

## **VK7 REGIONAL NEWS BROADCAST**

**FOR SUNDAY 10TH JANUARY 2010**

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### **VK7 EVENT**

#### ***Meet the Voice BBQ***

Don VK7AY lets us know that Sunday March the 21st. is the date of this years "MEET THE VOICE" BBQ again at Ross at the same venue, the ROSS CARAVAN PARK, and the members of the Tasmanian Sewing Circle net will be pleased for your company.

The invitation is open to ALL Amateur Radio operators and their families to come along and enjoy the comradeship that abounds and to put a face to that voice you have heard on air for a long time but have never had the opportunity to meet in person.

Registration will be from 10AM on the Sunday morning, a BBQ will be provided for those wishing to Cook their own, but of course Ross is well catered for with food outlets if you prefer.

In the mean time give thought to inviting as your guest one or more of our senior amateurs to travel with you, be assured they would appreciate the thought, and no doubt they will enjoy the chance to be part of the days events and also Meet A Voice.

This is a day of friendship and a not for profit venture. A Registration cost of \$5.00 per member or member family is to cover cost involved in organisation and any surplus funds have been in the past been handed to the repeater licensing and maintenance fund.

I can report that to date also ALL monies received for Registration have gone to the repeater fund as the generosity of individual amateurs has more then covered any expenses involved, and for that we thank those amateurs.

Ray VK7VKV has again offered to organise a car boot sale on the day for those with pre-loved amateur radio bits and pieces to dispose of , please contact him for further information, that is Ray VK7VKV.

Look forward to greeting you at Ross.

<http://reast.asn.au/events.php#MeettheVoice>

(Don, VK7AY for the Tasmanian Sewing Circle Net)

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### **VK7 EVENTS CALENDAR**

A summary of the events across VK7 over the coming months:

REAST – January 13, 20 & 27 – ATV experimenter’s nights – Queen’s Domain Clubrooms – around 7:30pm.

<http://reast.asn.au/events.php#ATVnights>

CCARC – January 30 - Next general meeting.

<http://www.my-x15.net/ccarc>

REAST – February 3, 10 & 17, 24– ATV experimenter’s nights – Queen’s Domain Clubrooms – around 7:30pm.

<http://reast.asn.au/events.php#ATVnights>

NTARC – February 10 - Annual General Meeting – Alanvale Polytechnic Block B – 7:30pm.

NWTATVG - February 13 – Annual General Meeting

<http://www2.vk7ax.id.au/atvgroup/>

REAST – February 21 – Annual General Meeting starts 11am at Queens Domain Clubrooms with BYO BBQ after.

<http://reast.asn.au/events.php#AGM>

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## **NON-COMMERCIAL FOR SALES AND WANTEDS**

### ***PSU Schematic Needed***

Mike VK7MH is looking for anyone who has a schematic for an NP3008 - 25 amp Voltage Adjustable Power Supply Unit.

If you have one of these and would be prepared to share it with Mike then he is prepared to pay all copying and postage costs.

Mike can be contacted on 6425 6380 or mobile: 0418 127 368.

(73, Mike VK7MH)

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## **NORTHERN NEWS**

### ***Northern Tasmanian Amateur Radio Club***

For this weeks news, NTARC club secretary Jason VK7ZJA hands over the reigns to Bill VK7MX who has put pen to paper and brings the following news to us:

### ***Subscription time***

January brings with it hot weather, the Sydney Test, end of the various yacht races, summer holidays for a lucky some and a return to work for many others.

It also brings the annual renewal of membership subscriptions to NTARC.

Treasurer Ann mailed out the renewal notices late last month and your subscription for the 2010 year is now due. The subscription remains at \$20 for members but this year, additional members of your household can also join at an additional \$5 per person seeking family membership.

Your prompt attention to paying your membership subscription will be greatly appreciated, as the AGM is rapidly approaching and that is the time the Club formally takes stock of its financial position. Remember too that you will need to have renewed your membership in order to vote at that meeting or contest any elected position.

While we make this request each year at this time, there is an additional impetus for requesting your early action this year. In 2010, for the first time, NTARC will be required to find the \$1000 annual site fee for the Mt Barrow repeater facility from within its own resources.

