



### \*\*\* QDG DIGIPEAT April 2015 \*\*\*

Digipeat is the Official Newsletter of the Queensland Digital Group  
Incorporating 'Amateur Eye', the Official Newsletter of the  
South East Queensland Amateur Television Group

## April General Meeting

The Next QDG general meeting will be held on Friday April 17 at the Chermside Library, meeting Room 1.

The doors will open at 7:00pm for a meeting start of 7:30pm; if you arrive late, please push the buzzer for entry.

The library is near the shops on the corner of Hamilton Rd and Kittyhawk Dr (enter from Kittyhawk Dr).

Location map:

<http://www.brisbane.qld.gov.au/facilities-recreation/libraries/opening-hours-locations/chermside-library/>

## Editorial

Meeting room bookings have been made at Chermside up to May as the building is to be demolished to make way for a bigger and better Library.

The Redcliffe & Districts Radio Club Inc has offered the use of their club rooms from our June meeting onwards; Both the QDG and SEQATV clubs will be meeting at the Redcliffe club rooms from June. The meeting days and times will remain the same for both clubs unless advised otherwise.

## Web site updates:

You can now connect to <http://www.qdg.org.au/> using an IPv6 address.

Alan VK4NA

## NEWS FROM THE SEQATV GROUP

### New web site

Please check out the new Web site for the latest information and contact details.

<http://seqatv.org/>

## Brisbane VHF Group

### New Web site

Please check out the new Web site for the latest information and contact details.

<http://brisbanevhfgroup.com/>

## Microwave Dish

Do you need a dish for microwave activity?

There is one (1) only, Mitec 600mm prime focus spun aluminium dish available for pick up from Stanthorpe; **free** to a QDG member if you promise to use it; if you are not a member please join, also free.

Alan Wills VK4NA

[qdg@qdg.org.au](mailto:qdg@qdg.org.au)



## IRoQ 2015

International Rally Of Queensland  
Brisbane Area WICEN Group Inc

Hi All,

It is time for me to start involving more people to ensure the 2015 International Rally of Queensland Communications Team is able to provide a professional level of communications support to this year's event.

As in previous years, Brisbane Area WICEN Group, with the support of Amateur Radio Operators primarily from the South East of Queensland, again has a role in providing a Safety Communications Network and a Scoring Network from field locations back to Rally HQ. The Rally will be conducted on Friday 19th, Saturday 20th and Sunday 21st June 2015. Set Up is planned for the Wednesday 17th and Thursday 18th June 2015. Both voice and data networks are used. If you do not have or use packet radio, do not despair; we can still use you on the voice network.

We are in need of quite a few radio operators and assistants to ensure these networks are able to be run efficiently and with a minimum of fuss. The opportunity to renew friendships and get to know the faces behind the voices of many on air contacts is always available during the rally.

If you can assist with communications during this event, and it may only be one day that you may be able to assist, or if you know of anyone who may be able to assist, and they don't necessarily have to be licensed amateurs, please pass a copy of this to them or contact me, Bob Guppy, VK4ZL, <mailto:bobvk4zl@gmail.com> This is also an ideal opportunity to check your portable equipment (both voice and data) in the field and to participate in the friendly atmosphere and camaraderie this event generates. If you have never participated before, here is an opportunity to try something new.

If you have assisted previously and enjoyed yourself, try and convince your friends and mates to come along as well.

My intention is to post regular updates with details as they come to hand from now to the time of the Rally. If anyone would like to assist with the admin and preparation of this event, please send me an email.

The first co-ordination meetings at the BSCC have occurred and the course is similar to that used in past years, so if you have a preferred location, let me know early so I can reserve that location for you. There will NOT be a Super Special Stage at the Nambour showgrounds this year, but there will be a Power Stage for selected categories in the Beerburrum Forestry. Further details as they come to hand.

For the latest details on the event, try the following sites:

<http://www.rallyqueensland.com.au/>

<http://www.rally.com.au/>

<http://bscc.asn.au/>

<http://www.rallysportmag.com.au/home/>

We are using the Imbil Island Reach Camping Resort as the Admin Base this year, Powered camping sites & cabins. There may be cabins available at the Deer Park and accommodation at the Kandanga Hotel, otherwise set up your camp with the majority of us at the Island Reach and at Cabins on the Creek in Imbil.

