

**FEBRUARY 2007**

NERG Inc.  
PO Box 270  
Greensborough  
Victoria 3088  
[news@nerg.asn.au](mailto:news@nerg.asn.au)

### WHAT'S ON IN FEBRUARY

#### Meeting Thursday 8<sup>th</sup> February, 2007:

The NERG year is off to a flying start in 2007 with two meeting nights in February! We kick off with the February meeting on **Thursday 8<sup>th</sup>** with a talk on **Amateur Radio Astronomy** by guest speaker **Mihai Dumitru**. He's interested in radio emissions from Jupiter and the Sun and is involved in the NASA JOVE project. Mihai will show us how to use simple dipole antennas with a general purpose receiver to hear signals beyond this world. He'll also demonstrate some of the equipment he uses and talk about plans to expand his radio astronomy observatory at Officer.

Two weeks later, on **Thursday 22nd February**, there will be a **special presentation on Sailplanes (gliders) and Radios** prior to a trip to the VMFG airfield for some flying on the 3-4 March weekend.

Also coming soon is the annual **John Moyle Field Day in March**. Everyone is encouraged to have a go at this popular contest whether out in the field or making contacts from home.

73, Mark Harrison, VK3BYY, NERG NEWS Editor

**The next regular monthly meeting is scheduled for Thursday 8<sup>th</sup> MARCH 2007, on Radio Foxhunting for Beginners - followed by a beginners fox hunt on Saturday afternoon, March 10.**

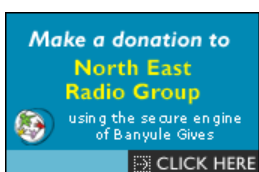
**Meetings start 7:45pm at the Briar Hill Community Hall, 126 Mountain View Rd, Briar Hill, Melways 21 C3.**

### DÉJÀ VU – THE DECEMBER MEETING

The grub was as good as ever at the NERG's end-of-year BBQ held at President Greg's QTH last December. A sudden downpour threatened proceedings at one stage but was averted by relocating festivities under the veranda. It didn't dampen the conversation though. And nobody was complaining about rain, especially those members on standby to be called out by WICEN to assist with CFA bushfire communications elsewhere in the state.

Many thanks to Greg and Denise for a great night!

### The NERG appeal



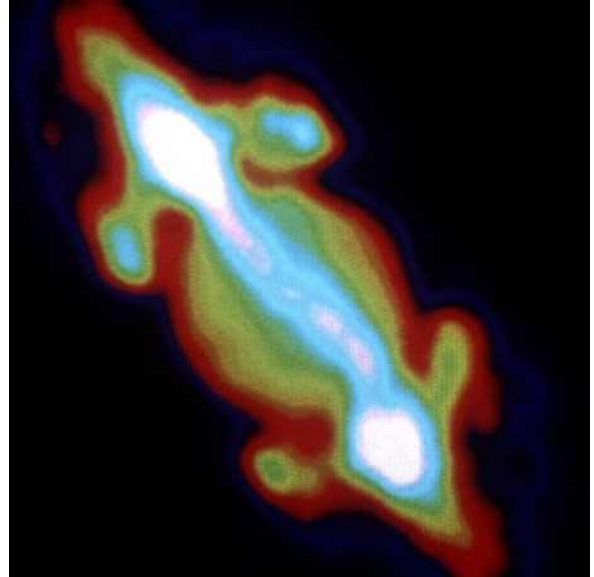
NERG is seeking donations to establish an Amateur Radio Communications and Training centre. The centre's aim is to provide courses that will provide complete training in Radio and Electronics to all

interested people. Age is no barrier; we train prospective Amateurs from school age through to folk in their 80's, with retirees often seeking involvement in a community based

# NERG NEWS

Incorporated 1985 in Victoria  
Reg No A0006776V - <http://nerg.asn.au>

## Thursday 8<sup>th</sup> FEBRUARY Amateur Radio Astronomy with guest speaker Mihai Dumitru



A radio image of Jupiter. (photo I. de Pater, UC Berkeley)

## And Then - Thursday 22<sup>nd</sup> Feb. Sailplanes and Radios - Special Presentation -



## Both on at 7:45PM, Briar Hill Community Hall

hobby. Funds will be used to purchase teaching aids and radio equipment used in the classes.

