



## \*\*\* QDG DIGIPEAT May 2014 \*\*\*

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

### May General Meeting

The May QDG general meeting will be held on Friday May 16 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/>

A composite graphic for the South East Queensland ATV Group Inc. The top part features the group name in a stylized font. Below it is a yellow waveform labeled '23cm FM ATV'. To the right is a color calibration chart with a grid and a circular graphic containing the call signs 'VK4RMG', 'VK4RTW', and 'VK4RGO'. Below the color chart is the text 'Digital ATV Repeater' and 'As part of the ATV Digital Network'. At the bottom right is the address 'PO Box 3, Chermside 4032'. On the left side, there is a green waveform labeled '23cm DATV' and a spectrum analyzer display labeled '446.5Mhz DVB-T'.

## NEWS FROM THE SEQATV GROUP

### New web site Live

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

<http://seqatv.org/>

## Amateur Radio Station Grounding and Lightning Protection

Well worth a read

<http://www.bwcelectronics.com/articles/WP30A190.pdf>



## Amateur Radio - Hardware / Software / Resources

<http://www.rfcafe.com/references/amateur-radio.htm>

## DXHeat.com

Responsive Web DX-Cluster & DX Analytics tools, built for serious DXers

<https://dxheat.com/>

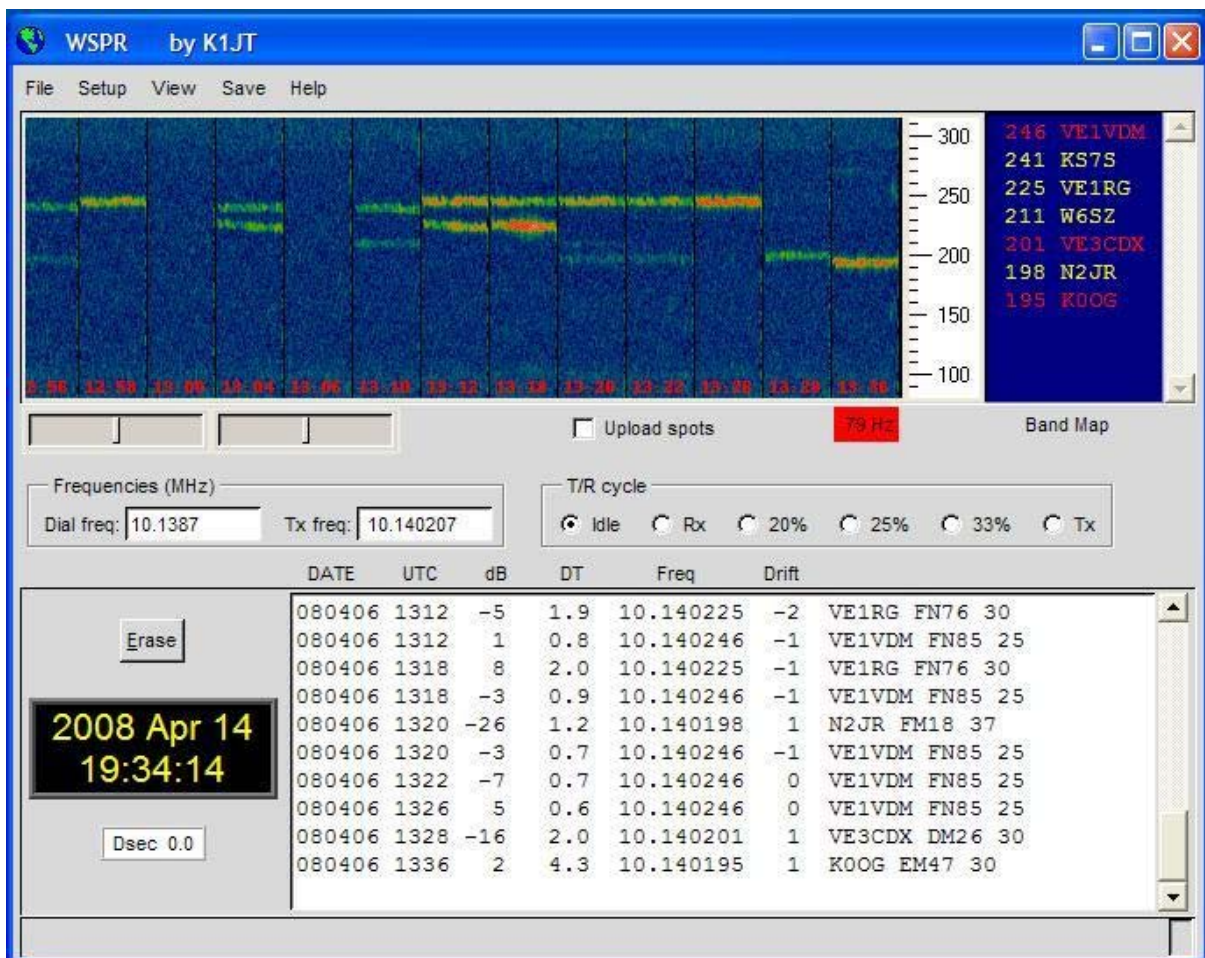
## 10 Online Calculators To Help Electronics Engineers

