



*** QDG DIGIPEAT November 2016 ***

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

November QDG Meeting

The Next QDG general meeting will be held on Friday November 18 at the Redcliffe club rooms.
Doors will open at 7:00pm for a meeting start of 7:30pm.

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

<https://www.google.com.au/maps/place/MacFarlane+Park,+Kippa+Ring+QLD+4021/@-27.2214151,153.0882619,17z/data=!4m2!3m1!1s0x6b93e5f47d867511:0xe926a70030364326>

Redcliffe club VK4RRC D-Star Repeater is online!

The new D-Star 70cm repeater (donated to the Club by ICOM Australia) has been installed at the Wamuran repeater site.

Output is 438.675 MHz, input is 431.675MHz (note the -7MHz offset). The gateway is connected to D-Star reflector REF030C, which has quite a bit of traffic from Europe and North America.

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

William Hepburn's
Worldwide
Tropospheric Ducting Forecast
6 DAY FORECAST OF VHF, UHF & MICROWAVE RADIO & TV SIGNAL STRENGTH & INTERFERENCE

The areas noted in the forecast have the necessary atmospheric conditions to produce tropospheric bending of VHF, UHF and/or microwave radio waves. Tropospheric bending extends the range of radio & TV stations well beyond their normal limit and thus increases interference amongst stations as well.

http://www.dxinfocentre.com/tropo_au.html

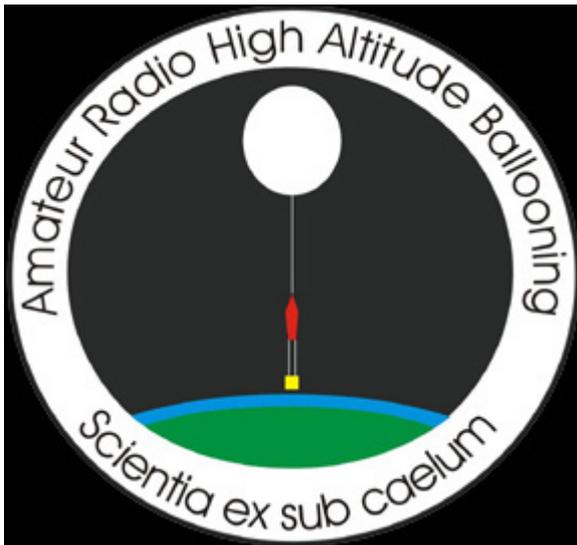
Young Transmitters New Zealand

Young Transmitters New Zealand is working on a series of tutorial videos to help enthusiasts with their exam preparation, alternatively you can contact your local branch and learn more yourself with face to face interaction, demonstrations and classes.

[Www.youngtransmittersnz.org](http://www.youngtransmittersnz.org)

Electro Tech is an online community (with over 170,000 members) who enjoy talking about and building electronic circuits, projects and gadgets.

<http://www.electro-tech-online.com/attachments/schmitt2-png.37827/>



Amateur Radio High Altitude Ballooning (arhab)
"The poor mans space program"

<http://arhab.org/>

Amateur Radio video

An introduction to Amateur Radio and the many possibilities it offers for learning, safety and security, and helping others throughout our world. Join us for this journey that takes us through a brief history of communications technology and then into the many exciting opportunities that the world of ham radio has to offer today.

<https://www.youtube.com/watch?v=bcfJUjSEz8>

RF Signal Generator

ZL1CVD TenaTesta 150MHz SWR Scanner & RF Generator to over 1GHz!

<https://www.youtube.com/watch?v=3iJNwfMVzMs>

Antenna matching

Matching a mobile antenna to the requisite 50 ohms is a requirement for several reasons. For example, modern solid state radios are designed to reduce their output power when the input SWR reaches $\approx 2:1$. Some will handle a little more, some a little less. Once matched, the SWR doesn't have to be flat, so anything below 1.6:1 is close enough. Remember too, if the unmatched input impedance of your antenna, is less than 1.6:1 at resonance, you need a better antenna and/or mounting scenario.

