



Next Club Meeting Annual General Meeting Friday 1st March 7.30pm

Ern Rose Memorial Pavilion, Seaver Grove, Reservoir



Outgoing President Trevor VK3ATX presents a certificate of thanks to Eric Simpson formally VK3ETC. Eric donated a large quantity of amateur radio equipment to WANSARC after moving into a retirement home. Eric was into satellite working and spoke to the Columbia shuttle and had a large HF setup and via HF worked every country in the world. He is pleased all the equipment are going to a good home and use, Thanks Eric.

SMS Message from Carridin;

Hi Trevor, Thank you for visiting my Grandfather and presenting him with a certificate of appreciation. Eric was very pleased and is happy to know all his equipment was put to good use. On behalf of my family we thank you for accepting our gift donation and wish you and your club all the best. Regards Carridin

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Around the Shack

LAST MONTHS MEETING

With the AGM soon upon us most of the talk was about that and also John Moyle Field Day planning. We had a visitor, who found us on the web, Gregory Boyles, who brought a Tesla coil to the meeting, quite impressive.



His aim now is to create twin stereo audio modulated Tesla coils similar to this: <http://www.youtube.com/watch?v=bbLshnfu0wY>, although not as big.....at this stage anyway.

WANSARC NET

VK3AWS

Every Tuesday Night

7.30pm check in

146.450 MHz

FOR SALE



Alan VK3SM, has a BWD 509B Oscilloscope for sale. 5 inch single beam Serial No. 20650, complete with spare tube, external probes and original handbook. Bandwidth DC or 2 Hz to 7 MHz. Rise time 50n Sec over 4cm. Horizontal amplifier DC to 1 MHz. Time range 1 μ Sec to 0.1 Sec in 6 steps, Calibration <5% Triggering Internal Auto 1 cm deflection 5 Hz to 10 MHz All or any offers considered, the unit will be brought for viewing at the club March meeting (AGM) Contact Allan 9386 4406.

THE TEN LEAST-USED KITCHEN GADGETS

Toasted sandwich maker	26%
Food processor	21%
Slow cooker	19%
George Foreman type grill	17%
Blender	17%
Kitchen scales	16%
Juicer	16%
Bread maker	16%
Hand blender	15%
Coffee machine	14%

March 16 - 17

VK JOHN MOYLE

MEMORIAL FIELD DAY

WANSARC have won the 6 hour event for many years now, we need operators for Saturday 16th.

Come along to the AGM and put your name up to join in for a fun day of portable radio, contesting, fresh air and food.

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

SECRETARY'S NOTICE OF



ANNUAL GENERAL MEETING

Notice is given that the next meeting of Friday 1st March is the Annual General Meeting, to be held at Ern Rose Memorial Pavilion, Seaver Grove, Reservoir, starting at 7.30pm. Doors open from 7pm for coffee and chat.

To effectively run the meeting it is important that as many members that can attend do turn up. Yearly membership fees are also due after the Annual General Meeting.

A new membership form has been sent to all current financial members by email or post, to be handed in, so the club has your latest contact details, as people either move, change mobile numbers, internet providers and emails, etc. With the privacy laws we need permission to publish photos in the newsletter and club website.

So please do fill out the attached membership and nomination forms and return them to us. If you don't have access to a printer, spare forms will be available from the Secretary at the AGM, to fill out.

Also quite importantly, do consider running on a committee position, there are a few vacancies this year.

Members would have also received by post or email notices of possible changes to the clubs meeting times, so come along and have your voice heard on this and other matters.

The John Moyle Field Day is also this month, March 16th & 17th. Planning for this event will also be discussed and requests for operators and equipment also being sought.

So please bring the paperwork and membership fees with you on the night - 7.30pm start.

Payment can be made to Rod VK3FAB at the next meeting.

Members have the option to pay their membership fees via internet banking and direct deposit, details:

Bank Name: Bendigo Bank
BSB Number: 633-000
Account Number: 139996052
Account Name: Western and Northern Suburbs Amateur Radio Club

Please quote your callsign and "renewal" as the reference.

If paying by internet banking or direct deposit, please send Rod an email rod.tacey@gmail.com and Rod will confirm receipt.

Alternatively, you can send us a money order or cheque made out to

"Western and Northern Suburbs Amateur Radio Club"

Posted to WANSARC, PO Box 336, Reservoir VIC 3073.

