

# West Australian Repeater Group Inc.

Serving Amateur Radio Since 1975

PO Box 2513 Mount Claremont WA 6010

[secretary@warg.org.au](mailto:secretary@warg.org.au)   [www.warg.org.au](http://www.warg.org.au)

## Annual Newsletter 2013

### **ANNUAL GENERAL MEETING**

To be held on

**Monday May 6th 2013**

The WA Repeater Group meetings are held at the Peter Hughes Scout Communications Centre previously known as the Hillview Scout Hall corner Gibbs St and Welshpool Rd, East Cannington.

Meeting starting time is 7:30pm on the 1<sup>st</sup> Monday of the month unless it is a public holiday, then the meeting is held on the second Monday.

WARG Technical and General Net.  
Held on Sunday mornings at 10:30am  
on the VK6RLM repeater 146.750 MHz

[warg@warg.org](mailto:warg@warg.org) Email Reflector.

Keep up to date and get all the Agendas and Minutes.  
Subscribe to the Reflector on the WARG website.

### **WARG ANNUAL MEMBERSHIP SUBSCRIPTIONS**

Subscriptions for the year April 1<sup>st</sup> 2013 to March 31<sup>st</sup> 2014 are due prior to the AGM to be held on May 6th 2013, 1930 hours, Peter Hughes Scout Comms Centre.

Membership fees are only \$25.00 per year.  
Please complete and return the form on the back page of this Newsletter.

Payments made later in the year (eg: at Hamfest) only cover membership until March 31<sup>st</sup> 2014.

## **Proposed Agenda for WARG Annual General Meeting May 6<sup>th</sup> 2013**

**To be held at the PHSCC Hillview Scout Hall at 7:30pm**

### **1 Minutes of the 2012 Annual General Meeting**

To be read. Corrections & Matters arising.

**2 Correspondence** To date no correspondence or notice of motions have been received.

### **3 President's Report**

### **4 Membership Report**

### **5 Consideration of the Financial Accounts for the year ending May 2013**

### **6 The Election of Office Bearers for 2013-2014**

The Council consists of nine Councilors, each with a vote. They are President, Vice President, Secretary, Treasurer, Membership Officer, Technical Officer, and at least three Ordinary Councillors. (If required, more Councillors can be elected to ensure the Committee numbers at least nine persons).

#### **Nominations**

President  
Vice President  
Secretary  
Treasurer  
Membership Officer  
Technical Officer  
Councillor  
Councillor  
Councillor  
Additional Councillors (if required)

Nominations for other positions:

Digital Officer  
Shop Manager  
Website Manager

No Repeater Site Managers have indicated they do not intend to continue in their positions.

If the number of nominations fill the vacant positions, no ballot is required.

### **5 General Business**

No items of General Business have been received.

Graeme VK6LV  
Secretary  
West Australian Repeater Group Inc.

## **PRESIDENT'S REPORT**

Greetings, Anthony here VK6AXB, with a report on WARG's work & progress over the past year.

In nominating as President at the 2012 AGM, I was conscious of the contribution Heath VK6TWO had made in the role, and knew I would have big shoes to fill. Heath deserves our thanks for his three years as President, and his stint as Technical Officer this year.

I am grateful of the support I have received as President over the past twelve months - and I am prepared to continue for another twelve, if the members of WARG so desire.

### **WARG in action**

Looking back over the past year, WARG has done some significant work, including finding a new site for VK6RLM, completing the battery upgrade at VK6RTH, and a range of other tasks at various of our sites. We held working bees to build pogo-stick antennas for Hamfest (see report elsewhere by VK6FMON) and to continue modifying ex-commercial cavity filters for 2m diplexers. (By the time you read this, VK6RFM should be on the way to having fresh cavities installed).

We carried out a bulk antenna purchase, to obtain a stock of site spares at a significant discount – the order was expanded to include personal antenna purchases, and many WARG members and others were pleased to take advantage of this.

