS BLOCKS OF LAND. HOWEVER, SOME OF THESE WERE NOT AS TIGHTLY BONDED AS FIRST THOUGHT AS ONE OF

THE IARS PARTNERS SAID THAT HER HUSBAND WAS EXPENDABLE IN PREFERENCE TO A SMALL 4 LEGGED CREATURE THAT WOULD GIVE GREAT AFFECTION AND ENJOYMENT WHETHER IT WAS FULL OR M.T. ACCORDING TO SCRIPTURE, VARIOUS ASPECTS OF THERITUAL SITE MUST BE CONSIDERED, SUCH AS, WHICH GOD OR GODS WOULD BE BEST APPEASED BY THE USE OF THE SITE. MUCH GESTICULATING AND STICK POINTING IS DONE TO COME TO AN AGREEMENT OF WHICH GODS SHOULD BE SERVED AT THE SITE. ON THIS OCCASION IT WAS DECIDED THAT THE GREAT GOD ZED EL WOULD BEST BE SERVED IF THE RITUAL CHANTS WERE SAID AT THIS SITE. THIS SEEMED TO MAKE ALL THE IARS HAPPY INCLUDING THE KENTUCKY CHICKEN VENTURER (KNOWN FROM HERE ON AS THE KCV), WHO HAD ONLY COME ON THIS ADVENTURE BECAUSE HE HAD BEEN GIVEN THE RELEVANT AUTHORITY ON PARCHMENT BY THE OVERSEERS OF THE BLOCK OF LAND. THIS WAS IN CASE ANYONE FROM ANOTHER TRIBE SAID THE FIGHTING WORDS, "OI! WHAT YOU DOIN' 'ERE ?" IF THESE WORDS WERE HEARD, THE SAYER OF THE WORDS COULD BE SHOWN THE PARCHMENT, AND THEY WOULD BE APPEASED. AFTER THE GESTICULATING AND STICK POINTING HAD FINISHED, THE ADVANCED PARTY OF THE IARS DECIDED TO LEAVE THE NEW SACRED SITE, AND RETURN TO THE SAFETY OF THEIR FAMILIES. ANEW ROUTE WAS SELECTED FOR THE RETURN JOURNEY, BECAUSE IT WAS KNOWN TO BE MORE EXPEDIENT THAN THE ORIGINAL TRACK IN. UNFORTUNATELY FOR THE KCV, HE WAS LAME, AND

COULD NOT KEEP UP WITH THE OTHER IARS (MORE LIKELY HE TOOK THE WRONG TURN, ED). THE OTHER MEMBERS OF THE IARS HAD REACHED A WELL KNOWN TRACK, (THE OUSLEY TRAIL) WHEN THE VOICE OF THE KCV WAS HEARD OVER THE STRANGE BLACK BOX, "I'M IN A SPOT OF BOTHER", IT SAID. "MY CHARIOT HAS TAKEN ITSELF TO DIPPING ITS NOSE INTO DEEP MUDDY POOLS OF WATER AND REFUSING TO SURFACE." THIS CAUSED MANY GROANS AND MUCH CONCERN FROM THE OTHER MEMBERS OF THE IARS, AS THERE WERE MANY UNFAMILIAR TRACKS THAT THE KCV COULD HAVE VENTURED DOWN INTO THE WILDERNESS. THIS WOULD MAKE THE TASK OF FINDING THE KCV VERY DIFFICULT INDEED. TWO OF THE BRAVER MEMBERS OF THE IARS SAID THAT THEY WOULD GO AND LOOK FOR THE KCV. BY USING MUCH FORSIGHT AND INGENUITY, THEY CAME FROM DIFFERENT DIRECTIONS, ONLY TO FIND THEMSELVES, AND UPON THEIR MEETING THEY DID SAY THE MYSTICAL WORDS, "WHERE IZZEE"? THE KCV BECAUSE OF HIS SOLITUDE HAD TAKEN TO PRAYING TO THE SPIRITS, AND BECAUSE HE WAS A GOOD CLEAN LIVING IAR, THE GODS TOOK PITY ON HIM AND PROVIDED A SIGN IN THE FORM OF THE SPIRIT OF THE RED AND WHITE WINGED HANG GLIDER. THE KCV LOOKED UP AND SAID THAT THERE WAS A HANG GLIDER DIRECTLY ABOVE HIM HEADING NORTH. THIS WAS INDEED A FORTUNATE SIGN AS THE OTHER TWO IARS, WHO BY NOW HAD BECOME KNOWN AS THE OFFICIAL SEARCH PARTY, KNEW FAIRLY WELL WHERE THE

