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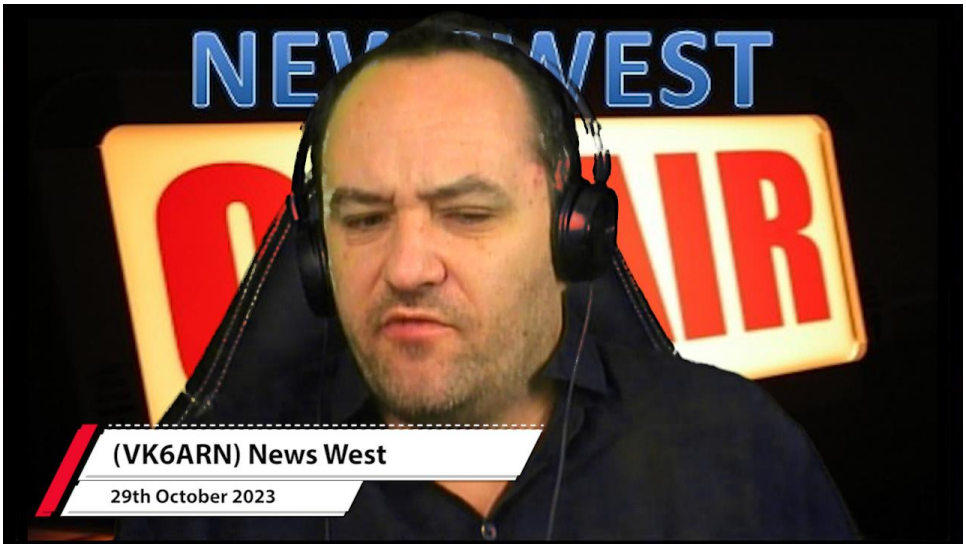

This is VK6 ARN News West. We are a community organization and we've been serving out the best amateur radio news in Australia since 1931.

Hi, this is Clinton VK6FCRC and this is News W for the 29th of October 2023 now with the show.

Hi, I'm Steve VK6SJ with this week's episode of Did You Know? Go to Dayton Hamvention in Ohio, USA has been on my bucket list for a decade or two. This year I needed to discuss a few things with Flex Radio and I wanted to expand the variety of products in the shop. So it seemed like the perfect chance to get those tasks done and also see what Datum was about. Picking up some other work over there for another customer to help pay for the trip, as well as working for Flex while I was there was icing on the cake. So there I was, ticking off one of my bucket list items. How to describe Dayton? 25 to 30,000 attendees. 157 vendors, including all the big radio manufacturers including Kenwood, Surprisingly, but also lots of the smaller vendors such as Buddy Pole and Highland alike. The look and feel of the event was not dissimilar to the Perth Royal show, but only runs for 2 1/2 days instead of 10. There were food trucks and stands dotted around the event, one hall exclusively for use as a forum for buildings for commercial exhibitors and a large paddock full of flea market car boot style sellers. In fact, looking at the facility in Xenia where the Dayton Hamvention is now run. The Claremont Shy Grounds would make a nicer location with similar facilities, but probably more expensive. To give you an idea of the size of the market though, there are 770 seven 162,000 ham licences in the USA, with just under 130,000 of them living in Ohio and its bordering states. In Australia we have 19 1/2 thousand licences and I think about

2000 of them are in WA. There's a lot you can do with the market that size. That's likely not going to happen here with our current population of hams. Still, if he scowled down our population, a similar attendance should be in the order of 500 or one in four hams. Not sure off the top of my head how that compares to, say, Ham Fest, but it's probably an appropriate amount. I might add that the USA has around twice as many hams per capita than in Australia. I wonder why that is. Looking at the why on field day that that I've attended a number of times, it was a pretty good scale down copy of Home mention given the size of our market. One typically he has an area of four forums, an area for commercial vendors, areas for car boot sales, and a few options for food. Wong has the advantage of a far larger potential audience than we have here in WA. Makes me wonder what could be done if I am in a population, or rather the target audience of an event was bigger. What could we do? If we expanded the interest of an event to the recreational CB and HF sectors. It would probably be be cating through a potential audience of around five times the amateur population. Somebody end up with an attendance of more than 1000. This could possibly allow us to run a forum in a separate room. They just don't work otherwise. My opinion. And the size of the market would attract more vendors. It would also bring a bunch of people with similar interests into contact with amateur radio, which would almost certainly bolster our ranks. The forms taught in with hamfests have been tried to varying rates of success. I think Perth Tech is by far the best example of the forum idea, but they typically don't cater for the vendor or flea market crowd. NCG and Park have both tried the forum idea in various forms with limited success, but both as well as hargest or great job for vendors and anyone else wanting to sell stuff. If we counted to a larger potential audience, I combined audience from amateur Radio, CBS, and the recreational HF sectors. We get both manufacturers lighting up to be a part of the event, which would also benefit our community in terms of more variety of goods on sale, more sponsorship of events, better raffle prizes and a larger variety of forum topics. This isn't a criticism of our local events. We have great events here in Perth. While NRG Ham Fest has always been the premier event hargest and park vests have lately been giving them a big run for their money. This competition 's great for all of us as hands attending event and the clubs running the event hoping to compete for attendance. So next club meeting challenged the committee to look further afield, not only for the things to do at your event, but also the size of the audience you might cater for. Better still, get involved yourself. Think about how your event might be attractive to more vendors, which will in turn drive up attendance numbers and generate more income for your club. Well, thanks for listening again. This is Steve. OK, VK6SJ with another episode of Did You Know?

