

VK3CNE

NERG NEWS

Newsletter of the
North-Eastern Radio Group

WHAT IS IT?

What on earth is a nerg? You may well ask! Well a NERG is a member of the Melbourne North East Radio Group. This group was formed in June and July this year and grew from discussions with several amateurs in the Northern through Eastern suburbs. It was found that there is the Western Suburbs club and then the Hillbillies with no radio club between. Therefore the NERG was formed (pronounced like surge). The inaugural meeting was held on July 7th with about 20 members present, a constitution was agreed upon. The group present saw the main aims of the group as providing - a place for local amateurs to socialize, - a technical forum and assistance, - support field day activities, and promote Amateur Radio within the community.

So far the NERG has :-

- i. Entered a team in the club contest at the last Mount Gambier convention, this team was successful and we now have the trophy in our possession
- ii. Had several interesting talks and coffee shop sessions
- iii. Begun organising the NERG John Moyle field day effort see later)
- iv. Has a number of informative evenings organised.
- v. Have several kits in the pipeline including an eighty watt amp for two metres.
- vi. Produced this newsletter.

The inaugural meeting decided that monthly meetings should be held on the first Thursday of the month and this appears to work well. Elsewhere in this newsletter you will find a timetable of our events for the next few months and we look forward to seeing you at one of them.

The next meeting of the NERG will be held on Thursday 3rd November when Ewen VK3BMV will be presenting a talk on "Microwaves in TELECOM" this will include information on some of the latest digital radio systems. The meeting will commence at 7:30 P.M. at the Montmorency High School entry via the carpark in Dobson Rd. Talk in on 147.125MHz.

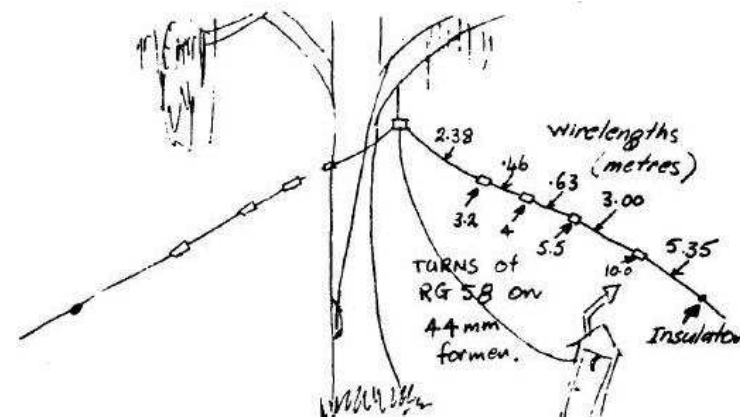
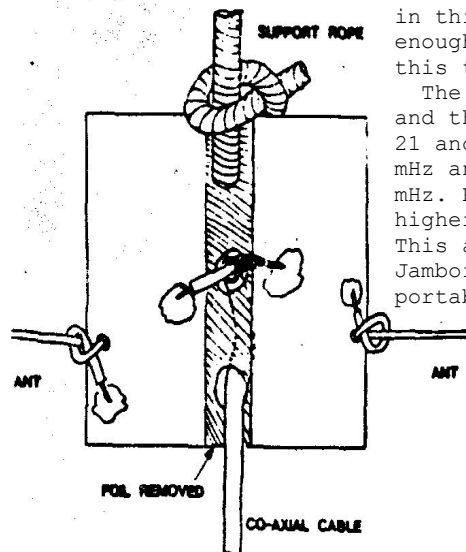
5 BAND TRAPPED DIPOLE

Greg VK3BGW

On the next page you will see a table produced by Paul VK3DIP which details co-axial cable traps for antennas. Well I tried these out recently when I had the need of a multiband antenna for the R.D. Contest. The diagrams show the general method of construction. The centre support piece is made from a piece of printed circuit board with the foil removed from the centre section, I used a file but etching would be better.

The former for the traps was a section of PVC drainage pipe with holes drilled for the ends of the co-axial cable and the antenna wire. Seal the ends of the co-ax with silicone sealant, this does not appear to be corrosive and is certainly weatherproof. The wire used was Automotive cable bought from K-MART and is available in thirty metre lengths one of these is enough for the antenna. Seal the ends of this too and it should last a long time.