KCV WOULD BE FOUND. AFTER MUCH SOUNDING OF SIRENS AND REPORTS OF THEIR POSITIONS, THE KCV WAS FOUND (MUCH TO HIS RELIEF). THE KCV'S CHARIOT'S NOSE WAS REMOVED FROM THE MUDDY POOL, BUT THIS WAS ONLY TEMPORARY AS THE KCV'S CHARIOT HAD INDEED BEEN STRICKEN WITH THE DIPPING DISEASE AS NOT MUCH FARTHER UP THE TRACK, ON THE WAY BACK, THE BACK OF THE KCV'S CHARIOT DID FALL OVER A 6 FOOT EMBANKMENT. THIS DID CAUSE THE MEMBERS OF THE IARS SEARCH PARTY TO SAY "THE GODS ARE NOT WITH US". A REPEAT PERFORMANCE OF THE EXTRACTION TECHNIQUE WAS PERFORMED AND SOON THE KCV'S CHARIOT AND THE SEARCH PARTY WERE ON THEIR WAY BACK DOWN THE HILL ON THE TRACK THAT HAD ORIGINALLY TAKEN THEM TO THE SACRED SITE.

BUT THE GODS HAD 2 LAST LAUGHS LEFT, FOR AS THE KCV AND THE RESCUE PARTY APPROACHED THE ENTRANCE TO THE TRACK, THE GODS HAD PERFORMED GREAT MAGIC AND BLOCKED THE TRACK WITH A THING CALLED A LOCKED GATE. "BASTARDS" SAID ONE OF THE SEARCH PARTY WHOSE CHARIOT HAD NOT BEEN FED FOR SOME TIME AND THE WARNING SIGN "E" WAS SHOWING PREDOMINATELY IN THEIR EYES, BECAUSE, NOW THEY HAD TO RETURN UP THE MOUNTAIN TRACK AND TRAVEL HOME BY THE ROUTE TAKEN BY THE

OTHER MEMBERS OF THE IARS, WHO BY NOW WERE IN THE COMFORT OF THEIR DWELLINGS. THE THREE IARS NOW WENT ON THEIR WAYS TO THEIR OWN DWELLINGS, EXCEPT FOR THE ONE KNOWN AS XQX, WHOSE HORSES REFUSED TO TRAVEL ANY FURTHER 50M FROM A HORSE FEEDING STATION. THIS WAS NOT THE LAST LAUGH FOR THE GODS. THE LAST LAUGH WAS THAT THE HORSE FEEDING STATION WAS CLOSED AND THE XQX HAD TO COMPLETE THE JOURNEY ON FOOT.

SO ENDS THE TALE OF THE IARS.

Calling All Amateurs

It's time to visit your local Market at BULLI if you need :-

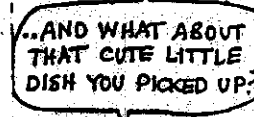
METERS
ANTENNA MATERIAL
RADIO PARTS
KIT BITS AND PIECES
ELECTRONIC THINGAMYS
TRUE VALUE MONEY

CAVIONS

11 Molloy St. Bulli

Ph (042) 84-6838

CREDITS:
 XQX XGJ MT& FAMILY XTEZ
 FAMILY & THE KENTUCKY
 CHICKEN VENTURER (KCV)
 RESCUE PARTY:
 XQX XTEZ FAMILY



VK2KEIRA WEEKEND

VK2KEIRA The weekend of 10/11 November saw an unusual callsign hit the bands (in a fashion). This was the weekend of the 50th anniversary of Mount Keira Scout Camp, near Wollongong. To celebrate this, a day of displays and activities was organised at the camp. Our intrepid reporter, Graham VK2GID, who will be anywhere there is Scouts and radio, was convinced to set up an Amateur radio display. Graham decided that an unusual call sign would be nice to have. Why not VK2KEIRA? A short trip to the DOTC office in town later, and things were under way. The staff were most helpful, and said that advice would be forthcoming. Shortly before the weekend, Graham received a phone call from Sydney saying that a five letter call was not possible, and an Unrestricted licence with a K suffix was not possible either. Later that same day came another call saying that Canberra had granted VK2KEIRA for use for the weekend. Thus enlightened, the cards were printed and the Camp was laced with towers and wires. Mt Keira camp is in a beautiful situation overlooking the city. Beautiful unless you are trying to transmit out of it, that is. The site had mountains around it for about 240 degrees. However it was fairly high, and so a couple of six metre towers constructed by the scouts gave us a fairly aggressive

station for working the South Coast on two metres.

