



*** QDG DIGIPEAT February 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

February General Meeting

The January QDG general meeting will be held on Friday February 21 at the Chermiside 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/chermiside-library/>

South East Queensland ATV Group Inc.

23cm FM ATV

23cm DATV

446.5Mhz DVB-T

VK4RMG
Incorporating
Digital ATV Repeater
VK4RMG

VK4RTW
VK4RGO

As part of the ATV Digital Network

PO Box 3,
Chermiside 4032

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/>

The SWLing Post

The Best Amateur Radio and Shortwave Apps for iOS and Android smart phones

<http://swling.com/blog/2014/01/the-best-amateur-radio-and-shortwave-apps-for-ios-and-android-smart-phones/>

CQ-DATV magazines

CQ-DATV is a free monthly ATV magazine and is available for download in PDF and all the eBook formats.

<http://www.cq-datv.mobi/ebooks.php>

Effects of Cable Loss in VSWR and Return Loss Measurements

A MUST read for everyone new to Radio Frequencies or those wishing to brush up.

<http://www.bird-technologies.com/~media/Bird/Files/PDF/Resources/app-notes/Effects-of-Cable-Loss-in-VSWR-Return-Loss-Measurement.ashx>



Reference Data

A loose collection of stuff of interest that has been collected and contributed.

This information is provided in the spirit of greater knowledge and intelligent debate for the betterment of professional Audio, Video and Trade Craft.

<http://www.avw.co.nz/reference.html>

How it should be done

Installation Instructions for Andrew SureGround Grounding Kits

http://www.commscope.com/catalog/doc/pdf/7383/SureGround%E2%84%A2_Grounding_Kits_for_Coaxial_Cables.pdf

Andrew Communications Technology Training Workbook

HELIAX Cable Connectors and Accessories

[http://www.ham-](http://www.ham-radio.com/wa6vhs/Antenna%27s/Connector%20assembly/Andrew%20Connector.pdf)

[radio.com/wa6vhs/Antenna%27s/Connector%20assembly/Andrew%20Connector.pdf](http://www.ham-radio.com/wa6vhs/Antenna%27s/Connector%20assembly/Andrew%20Connector.pdf)

Building a Frequency Synthesiser

This post is about building a frequency synthesiser for various uses such as for a home lab or as a module for a larger project.

The implementation can be useful from a few tens of kHz up to 160MHz; not anywhere near the capabilities of a commercial signal generator, but still very usable. It primarily generates sine waves and square waves but can also handle some forms of modulation and controlled sweeps. This should cover many use-cases, particularly radio related. So far, single tone, adjustable amplitude and frequency modulation (FM) has been implemented in the code.

<http://www.element14.com/community/groups/test-and-measurement/blog/2013/12/28/building-a-frequency-synthesiser?CMP=SOM-BEAGLEBONE-SHABAZ-FREQUENCY>



A lot of information for anyone interested in electronics and radio

<http://www.radio-electronics.com/>

Microsoft breathes a tiny bit of life back into XP - but still says, "Time to move on!"

<http://nakedsecurity.sophos.com/2014/01/17/microsoft-breathes-a-tiny-bit-of-life-back-into-xp-but-still-says-time-to-move-on/>

NSA sweeps up hundreds of millions of text messages daily

<http://nakedsecurity.sophos.com/2014/01/17/nsa-sweeps-up-hundreds-of-millions-of-text-messages-daily/>

How Can I Stay Anonymous with Tor?

<http://lifel hacker.com/how-can-i-stay-anonymous-with-tor-1498876762/@tessa>

The Most (and Least) Reliable Hard Drive Brands

<http://lifel hacker.com/the-most-and-least-reliable-hard-drive-brands-1505797966>

Third party programs and toolbars; what you need to know

http://www.majorgeeks.com/news/story/third_party_programs_and_toolbars_what_you_need_to_know.html



MajorGeeks tops list of safe software download sites

http://www.majorgeeks.com/news/story/majorgeeks_tops_list_of_safe_software_download_sites.html

The best drive cleaners and registry cleaners

http://www.majorgeeks.com/news/story/the_best_drive_cleaners_and_registry_cleaners.html

element14 COMMUNITY

Get Started With Pi

<http://www.element14.com/community/community/raspberry-pi/getstartedwithpi?CMP=KNC-FACEBOOK-RPI-GETSTARTED>

nakedsecurity

Leaks in logfiles, malware on Macs and Korean credit compromise - 60 Sec Security [VIDEO]

<http://nakedsecurity.sophos.com/2014/01/25/leaks-in-logfiles-malware-on-macs-and-korean-credit-compromise-60-sec-security-video/>

Critical Distance Weblog

Shortwave Radio - What went wrong?