<http://k0bg.com/match.html>

Wi-fi is watching us

Already, wi-fi frequencies can be used to figure out how many people are moving in a closed room. The latest application can identify different people by how they move. But, Dr Karl Kruszelnicki asks, will that make us the last generation to have ever known privacy?

<http://www.abc.net.au/radionational/programs/greatmomentsinscience/wi-fi-is-watching-us/7882280>

Impedance Matching 101

Presentation by Ward Silver, N0AX at Pacificon 2012. A great introduction on methodology and techniques to achieve optimum energy transfer between a electronic circuit source and load. Knowing these fundamentals allows for best system performance.

<https://www.youtube.com/watch?v=QLUrwoHRLJM>

Scanning in New Zealand

http://www.radiowiki.org.nz/index.php/Main_Page

Spectrum Search Lite

Spectrum Search Lite is a graphical software tool designed to search and display data contained in the online Register of Radio Frequencies.

<http://www.rsm.govt.nz/online-services-resources/tools/spectrum-search-lite>



I have much pleasure in confirming that IROQ 2017 will be held on 26-28 MAY, and in a significant first for the event, will be based at the NAMBOUR SHOWGROUND.

The Imbil Showground, if used at all, will only be for a refuel, and will not host the teams and their service crews as it has done for many years.

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



LimeSDR

Having received an early LimeSDR courtesy of Lime Micro, thanks to Andrew Back and Ebrahim Bushehri, I wanted to see if I could get it working with some of the code I had been developing specifically for the Raspberry Pi 3 with a 7 inch touch screen and HPSDR compatible radios.

<http://g0orx.blogspot.com.au/2016/06/limesdr.html?m=1>

Radio ham's Femtosats project wins ISS Design Competition

Radio amateur Andy Filo KJ6ZGI has been announced as winner of the ISS Design Competition organised by component distributor Mouser.

<https://amsat-uk.org/2016/11/07/ham-radio-femtosats-iss-competition/>

Willkommen beim DARC Referat DX und HF-Funksport

Das Referat DX und HF-Funksport organisiert den Spaß am Funken für die Funkamateure im DARC. Fünf Bereiche liegen dabei im Fokus: DX, Conteste, Diplome, Schnelltelegrafie und DOKs.

<http://www.darc.de/der-club/referate/dx/>

Provider Help

Telstra Test Numbers

<http://www.yabba.net.au/Support/Telcodes.htm>

The best messaging apps with end-to-end encryption

These apps can help keep prying eyes away from your conversations

http://www.computerworld.com/article/3140631/android/the-best-messaging-apps-with-end-to-end-encryption.html?utm_content=bufferfdaa5&utm_medium=social&utm_source=facebook.com&utm_campaign=buffer

‘Working as ethical hackers can be incredibly satisfying’

Ethical hacking has become a major trend in the IT world. But how easy it is for developers to perform penetration test? BackBox creator Raffaele Forte, in an exclusive conversation with Jagmeet Singh of OSFY, reveals the secrets of a pentest distro and how it can be a helpful tool for the hacker community.

<http://opensourceforu.com/2016/11/working-as-ethical-hackers-can-be-incredibly-satisfying/>



Resurrection — Pressing WW2 Radio Equipment Back into Service

<https://hackaday.com/2016/11/09/resurrection-pressing-ww2-radio-equipment-back-into-service/>

Articles and Papers Related to Radio and Radio Astronomy

http://www.reeve.com/RadioScience/Radio%20Astronomy%20Publications/Articles_Papers.htm#Applying_and_Measuring_Ferrite_Beads

Beginners Guide To Using Arduino

Arduino is an open-source electronics prototyping platform and apt for developers, students, enthusiasts and anyone interested creating projects or innovations out of it. Arduino boards are very popular among Do it yourself (DIY) enthusiasts too and its ability to get connected with sensors and other components of various makes his miniaturized computer the most preferred for Internet of things based projects.

