



NOVEMBER 2009

NERG Inc.
PO Box 270
Greensborough
Victoria 3088
news@nerg.asn.au

WHAT'S ON IN NOVEMBER

Greg Williams, VK3VT and NERGs President will give a talk on going solar at our November meeting on Thursday 12th. Some of the issues discussed include:

- Choosing a system
- Government rebates
- Waiting and preparation
- Selecting an electricity provider
- Monitoring systems
- Does it generate RFI?
- What's the cost?
- Will I get my money back and when?

Following Greg's talk there will also be a short slide show of the NERG's recent visit to the Australian Synchrotron.

73, Mark Harrison
VK3BYY, NERG NEWS Editor

THE GAINFULLY UNEMPLOYED GROUP – MEETS NEXT ON TUESDAY 24 NOVEMBER

The October meeting was held at the home of Barbara and Gerhard V3EWM, with the biggest rollup ever. Those present were Ewen VK3OW, John VK3XD, Ernie VK3FM, Dave VK3JMB, Mike VK3KMJ, George VK3MKK, Ian VK3QL, Steve VK3JSE, Greg VK3VT and myself. We were joined by Christina (formerly VK3KJI) and her two beautiful children, and of course the much cherished cook Barbara. A delightful spread was served with soup and two very large strudels. Many thanks to Barbara and Gerhard for hosting the meeting.

Next gainfully unemployed lunch will be held at the QTH of Denise and Greg VK3VT on Tuesday the 24th November from around 10am. Please RSVP to Greg direct or via email to "news at nerg.asn.au"

THE NEXT NERG MEETING

Due to the NERG BBQ next month and holidays during January, the next regular NERG meeting won't be held until **Thursday 11th February 2010**, starting 7:45pm at the Briar Hill Community Hall, 126 Mountain View Rd, Briar Hill, MELWAY 21 C3.

NERG END OF YEAR BBQ

The NERG end of year BBQ is ON!

\$10 a head - everything supplied (some beer but if anyone wants a lot then bring some!)

Starts around 6:30 PM on Thursday 10th December at Greg VK3VT's QTH. More details next month.

NERG NEWS

Incorporated 1985 in Victoria, Australia
Reg No A0006776V - <http://nerg.asn.au>
Affiliated with the Wireless Institute of Australia

NEXT MEETING: 12th NOVEMBER Going Solar Electric - One Person's Experience By Greg VK3VT



Photo by Ian Britton, Freefoto.com

Next COFFEE SHOP NIGHT 26th November

SPRING VHF-UHF FIELD DAY! 28/29 NOV.

Don't forget the VHF-UHF field day is on the weekend 28/29 November. If you can't get out and about, at least try to make it worthwhile for the field stations by making some contacts from home. All simplex modes can be used from 6 metres and up.

See the WIA web Contests page for more details:

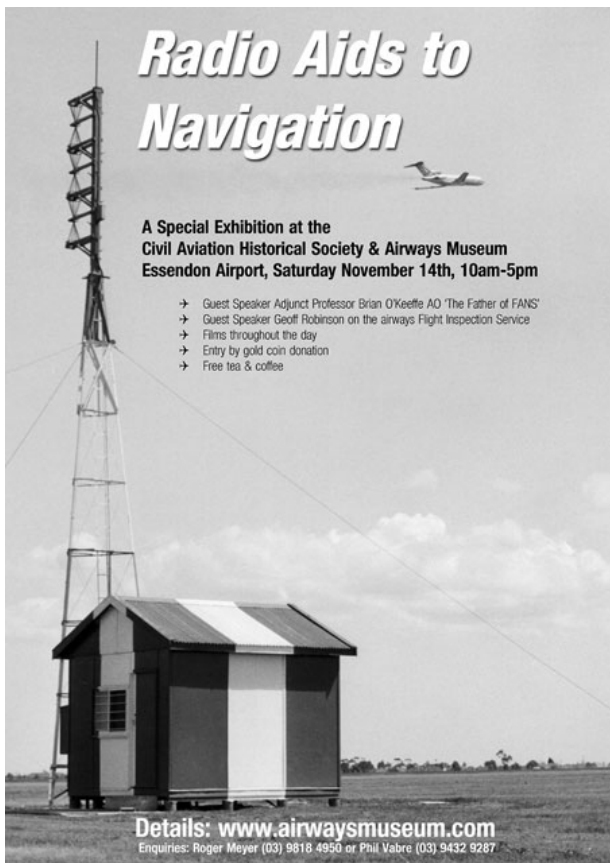
www.wia.org.au/members/contests/vhfuhf/

AIRWAYS MUSEUM OPEN DAY



The Airways Museum & Civil Aviation Historical Society is holding an Open Day on **Saturday 14 November**. A new exhibit will be unveiled on Radio Aids to Navigation that runs for a year. There will be several guest speakers and movies will be shown throughout the day.