<http://criticaldistance.blogspot.com.au/2014/01/shortwave-radio-what-went-wrong.html>

New solar cell technology captures high-energy photons more efficiently

<http://phys.org/news/2014-01-solar-cell-technology-captures-high-energy.html>

Raspberry Pi for Amateur Radio VOIP (Echolink) Part 1,2 and 3

This is an amateur radio transceiver wired into a Raspberry Pi and loaded with Echolink software (SVXLINK). One can use this with a 12V battery and connect to the echolink network.

<http://www.instructables.com/id/Raspberry-Pi-for-Amateur-Radio-VOIP-Echolink/>

A Beginner's Guide to Encryption: What It Is and How to Set it Up

You've probably heard the word "encryption" a million times before, but if you still aren't exactly sure what it is, we've got you covered. Here's a basic introduction to encryption, when you should use it, and how to set it up.

http://lifehacker.com/a-beginners-guide-to-encryption-what-it-is-and-how-to-1508196946?utm_campaign=socialflow_lifehacker_facebook&utm_source=lifehacker_facebook&utm_medium=socialflow

Pocket HAM bands Transceiver

This is an Android only application used to remotely control several HAM radio sources

<https://play.google.com/store/apps/details?id=ro.yo3ggx.rxtx>

Who Is On My Wi-Fi Shows You Who Else Is Using Your Network

Who Is On My Wi-Fi is a free Windows utility that can show you exactly what the name implies.

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



Explore radio collecting with its seemingly endless variety of vintage sets. You'll also find vintage television

sets as well as links to old time radio programs inside these pages.

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

ACMA Radcom Database

Register of Radiocommunications Licences

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

Sunday 23rd February 2014 WYONG Field Day NSW

Saturday 3:00pm 29th March 2014 Noel's Nutty Campers - Kirkleigh (Somerset Dam)

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

Microwave Test/Tune Day 2014

Feb 23 - commencing 9.00 am

The Redcliffe and Districts Radio Club is pleased to host a Microwave test/tune day. And by microwave that's anything above 1GHz.

Please put an entry in your diary for a 9am start, 23rd of February, at the Redcliffe & Districts Radio Club premise, location details are [here](#).

Available on the day is spectrum analysis up to 26GHz, weak signal source up to 18 GHz, return loss measurement up to 26GHz, noise meter to 2GHz, sweepers up to 18GHz and much more.

This is your opportunity to test your 1GHz up projects using the right equipment and most importantly, the people will be there to drive them properly and help you. We are combining the day with a 1.2GHz shootout in the adjacent park after lunch.

Even if you don't have any gear, are slightly interested it's worth a look to see some homebrew creations up close.

The BBQ will be fired up for the traditional "slugs in rugs", please drop in for a look and a chat.

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

Wyong Field Day

February 23 2014

<http://www.ccarc.org.au/wp/ccarc-field-day/>

PR4AmateurRadio Expo

April 11-13, 2014

The WIA is strongly behind this Expo which harnesses its many affiliates as they showcase the benefits of modern amateur radio and engage the community.

<http://www.wia.org.au/members/promoting/pr4ar/>

Barcfest

May 10 2014

Location has changed.

For several years it has been at the Mt Gravatt showgrounds.

Barcfest will now be held at the Salvation Army church hall located at corner of Beaudesert Road and Kamereka Street Calamvale. Starting time 9.30am.

2014 WIA AGM and Conference

May 17 & 18, 2014

Hosted by the Sunshine Coast ARC <http://www.vk4wis.org/>

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

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.

There will be a range of technical presentations on the Saturday afternoon. For partners, an alternate tour will be run on Saturday.

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, the Sunshine Coast Amateur Radio Club would like to invite you to a relaxing evening BBQ at SCARC HQ. This cost for the Sunday evening BBQ will \$10 per person, drinks will be BYO.

For travel details and accommodation options, browse the Sunshine Coast information site <http://www.visitsunshinecoast.com.au/>

There is no accommodation available in the immediate vicinity of the main venue, so you are free to make arrangements as you see fit.

We anticipate having more details available soon, so watch for updates and for the online registration form here on the WIA website and in future issues of Amateur Radio.

<http://www.wia.org.au/newsevents/news/2014/20140127-1/index.php>

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 January 2014 the QDG has 61 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 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

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: Richard Cardon VK4XRL

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

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

Enjoy your hobby!

73 Alan VK4YAR / VK4NA

*** Queensland Digital Group ***

*** SEQATV group ***

** Supporting Radio Communications in VK4 **