Radio-wise, the weekend was a write off for HF DX (there was a JA contest on, and I couldn't hear one JA!!), however we had a decent amount of fun on the Saturday. This includes one stage where Rob VK2MT worked Graham VK2KEIRA, making Mt Keira. Hmmm....

Sunday morning saw Graham rise about 9:30 (it was a good evening!), to find that some helpful people had disassembled the complete station - towers, tents, the lot. This will explain why VK2KEIRA was not seen on Sunday for long (enough to copy the VK2WI broadcast). I managed to recover my 2m handheld, and found that even it would easily make VK2RMU (the Milton Ulladulla repeater...I believe that is the callsign) on 2.5 watts into a rubber duckie. Not a bad site.

Total QSO's for the weekend were...HF nil, 2m eight. Bit of a drag, really. Would I do it again? Getting such a radical call for the weekend made it worthwhile. But a better site would have made it much more fun. TNX DOTC for all their work in setting me up with KEIRA.

DOTC QUESTION

Anyone who answered last month's question with (e) Just hook it up and see what happens, should be ashamed. I don't care if it would still work.

Keith VK2OB asked us: A transformer is used to match a source impedance if 250 ohms to a 10 ohm load. What is the turns ratio? The answer is (d) 5 to 1. The turns ratio is the square root of the impedance ratio. The impedance ratio is 25:1, so we have 5:1 turns ratio.

This month, Keith hits us again with this semiconductor theory question:

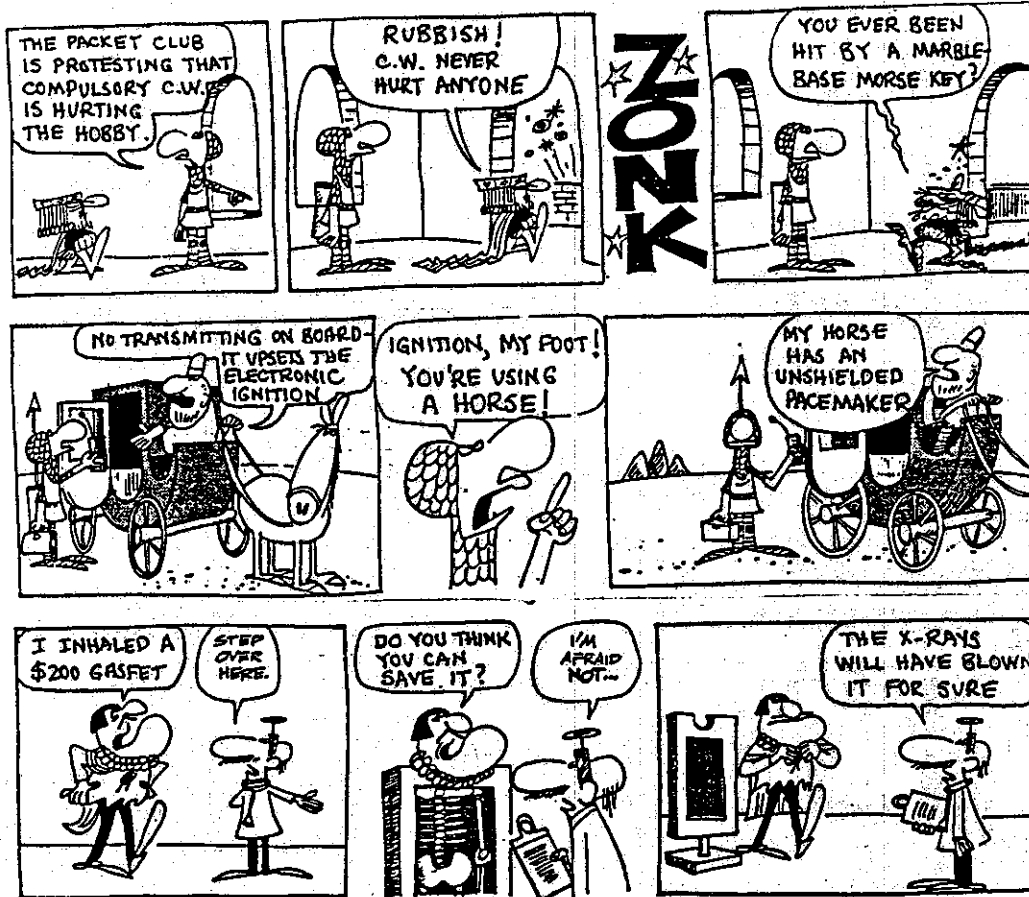
Which of the following will happen when forward bias is applied to a junction diode: (a) The potential barrier of the diode will increase. (b) The potential barrier of the diode will decrease. (c) The diode will have a high leakage current. (d) The diode will not conduct.