It will therefore be essential that the new Committee be aware of our total financial membership when budgeting for this new cost.

If for some reason you have not received your renewal notice, please forward your subscription to Ann at NTARC, Inc at PO BOX 275 Launceston 7250, together with a brief note of your details, including your preferred mailing address and we will ensure that our records are updated.

### ***Not a member?***

If you are listening to this broadcast in the north of the State, or via one of the various repeater links that are sponsored by NTARC but are not a member, you are cordially invited to apply for membership by writing to us at PO BOX 275 Launceston, attaching payment of the \$20 subscription. You will be made most welcome.

### ***Not interested in joining NTARC?***

Well, we appreciate that not everybody wants to join an amateur radio club in their pursuit of the hobby and we respect that position.

However, the various repeater and digipeater facilities all take money to keep operational, notwithstanding the huge voluntary effort put in by a hardy few. As the licensee of those facilities, that cost falls to NTARC. If we cannot persuade you to join, could we respectfully request that you consider making a cash donation to our repeater fund by sending it to us at PO BOX 275 Launceston? Alternatively, you could hand a donation to

a Club office holder, who will ensure your contribution is added to the fund.

***Positions Vacant.***

A reminder that all positions on the Committee fall vacant on the evening of the AGM, 10 February, 2010. At that time, we will be conducting elections for the positions of President, Vice President, Secretary, Treasurer and a Member of Committee.

Under the Club Rules, nominations for any of these positions are to be made in writing, including the signatures of the proposing and seconding member, and that of the member being proposed. The nomination is to be forwarded to the Secretary, at PO BOX 275 Launceston and must reach that address by the close of 5 February, being 5 days before the date of the AGM. Should insufficient nominations be received for any position, nominations will be invited from the floor at the AGM.

Well, that's the formal announcement out of the way. Could we now invite you to consider taking a turn at helping to run your Club. After all, the Club cannot function for long without a viable and active committee.

Retiring Committee members are of course eligible for re-election and most have indicated a preparedness to do so. I'm sure though all would be willing to make way for fresh minds, either by standing aside or accepting a re-allocation of portfolio if other members are prepared to step forward.

None of these positions have duties that could be really described as onerous and there is always a body of experience available and happy to guide any newcomer as he or she settles into their new role.

Equally, none require extensive technical knowledge or vast experience as an amateur radio operator. All that is really required is an interest in helping the Club operate smoothly and a preparedness to represent the best interests of its members.

Could we please ask that you give the possibility of standing for a Committee position serious thought over the next few weeks. Should you require any additional information about any role please feel free to contact club secretary Jason VK7ZJA on 0411 140 005 or the acting President Bill VK7MX on 63986100

Thanks from

(Acting President Bill VK7MX and Secretary Jason VK7ZJA)

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**NORTH WEST NEWS**

***Cradle Coast Amateur Radio Club (CCARC)***

## **CCARC News**

<http://www.my-x15.net/ccarc>

Cradle Coast Amateur Radio Club members are notified that the next general club meeting will be on the 30th of January 2010.

If you are a non amateur or a short wave listener living in the North West, or West coast of Tasmania, and would like to become a licenced amateur radio operator, then come along to a meeting and find out about this interesting hobby. If you cannot make the meeting but would like to find out more about the hobby then contact the learning facilitator, Keith Winkler VK7KW, or any of the committee members.

Full contact details are available on our website which can be easily found by a "Yahoo" or "Google" search of CCARC TASMANIA

So don't forget, next meeting is January 30<sup>th</sup>.

(David, VK7DC, Secretary, CCARC)

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## ***North West Tasmania Amateur Television Group***

<http://www2.vk7ax.id.au/atvgroup/>

### ***Club Meetings Coming up***

The next two Meetings of the NWT-ATV Group are scheduled for Saturday 13th. February 2010.

The first of these will be the Annual General Meeting of the Club and as per the rules all 5 executive positions of the Club will be declared vacant at this meeting.

Any financial members of the Club are entitled to nominate for any of the positions. Nomination forms & notice of same will be communicated to all members shortly. If any member feels he/she would like to have a go at holding an executive position within the Club, here is your chance. So please give it some thought.