~Mick VK3CH, Secretary WANSARC

Centre Victoria RadioFest 2013

About half a dozen WANSARC club members came to Centre Victoria RadioFest at Kyneton Racecourse, the weather was perfect. Your scribe at the invitation of Peter Cossins, VK3BFG, took along some 10GHz / 24GHz microwave ATV gear for display. Like each year all manner of items were on sale, but crowd numbers looked a bit down compared to previous years, but the areas selling seemed just as much, if not slightly more. The mini lectures were very informative and worth seeing, very well presented. I still reckon they should be video recorded and played on VK3RTV now and then to show what is on offer at Kyneton.

↓



↓ Crowds passing through the gates at 10am



Collection of radios at the Australian Vintage Radio Society stand ↑

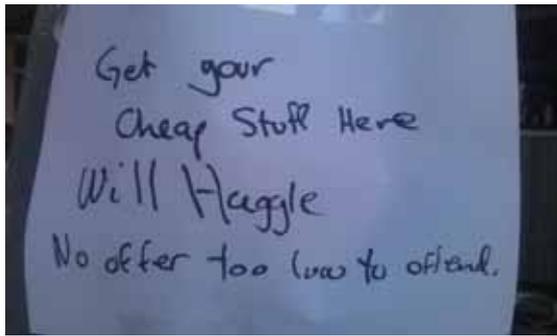
Not a Hamfest without the food ↓



Micks microwave ATV display with camera sending on 24GHz ↓



24GHz receiving station ↑



↑ Amusing notes ↑





A true antique cylindrical gramophone playing ↑



Graeme manning the Macedon Ranges Radio Club stand ↑

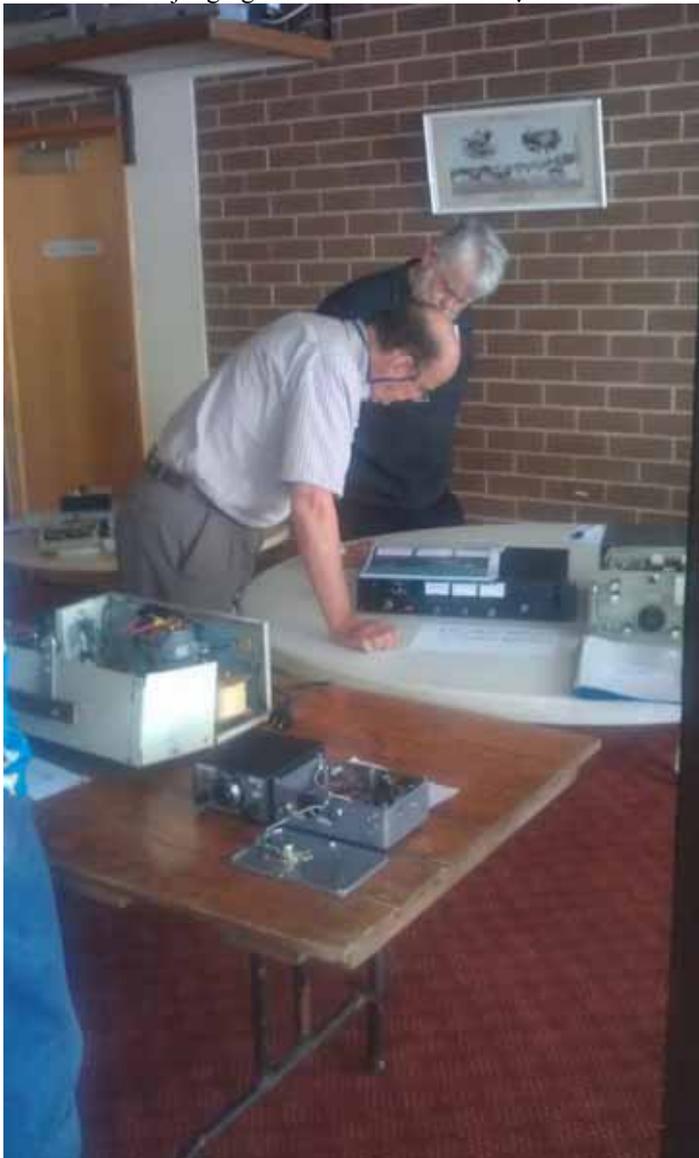


↑
Drew Diamond judging the home brew entries ↓

Commercial Traders Hall



↑
Raffle draw of first prize ↓



WIA stand ↑

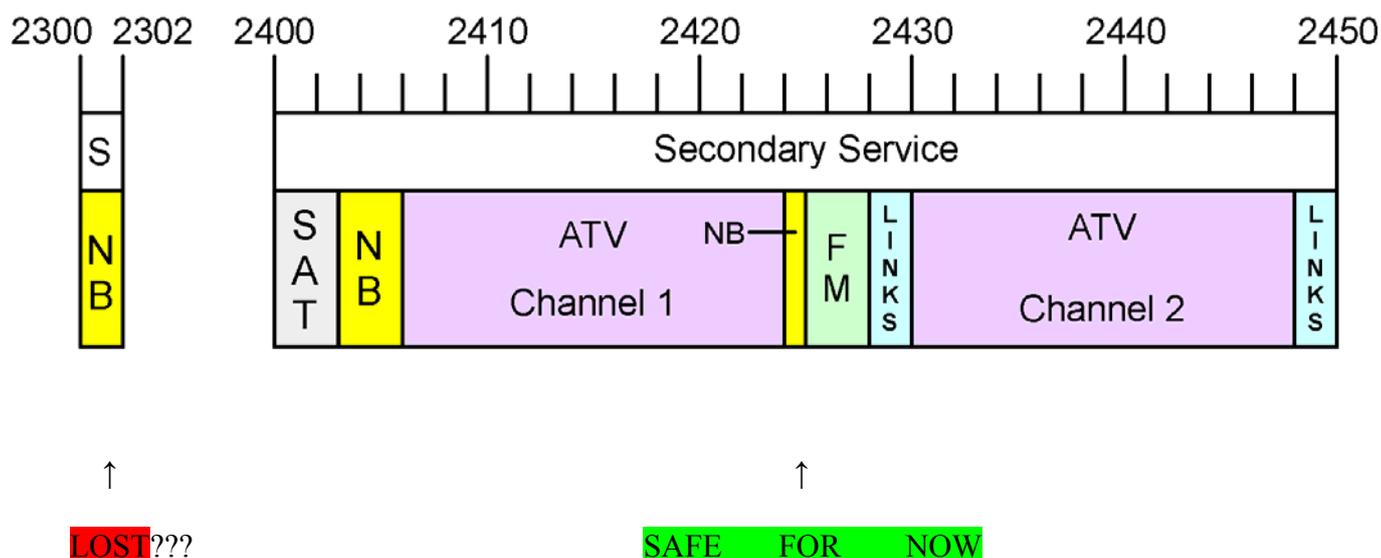
An entertaining day out, just an hours drive from town, also ran into lots of people that haven't been seen in ages.

~Mick VK3CH

Australian Radio Amateurs May Lose the 2300 – 2302 MHz Band

Date : 14 / 02 / 2013

Author : Phil Wait - VK2ASD



The ACMA has informed the WIA of proposed changes to spectrum usage in the 2300 – 2302 MHz band, which will result in Advanced Licensees losing access to that spectrum.