The Open Day runs from 10am to 5pm, with entry to the museum by gold coin donation. The Museum is located at Essendon Airport, Melbourne, Victoria, at the rear of Building 44. Enter via Edgar Johnston Lane (Melway Map Ref 16 C7).



Radio Aids to Navigation

A Special Exhibition at the
Civil Aviation Historical Society & Airways Museum
Essendon Airport, Saturday November 14th, 10am-5pm

- Guest Speaker Adjunct Professor Brian O'Keefe AO 'The Father of FANS'
- Guest Speaker Geoff Robinson on the airways Flight Inspection Service
- Films throughout the day
- Entry by gold coin donation
- Free tea & coffee

Details: www.airwaysmuseum.com
Enquiries: Roger Meyer (03) 9818 4950 or Phil Vabre (03) 9432 9287

The Airways Museum is an aviation museum, but with one difference - there are no aircraft! Instead, the Museum houses a collection of national importance that traces the development of Australia's civil aviation airways system through innovation and technical development from its beginnings in the 1920s to today. The story is told through artefacts and photographs, and illustrates how Australia has often played a leading role internationally in aviation development. Displays include original air traffic control consoles, radar displays, and historic radio communications rooms.

The Museum has an excellent web site at:

<http://www.airwaysmuseum.com/>

Here you can find a wide range of photos with detailed explanations covering activities such as air traffic control, navigation and landing systems, and early outback airports. There is quite a bit on radio communications. Take a look for instance at the insides of an impressive looking 1950's Marconi HF transmitter at: [www.airwaysmuseum.com/Museum/SWB8 close up.htm](http://www.airwaysmuseum.com/Museum/SWB8%20close%20up.htm)

NERGS VISIT TO THE SYNCHROTRON



Large Electromagnets in the storage ring focus the electron beam

Several NERGs visited the Australian Synchrotron's open day on 25 October, 2009.

The Synchrotron has three major components – a linear accelerator to generate an electron beam, a booster ring to accelerate the

electrons, and a storage ring where the electrons circulate and generate the synchrotron light.

During the open day visitors were free to wander around the outside of the storage ring and view the inner workings of the ring at various access points. Normally the ring is encased inside thick steel and concrete walls. Naturally the Synchrotron was not operational during the open day!

“Beamlines” spaced at regular intervals around the outside of the storage ring pick off the “light” and use it in a wide variety of experiments and industrial processes. Most of the beamlines, also heavily shielded, were open for inspection and had staff present to describe their applications.

When operational, electrons circulate around the storage ring for up to 8 hours at close to the speed of light. The storage ring consists of bending and focusing magnets to keep the electrons travelling in a loop, with magnetrons to occasionally boost their speed. Each time an electron encounters a bending magnet, electromagnetic radiation in the form of light a million times brighter than the sun is emitted. This light is focused and filtered so that the required wavelengths are directed to the beamlines. Although there can be a beamline off each bending magnet, only about half the beamline ports are currently in use.

The synchrotron's light ranges from microwaves thru infrared and visible light, up to hard X-rays. Impressive and expensive looking instruments and vacuum systems are used in the beamlines to analyse a vast range of materials such as human tissue, plants, proteins, artefacts, minerals and more.

See Synchrotron.org.au for further information.

FRIDAY NIGHT FOX HUNT

VK3BLN is running this month's Friday night hunt.

The start location is yet to be chosen, but the finish will be in Warranwood, and start will be somewhere in that general vicinity. Not further west than Blackburn Shopping Centre, and not further east than McAdam Square.

Friday 20 November, 8.15 pm sharp please.

Mobile transmitter hunts are held each month on the third Friday night. Teams require a vehicle with a direction finding antenna and receiver for 2m, and one or more portable “sniffers” (often a three element beam, an attenuator, and a portable AM or SSB receiver with some form of signal strength indicator). Several hunts are held each night, usually requiring some driving to “get close”, often followed by a search on foot to find the transmitter. Hiding locations vary widely but must be on publically accessible land, and no laws can be broken during the hunts. “Hounds” have ten minutes to find the fox once the first person has found it. Competitors then regroup at a designated meeting point ready for the next hunt. Hunts usually go on until midnights, when everyone convenes for supper at the foxes QTH.

The Christmas hunt is on 11 December.

More information on Friday night foxhunts can be found at:

<http://www.nerg.asn.au/foxhunt/foxindex.htm>

<http://www.ardf.org.au>

or join the online newsletter/forum at:

<http://lists.id.oz.au/www/info/melb-fox>

2009 AMATEUR RADIO EVENTS

H = Hamfest, A = ARDF/RadiO/Foxhunt, C = Contest, M= Meeting, S = Special event, G = General, W = WICEN

FoxHunt = Friday night or weekend daylight mobile hunt.