The second meeting will be the General Meeting of the Club and will take place immediately at the conclusion of the AGM. Meeting venue will be the QTH of Ivan VK7XL at Gawler.

### ***AMSAT-VK Net Tuesday Night***

The Monthly National Satellite Net of AMSAT-VK will again take place this Tuesday 12th. January.

The Net commences at 8.30 PM concluding around 9.30PM, with check-ins from approx. 8.20PM.

Operators may join the net via Echolink by connecting to either the \*Amsat\* or \*VK3JED\* conferences. Past experience has shown that the VK3JED conference offers clearer audio. The net is also available via IRLP reflector number 9558.

In addition to the Echolink conferences, the net will also be available via RF in the North West of VK7 via the Club's VK7RTV Repeaters on 53.775 and 146.775. MHz. and their associated IRLP Nodes.

All Amateurs and SWL's within range of these repeaters, are welcome and invited to join in. You do not have to be active in working the satellites to be involved with the Net. It is a good way of learning how to become involved with communicating in AR via the "Birds". Why not take a listen, you may become interested in yet another mode of Amateur Radio.

The nightly AR News broadcast "Linux in The Ham Shack" for this night, will be moved forward to commence at 7.30PM. to allow for the AMSAT Net starting around 8.20PM.

73's until next time

(Tony VK7AX, News Officer NWT-ATV Group)

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## **SOUTHERN NEWS**

### ***Radio and Electronics Association of Southern Tasmania***

#### ***REAST Memberships Due***

REAST membership renewals for 2010 are now due. Please include a renewal form with your payment to ensure our database is up to date.

Renewal forms are available from the club rooms or can be downloaded from the REAST website.

If paying by direct deposit please email a copy of your renewal form to [bob.vk7zl@gmail.com](mailto:bob.vk7zl@gmail.com) or phone me on 62 611 297 with your details.

<http://reast.asn.au/events.php#membershiprenewal>

(73's Bob VK7ZL, REAST Membership Officer)

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#### ***Education and Training***

If you would like to participate in a future training and/or assessment and it could be for any assessment (foundation, standard, advanced or practical) then let Reg VK7KK know on mobile: 0417 391 607 or email: [regemm@ozemail.com.au](mailto:regemm@ozemail.com.au)

<http://reast.asn.au/events.php#FoundationLicenceCourse>

(Reg, VK7KK, REAST Education Officer and Assessor)

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### *ATV Experimenters Night*

We had a great roll-up to the first ATV night for 2010.

A big thank you to Paul VK7FPAH and friend who have built and supplied our ATV studio backdrop cyclorama. This has enabled us to mount the chroma-key screen in a professionally constructed frame that will make our presentations very professional, thanks Paul.

A new big wheel/clover leaf 70cm antenna and coax was installed and the thanks for building the antenna and supplying the coax goes to Ian VK7ZIF. Thanks also to Anders VK7FAJM our registered tower worker for scaling the tower and mounting the new antenna. The reports we were getting from around Hobart indicated a definite improvement.

So, if you are interested in receiving analogue ATV on a Wednesday night from around 7:30pm and you have a UHF TV antenna pointed toward the Queen's Domain then try tuning your analogue TV down the UHF TV band to SBS and then tune a little lower and you will probably find our ATV signal on 444.25MHz.

We also have a signal going out on digital Satellite TV standard - DVB-S on 1283MHz and you will need a digital satellite receiver and suitable antenna to receive this signal.

Please note there has been a delay with the DVB-T transmitter but we will soon have the DVB-T transmitter up and going and be testing its range – stay tuned.

Our presentation this Wednesday night will be a show and tell of some interesting WWII microwave valves and then into a presentation by Professor Mike Underhill G3LHZ. This talk was given to the Adelaide Hill Amateur Radio club and is a very thought provoking demonstration and presentation of the theory behind small loop antennas.

[http://www.gsl.net/vk5bar/Small%20Loops%20-%20Mike%20Underhill%20KLT%20&%20BR/G3LHZ-talk-2008\\_02\\_04/G3LHZ-talk-2008\\_02\\_04.htm](http://www.gsl.net/vk5bar/Small%20Loops%20-%20Mike%20Underhill%20KLT%20&%20BR/G3LHZ-talk-2008_02_04/G3LHZ-talk-2008_02_04.htm)

We get underway around 7:30pm in the ATV studios. So, if you would like to be involved in ATV come up to the domain and see and experience what amateur television is all about. We guarantee you'll be impressed....HIHI.