Accommodation contacts are below:

### Island Reach Camping Resort

5 Imbil Island Road

Imbil Q 4570

Tony mob. 0438 386 380

Imbil, Qld, 4570

### Borumba Deer Park

Col or Rosa

1133 Yabba Creek Rd

Imbil

Qld 4570

[info@borumbadeerpark.com](mailto:info@borumbadeerpark.com)

Phone: (07) 5484 5196

Fax: (07) 5488 6810

### Kandanga Hotel

40 Main St

Kandanga 4570

07 5484 3162

### Imbil Railway Hotel

110 Yabba Rd

Imbil 4570

07 5484 5202

As I receive updates for the Rally, I plan on sending Update Bulletins to all. If you have any specific queries or concerns, please email me promptly so they can be addressed and hopefully put in the next email so all are aware of others queries. (Confidentiality will be preserved).

**You can start your efforts now by Marking Your Calendars NOW!!! Put a BIG RED circle around the 19th, 20th and 21st June 2015.**

[Please email for the WICEN Registration form](#). This is required for Insurance purposes. When you email the completed form, ensure you change the file name to include your call sign so I don't receive a pile of registration emails with the same file attached.

WICEN operators need to register both via return email to Bob VK4ZL <mailto:bobvk4zl@gmail.com> and with Brisbane Sporting Car Club.

Rally Queensland Officials Registration is now active, go to <https://rallyqld.wufoo.com/forms/iroq-2015-officials-registration-form/>

Looking forward to seeing you at Imbil,  
Bob Guppy VK4ZL  
<mailto:bobvk4zl@gmail.com>

**Rally Co-Ordinator**  
**Brisbane Area WICEN Group Inc.**  
**22 March 2015**

## Mandatory data retention is now law technology Decisions

Mandatory metadata retention is now official, following passage of the law through parliament.

<http://technologydecisions.com.au/content/it-management/article/mandatory-data-retention-is-now-law->

[887897854?utm\\_medium=email&utm\\_campaign=td\\_1503\\_5a&utm\\_content=td\\_1503\\_5a+CID\\_2de63eea990800b59da77855a25b9d8b&utm\\_source=Campaign%20Monitor&utm\\_term=more](http://technologydecisions.com.au/content/it-management/article/mandatory-data-retention-is-now-law-887897854?utm_medium=email&utm_campaign=td_1503_5a&utm_content=td_1503_5a+CID_2de63eea990800b59da77855a25b9d8b&utm_source=Campaign%20Monitor&utm_term=more)



## Radio and Electronics School

This site is provided as a gateway to the wonderful world of radio communication for the amateur, and is proud to be affiliated with the Wireless Institute of Australia.

<http://www.res.net.au/>

## ZL4PLM - Amateur Radio

Specialising in the world above 50 MHz

<http://www.zl4plm.com/>

## Beginners' Guide to Fldigi

Fldigi is a computer program intended for Amateur Radio Digital Modes operation using a PC (Personal Computer). Fldigi operates (as does most similar software) in conjunction with a conventional HF SSB radio transceiver, and uses the PC sound card as the main means of input from the radio, and output to the radio. These are audio-frequency signals. The software also controls the radio by means of another connection, typically a serial port.

Fldigi is multi-mode, which means that it is able to operate many popular digital modes without switching programs, so you only have one program to learn. Fldigi includes all the popular modes, such as DominoEX, MFSK16, PSK31, and RTTY.

<http://www.w1hkj.com/beginners.html>

### Software By W1HKJ & Associates

News & Updates

<http://www.w1hkj.com/>

### Download page

<http://www.w1hkj.com/download.html>



## Station and Operating Hints

Operating on satellites is relatively straightforward, but over the years many tips, tricks, and secrets have been discovered which make operating more efficient and pleasant. Here we are collecting information of use to both the new and experienced operator.