We also created and printed an attractive leaflet for use in promoting WARG – thanks to VK6ZLZ and VK6FMON for their efforts with this. In addition VK6AXB has made a display banner for use at public events.

Ongoing fundraising through chocolate sales continued, plus sales of cable and pogo-stick antennas at Hamfest and meetings. Thanks are due to Ron VK6HRB for his efforts in running the WARG shop.

### **Planning Day**

Further work on the longer-term renewal of WARG's network was conducted in the form of a Planning day, held in February at Wireless Hill. This was open to all interested persons, not just WARG members, in order to obtain maximum input and ideas. Around twenty people attended on the day, and others contributed written ideas in the lead up.

After a day of discussion, some things were clear: we want to build systems that can be flexibly interlinked, or stand-alone as required. Modular equipment construction will allow us to

standardise on interfaces while experimenting with different controllers and hardware, and allowing straightforward module-swapping for easier maintenance. Task sharing and skills development can be achieved by forming small teams to focus on a particular area of work, and better use of web-based tools for collaboration.

We did not settle on one type of equipment, but will develop a test methodology for evaluating and comparing equipment performance. As part of this, a web-based form has been developed by Rob VK6LD, allowing repeater performance reports to be entered on-line. Look for the Feedback Form tab on WARG's website [www.warg.org.au](http://www.warg.org.au). Other decisions not finalised at the planning day will be discussed further and decided at future WARG meetings.

### **Coming up**

There is plenty of work remaining to do, tasks remain outstanding at VK6RBN, VK6RMS and VK6RMW, and work is planned to have these sites in good shape in time for the influx of visiting Amateurs expected for the WIA National AGM and Conference in Fremantle on May 25 and 26th. WARG are booked to deliver a presentation as part of the open forum on the 25<sup>th</sup>, we should use this opportunity to showcase our network and activities.

The presence of this national WIA meeting in VK6 is significant, and I encourage all WARG members to attend and support the Conference. While there is a cost to attend due to the expense of staging such an event, the amount asked is far cheaper than paying travel and accommodation to attend interstate. More information is available at [www.vk6.net](http://www.vk6.net).

### **Centenary**

WARG was one of many groups participating in the Wireless Hill Centenary celebrations held in October 2012. This year, 2013 marks the Centenary of organised Amateur radio in VK6 – the first societies were formed in 1913. To date, nothing seems to be planned – but we surely cannot let this anniversary pass without notice. What will be a fitting tribute to mark the last century, and herald the next? We only have a few months - thinking caps on!

### **Thanks**

I would like to acknowledge the hard work of the WARG Committee; the combined skills, energy and dedication of Cliff VK6LZ, Graeme VK6LV, Heath VK6TWO, John VK6JAH, Martin VK6ZMS, Monique VK6FMON, Peter VK6PM and Peter VK6AIF have been a driving force, I am grateful for their support and I am sure all WARG members join me in thanking them for their efforts this past year.

## PRESIDENT'S REPORT (continued)

### Thanks

Thanks are also due to those who serve as site managers, including Bob VK6POP, Bob VK6KW, Heath VK6TWO, Jim VK6CA, Mac VK6MM, Phil VK6SO, and Ray VK6ZRW – your vital contribution in keeping our repeaters on the air is appreciated.

Our technical and general net continues every Sunday, tune in to 146.750 at 1030 local, and thanks to Graeme VK6LV for his ongoing work as net control.

Thanks also to the many who have come to meetings, participated in site working bees, joined in the net, or contributed in other ways throughout the year – I can't list everyone by name, but your contribution is no less appreciated.

## Committee 2013

As some members of the outgoing committee are not able to continue this year, we are seeking volunteers - might you be willing to step forward and nominate for a committee spot for 2013? All that is needed is a desire to contribute to WARG, past experience (although welcome) is not necessary. If you are interested, please complete the nomination form on the back of the membership page, and bring along to the AGM on May 6th.