Hope to see you along.

<http://reast.asn.au/events.php#ATVnights>

(73, Justin, VK7TW)

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## **VHF/UHF DX NEWS**

### ***Recent Activity with VK7***

The following is drawn from a posting on the VK-VHF mailing list from Chris Davis VK2DO:

On Friday the 8<sup>th</sup> January Chris reported....

“This morning, the routine indicators – the Sydney beacon, Ch5a TV in Newcastle were all unusually strong.

Watching the logger, I sandbagged on the digital contacts taking place on 144.225 and after confirming that my computer's clock was telling the truth, realised that I might be hearing Rex VK7MO's tones. I have no decoder in place here at the coast.

After a bit of speculation on the logger, Rex went to phone and we exchanged reports, him 5x3 and he copied me 5x1.

Very good conditions, my coast station is just a single 12 element Beam with legal limit power.

Steve, VK2ZT as well as a JT65 contact exchanged reports with Rex on phone as well, then attempted 70cm with no luck.

Despite some patient attempts by four VK2s, no luck on phone with the VK9NA DXpedition today.

Last seen, Rex VK7MO had worked the boys on Norfolk Island on FSK441 with many other stations were also enjoying generous pings.

The VK9NA team worked ZL3TPH on 13cm this morning, so just 3cm left to go!

<https://lists.ozlabs.org/listinfo/vk-vhf>

(Cheers Christopher, VK2DO via the VK-VHF mailing list)

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### ***VHF/UHF Summer Contest News***

John Martin VK3KM contest manager reminds us that this time of the year provides many opportunities for contest on the higher frequencies....

### ***Ross Hull Contest 2010***

The Ross Hull Contest for 2010 is under way now and runs for throughout January. The rules and other details can be found on the contest web page.

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

Please note that if you use VK3AVV's VKCL contest logging program, you need to download the latest version (2.20) – click here to go to the VKCL web site.

<http://web.aanet.com.au/mnds>

### ***Spring Field Day Results***

The results for the Spring VHF-UHF Field Day will be published in a few days' time, and certificates will be mailed out to entrants next week.

### ***Summer VHF-UHF Field Day 2010***

A reminder that the Summer VHF-UHF Field Day will be held on the weekend of 16/17 January. Are you ready yet? The details on the contest web page.

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

### ***Special 2010 Field Day Cumulative Certificate***

Do you intend to participate in all three VHF-UHF Field Days in the coming year? Here is an extra incentive for you. Special certificates will be issued in December 2010 to the entrants who have participated in all three 2010 Field Days.

<https://lists.ozlabs.org/listinfo/vk-vhf>

(John VK3KM Contest Manager via the VK-VHF Mailing List)

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## **SATELLITE SHORTS**

### ***Near Miss Reported with Japanese Satellite***

The Japan Amateur Radio League (JARL) website is reporting that a Russian rocket body came close to the Amateur Radio satellite SEEDS (CO-66).

CO-66 was launched in 1986, and SEEDS project leader, Professor of Aerospace Engineering University of Miyazaki Yasuyuki said they had received signals from the satellite since the incident. Thanks you to all people who have contributed reports about the satellite.

The near miss occurred on January 7, 2010 at 08:02:30 UT when a rocket body is said to have come within 100 metres of SEEDS (CO-66).

The JARL report in Google English can be seen at:

<http://translate.google.co.uk/translate?u=http%3A%2F%2Fwww.jarl.or.jp%2F&sl=ja&tl=en&hl=en&ie=UTF-8>

COSMOS 1743 - NORAD ID: 16719 -  
<http://www.n2yo.com/satellite/?s=16719>

Rocket Body - NORAD ID: 16720 -  
<http://www.n2yo.com/satellite/?s=16720>

SEEDS - NORAD ID: 32791 - 437.485 MHz -  
<http://www.n2yo.com/satellite/?s=32791>

May 2008 - First SSTV Pictures from Amateur Radio CubeSat Seeds -  
[http://www.southgatearc.org/news/may2008/seeds\\_sstv.htm](http://www.southgatearc.org/news/may2008/seeds_sstv.htm)

Japan Amateur Radio League, Inc. (JARL)  
<http://tinyurl.com/JapanJARL/>

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### ***HO-68 SSTV Report***

On Dec 30th 2009 on a 20 degree pass Mike DK3WN and Henk PA3GUO made the very first SSTV contact via the HO-68 - linear transponder.