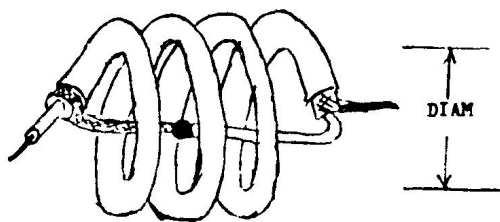
The antenna worked well in the contest and the SWR was less than 2:1 across 28, 21 and 14 MHz bands, less than 3:1 on 7 MHz and less than 3:1 across 100kHz of 3.5 MHz. Results were not fantastic on the higher bands, but some DX has been worked. This antenna was used in the recent Jamborie On The Air, it is ideal for portable use.



COAX TRAPS BY VK3DIP
USING RG 58

--- F O R S A L E -

FREQ (MHZ)	FORMER DIAM (mm)									
	6	8	10	12	20	25	30	40	44	60
1.84	****	****	****	****	89.0	68.0	54.0	39.0	34.0	25.0
3.3	****	****	****	83.0	47.0	36.0	29.0	20.5	18.8	14.3
3.6	****	****	97.0	81.0	45.5	35.0	28.0	20.0	18.3	14.0
3.7	****	****	95.0	79.0	44.0	34.0	27.5	19.5	17.8	13.8
7	80.0	62.0	50.0	42.0	23.5	18.0	14.8	11.0	10.0	8.1
7.1	79.0	61.0	50.0	41.0	23.0	18.0	14.5	10.8	10.0	* 8.1
10.1	55.0	43.0	35.0	29.0	16.5	12.8	10.5	7.9	7.4	6.1
14	40.0	31.0	25.0	21.0	12.0	9.3	7.6	6.0	5.6	4.8
14.1	40.0	31.0	25.0	20.8	11.8	9.3	7.6	5.9	5.6	4.8
14.2	39.5	31.0	25.0	20.5	11.8	9.1	7.6	5.9	5.5	* 4.8
14.3	39.0	30.5	24.5	20.5	11.9	9.1	7.5	5.9	5.5	4.8
18.1	31.0	24.0	19.5	16.0	9.3	7.3	6.1	4.8	4.5	4.0
21	26.5	20.8	16.8	14.0	8.0	6.4	5.3	4.3	4.0	3.6
21.1	26.5	20.5	16.8	14.0	8.0	6.3	5.3	4.3	4.0	* 3.6
21.2	26.5	20.5	16.5	13.8	8.0	6.3	5.3	4.2	4.0	3.5
21.3	26.5	20.5	16.5	13.8	7.9	6.3	5.3	4.2	4.0	3.5
21.4	26.0	20.5	16.5	13.8	7.9	6.3	5.3	4.2	3.9	3.5
24.9	22.5	17.5	14.3	11.8	6.8	5.4	4.6	3.7	3.5	3.1
28	20.0	15.5	12.5	10.5	6.1	4.9	4.1	3.4	3.2	2.9
28.2	20.0	15.5	12.5	10.5	6.0	4.8	4.1	3.3	3.2	2.9
28.4	19.8	15.5	12.5	10.3	6.0	4.8	4.1	3.3	3.2	* 2.9
28.6	19.5	15.3	12.3	10.1	6.0	4.8	4.0	3.3	3.2	2.8
28.8	19.5	15.3	12.3	10.3	5.9	4.8	4.0	3.3	3.1	2.8
29	19.3	15.0	12.3	10.1	5.9	4.7	4.0	3.3	3.1	2.8
29.2	19.3	15.0	12.0	10.0	5.9	4.6	3.9	3.3	3.1	2.8
29.4	19.0	15.0	12.0	10.0	5.8	4.6	3.9	3.3	3.1	2.8
29.6	19.0	14.8	12.0	10.0	5.8	4.6	3.9	3.2	3.1	2.8



NOTES.