DOTC QUESTION

THIS MONTH KEITH ASKS, WHAT IS THE IMPEDENCE OF A YAGI WHEN THE DRIVEN ELEMENT IS A FOLDED DIPOLE?

- (A) 75 OHMS
- (B) SAME AS A HALF WAVE DIPOLE
- (C) 50 OHMS
- (D) 35 OHMS
- (E) 300 OHMS.

THIS
SPACE
FOR
RENT



MORSE NET

To those of you that may not be aware of it there is a practice morse net being run by Peter VK2KHE nightly at 19:00 Hrs MON TO FRI on 146.525 MHz. The idea of the net is to get people to participate in the learning of the morse code in preparation for the next examination to be held in February.

Every one is turning up at various times (YES EVEN RAY XCC) to participate (packet could be next RAY ????) and we would like to thank PETER for providing the service as it is very much appreciated.

DOTC EXAMINATION RESULTS

KEITH VK2OB HAS INFORMED US THAT THE FOLLOWING PEOPLE PASSED AS FOLLOWS IN THE RECENT NOVEMBER EXAMINATIONS.

PAT JORDAN - 10 WPM SEND
 DENNIS BALLIANA - AQLCP
 STEVE BORDIN - REGULATIONS
 MERVE COLLET - "
 ROBERT BONELLA - "
 RONALD HANKS - "
 PHILLIP KLOWER - "

CONGRATULATIONS TO THOSE PEOPLE THAT PASSED.

WHAT'S HAPPENED TO DENNIS?

REGULAR READERS WILL NOTICE THAT WE HAVE NO TECHNICAL INFORMATION FROM OUR RESIDENT TECH STAR IN THIS ISSUE. UNFORTUNATELY, WE HAVEN'T HEARD TOO MUCH FROM HIM.

WE HAVE HEARD, HOWEVER, THAT HIS RADIO IS ONCE AGAIN ALIVE AND WELL. HE AS BACK ON THE BANDS, WORKING THE WORLD (OR AT LEAST A COUPLE OF STREETS). THERE WAS A DISCUSSION ON THE WAY THAT PUTTING UP A BEAM WILL INSTANTLY CAUSE TVI, HOWEVER WE DIDN'T TAKE ANY NOTES, SO WE CAN'T WRITE TOO MUCH ABOUT IT.

LOST AT SADDLEBACK

ONE LASER SMALL VEGETABLE KNIFE AND A BROWN TENT BAG. MISLAID BY THE DYNAMIC VK2FPN. PLEASE RETURN TO HIS WIFE. (THE KNIFE NOT PETER....Ed)

WOLLONGONG ALUMINIUM CENTRE

Available ex stock, we have a large range of

Aluminium

- * Rectangular Hollows
- * Round Hollows
- * Square Hollows
- * Flat Bars
- * Channels

All at competitive wholesale prices

Ideal for building your own antennas

Situated close to the railway crossing

79 Gipps St Wollongong

PH 28-5188 FAX 299-382

IF YOU HAVE A ICOM-02N READ ON.