[http://electronicsforu.com/electronicsforu/circuitarchives/view\\_article.asp?sno=1747&title%20=%2010+Online+Calculators+To+Help+Electronics+Engineers&b\\_type=new&id=12894&group\\_type=cool\\_stuff](http://electronicsforu.com/electronicsforu/circuitarchives/view_article.asp?sno=1747&title%20=%2010+Online+Calculators+To+Help+Electronics+Engineers&b_type=new&id=12894&group_type=cool_stuff)

## History of the Radio

In modern society, radios are common technology in the car and in the home. In fact, in today's world one would be hard pressed to find anyone who has not heard of, seen, or used a radio within his or her life. This was not always the case, however.

<http://www.techwholesale.com/history-of-the-radio.html>



## WSPR

WSPR implements a protocol designed for probing potential propagation paths with low-power transmissions. Normal transmissions carry a station's callsign, Maidenhead grid locator, and transmitter power in dBm. The program can decode signals with S/N as low as -28 dB in a 2500 Hz bandwidth. Stations with internet access can automatically upload their reception reports to a central database called WSPRnet, which includes a mapping facility.

<http://www.physics.princeton.edu/pulsar/K1JT/wspr.html>

## MIMO Techniques Compensate for Drawbacks of E-Band

MIMO communication, the use of multiple antennas transmitting or receiving on the same frequency, is one of the most surprising technologies in my lifetime. I first encountered it in MATLAB simulations for my master's degree program at USF. The amazing part came five years ago when I experimented with my first inexpensive 802.11(n) and got it, at least under ideal conditions, to transmit and receive separate streams on the same frequency at the same time.

<http://www.element14.com/community/groups/wireless/blog/2014/04/07/mimo-techniques-compensate-for-drawbacks-of-e-band?CMP=SOM-CGERVASI-MMO>

## Tranquil Marine Services

Tranquil Marine Services, are based on the Gold Coast. We service from Tweed Heads to the Gold Coast and Brisbane CBD and Southern Suburbs.

At Tranquil Marine Services we are dedicated to providing a range of high quality cost effective services to help you maintain your fish tank, Marine, tropical, we can even look after your indoor or outdoor pond.

Achieving a living eco-system in your living room or office can some times be difficult and daunting, it requires hours of maintenance and care. Tranquil Marine Services can take the hard work out of it for you.

Leaving you to enjoy the underwater world in your home or office.

When contracting Tranquil Marine Services as your aquarium maintenance provider you can rest assured you will always receive the very best in aquarium maintenance available. We understand the demands of the busy home or work place and will make our visit as unobtrusive as possible. We will give you the best service available, at the best price.

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



## Virtual Ham Radio

Easy to use Ham Radio software transceiver.

Talk to Amateur Radio operators all over the world. No extra hardware needed.

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

## Privacy for anyone anywhere

Tails is a live operating system, that you can start on almost any computer from a DVD, USB stick, or SD card. It aims at preserving your privacy and anonymity, and helps you to:

- use the Internet anonymously and circumvent censorship;
- all connections to the Internet are forced to go through the Tor network;
- leave no trace on the computer you are using unless you ask it explicitly;
- use state-of-the-art cryptographic tools to encrypt your files, emails and instant messaging.

<https://tails.boum.org/>

## Shortwave.am

this site has a unique layout that lists broadcast schedules along with a map that displays broadcast footprints (both short and long path).

<http://shortwave.am/>

## Shortwave Radio Schedules

This app provides schedules and frequencies for shortwave radio broadcasts throughout the world. Information is also included on some utility stations, Firedrake jammer etc.

Information is taking from the Eibi schedule (<http://www.eibispace.de/>) and AOKI Schedule.

<https://play.google.com/store/apps/details?id=com.msi.shortwave>

On facebook

<https://www.facebook.com/DashCamOwnersAustralia>

# American Radio Supply

Lightning Protection

A good range of lightning protection products

<http://www.americanradiosupply.com/lightning-protection/>

## Dash Cam Owners Australia

Dash cam related News

General Discussion

General Chat area for Truckies / Professional Drivers

What to get, where to get it, How to install.

Posted videos

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



*Australian Black Box Recorders*

You can now protect your self with a Digital Dash Camera.

Resolving any disputes in car accidents.

Australian Black Box Recorders aim is to improve attitudes on the road.

<https://www.facebook.com/AustralianBlackBoxRecorders>

## Australia Proxy Server

The Australian web Proxy Server to unblock websites and surf anonymous

Australia Proxy Server is a free anonymous web proxy service. With Australia Proxy Server you can browse your favorite web sites anonymously and even from behind a firewall with blocked ports.