A few images were transmitted between the two radio stations in Germany and The Netherlands. Signals were transmitted via HO-68, which was 1200km above earth and about 8000km distant from both radio amateur stations.

Check the link on the email and internet editions of this broadcast for the pics exchanged.

<http://www.dk3wn.info/p/?p=10478>

(73, Mike & Henk via the AMSAT Mailing List)

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### ***Video of HO-68 operational modes***

Whilst on HO-68 - Henk PA3GUO has produced a video showing all the modes available on the Amateur Radio satellite Xi Wang 1 (HO-68). This 2 minute video features the launch of the satellite and shows its various modes of operation - Beacon, FM, AX.25 Packet and SSB/CW linear transponder. Callsigns heard during the video include M3PQQ, N1AIA, KC9ELU, VA3FM, WA3CZY and I6IBE.

Check the link on the text editions.

<http://tinyurl.com/ycjp4dg>

<http://tinyurl.com/ya2uyzs> (NZ3M YouTube video)

(AMSAT News Service)

### ***New Satellite RS38 satellite beacon heard***

Mike Rupprecht DK3WN reports on the hearing a new CW satellite beacon RS38 on 435.490 MHz. In an email on the AMSAT Bulletin Board he indicates that it is coming from the Russian UGATUSat.

An audio file of a complete beacon record (4 min) can be heard at the link on the text editions.

<http://www.dk3wn.info/p/?p=10401>

UGATUSat Real Time Tracking

<http://www.n2yo.com/satellite/?s=35869>

(AMSAT News Service)

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## **TECHNOLOGY NEWS**

### ***Quantum Computers Closer to Reality***

Superfast quantum computing is closer than ever following recent breakthroughs by an international team led by researchers from the University of New South Wales.

Quantum computing relies on controlling and observing the behaviour of quantum particles – for instance individual electrons - to deliver enormous processing power.

In the two breakthroughs, written up in the international journals Nano Letters and Applied Physics Letters, researchers have for the first time demonstrated two ways to deliberately place an electron in a nano-sized device on a silicon chip.

The achievements set the stage for the next crucial steps of being able to observe and then control the electron's quantum state or "spin", to create a quantum bit.

Multiple quantum bits coupled together make up the processor of a quantum computer.

Quantum computing's power comes from the fact that electrons can have a "spin" pointing in one of two directions. The spin position can be used in the same way that zeroes and ones represent data in today's computers.

However electrons can also hold intermediate spin positions, or quantum states, which is what gives quantum computing its power.

While today's computers increase their power linearly with the number of bits added, quantum bits, when coupled together, can deliver an exponential increase in their ability to represent data.

For more detail of these fascinating discoveries take a look the original Science Alerts article sourced from the University of new South Wales.

[http://www.sciencealert.com.au/news/20100601-20468.html?utm\\_source=feedburner&utm\\_medium=email&utm\\_campaign=Feed%3A+sciencealert-latestnews+\(ScienceAlert-Latest+Stories\)](http://www.sciencealert.com.au/news/20100601-20468.html?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+sciencealert-latestnews+(ScienceAlert-Latest+Stories))

[http://www.unsw.edu.au/news/pad/articles/2010/jan/quantum\\_computing.html](http://www.unsw.edu.au/news/pad/articles/2010/jan/quantum_computing.html)

(Sourced from the Science Alerts Mailing List)

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## **WEB & EMAIL EDITION EXTRA BITS!!**

Power Supply Circuits

<http://www.zen22142.zen.co.uk/Circuits/Power/power.html>

<http://www.juliantrubin.com/fairprojects/electronics/powersupplycircuits.html>

LEDs can also be used as photodiodes (thanks to Yves F1AVY)