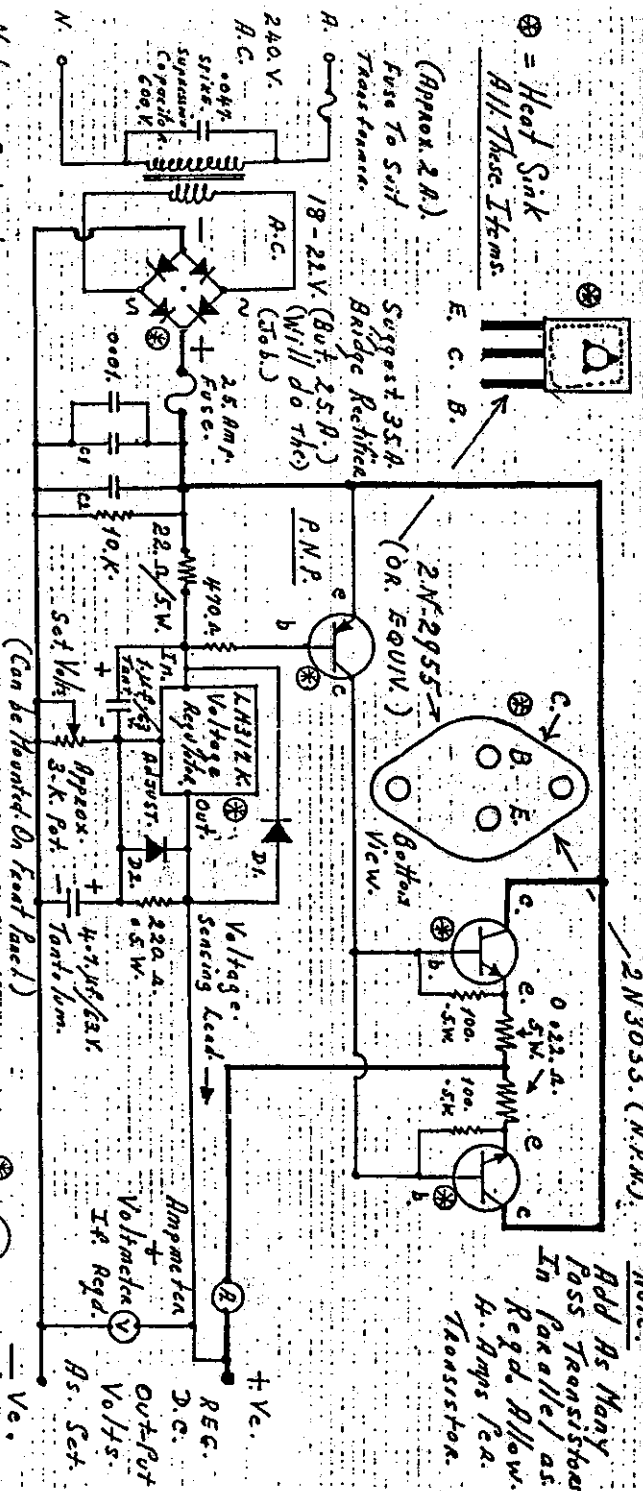
If you find yourself in the situation that an associate of the editors recently did this may be of some help. He managed to get his hands on a ICOM 02N the Japanese version of the ICOM 02A which was released onto the Australian market. Unfortunately the radio being designed for JAPAN only had a frequency coverage of 144.000 MHz to 146.000 MHz and no duplex facilities. By obtaining the necessary schematics for both radios (even though one set being in Japanese) he was able to determine the components which form the initialization diode matrix that determines the operating frequency of the radio. So with another set of hands being supplied by the XYL and A VERY LARGE magnifying glass with which to see the very small components he proceeded to lift the leg of diode D404 in the matrix. This had a very interesting effect of releasing the C.P.U. and allowing the radio to operate on the entire Australian band as well as full duplex facilities as well as a few frequencies above and below the amature band. Diode 404 is on the pc board located in the top left corner of pcboard NO 4 and is labelled D 404. Try this simple mod and see what results you get if you happen to get one of these radios.

A Heavy Duty Regulated Power Supply *W.P. G. (K1AD111)*

HJE2955. (90-05. CASE)

2N3055 (N.P.R.)

Note: Add As Many Pass Transistor In Parallel as Regd. Allow. 4. Amps Per Transistor.

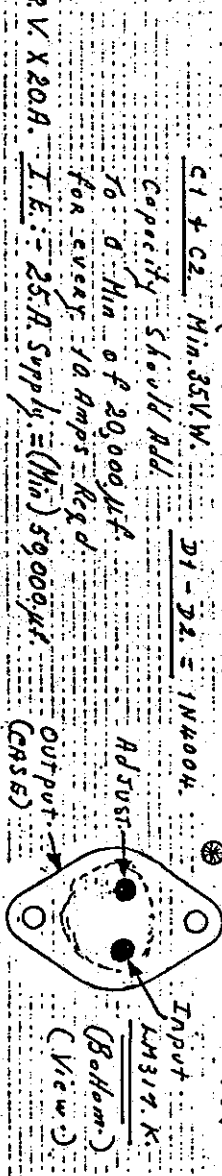


Note: - Output of Power Supply depends on Rating of Tr.

Transistor Used:

I.E. 276 Watt = 13.8 V X 20A. I.E. = 25A Supply = (Min) 50,000μF (CASE)

Capacity should add to a Min of 20,000μF for every 10 Amps Regd.



(Bottom) (View)

Most transmitters have an unbalanced output connection intended for use with a coaxial cable whereas the majority of antennas are balanced, so that conversion from an unbalanced to a balanced system has to take place at one end or the other of the feedline. There are many ways of carrying out this process but, ignoring such commonly-used devices as the gamma match which is inherently unbalanced and a lot of other arrangements which are unattractive for various reasons, one is left with the trifilar and bifilar wound auto-transformers shown in Fig 4.27.