If you happen to listen to the right part of the 80 metre band on a Tuesday evening, you might hear something that sounds like this. The CQRS net has been running every single Tuesday for the last two years and has been unbelievably popular. There are usually half a dozen, a dozen and a couple of times up to 18 stations popping in and out when they can over the four or five hours. The aim is to encourage new CW operators to have a go at slow CW in a safe and really friendly environment where slow speed and lots of mistakes. A power for the course. It's all about having a go, starting with a basic call sign and RST exchange, then over time getting better and better. The net also attracts his fair share of old timers who enjoy helping others to have a go or just to enjoy the banter. So this might be just the opportunity you have been waiting for to have a go at transmitting on CW, or perhaps just to stop the contacts rusting up on your key. Doesn't matter. Whether you're brand new to the code, or if you're an old timer

who would like to have a bit of fun and help encourage new operators by having simple, safe cursos at their speed, we'd love to have you join in. Bennett starts at 0900 Zulu every Tuesday on 80 metres between 3540 and 3570 kHz and their stations in the West East and in between listening out for your CQ Rs call. For more information and to receive our weekly CQRS Ragu newsletter, contact me mark VK 6 Qi via my e-mail address on qrz.com. Or you can e-mail me direct mark.bosma@icloud.com that is MAR k.b.osma@icloud.com Too much switch mode power supply hash on 80 metres. This might be the incentive to do something about it, with the cheap noise canceller costing less than $100. 80 metres could be easier than you think. So once again, Tuesdays from 0900 Zulu until late between 3540 kHz and 3570 kHz. Cheers from Mark the K2K I and VK6QI.

This is VK6Aarn and you're listening to News West

Foundations of Amateur Radio. After recently talking about noise, today I want to discuss game, specifically Antenna Gain. When you say that your antenna has 18 dbi gain, what does that mean? This entire discussion starts with an isotropic radiator or antenna. It's often described as the perfect antenna, but rarely is there any description on how that actually works, so I'd like to start there. Before we dig in too much, it's worth remembering that an isotropic antenna is a thought experiment. It cannot physically exist, but it's a useful tool for comparing antennas. Antennas have a physical size. There's often a direct relationship between the size of the antenna and the frequencies for which it works best. A lower frequency means a longer wavelength and corresponding large antenna to handle that radio frequency. In contrast, an isotropic antenna is infinitesimally small and responds equally well for all frequencies. Similarly, unlike an actual antenna, an isotropic antenna is symmetric in all directions. That is, there's no difference between the back or the front, the top or the bottom, the left or the right. You can position an isotropic antenna in any orientation, and there's no difference. Not just no detectable difference, no actual difference. The radiation pattern is a perfect sphere. As I said, the isotropic antenna is an imaginary, let's call it ideal antenna that's used as the base reference to measure all antennas against. When you use the word gain in relation to an antenna, you're using the unit dbi, and in doing so you're comparing the antenna against this imaginary perfect isotropic antenna. When you see that the gain of an antenna is 2.15 dbi, you're saying that this antenna performs better than the isotropic antenna, and does so by 2.15 DB. There's one minor detail missing in that statement. The full statement, often completely overlooked, is that this antenna performs better than the isotropic antenna, and does so by 2.15 DB in some directions, but not all. Said differently, and then again comes from distorting the ideal perfect sphere into different shapes. For example, the 2.15 dbi gain of a horizontal dipole antenna distorts into a squashed doughnut on its side. In other words, there are directions where a dipole radiates better and has an increased gain when compared to an isotropic antenna, but there are also directions where it radiates worse, much worse, if at all. In the case of a dipole, it receives best from the side and worst in line with the antenna, and I'll point out that the donut is also an idealized shape that in turn gets distorted by proximity to other objects like the ground. Consider that a dipole has 2.15 dbi gain over an isotropic antenna. This means that for some directions