[http://www.amsat.org/?page\\_id=2144](http://www.amsat.org/?page_id=2144)

## A Parasitic Lindenblad Antenna for 70cm

This paper introduces a novel and considerably simpler way to construct a Lindenblad style antenna. It uses a single dipole, driven-element along with a passive, parasitic, circular-polarizer. The single driven element is designed to provide a 50-ohm load and the circular polarizer is very easy to build. While technically not a "Lindenblad," the antenna radiation pattern is nearly identical.

<http://ww2.amsat.org/wordpress/wp-content/uploads/2014/01/70ParaLindy.pdf>

## Download NASA Sounds

Here's a collection of NASA sounds from historic spaceflights and current missions. You can hear the roar of a space shuttle launch or Neil Armstrong's "One small step for (a) man, one giant leap for mankind" every time you get a phone call. Or, you can hear the memorable words "Houston, we've had a problem," every time you make an error on your computer. We have included both MP3 and M4R (iPhone) sound files to download.



<http://www.nasa.gov/connect/sounds/#.VOujLC5d1mb>

## VK4ZXI

DATV blog

Digital ATV

Cavity filters

<http://vk4zxi.blogspot.com.au/search/label/DVB-T>

## KB6NU's Han Radio Blog

Worth a look for the content and what you can do with WordPress 4.1.1 to build a site.

<http://www.kb6nu.com/>



Satellite

Amateur Satellite Antennas

<http://www.dxzone.com/catalog/Antennas/Satellite/>



ON7EQ / OT3T amateur radio station, operated by Jean-Jacques DE REY.

APRS, Satellite and Projects

<http://www.qsl.net/on7eq/en/>

## LIGHTNING PROTECTION

New Myths & Old Realities As They Apply To Your Home And Your Station

Bob McGraw - K4TAX

<http://www.amwindow.org/tech/htm/lightning.htm>

## WSPRnet

The Weak Signal Propagation Reporter Network is a group of amateur radio operators using K1JT's MEPT\_JT digital mode to probe radio frequency propagation conditions using very low power (QRP/QRPP) transmissions. The software is open source, and the data collected are available to the public through this site.

<http://wspnet.org/>



Ham Radio Deluxe is the all-in-one solution for your Radio Control, Logging, Digital Modes, Satellite, and Rotor Control in one easy package.

<http://www.ham-radio-deluxe.com/>

## HTML5 Introduction

Learn about the new HTML version

[http://www.w3schools.com/html/html5\\_intro.asp](http://www.w3schools.com/html/html5_intro.asp)

## WB8RCR

Reference Information, Homebrew Information, Parts Sources, QRP Clubs, QRP Equipment Manufacturers, QSLmaker

<http://www.qsl.net/wb8rcr/hamradio.html>

## IW5EDI Simone – Ham-Radio

Software, Technical articles and Antenna information

<http://www.iw5edi.com/>

## LED BENCHMARK

### LED Radio Interference Issues

Some LED lighting products have been reported to emit noise, interfering with FM radio and DAB signals. While the Light Emitting Diodes themselves do not generate any detectable noise, the switching power circuitry driving the LEDs operate at high frequencies, which, when not properly filtered can result in electromagnetic interference.

<http://www.ledbenchmark.com/faq/LED-interference-issues.html>

## ON4WW

A hundred years will hardly suffice to achieve my every goal on this Ham Journey

The title of this page says it all. Ham Radio is a passtime which offers so much diversity and possibilities to explore the technical world of communications.

Many of us take a fierce start-off in this hobby, and tend to forget there is a life besides Ham Radio. I know, I've been there. There is just so much one can do, in that a 24 hour day is insufficient to do it all.

<http://www.on4ww.be/on4wwactivities.html>



## NU8Z.net

DX'ing from a Small City Lot

<http://nu8z.net/>



## Radio Mobile

Radio Mobile is a Free Radio Propagation simulation program which operates over the frequency range of 20MHz to 20GHz. It is based on the ITS (Longley-Rice) propagation model.

The program enables elevation maps to be drawn of specified areas using downloaded SRTM data from the Space Shuttle Radar Terrain Mapping Mission, elevation contours and road maps to be added, and Radio Units (stations) specified for performance and placed where required.