RadiO = a simplified direction finding competition usually held at an orienteering event. **BushO** = Bush orienteering event. Check the ARDF web site for updates and further details at: www.ardf.org.au
November 2009

C Nov 7-8 ARRL Sweepstakes – CW ##

C Nov 21-22 ARRL Sweepstakes - Phone ##

C Nov 28-29 Spring VHF-UHF Field day. Later in the month than in past years. Details at: www.wia.org.au

January 2010

C Jan 1-31 Ross Hull Memorial VHF-UHF Contest

February 2010

- H Feb 14 Centre Victorian Radiofest #3, Kyneton Racecourse, www.AmateurRadio.com.au
- H Feb 28 Wyong Field Day, NSW

April 2010

- S Apr 2-5 WIA 100 Midland ARC Radio Electronic & Astronomy Expo. (Bendigo) Amateur and vintage radio & Astronomy. See www.marc.org.au
- C Apr 30-May 6 FM CQ Repeater Contest, open to all amateurs. Westlakes Amateur Radio Club

www.westlakesarc.org.au

July 2010

- H Jul 17 10am-2pm HAMFEST Gippsland Gate Radio & Electronics Club

for ARRL contest details <http://www.arrl.org/contests/>

NOTE: always confirm details closer to the posted dates!
 UTC dates may be used for International events.
 Dates gathered from WIA, AR Vic, ARRL, various clubs, VK Contest Club www.vkcc.com, and Banyule City calendars.




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Margherita proudly sponsors the delicious pizzas enjoyed at the NERG meeting nights

ARDF & FOXHUNTING EVENTS

The Victorian Amateur Radio Direction Finding Group has the following events listed in their calendar. Many RadiO (a simplified form of orienteering involving radio direction finding) and ARDF events are held together with conventional orienteering events. Friday night mobile transmitter hunts normally run on the 3rd Friday night of each month.

Updates and further details from www.ardf.org.au

Type	Date	Event	Map
FoxHunt	Fri, 20 Nov	Fox hunt	
FoxHunt	Fri, 11 Dec	Fox hunt	

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 in 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	VK3XD	9431 0667
Treasurer	Marg Baxter	VK3VOJ	9467 1253
Assistant	Jim Baxter	VK3KE	
Committee	Betsy King	VK3HBK	
	David Aston	VK3UQ	0411-877-051
	Peter Cosway	VK3DU	9379 3626
	Don Haslam	VK3KDT	0409 024 597
News/Repeaters	Mark Harrison	VK3BYY	9435 3043

Meetings

Main Meeting: 2nd Thursday of each month at 7.45 PM (ex Dec & Jan)
Coffee Shop nights: 4th Tuesday each month.
Briar Hill Community Hall, 126 Mountain View Road, Briar Hill
(Near Sherbourne Road intersection) Melway map ref 21-C3

Classes & Exams

NERG occasionally runs classes and exams for Amateur licences

Callsigns and Repeaters (25km North East of Melbourne)

Club call - VK3CNE <http://www.nerg.asn.au/vk3cne>

6m repeater VK3RMH FM 52.550 MHz in 53.550 MHz out

70cm rpt. VK3RMH FM 433.325 MHz in 438.325 MHz out

with 70cm IRLP node 6350, EchoLink node 140587

6m beacon VK3RMH CW 10 Watts H 50.2950 MHz

10m beacon VK3RMH CW 20 Watts V 28.2565 MHz

Packet Radio VK3CNE 2m 144.700 MHz, 1200 bps

VK3CNE-1 for mail,BBS; 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. Also used as a general Net frequency.

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

NERG NEWS submissions and comments invited:

editor: Mark Harrison VK3BYY

ph: 9435-3043 hm

post: 266 Nell Street West, Watsonia, 3087

email: news@nerg.asn.au



NERG

North-East Radio Group VK3CNE

NERG Incorporated 1985
BOX 270 GREENSBOROUGH VIC 3088

STAMP

Next Meeting: 7.45 pm Thursday 12th November 2009
Going Solar Electric - One Person's Experience by Greg VK3VT

2009 CALENDAR (NERG ACTIVITIES IN BOLD TYPE)

Nov 5	NERG Net – 146.575MHz FM 8.30-9.30pm
Nov 12	NERG meeting – Going Solar with Greg VK3VT
Nov 19	NERG Net – 146.575MHz FM 8.30-9.30pm
Nov 20	Friday Night Hidden Transmitter foxhunt
Nov 24	NERG Tuesday Lunch Group
Nov 26	NERG coffee night meeting
Dec 3	NERG Net – 146.575MHz FM 8.30-9.30pm
Dec 10	NERG ANNUAL BBQ

Regular NERG meetings will not be held in December and January.

Meetings resume again on 11th February 2010.

NERG NETS may still run on an ad-hoc basis every Thursday night.

Feb 11 **NERG meeting – 1st for 2010!**