Finally, I would like to personally thank you for being a member of WARG this past year, and encourage you to renew your membership for the year ahead. For those not yet members, please consider joining WARG - your ongoing contribution will mean we can continue to progress VK6's repeater network, and through doing so develop our own skills and knowledge.

73 from Anthony VK6AXB

## POGO STICK ANTENNA DAY

by Monique VK6FMON

On July 15<sup>th</sup> 2012, WARG initiated a working bee led by Ron VK6HRB to make some of the popular Pogo Sticks to be sold at Hamfest. The great turn-out on the day was well worth it. In addition to Ron and Dot, many members, such as Mitch, John, Anthony, Neil, Ray, Ray jnr, Matthew, Graeme, Tom, Heath and Monique turned up to make this happen. (Editor's note: Monique deserves thanks for feeding us all on the day!)

Under the expert guidance of Ron, a production line was set up, with members taking to the hack saw and cutting the appropriate lengths of tubing, drilling of holes, measuring and part stripping of coax, putting caps on the ends of the cut piping and then soldering the connectors onto the coax, which was wrapped around the pipe – 10.5 turns seemed to work best - to create the magnificent Pogo Stick antenna!!

Once a total of 20 antennas were made up, Ray decided to grab his portable Antenna analyser and hook up each pogo stick to test the bandwidth and impedance match. The readings were good, with all antennas showing low SWR across the 2m band, with most under 1.2:1 in the FM portion. The antennas also load up reasonably well on 70cm, and although usable, performance is not as good as on 2m.

All in all it was a good day and thanks to Ron HRB and Peter VK6AH we sold a good number of Pogos at Hamfest 2012. We will definitely be doing another pogo working bee in 2013!



## Perth Area Repeaters – April 2013

D-STAR - VK6RWN – Sponsor WIA / WARG			D-STAR - VK6RWN - Sponsor WIA / WARG		
Input Freq	Output Freq	Location	Input Freq	Output Freq	Location
146.2375 MHz	146.8375 MHz	Roleystone	1.2939 GHz	1.2739 GHz	Roleystone
432.7750 MHz	438.1750 MHz	Roleystone	<b>D-STAR - VK6ROX - Sponsor VK6SKY</b>		
1.2983 GHz (DD)	1.2983 GHz (DD)	Roleystone	432.7250 MHz	438.1250 MHz	East Fremantle

Call Sign	Input Freq	Output Freq	Location	Sponsor
10m VK6RHF #	29.580 MHz	29.680 MHz	Split site (Rx: Bedforddale) (Tx: Martin)	WARG
6m VK6RAP	52.800 MHz	53.800 MHz	Roleystone 20K SE of Perth	WARG
2m VK6RNC	146.025 MHz	146.625 MHz	Wanneroo 25K N of Perth	EchoIRLP NCRG
2m VK6RAP	146.100 MHz	146.700 MHz	Roleystone 20K SE of Perth	WARG
2m VK6RLM	146.150 MHz	146.750 MHz	Roleystone 2 <sup>nd</sup> Site 20k SE of Perth	WARG
2m VK6RTH	146.200 MHz	146.800 MHz	Tic Hill 25K NE of Perth	WARG
2m VK6RIC	146.275 MHz	146.875 MHz	Portable	Statewide WICEN
2m VK6RFM	146.350 MHz	146.950 MHz	Fremantle 20K W of Perth	EchoIRLP WARG
2m VK6RSH	146.375 MHz	146.975 MHz	Portable	Statewide SCOUT
70cm VK6RPT	433.025 MHz	438.025 MHz	Suitcase Portable	Statewide WARG
70cm VK6RTH *	433.225 MHz	438.225 MHz	Tic Hill 20K NE of Perth	WARG
70cm VK6RVP *	433.425 MHz	438.425 MHz	(Off air, new site required)	WARG
70cm VK6RUF	(Temp. TX only)	438.525 MHz	Roleystone 20K SE of Perth	WARG
70cm VK6RNA *	433.725 MHz	438.725 MHz	Wanneroo 25K N of Perth	NSRA
70cm VK6RAP	434.800 MHz	439.800 MHz	Roleystone 20K SE of Perth	WARG
70cm VK6RNS	434.925 MHz	439.925 MHz	Whiteman Park 20K NNE of Perth	NCRG
70cm VK6RAR	434.950 MHz	439.950 MHz	Portable	Statewide WICEN
2m VK6RSR	147.225 MHz	Simplex Parrot	East Vic. Park 5K SE of Perth	VK6GHZ