**Banyule Gives** is a service that manages the donation process for community groups in the Banyule Council region. See more at: <http://www.ourcommunity.com.au/banyulegives/nerg>

## THE GAINFULLY UNEMPLOYED GROUP



We have experienced just how a wonderful a chef our President Greg VK3VT is, the food presented at November meeting was just out of this world and all from the hands of Greg. It consisted of a soup, hot potatoes with numerous fillings, rolls and cold meals followed by a fruit platter. Many issues were

discussed and everyone had a opportunity to have a say. Those present to enjoy the day were John VK3ZRV, Gerhard VK3EWM, Ernie VK3FM, Dave VK3JMB, George VK3KMM and myself, Jim VK3KE.

The next meeting will be at Ernie's VK3FM on the Fourth Tuesday, 27th February 2007 - at 10am.

Cheers, Jim, VK3KE

Listen out on the NERG chat channel of 146.575 MHz during the day for directions, and for the latest DX spots.

## FLY LIKE A BIRD! SPECIAL NERG MEETING - 22<sup>ND</sup> FEB.

A special NERG meeting with guest speaker from the Victorian Motorless Flight Group will be held at at NERG Hall on the Thursday 22nd February with a presentation on the sport of gliding.

The NERG have arranged for you to go up for a gliding experience of a lifetime on the weekend of the 3rd/4th March 2007 (the actual day to be announced shortly and a fee does apply). Information about the picnic day at the VMFG home at Bacchus Marsh air field will be discussed at the meeting. Everyone is welcome to the talk and to the picnic.



Bookings are essential for the gliding experience - contact Don VK3KDT [vk3kdt(at)nerg(dot)asn(dot)au] or phone him on the mobile at 0409 024 597

## TIME TO PREPARE FOR THE JOHN MOYLE FIELD DAY

The 2007 John Moyle memorial field day contest is rapidly approaching on the weekend March 17/18. NERG has permission from the park rangers to again use its spot on the Northern peak of Mount Macedon. A dozen or so NERGs and associates are expected to operate under the club callsign VK3CNE.

Newcomers are most welcome, regardless of experience. If you can't make it to the field station then please listen out for us and other field station on any active band between mid day Saturday and mid-day Sunday. We'll be glad to explain the rules and procedures for swapping numbers on the air.

Photos of last year's station and plans for this year appear on the NERG website at:  
<http://www.nerg.asn.au/Fieldday2007.html>

Contest rules can be found online at the NERG and WIA web sites, and in the Jan/Feb edition of Amateur Radio magazine.

## HAMFESTS

Its hamfest time again, with the regular ones about to be joined by the new Centre Victoria RadioFest in Kyneton. Details below...

### Central Coast Field Day, Wyong NSW, Sunday 18<sup>th</sup> Feb.

Those dedicated enough to travel deep into VK2 land will be rewarded with Australia's largest hamfest. Flea markets, new and used ham gear, technical lectures & w/shops, YL activities, scanning, ATV, DX displays, historical exhibits, fox hunts. Catering on site  
[www.ccarc.org.au](http://www.ccarc.org.au).

### Healesville White Elephant Sale – Sunday 25<sup>th</sup> February at

Healesville Memorial Hall (in the middle of town), Maroondah Hwy, Healesville, 10am - 2pm, \$5 entry, free tea & coffee, Light refreshments available, Table bookings call Gavin 5968 8482, hamfest@harg.org, [www.harg.org.au](http://www.harg.org.au)

Many tourist attractions nearby to make it a great family day out!

**Eastern and Mountain District Radio Club** has announced the annual hill-billy's White Elephant Sale at the Great Ryrie Primary School. Doors open at 10:30am on **Sunday 25<sup>th</sup> March**.

**Centre Victoria RadioFest** is a new event taking place on **Sunday 22<sup>nd</sup> April**, at the Kyneton Racecourse, 10am-3.30pm, \$10 admission.