<http://een.iust.ac.ir/profs/Sadr/Papers/omd7.4.pdf>

Real Time Satellite Tracking

<http://www.n2yo.com/>

Satellite TV Information

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

Free Australia TV via Satellite

<http://www.lyngsat.com/freetv/Australia.html>

Apollo 11 Parkes Website

[http://www.parkes.atnf.csiro.au/news\\_events/apollo11/](http://www.parkes.atnf.csiro.au/news_events/apollo11/)

1979 Tour of Parkes Telescope

<http://www.youtube.com/watch?v=aErlrQbLX2o>,

Recent Tour of the Parkes Telescope:

<http://www.youtube.com/watch?v=VsoIeojQCcc&feature=related> ,

1990 Tour of Parkes (kids presentation)

<http://www.youtube.com/watch?v=9Y6mYDF6zZo&feature=related>

Upbeat Promo of CSIRO!!!

<http://www.youtube.com/watch?v=QWmivumLLLw&feature=related>

The URL Says it All!

<http://www.randomuseless.info/>

OMEGA Nav System

<http://www.jproc.ca/hyperbolic/omega.html>

Hyperbolic Nav Systems

<http://www.jproc.ca/hyperbolic/index.html>

How a GPS finds lock

<http://gpsinformation.net/main/gpslock.htm>

GPS Information

<http://gpsinformation.net/>

GPS Antenna Articles

<http://www.helenav.nl/antlinks.htm>

GPS Apps for Windows CE

<http://www.gpsinformation.org/dale/PocketPC/wince.htm>

Anti-SPAM Resources

<http://gpsinformation.net/main/antispam.htm>

TinyTrak – APRS Interface V.3 & V.4

<http://www.byonics.com/tinytrak/>

<http://www.byonics.com/tinytrak4/>

Microtrak

<http://www.byonics.com/microtrak/mtaio.php>

Do you have some interesting internet sites you have some across in the last week – send them in to [justingc@ozemail.com.au](mailto:justingc@ozemail.com.au)

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### ***VK7 Regional News Group Email Addresses***

Post message: [vk7regionalnews@yahoogroups.com](mailto:vk7regionalnews@yahoogroups.com)

Subscribe: [vk7regionalnews-subscribe@yahoogroups.com](mailto:vk7regionalnews-subscribe@yahoogroups.com)

Unsubscribe: [vk7regionalnews-unsubscribe@yahoogroups.com](mailto:vk7regionalnews-unsubscribe@yahoogroups.com)

List owner: [vk7regionalnews-owner@yahoogroups.com](mailto:vk7regionalnews-owner@yahoogroups.com)

### ***VK7 Virtual BPL Tours***

<http://www.youtube.com/watch?v=pcY0Eetvsw> - Mt Nelson

<http://www.youtube.com/watch?v=1gsxpya3CnQ> - North Hobart

<http://www.youtube.com/watch?v=G7DfdxjRkpU> - RU ready for BPL?

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If you are interested in becoming an amateur radio operator or upgrading your licence then we suggest you contact your local club for details and/or take a look at what the Radio and Electronics School has to offer. They have a range of courses that can be delivered through a variety of methods.

They can be found at: [www.radioelectronicschool.com](http://www.radioelectronicschool.com)

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Finally today, a reminder to those people rostered for next week's broadcasts:

Newsreader: VK7IR

160m: VK7DM

80m: VK7TW

40m: VK7JGD

20m: VK7IL

10m: VK7ZGK

UHF CB: VK7HGO

HF CB: VK7TED

Thanks to all people and organisations who assisted with this broadcast.

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**THAT CONCLUDES OUR VK7 REGIONAL NEWS BROADCAST FOR THIS WEEK.**

**YOU HAVE BEEN LISTENING TO OR JUST MISSED VK7WI. NEXT WEEK THE NATIONAL WIA NEWS CAN BE HEARD AT 0900 FOLLOWED BY THE VK7 REGIONAL NEWS AT 0930 HOURS.**

**DETAILS TO SEND NEWS FOR THIS BROADCAST CAN BE FOUND AT [REAST.ASN.AU](http://REAST.ASN.AU) AND THE DEADLINE FOR ITEMS IS 21:00 ON FRIDAY PRIOR TO THE SUNDAY OF THE BROADCAST.**