Arduino programming language is used to code the micro-controller on the board. Its user friendly and robust development tool kit or the IDE helps you create sketches and upload them to the board in order to get the best use of it. All the required coding constructs and support is available on the open platform forums and one can easily start working on projects and no previous experience is required

<http://electronicsofthings.com/expert-opinion/beginners-guide-using-arduino/>

Dipole Antenna Calculator

http://www.westmountainradio.com/antenna_calculator.php



Vodafone offers gigabit cable broadband in Wellington and Christchurch

Vodafone cable broadband customers in Wellington and Christchurch will probably stick with the service now they can get gigabit broadband, says the head of an independent broadband comparison site.

<http://i.stuff.co.nz/business/industries/85548053/vodafone-offers-gigabit-cable-broadband-in-wellington-and-christchurch>

Television Manufacturing Documentary From The Late 1950's - Ella73TV

<https://m.youtube.com/watch?v=5TF2DZ0E0Q4>

Telstar Communications Satellite - 1962 Educational Documentary - Ella73TV

<https://www.youtube.com/watch?v=tXE4nEAOzYM&app=desktop>

A bit of phone history

<https://m.youtube.com/watch?v=xJ1fKFqt7qU>

Talking clock

<https://m.youtube.com/watch?feature=share&v=fp4zIMZVcmM>

Antenna matching

<http://k0bg.com/match.html>

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 144.300 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

2016 dates

5th November 2016 (Saturday) Gold Coast Hamfest <http://www.gcars.com.au/hamfest-2016>
Redfest April 22, 2017 <http://www.redclifferadioclub.org.au/>

Contests 2016

Aug 27-28 36th ALARA Contest <http://www.alara.org.au/contests/>

VHF-UHF Field Days

Spring 2016 - Saturday 26 and Sunday 27 November.
Summer 2017 – Saturday 14 and Sunday 15 January.
Winter 2017 – Saturday 24 and Sunday 25 June.
Spring 2017 – Saturday 25 and Sunday 26 November.
Summer 2018 – Saturday 13 and Sunday 14 January.
Winter 2018 – Saturday 23 and Sunday 24 June.
Spring 2018 – Saturday 24 and Sunday 25 November.
Summer 2019 – Saturday 12 and Sunday 13 January.
Winter 2019 – Saturday 22 and Sunday 23 June.
Spring 2019 – Saturday 23 and Sunday 24 November.
Summer 2020 – Saturday 18 and Sunday 19 January.
Winter 2020 – Saturday 20 and Sunday 21 June.
Spring 2020 – Saturday 28 and Sunday 29 November.

QDG information

QDG meeting dates 2016

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

Unless otherwise noted, QDG group general meetings are held on the third Friday of the month at the Redcliffe Club rooms

The club is located at MacFarlane Park in Klingner Rd, Kippa Ring.(UBD Map 91 Ref G 1)
<https://www.google.com.au/maps/place/MacFarlane+Park,+Kippa-Ring+QLD+4021/@-27.2214151,153.0882619,17z/data=!4m2!3m1!1s0x6b93e5f47d867511:0xe926a70030364326>

QDG Membership

QDG Membership is presently free.

As of June 2015 the QDG has 65 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.

Alan Simpson memorial home brew competition

August QDG general meeting www.qdg.org.au

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: John VK4CJO

Phone: Alan Wills VK4NA 61 07 3491 8032

Mobile: 0401 716 778

Twitter @VK4NA

Email: 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 2016

Please check the SEQATV [Web site](#)

Unless otherwise noted, SEQATV group general meetings are held on the first Tuesday on the month at the Redcliffe Club rooms

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

<https://www.google.com.au/maps/place/MacFarlane+Park,+Kippa-Ring+QLD+4021/@-27.2214151,153.0882619,17z/data=!4m2!3m1!1s0x6b93e5f47d867511:0xe926a70030364326>

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 2016

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: Bruce Jones VK4EHT

Treasurer: Andy Beales VK4KCS

Coopted Officers:-

Callback Officer: Peter Jones VK4YAC

Vice President: Alan Wills VK4NA

Assistant Secretary Bill VK4ZWJ

Additional coopted officers will be added as required.

SEQATV group Contact Information

South East Queensland Amateur Television Group

PO Box 643 Kallangur, Qld 4503, Australia

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

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 **