It's only 50 minutes up the Calder Highway (just past Mt. Macedon). The Fest is a collaboration between the Midland Amateur Radio Club, Central Goldfields Amateur Radio Club and Amateur Radio Victoria. Major commercial traders have had instant enthusiasm for the event. For the latest information visit Centre Victoria RadioFest. For further details: [radiofest.amateurradio.com.au](http://radiofest.amateurradio.com.au)

## WEBS OF THE MONTH



Ham Atlas by Darek, SP6NVK (Poland)

[www.hamatlas.eu](http://www.hamatlas.eu)

This site brings together information on all 337 DXCC countries, with more than 3000 pictures and 1100 maps. Select a country or call area to list information such as geography, population, currency, flag, stamps, and of course DXCC call areas. Maps of entities are quite detailed once you zoom in on them (use your web browsers zoom feature). Often maps are accompanied by satellite images of various key landmarks and islands.

Learning more about a country in this way helps you appreciate some of the difficult conditions that many amateurs in other parts of the world have to operate under.

The web site is in both English and Polish languages.



**The Australian National VHF DX Group**

[www.users.bigpond.com/anvdg](http://www.users.bigpond.com/anvdg)

This site caters for the interests of Australian amateur radio operators who are interested in DX activity on the VHF bands and above. Mainly centred around 2m and 70cm and beyond, the ANVDG caters for all modes FM, SSB, CW and digital weak signal modes like WSJT.

The ANVDG site is intended to act as a gateway to VHF/UHF DX in Australia, to give others an insight into just what is possible using the Very High Frequency bands and above in Australia. Showing what excitement and success can be had using the various, interesting propagation techniques, of which each can be utilised at different times to make contacts, depending upon local and space weather conditions. Don't forget to admire the wonderful antenna photo album!

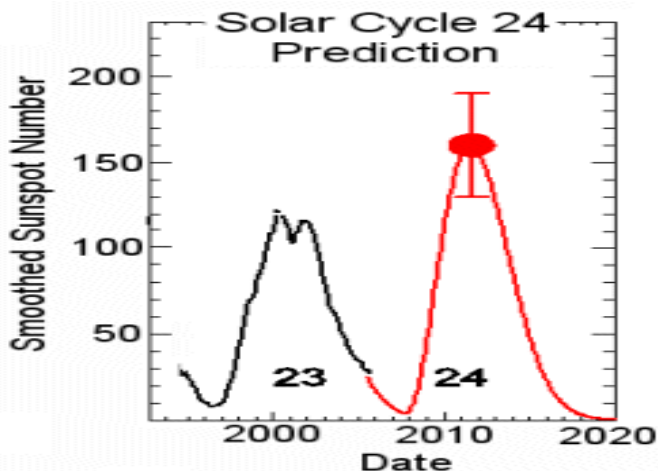
## WILL SOLAR CYCLE 24 BE THE BIG ONE?

Sunspots have a big influence on radio propagation, especially for the higher HF and VHF bands. Exceptionally long propagation distances can be achieved during periods of high sun spot activity.

Unfortunately sun spot activity varies in cycles, leading to very poor propagation during the sun spot minima. On average a peak occurs every 10.7 years, however the period may vary from 7 to 14 years.

Since we are currently at the bottom of a cycle there is a great deal of interest in predicting the timing and strength of the next peak. Amateurs everywhere are looking forward to the next big peak.

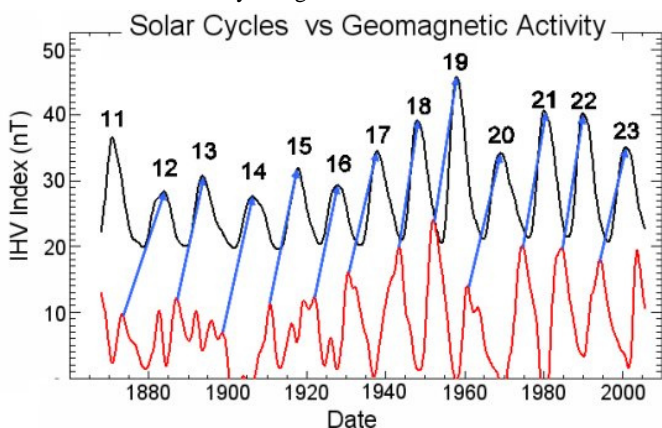
Current estimates for the next peak in sunspot activity, known as Cycle 24, vary widely. Some predict a very weak period while others are predicting the second best peak since radio was invented (the best being around 1960). The majority of predictions indicate that cycle 24 should be starting now, with good propagation between years 2009 and 2014, peaking around the year 2011. In the mean time you've still got time to put plant a new tower and build a linear!