the gain is increased, and for some directions it's decreased, perhaps even eliminated. In other words, in some direction the antenna amplifies the signal, and in other directions it attenuates the signal, potentially even to 0. At a so-called null in an antenna radiation pattern, as I've said before, an antenna receives a combination of both wanted signal and unwanted noise. For an isotropic antenna, all signals from any direction, both wanted and unwanted, are treated the same. This is not true for an antenna that has gained. Consider an antenna that exhibits gain in one specific direction. And loss in all other directions. If you were to point that antenna at a wanted signal, the incoming signal would be amplified in that direction and attenuated in all other directions. If noise comes from all directions equally, most of the noise would be attenuated and only a little bit of noise coming from the same direction as The Wanted signal. Simplified. Overall, this means that the total amount of incoming noise is reduced in comparison to The Wanted signal. In other words, the noise floor is reduced and the signal level is increased, making the signal more audible above the noise. This means that the impact of antenna gain is that the signal to noise ratio is improved for an incoming signal in comparison to local noise. Notice also that the antenna gain works in multiple ways. It says to improve the local signal to noise ratio by attenuating noise and amplifying a wanted signal, but it also increases the transmitted signal that's sent towards the other station. Both affect your station's performance, but do so at different sides of the communication link. And because we are talking about two separate signals, an incoming one and an outgoing one, the optimal direction might not be the same for both. So now what do you think the impact might be of adding an 18 DBI Yagi to your station? I also have a supplementary question. If a commercial antenna is compared with the dipole using the DBD units, is the antenna compared to the entire radiation pattern of a dipole, and if so, at what height? From what type of ground? And is that a useful comparison or hiding the true performance of such an antenna?

I'm Onno VK6FLAB.

Good morning, This is Roy VK6XV with this weeks hotline the 29th of October 2023.

Today I have the following for you Kim, not Kim Tim Tim VK 6E India is looking for some cable 20 metres thereabouts of LMR240 if you have some lying about. Kim Tim would like to hear from you. That's OK 6E India. His e-mail address VK 6E India at bigpond.com if you can help me with that. The LMR240 coaxial cable. 20 metres required. Next item for sale is a TS590S Kenwood transceiver with a TS power supply. 1550 dollars is asking price for that. There's also a Yasu Fox Tango 2200 Watt Transceiver $1550 for that. Also there's a Fox Popper 8 EXT Speaker. 150 dollars for that. There's also a Diablo 5204 antenna switch 4 port model $50. There's a Revox W5000 SWR bridge, one 1.8 to 60 megs, $80. There's a Fox T200 transceiver with Fox Puppet 200 power supply $150.00 the pair. And there's an MFJ 259B internal analyzer $150. There's a TH3 Mark 3 high gain triband antenna Negotiable price on that. There's also a rotator Cdr HAM Negotiable. There's a tubular 40 foot telescopic self supporting mass negotiable price. Homebrew HF amplifier deck set up for a 4-1000G tube. Negotiable and you may contact Nora Jackson on behalf of her silent key husband. Between the hours of 10 and 12 today and the mobile number is 043835. 2667 that's 0438352667 or the landline is 636-3535. Zero again 63635350. Next item comes from Steven handling his father's estate. Week 6UT still has a whole lot of transceivers. And

paraphernalia, spare parts, valves and generators and power supplies. Too much to mention here. If you would like to give him a call or send him an e-mail, his e-mail address is steventango@westnet.com dot AU. I spell Steph. ENT at westnet.com dot AU or the mobile number 04018041660401804166 BK 6ADI follows a microphone a. Amplified Desk Microphone $50.00 The desk microphones not amplified but the audio is. It's a realistic audio. Amplified Audio Desk Microphone for sale $50 and you make contact Barry. You make contact Barry. VK 6L For DI his e-mail address is. Bravo dot Juliet dot burns That's BURNS at bigpond.com bravo.juliet.burns@bigpond.com. That's all I have for you today. And if you have units next week, please contact me the address roy.watkins@bigpond.com. Roy.watkins@bigpond.com Thank you once again for listening 7/3.