The ACMA proposes to acquire the spectrum for LTE radio purposes. LTE, or long-term evolution, (marketed as 4G LTE), is a wireless standard for high-speed data over mobile phones and data terminals.

The change will give LTE services the full 100MHz segment from 2300 – 2400MHz, or twenty 5MHz LTE channels, and naturally the government revenue from any resulting spectrum auction would be very significant.

Losing any spectrum is always a great concern to radio amateurs, and this secondary allocation spectrum is the only viable option for Earth-Moon-Earth (EME) contacts to Region II (where the EME activity is on 2304 MHz) or Region I (which uses 2320 MHz). Australian radio amateur EME activity would then be confined to 2400 MHz and above, where ISM and Wi-Fi equipment is likely to cause interference to local EME stations.

The ACMA plans to recommend the change to the Minister for Broadband, Communications and the Digital Economy, and make the changes under section 153B of the Radiocommunications Act 1992. If the Minister approves the change radio amateurs will probably lose access to the spectrum in 2015.

Before making such a recommendation to the Minister the ACMA is required to undertake extensive consultation with stakeholders, and has prepared the consultation paper (see below) with the draft recommendation at Attachment A. The ACMA will also be writing to all Advanced Amateur Radio Operators (who are affected by this proposal) to provide them with a copy of the notice and inviting their comments.

Radio amateurs are encouraged to forward their comments to the ACMA by Wednesday 27th March 2013, to the address in the paper.