Recent and predicted Sunspot activity (Hathaway & Wilson, NASA, 2006)

One of the most optimistic predictions comes from NASA scientists David Hathaway and Robert Wilson. It has amateur operators quite excited with cycle 24 being as good or better than cycles 21 & 22 (around 1985 & 1995). It could be so good that some of you may want to think about taking early retirement in order to concentrate on that elusive DXCC certificate! Leaving it until Cycle 25 (around 2022) is probably not wise – it's looking very bleak indeed for that peak, perhaps being the worst in the past century.

So why are sun spots important? The solar radiation is responsible for creating the ionisation layers above the Earth. These layers reflect radio wave back towards the ground, allowing communications to reach far beyond the horizon. Sun spot activity increases the solar radiation reaching the Earth, creating thicker and more widely spread ionisation layers. This allows radio waves of higher frequency to reach further, and under ideal conditions radio waves can be reflected several times between sky and ground to reach vast distances.



Geomagnetic activity (lower line) correlates well with Sunspot activity (upper line) (Hathaway & Wilson, NASA, 2006)

What makes Hathaway and Wilson's prediction interesting is their discovery that geomagnetic records over the past 150 years have shown a good correlation between geomagnetic storms and the resultant high sun spot activity that occurs about 6-9 years later. Geomagnetic activity over recent years has lead them to predict that the next sunspot cycle will be a good one. Several other studies using different techniques agree with them however in the end we'll just have to wait and see what happens.

Happy DX'ing!, Mark VK3BYY

For further information see:

[http://science.nasa.gov/headlines/y2006/21dec\\_cycle24.htm](http://science.nasa.gov/headlines/y2006/21dec_cycle24.htm)

<http://www.ucar.edu/news/releases/2006/sunspot.shtml>

## SUBHARMONICS

Gerhard VK3EWM is a grand dad again, with the birth of Natalya Elisabeth, second daughter to mother Christina. Born last month at 49cm and 3.5kg, Natalya has a good start on life and all are well.

Perhaps this is the start of another three generation amateur radio dynasty? Best wishes from the NERG.

## A 'SHOCKING' METHOD FOR MEASURING VOLTAGES

A shocking method for detecting high voltages was described until relatively recently in the AMERICAN ELECTRICIANS' HANDBOOK, first published in 1913 and currently in its 14<sup>th</sup> edition. We think the following "procedure" was dropped in the 1960's, which may explain why there aren't a lot of old electricians still alive today!

**Beware – the following method for testing mains power should never be tried at home (or indeed anywhere else!).**

*From the 7th Edition 1953 McGraw-Hill:*

MEASURING, TESTING, AND INSTRUMENTS

154. Electricians often test circuits for the presence of voltage by touching the conductors with the fingers.

This method is safe where the voltage does not exceed 250 and is often very convenient for locating a blown-out fuse or for ascertaining whether or not a circuit is alive. Some men can endure the electric shock that results without discomfort whereas others cannot. Therefore, the method is not feasible in some cases. Which are the outside wires and which is the neutral wire of a 115/230-volt, three-wire system can be determined in this way by noting the intensity of the shock that results by touching different pairs of wires with fingers. Use the method with caution and be certain that the voltage of the circuit does not exceed 250 before touching the conductors.

154. The presence of low voltages can be determined by tasting.

The method is feasible only where the pressure is but a few volts and hence is used only in bell and signal work. Where the voltage is very low, the bared ends of the conductors constituting the two sides of the circuit are held a short distance apart on the tongue. If voltage is present a peculiar mildly burning sensation results, which will never be forgotten after one has experienced it. The taste is due to the electrolytic decomposition of the liquids on the tongue which produces a salt having a taste. With voltages of 4 or 5 volts, due to as many cells of a battery, it is best to test for the presence of voltage by holding one of the bared conductors in the hand and touching the other to the tongue. Where a terminal of the battery is grounded, often a taste can be detected by standing on moist ground and touching a conductor from the other battery terminal to the tongue. Care should be exercised to prevent the two conductor ends from touching each other at the tongue, for if they do a spark can result that may burn.