Hi there, I'm Clinton VK6FCRC and I'd like to thank our newest team of volunteers and broadcasters each week and those regularly submitting content each week. I'd also like to thank our readers and you for listening. Please stand by now for callbacks after the ident, or if nobody's taking callbacks, please fill out the form on the vk6.net website. So we know how many people are listening or reading news west each week.

AMATEUR RADIO HELPLINE 29th OCTOBER 2023

PLEASE Have your HELPLINE requests into me by 07:00 hrs WST Friday to be in the next

broadcast

to email ; <roy.watkins@bigpond.com> or (vk6xv@bigpond.com)

Contact me and keep our equipment in Amateur hands, 73 Roy. vk6xv@bigpond.com

Please enter “DISPOSALS or HELPLINE” in the subject

NEW ITEMS THIS WEEK.

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Here is this weeks helpline.

WANTED

Anyone have maybe 20m of LMR240 they would like to part with?

Cheers

Tim.VK6EI <vk6ei@bigpond.com>

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FOR SALE

TS590S KENWOOD - comes with TS-50 Power Supply $1,550.00

FT-2000 200 Watt TRANSCEIVER $1,550.00

FP8 EXTENSION SPEAKER $150.00

DIAWA 5204 Antenna Switch 4 port model $50.00

REVOX W5000 SWR BRIDGE 1.8 - 60 meg $80.00

FT200 TRANSCEIVER with FP200 Power Supply $150.00

MFJ-259B Antenna Analyser $150.00

TH3 Mark 3 HY GAIN TRI BAND Antenna NEGOTIABLE

CDR ROTATOR - HAM M NEGOTIABLE

Tubular 40' Telescopic Self Supporting Mast NEGOTIABLE

HOMEBREW HF Amp Deck was set up for 4-1000 GG NEGOTIABLE

(Current set up Unknown)

ANY REASONABLE OFFER WILL BE CONSIDERED

CONTACT NORAH JACKSON

CONTACT HOURS BETWEEN 10 am and 12 noon

SUNDAY

MOBILE 043 835 2667 22 10 23

LANDLINE 6363 5350

ADDRESS 103 Gladys Road, LESMURDIE WA 6076

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Don VK6UT Deceased Estate

Email: stephent@westnet.com.au

Mbl: 0401 804 166

Dear Roy. Thanks very much for all your help. However, I still have a heap of (many old and unknown) accessories my father (Don VK6UT) collected. Here is an update which is for sale or possibly (free for bits and pieces) and any reasonable offer will be seriously considered for

remainder. Sorry, but I am unsure of the accuracy of some the items listed,Pickup please

Gumtree / Market Place

1) Power Supply 13.8 volt 20 amp DC Soft Start (Working) and 20v DC Battery $100 ono.

2) Bush Radio EU35 (EZUROPE) with spare magic eye. London 1955?'s works $200 ono

3) Pioneer Dynamotor Gen-E-Motor SP 175 Input 18v output 450v No 13068

4) Pioneer Dynamotor Gen-E-Motor E2 12V to 250V DC

5) 15 small approx. ½ to 1HP electrical motors $30 each ono

6) Typewriter Brother AX-325 Electronic with Keyboard Cover and Manual and some accessories - in working condition

7) Compressor (home made) to 100lbs

8) VSWR Power Meter

9) Metal capping - Hard Fence (58mm x 76mm x 58mm) 3.8mtr length crimped one end. 8 pieces. $25.00 ono

Radio Electronic

b) Power Supply Codan Type 7113

c) Power Supply Model LBR-800

d) Voltage Regulator 250v?

e) Several 10+ Small and whip type and a large TV (Type of) antennas' including The ARRL Antenna Book.15th Edn. 1988 USA and Co-Axial Relay Construction pamphlet

f) YARGI ? type antenna (Stainless)

g) 3 hand held ICOM's Details Below

i) ICOM IC-2E 2M FM Transceiver Hand Held with ;annual and Schematic BATTERY DAMAGE Seems to work? $40.00 ono

ii) ICOM IC-2E 2N 144MHZ FM TRANSCEIVER hand held with

battery Seems to work? $40.00 ono

iii) Standard C528 .144 /430 Mhz FM Handy Transceiver and Manual

(No Battery case) Seems to work $40.00 ono

h) Wind Meter and Instruction, Plans / Schematic Project 556

Dismantled

i) Many Battery power supply Chargers free

j) Rectifiers old approx. 20 + very cheap

k) Many of the following. 50+ meters / gauges (frequency, amperes,

volts, etc), many connectors many diodes, old and new resistors,

transistors, capacitors. Heaps of Cable (co-ax?) and fittings etc

l), Heaps of vintage electrical, radio, wireless bits and pieces including

10+ transistor radios, T-Shaped glass tube valve unknown Chinese

writing etc

m) RF Amp Meter

n) Transformer Step Down 250 to 110v

o) Transformer – unknown Specs to be advised

p) DC Meter 12v

q) DC Meter 18v

r) Variable Transistor AC 0-300?