Whether you are at work, school, a college university, a public terminal or anywhere else with a web browser.

<http://www.australia-proxy.com/>

## Unlimit Access 4 U WebProxy

Bypass any sites filter with Free Proxy Server

The service allows indirect browsing of external, third-party websites.

<http://unlimitaccess4u.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 144.4 MHz

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

## SEQATV Club Net

Wednesday nights

7:30 PM EST on VK4RAX 147.075 MHz repeater

## 2014 Radio sales

Saturday 10th May 2014 BARC-FEST Brisbane

Saturday 17th May 2014 WIA AGM Sunshine Coast Qld

Sunday 8th June 2014 (Queens Birthday Weekend) Oxley Region ARG Port Macquarie NSW

Saturday 19th July 2014 Caboolture Ham-fest Qld

Sunday 10th August 2014 SARC-FEST Lismore NSW

Saturday 13th September 2014 SUNFEST Woombye Qld

Saturday 4th October 2014 RED-FEST Qld

Saturday 25th October 2014 Gold Coast Ham-fest - Broadbeach Qld

( from VK4ICE Web site <http://www.vk4ice.com/> )

## 2014 dates

### 2014 WIA AGM and Conference

We are pleased to announce details for the WIA 2014 Annual Conference being held on the Sunshine Coast. The host club is the Sunshine Coast Amateur Radio Club, led by Richard VK4RY and Trent VK4TS

Members who register for the event will be able to participate in a range of fascinating and memorable activities.

The Sunshine Coast where you will experience a laid-back lifestyle centred around pristine beaches, freshwater rivers and lakes, subtropical forests and warm sunshine.

From the naturally stylish Noosa, to the family fun of Coolum, Maroochydore, Mooloolaba and Caloundra, to the cool and creative hinterland villages of Maleny, Montville and Mapleton. Any destination you choose for your Sunshine Coast holiday will fill your body, mind and soul with an enduring sense of warmth.

The weekend program will commence on Friday evening at the Alexandra Heads Surf Life Saving Club and there will be several breakout options for like minded amateurs to get together.. On Saturday morning the WIA Annual General Meeting followed by the Open Forum will be held in the Shed at Aussie World with lunch provided for all registered attendees. On Saturday afternoon a technical symposium is being planned. On Saturday evening the Annual Dinner will be held in the Shed at Aussie World. Sunday will feature a visit to the Sunshine Coast base of the RACQ Rescue Helicopter and various rescue venues on the Mooloolaba spit culminating in a visit to Underwater World.. For those not travelling back to their home QTH on Sunday afternoon and who will be staying on Sunday evening, then the host club the Sunshine Coast Amateur Radio Club would like to invite you to a relaxing evening BBQ at SCARC HQ. The cost for the Sunday evening BBQ will be \$10 per person, alcoholic drinks will be BYO soft drinks will be available.

As part of the weekend program, the WIA is pleased to offer bus transport to and from the weekend venues for a one off \$25 flat fee. The WIA chartered bus will operate on both Saturday and Sunday, the bus will have designated pickup points being Maroola, Bli Bli, Maroochydore, Mooloolaba and Caloundra. The bus will collect registered weekend attendees from each of these pickup points, please note it will be your responsibility to ensure you are on time at your pickup point. On Saturday the bus will take you to Aussie World for the day's events arriving at Aussie World at 8:00am and returning you to your pickup point around 10:30 pm after the conclusion of the WIA Annual dinner. On Sunday morning the same bus will collect you up from your designated pickup point then take you to Mooloolaba Spit (for the tour of VCP Marine Pilots), then on to the Airport (for the Careflight visit) then to Underwater World, then to the Sunshine Coast Amateur Radio Clubrooms (for the evening BBQ) returning you to your pickup point around 10:00pm. Please note that if you are planning to arrive at the Sunshine Coast by air, you will need to make your own arrangements for Taxi transport from the airport to your accommodation as the WIA chartered bus does not include transport to and from the airport for weekend participants.

<http://www.wia.org.au/joinwia/wia/2014agm/>

## Contests 2014

Tentative dates. All are subject to confirmation.

Winter VHF-UHF Field Day 2014 - 21/22 June

Spring VHF-UHF Field Day 2014 - 22/23 November

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

## QDG information

### QDG meeting dates 2014

January	17
February	21
March	21
April	18
May	16
June	20
July	18
August	15
September	19
October	17
November	21

Unless otherwise noted, QDG group general meetings are held on the third Friday 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/>

### QDG Membership

QDG Membership is presently free.

As of April 2014 the QDG has 62 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 after hours on 61 07 3351 1673  
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>

## South East Queensland ATV group Information

### SEQATV meeting dates 2014

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/>

### 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 2013

### 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  
7:30 PM EST on VK4RAX 147.075 MHz 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 after hours on 61 07 3351 1673

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 \*\*