**Editors NOTE: This advice was published in America, where the domestic supply is 115 volts, with 230 Volts between their 2-phase supply. Here in Australia it's common to come across old houses fed with two or three phase power, with 415 volts between phases. That is well in excess of the "recommended" 250 Volt limit for the finger test method!**

**What they also didn't mention is that it is the current that kills you, not the voltage. High voltage just forces more current through the body. In certain conditions voltages in the 12 to 50 voltage range can cause a lethal current to flow. So don't try the finger testing method – it may be the last test you ever do!**

## IDENTIFYING PLASTICS

There are so many types of plastics and blends on the market today that it's often difficult to find glue that sticks well. Since there is no "Universal" glue that sticks to everything, it is important to identify the type of plastic before attempting a repair. Only then can you go to the hardware store with some confidence in finding glue that will really work.

The following excerpt, adapted from welding plastics in *Plastics Distributor® & Fabricator Magazine*, should help identify most common plastics through four simple identification tests. You can try the following tests yourself:

### 1/ Scratch Test

This test is not very accurate, but it helps to give an idea what plastic you might be working with. Plastics have a certain surface hardness. Some are harder like ABS or PVC; some are softer like Poly Ethylene (PE) and Poly Propylene (PP).

Scratch the surface of the plastic with your fingernail. If you see a scratch you know it can't be ABS, PVC or any other hard plastic. So the group you are looking for is PE, PP, PTFE (Poly tetra fluoro ethylene or Teflon) or another softer material.

### 2/ Sound Test

Because of the different specific weight, and surface hardness, of plastic materials, the sound is not the same. An exact identification is hard to determine however.

Take a solid piece of the material and drop it on a hard and even surface from a height of approximately 5-10 inches (or 10-25 cm). You will hear specific tones. A trained ear can hear slight differences in a plastic's tone. Often this is a reliable determinant in discovering the plastics family.

### 3/ Float Test

Like the previous tests, this test only points to the identity of a plastic's family. All plastic materials have a specific weight that is higher or lower than the specific weight of water.

Take a glass filled with clear water (the water should be around room temperature). Cut small pieces of the plastic you want to test. Ad the sample to the water and observe the behaviour. Only two plastic materials will float - PE and PP. All other plastics will sink.

### 4/ Burning Test

This method is by far the most accurate test you can do by yourself. Every plastic material reacts differently when you burn it. For this test it is very important to know the different behaviours and smells of plastic. If possible, keep samples of plastic materials that you already know. You can compare these samples with the unknown plastic. Sometimes there is a stamp on plastic parts. This would be perfect to keep as a sample.

First, find a place where you will have enough fresh air. Second, scratch off a thin sample of the material and place it on a "heat resistant" surface – **DO NOT HOLD THE SAMPLE IN YOUR HAND**. Third, take a lighter and burn the sample. The use of matches is not recommended because of the scent of the sulphur.

Observe the reaction, flame or no flame, colour of flame, carbon above the flame, etc. Next, blow out the flame. Fan the rising smoke carefully to your nose and smell the odour. PE produces a Blue/Yellow flame, smokes, and smells like paraffin (candle). PP produces a Blue/Yellow flame, drips, and smells diesel like.

By combining these four tests, you should be able to identify the plastic material you are working with. Now you are ready to select a suitable glue or welding method (providing it's not

PTFE (Teflon) which is notoriously difficult and expensive to glue!).

\* The full "Welding Plastics" article is at <http://www.plasticmag.com/welding.asp?fIssue=Nov/Dec-00&aid=3052>

## 2007 ARDF/FOXHUNT CALENDAR

Events from the ARDF web site – check for updates and further details at [www.ardf.org.au](http://www.ardf.org.au) and [www.melbfox.com.au](http://www.melbfox.com.au)

FoxHunt = Friday night or weekend daylight mobile hunt.