s) Meter (Heathbrit)

Publications

Special Collectors Auction Old Valve Radios Garside & Webb Sale

January 1997

Upgrade 40MHz digital frequency meter, including Cat. K-3437Artical

FT-101 Instruction Manual

HF-SSB Transceiver Kenwood TS-120S and TS-120V (Photo copy)

FT-301(D) YAESU x 2 (1 x Photo copy) Manual

IC-706 ICOM Manual

IC-706 MKII ICOM Manual

IC-706MKIIG ICOM x 3 Manual

AT-120 TRIO Antenna Tuner Manual

Precision SWR-Power Metre Instructions

SWR 200 & Meter instruction in Chinese with Charts in English

FT-901 Schematic

Miscellaneous

SONY TapeCorder Mdl TC-105 plus 2 reels with a tape Untested

Microphone Super Cardioid Dynamic 33-992A with instructions

Drawing Board

Lamp light

Portable lights

Aluminium Extension Ladder

Stereo TEAC Radio Cassette (small)

Refrigerator Centrex

VALVES LIST.

6SJ7GT 8 PIN AWA

Vibrator Nissin 6Z – 2A D 6v 7amp 60cycle

Vibrator Ferrocart M337 6v 4 Pin 150cycle

Vibrator Ferrocart M437 6v 4 Pin 150cycle

Vibrator V5123 OAK 4 Pin

COIL 34975 5590KC Antenna 3 pin.

Coil 4510kc Antenna 3 pin

Several unknown valve type items with pins

BOOKS

a) TORANA Series HB Sedan, S and SL Sedan- Scientific Pub Manual

#72 (1977) $20 ono plus postage

Military Books

ABOVE THE WAR FRONTS A Record of the British Two-Seater Bomber Pilot and

Observer Aces, the British Two-Seater Fighter Observer Aces and the Belgian,

Italian, Austro-Hungarian and Russian Fighter Aces 1914-1918 by Russell Guest, Norman Franks and Gregory Alegi (1st.edn 1997 Hardcover) Very good condition. Used $25.00 ono

BATTLE OF THE ARDENNES 1944 (1) ST VITH AND THE NORTHERN SHOULDER. [Osprey Campaign Series 115] 2003. 96 pages by Steven J. Zaloga, Very good condition. $15 ono plus postage.

KURSK 1943 The Tide Turns in the East, [Osprey Campaign Series 16] 1992. 96 pages by Mark Healy Very good condition. $14 ono plus postage.

ARNHEM 1944 - Operation Market Garden [Osprey Campaign Series 24] Stephen Badsey $15.00 ono Plus postage

The Greatest Battle : The Fight for Moscow 1941-42 by Andrew Nagorski. 25 Photo's. Paper Back 2008. $15 ono plus postage.

LEGS ELEVEN. Story of the 11th (WA) Battalion (AIF) in the Great War of 1914-1918(pub.1940 1st Edn) Capt Walter C Belford. Previous owner's name on front end paper otherwise a very good condition copy of an exceptionally scarce title. $1800

120 plus books on World War I

Kind Regards

Stephen Truscott

1xxB Stock Rd Attadale WA

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Hi Roy , I have a Realistic amplified desk mike for sale.

Asking price $50.00

Barrie vk6adi b.j.burns@bigpond.com

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Wanted – is there a Collins 51J4 general coverage receiver out there, needing love and affection? Prefer good working condition, but am happy to administer some TLC. Please email Steve, VK6VZ with price and details at: stevevk6vz@tpg.com.au

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WANTED: Antenna Analyzer that covers FROM 100 KHZ to 600 MHZ. Such as a Rig Expert or other brands that can sweep the spectrum.

Not after a Nano VNA.

Mark VK6BSA email vk6bsa@gmail.com

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Please have your items in to me by 07:00 AM Friday

for inclusion the following Sunday broadcast.

The email address is vk6xv@bigpond.com

Don’t forget YOUR phone number and email address.

Please include HELPLINE as the “SUBJECT”

Thank you.

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