The paper is found here

http://www.wia.org.au/newsevents/news/2013/20130214-1/documents/Consultation%20Paper_Re-allocation%20of%202300-2302%20MHz%20band.pdf

~WIA Website

What Kind Of Dinosaur Meat Would Taste Best?

An ostrich-like dinosaur known as an *ornithomimid* would probably yield the most consumer-friendly cut of meat, while still maintaining a unique dinosaur taste. Much of the flavour in a cut of meat comes from its fat composition, and an animal's diet contributes significantly to this.

However, due to the average consumer's taste for meat that is not too strong-tasting, it is more important to figure out what we *don't* want the animals we consume to be eating. Dinosaurs that ate marine animals would definitely be off the list, not only for their fishy flavour, but also because the high amount of oil in fish would make the meat more susceptible to oxidation, which would give it a rancid taste.

In fact, any carnivorous dinosaur would not fare too well in the supermarket. Most people prefer meat that comes from herbivorous animals—think cow, deer, bison—since animal fat found in a carnivore's diet adds a significant amount of "gamey" flavour.

And some dinosaurs' diets are far too unappetizing to consider.

"When people ask me if a T-Rex would be good, well, I don't think so," David Varricchio, professor of paleontology at Montana State University, says. "They've found jaw abnormalities that suggests they were eating fetid meat and had diseases that came about from prey items. They would be pretty parasite-laden."



Just as important in the search for the best cut of dinosaur meat would be the level and type of activity for which the dinosaur was built.

As for exactly which dinosaur would be most appetizing, one with red meat would have just enough flavor as compared to one with blander white meat. Theories that dinosaurs would have tasted like chicken abound since dinosaurs are so closely related to birds, but for many land-dwelling dinosaurs, beef may be a closer guess.

The kind of activity an animal does determines what kind of meat it yields. Red meat is composed of slow-twitch muscle fibres, which are built for sustained periods of activity, so animals that are active for longer amounts of time throughout the day would be composed of mostly red meat. Those who ambush their prey or move quickly for short periods of time would have white meat, which is composed of fast-twitch muscles that allow for quick bursts of activity. So dinosaurs taking part in extended periods of activity would probably have muscles less like a chicken (or even a fast-acting predator like a cheetah) and more like a steady-moving cow.

*Ornithomimosaur*s were a group of ostrich-like dinosaurs that were part of the suborder Theropoda from which modern birds evolved. They were close enough to birds that they likely had feathers and were warm-blooded, but they were very active animals with large hind legs for prolonged periods of running, so their muscles would probably have been mainly slow-twitch, less like modern birds. Though most theropods were carnivorous, ornithomimids were unique in that they had no teeth, a fact that has led most to believe they ate mostly plant matter.

"About 80 percent of the *ornithomimids* were hindquarters, and they were really well-suited for running," Varricchio says. "I've also done a little work on their bone histology and it's safe to say they're relatively fast-growing. I think it would be a lean, slightly wild-tasting red meat."

That's not to say other dinosaurs wouldn't make a tasty meal either.

Velociraptors, being wild ambush predators, may have had gamier-tasting white meat comparable to a carnivorous bird such as a hawk. Taking into consideration activity level and diet could yield a huge variety of possibilities were dinosaurs ever to roam our pastures and grocery stores.

"You could get into cuts of meat. Armored dinosaurs mainly used their tails for defence, so that would probably be a lot of good white meat. Hadrosaurs were quadrupedal and spent much of their time on the move; I suspect they would be largely red meat," Varricchio says. Sauropods, the largest animals to ever walk the earth, may have made for an interesting meal as well. Their long necks, used to reach high-up food sources, could have resulted in a unique cut of sturdy red meat weighing several tons. Says Varricchio, "Sauropod neck could be a delicacy."

~Internet

Mick VK3AY Antenna Project

A photo of my tower looking decidedly bare at the moment sporting a 6 meter mast and crowned with a diamond F23 H 5.2 meter antenna for 2meters. →

I finally repaired the rotator and made the decision to populate the mast with some extra antennas, starting with a 6 element long periodic yagi, 4 driven elements and 2 directors, expected gain 10dbi on a short 12 ft boom.

This is not my design but one that has been around for some years now, I have used this style of antenna in the past for 15 meters and it worked a treat, I hope this works half as well.

I have shown some photos of the construction method that I used, the aluminium tube was purchased from Bunnings they were 3 meter lengths of 12 mm diameter tube. These were cut to length and screwed to some insulators that I purchased at one of the ham fests.