Note: 10m # CTCSS 179.9 Hz Tone required, 70cm \* CTCSS 123Hz Tone required.

### WARG DIGITAL Frequencies currently in service

Bulletin Boards	VK6BBS 144.725 MHz User Port 1200 baud	Wireless Hill
	VK6BBR 144.875 MHz User Port 1200 baud	Roleystone Non operational at present.
	147.575 MHz Inter-BBS Forwarding Port	Note: There are at least 2 Non-WARG BBS's in Perth.
APRS	A number of WARG repeater sites have APRS and the roll-out of the network is an ongoing project.	

## Country Repeaters

### East of Perth Repeaters

Call Sign	Input Freq	Output Freq	Location	Sponsor
2m VK6RAK	146.400 MHz	147.000 MHz	Kalgoorlie 550K E of Perth	VK6RM
2m VK6RAV	147.875 MHz	147.275 MHz	Toodyay 70K ENE of Perth	WARG
2m VK6RKN	147.925 MHz	147.325 MHz	Kellerberrin 180K E of Perth	WARG
2m VK6REC	147.775 MHz	147.175 MHz	Wooroloo 50 km E of Perth	

### Southern & South West Repeaters

Call Sign	Input Freq	Output Freq	Location	Sponsor
2m VK6RBY	146.050 MHz	146.650 MHz	Harvey 110K S of Perth	SWARG
2m VK6RAL	146.125 MHz	146.725 MHz	Albany 385K SE of Perth	SEG
2m VK6RAA	146.225 MHz	146.825 MHz	Mt Barker 345K SE of Perth linked to 70cm	SEG
2m VK6RMW	146.300 MHz	146.900 MHz	Mt William 110K S of Perth	WARG
2m VK6RAW	146.400 MHz	147.000 MHz	Katanning 255K SE of Perth	WARG
2m VK6RMJ	147.750 MHz	147.150 MHz	Manjimup 240K S of Perth	MARG
2m VK6RMS	147.850 MHz	147.250 MHz	Mt.Saddleback 150K SE of Perth	WARG
2m VK6RBN	147.950 MHz	147.350 MHz	Busselton 200K S of Perth	WARG
70cm VK6RBY	433.650 MHz	438.650 MHz	Harvey 110K S of Perth	SWARG
70cm VK6RAA	434.950 MHz	439.950 MHz	Mt Barker 345K SE of Perth	EchoIRLP SEG

### North of Perth Repeaters

Call Sign	Input Freq	Output Freq	Location	Sponsor
2m VK6RTP	146.025 MHz	146.625 MHz	Tom Price 1,125K NNE of Perth	VK6DF
2m VK6RNR	146.075 MHz	146.675 MHz	Northampton 400K NNW of Perth	GARG
2m VK6RWR	146.100 MHz	146.700 MHz	Wickham 1,270K NNE of Perth	IRLP NWARS
2m VK6ROO	146.175 MHz	146.775 MHz	Geraldton 360K NNW of Perth	Midwest
2m VK6REX	146.250 MHz	146.850 MHz	Exmouth 1,150K NNW of Perth	NWARS
2m VK6RGN	146.400 MHz	147.000 MHz	Geraldton 360K NNW of Perth	GARG
2m VK6RCT	147.800 MHz	147.200 MHz	Catby 150K N of Perth	WARG