[http://www.g3tvu.co.uk/Radio\\_Mobile.htm](http://www.g3tvu.co.uk/Radio_Mobile.htm)

## Terrain database for Radio Mobile

<http://www.ve2dbe.com/dataen.html>

## Interference from Lighting Systems



### Light Emitting Diode (LED)

LED lighting is set to revolutionise the way we light our homes, businesses, vehicles, trains, boats, aircraft, and more. The humble External link LED uses a fraction of the energy of incandescent lamps and offers thousands of hours of lifetime. Sadly, the control and power electronics are proving to be less than reliable, and when poorly designed, can generate a considerable amount of radio interference.

<http://www.ukqrm.org.uk/lighting.php>

## MARTIN - G8JNJ

ECLECTIC AETHER - Adventures with Amateur Radio  
Antenna projects, receivers, ATV, Audio and more.

<http://www.g8jnj.net/currentprojects.htm>



## RFI TIPS AND TRICKS!

<http://www.hamuniverse.com/rfi.html>

Encrypts and protects your browser  
Hides your real location and activity  
Access any website from anywhere  
For free and just a few clicks away!

<https://zenmate.com/>





## Safe and Secure VPN

Hide My IP  
Browse Anonymously  
Public Wifi Security  
Identity Protection  
Internet Security  
Uncensored Access  
Prevent Data Theft  
Hide My Location  
Unblock Websites

<https://www.privateinternetaccess.com/>



## F-Secure DNSCheck (BETA)

Wondering about the health of your system's DNS?  
[https://www.f-secure.com/en/web/labs\\_global/dns-check](https://www.f-secure.com/en/web/labs_global/dns-check)

F-Secure DNSCheck is an easy-to-use online tool that will examine your device's connection to its DNS resolver using patent-pending technology by comparing the details of your IP address against those of the DNS resolver. A mismatch between the two indicates DNS configuration issues, which may include DNS hijacking. To test your system's DNS, go to: [www.ismydnshijacked.com](http://www.ismydnshijacked.com)

## vMix - Live Production Software

Streaming and Mixing on your PC

vMix is a Software Video Mixer and Switcher that utilises the latest advances in computer hardware to provide live HD video mixing, a task previously only possible on expensive dedicated hardware mixers.

vMix is a complete live video production software solution with features including LIVE mixing, switching and streaming of SD and HD (up to 1080p) video sources including cameras, video files, DVDs, images and much much more.

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



## ACMA Radcom Database

Register of Radiocommunications Licences

[http://web.acma.gov.au/pls/radcom/register\\_search.main\\_page](http://web.acma.gov.au/pls/radcom/register_search.main_page)

## 2m SSB

### Sunshine Coast 2m SSB net

19:30 Sundays on 144.3 MHz

Don't just use your equipment on field days; come up on air every Sunday.

## SEQATV Club Net

Wednesday nights

8:00 PM EST on VK4RRC 146.925MHz repeater

## 2015 dates

April 11 VK4 REDFest (Redcliffe Radio Club Event)

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

May 9 VK4 BARCFEST Brisbane

<http://www.qsl.net/vk4ba/barcfest/>

July 18 VK4 Caboolture Hamfest

<http://www.vk4qd.net/>

July 11-12 VK3 GippsTech 2015

<http://www.emdrc.com.au/>

August 9 VK2 SARC-FEST Lismore

<http://sarc.org.au/>

Sept 12 VK4 SUNFEST Woombye

<http://vk4wis.org/>

Oct 24 VK4 Gold Coast Hamfest Broadbeach

<http://www.gcars.com.au/>

## Contests 2015

### Remembrance Day Contest

August 15<sup>th</sup> & 16<sup>th</sup>

<http://www.wia.org.au/members/contests/rdcontest/>

## QDG information

### QDG meeting dates 2015

January 16 (Combined SEQATV Group QDG meeting, meeting Room 1)

February 20

March 20

April 17

May 15

New Venue - Redcliffe club rooms

June 19

July 17

August 21

September 18

October 16

November 20

December 18

Unless otherwise noted, QDG group general meetings are held on the third Friday on the month at the Cherside Library, Meeting Room 1.