RadiO = a simplified direction finding competition usually held at an orienteering event.

Bush = Bush orienteering event.

Inter = International event.

Type	Date	Event	Map
Street	Thu, 8 March	Northern Summer Series - Research	22 H2
Other	Thu, 8 March	NERG meeting	
Other	Sat. 10 March	NERG Beginners radio Foxhunt	NERG Hall
FoxHunt	Fri, 16 March	Foxhunt	
Other	Sat, 17 March	John Moyle Field Day	
Other	Sun, 25 March	EMDRC White Elephant	
Other	Thu, 12 April	NERG meeting	
FoxHunt	Fri, 20 April	Foxhunt	
Other	Thu, 10 May	NERG meeting	
FoxHunt	Fri, 18 May	Foxhunt	
Inter	Sat, 26, 27 & 28 May	Shropshire ARDF Festival	
FoxHunt	Sat, 9 June	Mt Gambier Foxhunting Championships	
Other	Thu, 14 June	NERG meeting	
Other	Fri, 15 June	Foxhunt	
Bush	Sat, 7 July	NSW Orienteering Champs	Dubbo
Bush	Sun, 8 July	Aust. Orienteering Champs - Dubbo Dash	Dubbo
Bush	Tue, 10 July	Aust. Orienteering Champs - Western Plains 1	Dubbo
Bush	Thu, 12 July	Aust. Orienteering Champs - Western Plains 2	Dubbo
Bush	Fri, 13 July	Aust. Orienteering Champs - Schools Relay & Model	Dubbo
Bush	Sat, 14 July	Aust. Orienteering Champs - Long Distance	Dubbo
Bush	Sun, 15 July	Aust. Orienteering Champs - Relay	Dubbo
Inter	Sat, 18 August	Friendship Radio Games - 2007	US Portland
Inter	Fri, 14, 15 & 16 Sept.	Region 2 ARDF Championships	US Lake Tahoe
Inter	Sat, 6 Oct.	Oceania DX Contest	
Inter	Sat, 27 Oct.	CQ Worldwide Contest	
Bush	Sat, 27-28 Oct.	Rogaining Vic Champs	

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**[www.margheritas.com.au](http://www.margheritas.com.au)**

**2007 AMATEUR RADIO EVENTS**

**FEBRUARY**

Until Mar 31 - Special event station 8J1ANT - Celebrates 50th anniversary of the Japanese Scientific Research Expeditions in Antarctica. QTH JARL headquarters.

Feb 18 – (Sunday) Central Coast Field Day - Wyong racecourse, opens 8.30am. [www.ccarc.org.au](http://www.ccarc.org.au)  
[fieldday@ccarc.org.au](mailto:fieldday@ccarc.org.au)

Feb 25 - HARG White Elephant Sale - Healesville Memorial Hall, Maroondah Hwy, Healesville, 10am - 2pm  
[www.harg.org.au](http://www.harg.org.au)

**MARCH**

Mar 10/11 - The 70th Commonwealth Contest, a team event between UK, New Zealand, Canada, India, and Australia. See [www.contesting.co.uk/hfcc/rules/rberu.shtml](http://www.contesting.co.uk/hfcc/rules/rberu.shtml)

Mar 17-18 - **John Moyle Field Day contest** - NERGs operating from Mt Macedon - Contest aims to encourage portable operation and provide training for emergency situations.

Mar 25 – (Sunday) EMDRC White Elephant Sale - Great Ryrie Primary School, Great Ryrie St, Heathmont, door open 10.30am. [wes2007@emdr.com.au](mailto:wes2007@emdr.com.au)

**JULY**

July 7+8 - GippsTech - The premier conference for VHF, UHF & SHF enthusiasts in Australia. Held at the Gippsland Campus of Monash University in Churchill, about two hours drive east of Melbourne. [www.qsl.net/vk3bez/index.htm](http://www.qsl.net/vk3bez/index.htm)

**OCTOBER**

Oct. 20+21 - The 50th Jamboree On The Air (JOTA) involves 500,000 Scouts and Guides worldwide contacting each other.

*NOTE: Confirm details closer to the posted date – some will change.*

UTC dates may be used for International events

Gathered from AR Vic, WIA, ARRL and various clubs.