These devices, contrary to much that has been written about them, are highly efficient as well as extremely simple both in theory and practice. All one needs to do is take two or three lengths of enamelled copper wire about 10in (25cm) long, twist or bind them very tightly together (this is the vital part of the process), wind them onto any odd bit of ferrite rod (Fig 4.28) that happens to be lying around, and connect them as shown. For a 3-30MHz balun the theory states merely that the inductance must be large enough not to shunt the line significantly at 3MHz and the leakage reactance which appears in series with the output must be negligible at 30MHz. This is a very small amount and failure to realize the crucial nature of this requirement may be responsible for the difficulties which have frequently been reported.

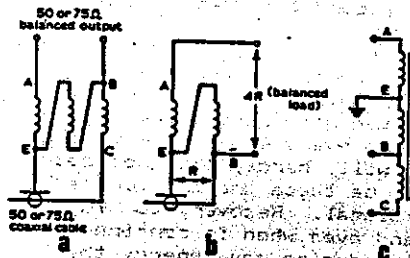


Fig 4.27. (a) Trifilar balun, 1:1 impedance ratio but one also provides 1:9 ratio (balanced or unbalanced) or 4:1 unbalanced on both sides. (b) Bifilar balun, 4:1 ratio. (c) Trifilar balun redrawn as auto-transformer to illustrate the principle of operation. The three (or two) windings are wound as one, with the least possible spacing between wires, though individual turns may be spaced out along the core as shown in Fig 4.28.

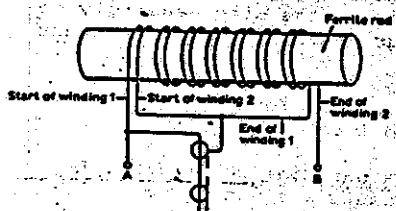


Fig 4.28. Construction of bifilar (4:1) balun. Although the wires must be bound tightly together spacing between turns is not critical unless impedances are very low, in which case leads must be as short as possible. Terminals AB provide a balanced output of 200-300Ω

Readers familiar with the large amount of recent literature on this topic may find it hard to believe that it can be simplified to this extent. Nevertheless, using these rules the author has constructed large numbers of baluns of many shapes and sizes. In one test no less than six ill-assorted small and large baluns in pairs, back-to-back, were inserted between a 400W p.e.p. transmitter and the antenna with an overall loss of only about 0.5dB and no untoward effects except that one very small one got too hot to touch!

Ferrite rings are less convenient than rods and there is a possibility of cross-modulation at high power levels due to saturation of the core [9]. The risk of this should be much less with rods, due to the greater reluctance of the magnetic circuit which is mostly "air gap". Balun transformers are so efficient that rods of less than 0.5in (13mm) diameter and a length of 2in (51mm) or less can be used for powers up to the legal limit (400W p.e.p.) in the UK. A 1:1 balun using 17 turns on a powder core 0.69in (18mm) diameter (Amidon toroid type T-68-6) had measured losses averaging less than 0.1dB, an swr better than 1.35 over the range 3.5-28.5MHz without compensation, and handled a power of 20W cw with only a modest temperature rise.

It is important to note with all types however that under some conditions of severe mismatch high temperatures can develop, and even for normal operation some means of escape for heat should be provided. Failure was experienced in the case of a balun encapsulated in Araldite for weather protection, and attributed to a combination of several factors: the Araldite, a bad mismatch and operation for too long under key-down conditions. Other failures have been attributed to the use of enamelled wire from an old mains transformer, the enamel having a tendency to chip off. Cotton covering, though perhaps obviously unsuitable, was once used in an emergency thereby merely creating a further emergency!

Construction
Twisting of the wires is satisfactory, avoiding the extremes of too tight a spiral or enough slack for daylight to be visible between the wires. It is probably better however to use straight wires side by side and bind them together as tightly as possible with insulating tape. The wire diameter should ideally be as large as will conveniently fit on to the core, but it is not critical. Some commercial baluns use a single-layer trifilar winding but, though reasonably satisfactory, this results in a slightly worse specification.

Starting from scratch with a ferrite core of unknown properties, six or seven turns (which need not be closely spaced) provide a good starting point, the completed balun being tested at low power on all bands with an swr meter and a dummy load consisting of, say, two 5W 100Ω carbon resistors in parallel. If the inductance is just right there will be a just-perceptible increase in swr at the lowest frequency. If the balun is to be used, say, for a triband beam covering 14-28MHz the swr may be allowed to rise from a typical value of 1-1.15 at 14MHz to 1.3-1.4 at 7MHz.