# WARG Recommends



# Ham College

<http://hamcollege.com.au>

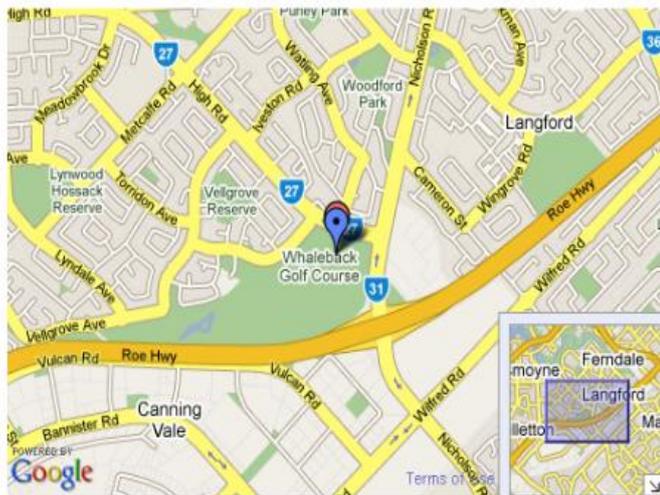
Ham College was formed in 2007 with the aim of furthering the hobbies of amateur radio and electronics in Western Australia through the provision of quality education services.

Ham College run courses and assessments for all grades of amateur radio licence. Other courses such as morse receiving & transmission are run as required. All instructors and assessors are required to hold a current Working with Children Card.

## Study Courses

The regular venue for Ham College courses is the Lynwood Scout Hall, situated within the grounds of the Whaleback Golf Course in Parkwood. Access is off Whaleback Avenue at the High Road end. Enter through the gate, over the creek on the bridge and follow the road around.

For further info. use the Google Map on our website.



It is important to note that all candidates for any exam must have registered with Ham College Course Co-ordinator at least seven days prior to the examination.

## Exam Dates

Exams are usually held every second month at the Lynwood Scout Hall.

All exams commence at 9.00am unless otherwise arranged. Unfortunately candidates arriving late cannot be admitted.

2013 Dates for exams are as follows: Saturday 27th April, Saturday 29th June, Saturday 7th September, Saturday 26th October.

For people outside the Perth metropolitan area arrangements can usually be made for assessments to be conducted elsewhere, subject to the availability of a suitable venue and assessor commitments.

## Foundation Licence Course.

Ham College regularly runs two day Foundation Licence courses over one weekend. The first day, Saturday runs from 9.00am to 5.00pm and then 9:30am to 5pm on the Sunday. The course covers both the theory and practical sections of the exam and even gets you 'on-air' as part of the training!

Course dates for 2013 are: 20/21<sup>st</sup> April, 22/23<sup>rd</sup> June, 31<sup>st</sup> Aug/1<sup>st</sup> Sept. and 19/20<sup>th</sup> October.

The course is popular and there is usually a waiting list for students, so please register your interest early using the form on the website. The cost for the course is \$30.00.

Foundation Licence manuals are available from Ham College for \$25.00 collected or \$30.00 posted.

## Standard Licence Course.

Ham College runs a standard course in the first half of the calendar year. This course is conducted one night per week (currently Tuesdays) from 7.00pm to 10.00pm for approximately 20 weeks from February to July.

Costs are \$50.00 for the Regulations course and \$120.00 for the Theory course. If combined the total cost is \$150.00. Manuals are included in these costs.

## Advanced Licence Course.

Ham College runs an Advanced Licence Course (designed to be an upgrade from a Standard Course) in the second half of the calendar year. This course is conducted one night per week (currently Tuesday) from 7.00pm to 10.00pm for approximately 20 weeks from July to December.

The course covers all the theory required for the Advanced Licence and the cost is \$120.00. Manuals are not included in the cost of the course.