If anybody knows where I can purchase some more of these insulators I would be grateful.

The next antenna to get installed will be a pair of 8 element yagi's.

These should be beneficial in getting rid of interferences of the harmonics on the taxi tower near home.

The next antenna to go up will be a Maspro 435WH15, completing the uhf vhf array.



Insulator purchased at the ham fest, where are these available from? ↑



Measuring the spacing on the 2mm square boom ↑



Cutting the tube to length ↑



A rough drill jig to drill all of the mounting holes ↑



All tube cut to length ready to be fitted on to the boom ↑



Getting ready to drill the phasing harness ↑
 This is 10 x 2 mm bent at the appropriate angles,
 2 matching pairs
 That is about as far as I have got on the 6 meter antenna.



Continuing saga these are 2 meter 8 element yagi's on 3 meter booms
 The photo shown was during a test run which looked very promising
 All that needs to be done is to cut some 75 ohm coax to a multiple of a
 quarter wave then check.

In keeping up to getting the antenna mast populated, I have a 3 element 10 meter yagi on the drawing board, one of Cebeks designs.

Regards, Mick, De VK3AY

WANSARC VK3AWS

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WANSARC CLUB PROFILE

History

The Western and Northern Suburbs Amateur Radio Club (**WANSARC**) was first formed in 1969 and since then has served the needs and interests of amateur radio operators, short wave listeners and those interested in hobby radio and electronics. The club is not gender specific, having both female and male members. Members come from all walks of life with a mix of experience, young and mature, novice and technical. The most important aspect of the club is the willingness of all members to share their knowledge for the benefit of others. Members mainly reside in the west and north of Melbourne; however membership is encouraged from all interested. **WANSARC** is an affiliated club of **The Wireless Institute of Australia**.

Meetings

Meetings held at the **Ern Rose Memorial Pavilion, SEAVER GROVE, RESERVOIR** (Melway Map 18 D5) on the **1st Friday of each month** (excluding January) commencing at **7.30pm local time**. Talk in on **146.450MHz FM**—call club station **VK3AWS**.

Benefits

Free technology and related presentations, sponsored construction activities, discounted (and sometimes free) equipment, network of likeminded radio and electronics enthusiasts, excellent club facilities and environment plus an informative monthly newsletter for members to post articles, news, classifieds for all radio, test equipment, etc, featuring Amateur Radio news from WANSARC, ARV, WIA, ACMA, Melbourne Clubs, VK and Worldwide.

Club Nets

146.450MHz FM each Tuesday evening commencing 7.30pm local time. **Net Control Station - VK3AWS**

Website: www.wansarc.org.au

Postal: **WANSARC PO Box 336 RESERVOIR 3073**

A proud tradition of supporting hobby radio and electronics enthusiasts since 1969

All editors' comments and other opinions in submitted articles may not always represent the opinions of the committee or the members of **WANSARC**, but are published in the spirit in which they were submitted; in any case anything stated is to promote interest and active discussion on club activities and the promotion of Amateur Radio in general. Contributions to **WANSARC** are always welcome from any part of the world. Email attachments of Word™, Plain Text, Excel™, PDF™ and JPG are all acceptable. You can either post material to the Post Office Box address at the top of this page, or email your submission to the editor direct at vk3ch@wia.org.au. Email attachments not to exceed 5 Mb in file size. Attachments of (or thought to be) executable code or virulently affected emails will not be opened. Other persons or radio clubs may edit or copy out such as they like from the magazine but a reference to **WANSARC** is appreciated, except copyrighted (©) material or as otherwise indicated. Other articles that are credited to outside sources should be asked for their permission if they are used. While we strive to be accurate, no responsibility taken for errors, omissions, or other perceived deficiencies, in respect of information contained in technical or other articles. Any dates, times and locations given for upcoming events should always be checked with a reliable source closer to the event – coming up on the **WANSARC Tuesday evening NET** on **146.450 MHz** starting at **07:30 pm Local** is recommended to discuss and confirm information and any dates. The club website has current information on planned events and scheduled meeting dates. **WANSARC** News written with Word™ 2007, published with Adobe Acrobat™ 10. You can get the WIA News sent to your inbox each week by simply clicking a link and entering your email address found at www.wia.org.au. The links for either text email or MP3 voice files are there as well as Podcasts and Twitter. This service is FREE.