1. NUMBER OF TURNS FOUND FROM ABOVE TABLE.
2. USE ONLY GOOD QUALITY RG58.
3. THE FRACTIONS OF A TURN ARE IMPORTANT SO CARE IS NEEDED.
4. ENSURE ALL INTER-CONNECTIONS ARE AS SHORT AS POSSIBLE.
5. TRAPS ARE CLOSEWOUND.

The following items are offered for sale, from the estate of the late David Moore, VK3KGR. Although much of the gear is Home-brewed, those of you who knew Dave will realise that all of it has been well built and meticulously tested and aligned.

The equipment etc. is offered for sale to NERG members and friends so, that as much gear as possible will go to his friends and fellow club members. All gear not sold, including a sizeable quantity of books, cables, transformers, variable capacitors, speakers & miscellaneous components etc will be brought to the November NERGS meeting for a mini-sale.

Please contact Geoff H. on B.H.609====, A.H.288==== or 147.125FM for details.

DESCRIPTION OF ITEM	PRICE \$ (ONO)
24 Hour digital clock (Home brew)	\$10
Walkman AM/FM radio	\$20
Ammeter - 20A FSO	\$10
RF Sig gen. - Tech Model TE-20D (-> 500MHz)	\$40
Power Supply (24V @ 150mA)	\$8
Car DC supply (4.3/6/7.5V switchable)	\$5
Trans Model 110 SWR meter	\$10
DC Supply (12V R 2A)	\$20
Heathkit HD1250 Dip meter	\$50
Home Brew UHF SW(meter	\$15
Bench Supply (0-20V, 0-1.5A Regulated)	\$40
Coax switch - 3 way (Dick Smith DS5206)	\$10
Miniature speakers (Pair)	\$10
Kenwood Hamclock	\$30
Dick Smith 1 watt CB (Converted to 10m)	\$40
Home-brew Digital multimeter (Prac. Wireless)	\$40
500Mhz Frequency meter	\$100
50Hz-500Mhz Portable Frequency meter	\$80
Calculators	\$5 each (2Units)
Microlith Scientific Calculator	\$15
Casio clock/timer/calculator	\$10
Stolle rotator & remote control	\$70
Scalar coaxial dipole (146Mhz)	\$10
BWW Duo-band Beam (3 elements on 10 R 15m)	\$80
Scalar Microlink 12-El. 70cm Yagi	\$15
Books, databooks & magazines	On Request
Muffin fans X 2	\$8
Gutter mount (Suit 2m whip)	\$10
1/8" Whitworth Nuts 8 Bolts (2000pieces)	\$20
Dick Smith RLC Bridge	\$15
Coaxial relays 1 @ \$8	
2 @ \$15	
RF Power transistors - 2xTRW9784 (75W@30Mhz)	\$25
- 2xTRW9797 (50W@30Mhz)	\$15
- 4xMRF450 (50W@30Mhz)	\$15
- 3xMRF433 (12W@30Mhz)	\$6

---No reasonable offer refused (Unreasonable offers ignored)--(If you are interested but feel the price is unreasonable Please let me know. . . many items were difficult to price!)

In 1983, 6-8 people who are now NERGs took part in the Annual John Moyle Field Day. The whole thing was thrown together at the last moment, but in spite of this managed to claim 2nd place in the VK 6Hour section. All who participated had a great time... but felt they could do considerably better if they had been a little more organised, or experienced in such ventures.

In 1984 we plan on taking part as a club. With the pool of equipment, experience & constructional abilities available to us should be able to put together a fairly impressive field station! All we, need now is YOU!!! (plus, of course, your enthusiasm, your gear & your time).

WHEN: 2nd weekend in February, 1984 (11th Feb)

WHERE: A carefully surveyed & prebooked hill in down-town Greensborough. An ideal Field-day site, made more so by its conveniently close-to-home type location.

WHAT: Operation on all bands 160m → 70cm for 24hours starting about 2:00pm local.

WHO: About 15-20 interested people prepared to assist in preparation, station setup, operating, logkeeping & miscellaneous other jobs likely to be necessary.