The doors will open at 7:00pm for a 7:30pm start; if you arrive late, please push the buzzer for entry. The library is near the shops on the corner of Hamilton Rd and Kittyhawk Dr (enter from Kittyhawk Dr).

Location map:

<http://www.brisbane.qld.gov.au/facilities-recreation/libraries/opening-hours-locations/cherside-library/>

### **New meeting venue from June 2015; Redcliffe club rooms.**

The club is located at MacFarlane Park in Klingner Rd, Kippa Ring.(UBD Map 91 Ref G 1)

<https://plus.google.com/106119512431582251982/about?gl=au&hl=en>

## QDG Membership

QDG Membership is presently free.

As of July 2014 the QDG has 64 members.

Information and a list of members are up on the web site <http://www.qdg.org.au/qdgmemb.htm>

Membership forms are on the web site.

## QDG Membership services

Members receive additional 'Digipeat Extra' emails and invitations to other club activities not included in the Digipeat newsletter.

## Sound Card to Radio Interface

This computer to radio interface can be used for any audio mode including voice.

The SCI provides isolation to remove earth loops as well as providing switching and level adjustment.

Contact Richard VK4ZA on 07 3376 5231, email [richatkn@tpg.com.au](mailto:richatkn@tpg.com.au) or via the QDG web site.

Please contact Richard if you are interested in a dual interface PC board or a mark 2 version with modified connections.

## QDG club contacts

Club contact: Alan Wills VK4NA  
Digipeat Editor: Alan Wills VK4NA  
Web site: Alan Wills VK4NA  
Web site hosting: Tim O'Donohoe  
Supper: Alan Wills VK4NA  
JOTA: Richard VK4ZA  
Phone: Alan Wills VK4NA 61 07 3491 8032  
Twitter @VK4NA

Email: [qdg@qdg.org.au](mailto:qdg@qdg.org.au)

Web site: <http://www.qdg.org.au>

Digipeat <http://www.qdg.org.au/qdgdigi.htm>

QDG  
37 Evergreen Parade  
Griffin QLD 4503  
Australia

## South East Queensland ATV group Information

### SEQATV meeting dates 2015

Please check the SEQATV [Web site](#)

Unless otherwise noted, SEQATV group general meetings are held on the first Tuesday on the month at the Chermside Library, Meeting Room 1.

The doors will open at 7:00pm for a 7:30pm start; if you arrive late, please push the buzzer for entry. The library is near the shops on the corner of Hamilton Rd and Kittyhawk Dr (enter from Kittyhawk Dr).

Location map:

<http://www.brisbane.qld.gov.au/facilities-recreation/libraries/opening-hours-locations/chermside-library/>

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<https://plus.google.com/106119512431582251982/about?gl=au&hl=en>

### SEQATV group Membership

SEQATV group Membership is set at the AGM, please contact the secretary for the current fee. The membership fee remains at \$20.00 for 2014

## SEQATV group Membership services

Members receive additional 'Amateur Eye Extra' emails and invitations to other club activities not included in the Digipeat or Amateur Eye newsletters.

## SEQATV Club Net

Wednesday nights

8:00 PM EST on VK4RRC 146.925MHz repeater

## The SEQATV group Officers

### **Elected officers:-**

President: Arnold Youngberg VK4SU

Secretary: Peter Schrader VK4EA

Treasurer: Andy Beales VK4KCS

### **Coopted Officers:-**

Callback Officer: Peter Jones VK4YAC

Vice President: Alan Wills VK4NA

Additional coopted officers will be added as required.

## SEQATV group Contact Information

South East Queensland Amateur Television Group

PO Box 3, Chermside Qld 4032, Australia

Amateur Eye (club mag) Phone: Alan Wills VK4NA 61 07 3491 8032

Email: [secretary@seqatv.org](mailto:secretary@seqatv.org)

Web site: <http://www.seqatv.org/>

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Enjoy your hobby!

73 Alan VK4YAR / VK4NA

\*\*\* Queensland Digital Group \*\*\*

\*\*\* SEQATV group \*\*\*

\*\* Supporting Radio Communications in VK4 \*\*