The NERG Inc. RegNo A0006776V <http://nerg.asn.au>

The North Eastern Radio Group, Inc. is an amateur radio club devoted to encouraging members and others to enjoy the hobby of amateur radio. It tries not to hang on ceremony and endless reporting but rather participate in the fun aspects of this fascinating hobby.

**Membership Fees (due each August):**

**Full: \$30 Family: \$40 Concession: \$20**

**Send to: NERG Treasurer, PO box 270, Greensborough, Vic., 3088**

**Committee**

President	Greg Williams	VK3VT	9432 0563
Secretary	John Weir	VK3ZRV	9431 0667
Treasurer	Marg Baxter	VK3VOJ	9467 1253
Committee	Betsy King	VK3HBK	
	David Aston	VK3THY	
	Peter Cosway	VK3DU	9379 3626
	Don Haslam	VK3KDT	0409 024 597
Repeaters	Mark Harrison	VK3BYY	9435 3043

**Meetings**

2nd Thursday of each month at 7.45 PM (excepting Dec. & Jan.)  
Briar Hill Community Hall, 126 Mountain View Road, Briar Hill  
(Near Sherbourne Road intersection) Melway map ref 21-C3

**Classes**

NERG occasionally runs classes and exams for Amateur licences

**Callsigns and Repeaters (25km North East of Melbourne)**

Club call - VK3CNE <http://www.qsl.net/vk3cne>

6m rpt VK3RMH FM 52.550 MHz in 53.550 MHz out

70cm rpt VK3RMH FM 433.325 MHz in 438.325 MHz out

IRLP node 6350, EchoLink node 140587

6m beacon VK3RMH CW 10 Watts 50.295 MHz -Off air

10m bec'n VK3RMH CW 20Watts 28.2565 MHz

**Packet Radio VK3CNE2m 144.700 MHz, 1200 bps**

**VK3CNE-1 for mail etc; VK3CNE-7 for the DX Cluster.**

Occasionally home to the Scout Radio & Electronics Group repeater:

2m VK3RSR FM 146.375 MHz in 146.975 MHz out

**NETS**

NERG NETS run on 146.575 MHz FM Simplex (8.30 – 9.30 pm Thursdays). Please join the discussions. NERGs often monitor this frequency and the 70cm VK3RMH repeater.

**WEB Sites:** <http://nerg.asn.au> and <http://www.qsl.net/vk3rmh>

**NERG NEWS submissions and comments invited:**

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**NERG**

North-East Radio Group VK3CNE  
NERG Incorporated 1985  
BOX 270 GREENSBOROUGH VIC 3088

STAMP

**NEXT MEETING:**

**7:45pm Thursday 8<sup>th</sup> February 2007 - Amateur Radio Astronomy**  
**7:45pm Thursday 22<sup>nd</sup> February 2007 – Special talk – Radios in Sailplanes**

**2007 CALENDAR (NERG ACTIVITIES IN BOLD TYPE)**

- |                     |  |
|---------------------|--|
| <b>Feb 8</b>        | <b>NERG Meeting – Radio Astronomy</b>  |
| <b>Feb 22</b>       | <b>SPECIAL TALK at NERG - 7:45pm. - Sailplanes and the use of Radio in them - this is an introduction to the field trip in March to actually take a flight in one!</b> |
| Feb 25 (Sun.)       | HARG White Elephant Sale - Healesville Memorial Hall, Maroondah Hwy, Healesville, 10am - 2pm   |
| <b>Mar 8</b>        | <b>NERG Meeting – Radio Foxhunting for beginners - followed by a beginners fox hunt on Saturday March 10.</b>  |
| <b>Mar 10(Sat.)</b> | <b>Beginners radio Foxhunt, Briar Hill Hall, starts 2pm, 80&amp; 2 meters.</b>   |
| <b>Mar 17+18</b>    | <b>John Moyle Field Day contest – NERG's VK3CNE portable contest station at Mt Macedon</b>   |
| <b>Mar 3 or 4</b>   | <b>Field trip to Bacchus Marsh for picnic lunch and a fly in a sailplane (date to be decided).</b>   |