The organisation of such a mammoth task cannot be handled effectively by one person. It is proposed to nominate one person to coordinate each of the major areas of effort for the contest. The person looking after 80m, for example, would ensure that we have a suitably set-up 80m station on the day. Accomadation, log keeping, food, refreshments & power will be supplied as required. Thus, breaking the organisational tasks up into logical areas, we currently have the following:

AREA/BAND	TCVR	LINEAR	ANTENNA	PERSON RESPONSIBLE
1600	FT101	-	-	-
80m	Acitron(400W	-	Dipole	Greg, VK3BGW
40m	TS830	-	Dipole	Paul, VK3DIP
20m	TS520	-	-	-
156	-	-	-	-
10m	-	-	3E1 Beam	Ewan, VK3BMV
6m	IC551	60W	5E1 Beam	-
2m	IC22S	80W	Collinear	John, VK3YGT
70cm	-	-	12 E1 Beam	Andrew, VK2KIR

As you can see, there are a lot of gaps to fill in! If you can fill the gaps, improve on whats already there, or just want to pitch in and help. . .then get in touch with:

Geoff, VK3CGH: Ph.288 6019 or 147.125FM

Greg, VK3BGW: Ph.435 7870 or 147.125FM

If you wish to participate but feel that you can contribute little in the way of gear... don't worry... what we really need is people who will be there on the day... to erect the station... to operate for one or more 3-4 hour sessions.... to assist in catering-or logkeeping. Just remember the old saying... you get out of such events, what you put into it.... so join in and enjoy the fun!

Committee

President - Greg Williams VK3BGW

Secretary - Vicky Edmonds VK3BNK

Treasurer - Paul McMahon VK3DIP

Committee Members

Ewen Templeton VK3BMV

Gary Carlson VK3KBL

Where to find the NERG



If you would like to contact the NERG there are several ways

These are:-

On the air on 147.125MHz fm, or there is usually one member listening to the 'Cocktail Net'on 3.58 or thereabouts after 11 pm local time

By mail at PO BOX 270, Greensborough, Vic 3088

At the monthly meetings held on the first Thursday of the month at the Montmorency High School, entry via the carpark in Dobson Rd.

J.O.T.A.

On Saturday the 15th and Sunday the 16th of October the NERG operated a station in the Jomborie On The Air at the First Eltham Scout hall. We received very short notice for this event so our participation was hastily put together. The original plan was to set up the station in a tent in Eltham Park and the Scouts had many other activities organised, all part of the Eltham Festival.

If you can remember that weekend you can picture Eltham park awash as it rained all Friday night and all day Saturday. Therefore the station was set up in the ScoutHall, it consisted of several CB type antennas supplied by the Scouts, and a trapped dipole and transceivers supplied by NERG'S. The CB vertical loaded up well on fifteen and ten metres and the dipole was used on forty and eighty.

Conditions on the bands were terrible and only VK stations were worked, all operators who took part really enjoyed themselves and we have offered to provide a station again next year. So keep it in mind and don't be surprised when we ask for your help next year.

Thanks to the following operators for helping out at such short notice. Brenda VK3QT, Paul VK3DIP, Henry VK3VPR, Even VK3BMV and Gary VK3KBL.

- 3 November 1983 - NERG Monthly meeting 7:30 PM Montmorency High School. Speaker - Ewen VK3BMV on the subject of microwaves in TELECOMMUNICATIONS
- 6 November 1983 - NERG Quarterly fox hunt 1:00 PM in the NW corner of the carpark at Doncaster Shopping Town. Hunts on 80, 10, 2, and 0.7 metre.
- 1 DECEMBER 1983 - NERG Monthly meeting 7:30 PM Christmas breakup. Montmorency High School
- 2 February 1983 - NERG Monthly meeting 7:30 PM Montmorency High School - Radio direction finding and Fox hunting.

This newsletter will be produced quarterly and a large number of this, the first issue have been printed and sent to every amateur in the NERG region. If you know of someone who may be interested in radio please lend them this one or drop us a line and we will send one out. There are two forms on the back page. if you would like to join the NERG fill in the application for membership and if you want to take part in the John Moyle field-day - (good fun as well as emergency training), please fill in the other form as well.

APPLICATION FORM

NAME _____

ADDRESS _____

CALLSIGN _____

JOHN MOYLE FIELD DAY

Yes I want to take part in the NERG effort

NAME _____

ADDRESS _____

CALLSIGN _____