# West Australian Repeater Group Inc.

## Nomination Form 2013 / 2014

### Committee Positions

- 1. President
- 2. Vice President
- 3. Secretary
- 4. Treasurer
- 5. Membership Officer
- 6. Technical Officer
- 7, 8, 9. Committee member  
(at least three positions)

### Other Positions

- 10. Packet/Digital Officer  
(usually also a Committee member)
- 11. Website Manager
- 12. Repeater Site Manager  
(specify preferred site/s)
- 13. WARG Shop Manager

Being a financial member of WARG I nominate for the following committee position:

Position.....

Name..... Callsign.....

Proposed by.....

Seconded by.....

Signed.....Date.....

Proposer and Seconder must be financial members of WARG

### Other information

I can bring the following skills/resources to WARG:

.....  
I am interested in the following areas/aspects:

.....  
**Specialist group area (small teams): focus on an area of need, carry out work, train others:**

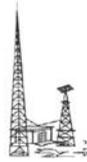
I am interested in being part of a specialist group (indicate area of interest):

.....  
I am interested in leading / organising a specialist group (indicate area of interest):

.....  
I can bring the following particular skills / resources to the group:

.....

# West Australian Repeater Group Inc.



Serving Amateur Radio in Western Australia since 1975

## Membership Application / Renewal Form 2013-2014

Completed forms to: Membership Officer, C/- PO Box 2513 Mt. Claremont WA 6010

I wish to become a Member  OR Please renew my Membership

I understand that the annual Newsletter is the notice for the AGM, and subscription renewal prior. Membership runs from 1<sup>st</sup> April to 31<sup>st</sup> March the following year. Members must be financial in order to vote, or hold office.

My Callsign is..... My email address is.....

My full name is..... My preferred name is:.....

My Address is .....

.....Postcode.....

Telephone number: Home ..... Mobile .....

Work no (Optional)..... My Occupation is..... Retired

I wish to join / remain on / not be on WARG's email group discussion list (strike out as applicable).

I am / am not a member of the WIA (strike one out as applicable) Date of Birth or Age .....  
(The above information is needed for insurance purposes.)

I enclose my annual subscription April 1<sup>st</sup> to March 31<sup>st</sup> of \$25.00 (inclusive of Insurance).  
I understand I may pay for more than one year's subscription.

Subscription for ..... year/s at \$25.00 per year \$.....

plus Donation amount (optional, if desired) of \$..... Total \$.....

Cheques/Money Orders made payable to WARG, crossed, with "Bearer" deleted please, to PO box as above.

Electronic Funds Transfer to: WA Repeater Group, Bendigo Bank, BSB 633 000, Account No.144144953.  
Reference is your CALL SIGN or FULL NAME. If using EFT send a copy of this form to the Membership Officer

**NOTE: IT IS YOUR RESPONSIBILITY to identify yourself with your CALL SIGN or NAME when paying by EFT.**

Signature..... Date.....

### For new members

Proposed by..... Seconded by.....

Signature.....Date..... Signature.....Date.....

OFFICIAL USE ONLY: Date Accepted for Membership: Receipt No.

### INFORMATION for APPLICANTS

If your application is accepted, your name and address as provided above, must be recorded in a register of members and be made available to other members upon request under section 27 of the Associations Incorporation Act. If the obligations under the Associations Incorporation Act are not complied with the Group can be wound up. You can contact the West Australian Repeater Group at PO Box 2513 Mt. Claremont WA 6010. You can access and correct personal information (your name and address) by contacting the Group as indicated above. If your application is accepted you are entitled to inspect and make a copy of the register of members under section 27 of the Associations Incorporation Act. If your application for membership is rejected by the Committee, you may give notice of your intention to appeal within 14 days of being advised of the rejection (rule 5(4)). The Group in a General Meeting, no later than the next Annual General Meeting, must confirm or set aside the decision of the Committee rejecting your application, after giving you a reasonable opportunity to be heard or to make written representations to the General Meeting (rule 5(5)).