A good test procedure is to construct two identical baluns, connect them back to back, and insert them in the feeder, first on one and then on the other side of the swr meter. On the antenna side they should have little effect on the swr reading, whereas placing them on the transmitting side of the meter provides an indication of the total insertion loss (if any) for the two baluns.

For weather protection many types of plastic container may be pressed into service, using for example ordinary screw-type terminals with appropriate washers to ensure an adequate seal. Immersion of a completely unprotected transformer with twisted windings in a bucket of water produced an immediate loss of several decibels, some of which persisted after removal, but a "temporary" arrangement with taped windings and no other protection was used for several months in all weathers with little or no variation in relative signal reports. Nevertheless adequate protection is essential if the transformer is to be used in an inaccessible position.

- From "HF Antennas for all locations", by L.A. Maxon, G6XN.

THE LAST WORD

WELL THIS BRINGS TO THE END OF ANOTHER EPISODE IN THE PRODUCTION OF THE PROFOGATOR. WE HAVE AINED FOR A BUMPER ISSUE THIS TIME AS THERE WILL BE NO ISSUE NEXT MONTH, DUE TO THE CHRISTMAS BREAK AND DONT FORGET THAT THERE WILL NOT BE A MEETING NEXT MONTH. IT IS NOW 23:30 ON THE SUNDAY NIGHT AND WE HAVE BEEN AT FOR SOME TIME NOW BUT WE ENJOY IT. TOMORROW PETER VK2FFN WILL BE MOVEING AND SEVERAL PEOPLE HAVE VOLUNTEERED TO LEND A HAND. THEN THE FOLLOWING WEEKEND THE SAME WILL BE DONE FOR JOHN VK2XGJ. (COULD BE A CASE OF MUSICAL HOUSES). CHRISTMAS WILL SHORTLY BE APON US ----WHAT WILL SANTA BE BRINGING YOU A FULL REPORT OF THE FIELD TRIP WILL BE FORTHCOMING IN THE NEXT ISSUE AS WELL AS THE PHOTOGRAPHS THAT ROB TOOK (THEY LOOK GREAT-ESPECIALLY THE TIME EXPOSURE). WE WILL ATTEMPT TO REPRODUCE THEM NEXT ISSUE. BILL AND SIMON WENT UP TO SADDLEBACK ON THE SUNDAY TO HAVE A LOOK AT WHAT PEOPLE WERE DOING ON THE MOUNTAIN BUT IT SEEMED TO HAVE THE SAME EFFECT AS WHEN WE COME UP ON THE REPEATER- EVERYONE PACKED UP AND WENT HOME. WE DID HAVE THE PLEASURE OF MEETING SOME NEW FACES INCLUEING NOEL VK2ZNS OUR LOCAL WEATHERMAN WHO DID A SPLENDID JOB WITH THE WEATHER. IT SEEMS THAT EVERYONE ENJOYED THEMSELVES

AN IMPORTANT THING TO REMEMBER WILL BE THE PROPOSED TRIP TO GOSFORD FOR THE FIELD DAY BUS.

AT THE NEXT MEETING WE WILL BE TRYING TO GET A IDEA OF THE NUMBER OF PEOPLE THAT WOULD BE INTERESTED IN THE HIREING OF A BUS TO GO THERE.

EVERYONE WILL BE PLEASED TO NOTICE THAT WE HAVE PUT A NEW RIBBON IN THE PRINTER AS WE HAD A FEW COMPLAINTS ABOUT BEING HARD TO READ. IN FACT WE ARE US: ING A NEW S'WARE PACKAGE AND A NEW JANSON COMPUTER TO BRING YOU THIS ISSUE.

WELL THATS ABOUT IT FOR ANOTHER ISSUE. IF YOU ARE TRAVELLING OVER THE XMAS PERIOD TAKE CARE AND WE WILL SEE YOU ALL NEXT YEAR 73 AND CHEERS FOR A MERRY CHRISTMAS AND A HAPPY NEW YEAR.

YOUR EDITORS
SIMON VK2XGX
GRAEME VK2GID
BILL VK2JBS

VIMCOM

YOU KNOW THE PLACE
AND YOU KNOW THE NAME
AND YOU KNOW WHAT WE
DO SO WHY DO WE NEED
TO ADVERTISE TO TELL
YOU THAT BESIDES
ELECTRONIC
COMPONENTS AND BITS
AND PIECES, WE HAVE A
VERY LARGE RANGE OF
MICROCHIPS TO HELP
YOU BUILD THOSE
PROJECTS.

WE ADVERTISE TO ENABLE US TO
PROVIDE AN EVEN BETTER SERVICE
AND HELP YOUR CLUB.

Call in and see us at:-

131 Kenny St
Wollongong

(right down the southern end)

Ph. 284400

POST BOX

ALL MAIL CAN BE SENT TO "THE ILLAWARRA DISTRICT
RADIO SOCIETY" AT PO BOX 1838, WOLLONGONG, 2500.

REPEATERS

-VK2RAH - 29.520	VOICE	HF Mt MURRAY RX
29.620		KNIGHTS HILL
-VK2RAW - 146.850	VOICE	VHF Mt, MURRAY
-VK2RIL - 147.275	VOICE/RTTY	VHF SUBLIME Pt
-VK2RAW - 147.575	PACKET	VHF Mt MURRAY
-VK2RLW - 438.225	VOICE	UHF HILL 60
(OFF AIR) -VK2RIL - 438.725	VOICE/RTTY	UHF SUBLIME Pt

BROADCAST

-IS ON SUNDAY EVENING AT 6.45pm, IN RTTY MODE,
TRANSMITTED ON 147.275 AND RELAYED ON 3.618 MHz +/-
GRM. CALL BACKS TAKEN IMMEDIATELY AFTER. VOICE
BROADCAST HELD AFTER WIA RELAY ON 146.850 MHz
(VK2RAW) AND 3.618MHz +/- GRM.

WIA RELAY

-ON 146.850 MHz AT 10.45am AND 7.15pm EACH SUNDAY.

NEWS LETTER

-PUBLISHED EACH MONTH TO REACH ALL FINANCIAL MEMBERS
IN THE WEEK PRECEDING THE CLUB MEETINGS. ARTICLES
AND LETTERS ARE VERY WELCOME.

MEMBERSHIP

-\$15.00 P.A. CONCESSIONS \$12.00 P.A.

**LAWRENCE
HARGREAVE
AWARD**

-VK STATIONS REQUIRE 10 CONTACTS WITH IARS MEMBERS.
OVERSEAS STATIONS REQUIRE 5 CONTACTS. ONE CONTACT
WITH THE CLUB STATION VK2AMW IS SUITABLE. DETAILS
OF CONTACTS ARE TO BE SENT TO THE CLUB SECRETARY.

STORE

-THE CLUB STORE IS OPEN AT EACH MEETING.

******* COMMITTEE *********PRESIDENT
SECRETARY
TREASURER
ASSIST SEC
TREASURER
ASSIST TREAS
COMMITTEE**

-VK2KWG - KEN GRIMM	
-VK2KEY - PAT JORDAN	
-VK2KCV - PAT KENNEDY	
-VK2XSV - VIC HEE	
-VK2TKE - KEN GOODHEW	
-VK2KHE - PETER TOMLIN	
-VK2MT - ROB McKNIGHT	- VK2XSV - VIC HEE
-VK2FPN - PETER READ	- VK2XGJ - JOHN SIMON
-VK2KLH - BRIAN CLARKE	- VK2KHE - PETER TOMLIN
-VK2MT - ROB McKNIGHT	
-VK2KHE - PETER TOMLIN	- VK2XLA - GRAEME EAST
-VK2TKE - KEN GOODHEW	- VK2XGJ - JOHN SIMON
- TOM JEPSON	- VK2KLD - LES DAVID
-VK2TPH - PHIL HOWCHIN	
-VK2GID - GRAHAM DENNEY	
-VK2JBS - BILL STONE	
-VK2MT - ROB McKNIGHT	
-???	(Your name could be here....)
-VK2AXI - BRIAN WADE	
-ZAPHOD (VK2XGX, VK2JBS, VK2GID)	
-VK2DSH - DALE HUGHES	-VK2XCC - RAY BALL
-VK2XCC - RAY BALL	
-VK2DYU - BILL CHADBURN	
-VK2XSV - VIC HEE	
-VK2XSV - VIC HEE	
-VK2OB - KEITH CURLE	
-VK2ALU - LYLE PATISON	-VK2OB - KEITH CURLE
-VK2CAG - GRAEME DOWSE	

**REPEATER PRES
REPEATER COMM****QSL CARDS OUT
QSL CARDS IN
PUBLICITY
BROADCAST
CARTOONIST
PROPAGATOR ED
PRINTERS
SOCIAL DIRECTOR
CANTEEN
STORE
TOWER CD-ORD
DOTC LIASON
LIFE MEMBERS**