



OXTALES

First published 1980

Club Nets on VK2RPM
146.700MHz
(CTCSS 91.5Hz)
Sundays 0900
Thursdays 1930

Newsletter of the Oxley Region Amateur Radio Club Inc.,

PO Box 712 Port Macquarie 2444

Club email address: vk2bor@orarc.org also on Facebook as Oxley

Region Amateur Radio Club

Club Website: <http://www.orarc.org>



ORARC's fiftieth Anniversary Year

March 2021

PRESIDENT: Henry Lundell VK2ZHE 6582 0534
VICE PRES: Paul Colledge VK2ICQ 6580 9912
TREASURER: Dennis Meade VK2DAM 6582 2998
SECRETARY: Henry Lundell VK2ZHE 6582 0534

ORARC VHF/UHF Repeaters

MIDDLE BROTHER

VK2RPM 2 metre (Voice - CTCSS 91.5Hz)
O/P 146.700MHz - I/P 146.100MHz

VK2RPM 70 cm (Voice - CTCSS 123Hz)
O/P 438.525MHz - I/P 433.525MHz
C4FM digital mode capability

VK2RPM-1 (APRS Digipeater)
SX 145.175MHz 1200bps

TELEGRAPH POINT

VK2RCN 2 metre (Voice)
O/P 147.000 MHz - I/P 146.400 MHz

VK2RCN 70 cm (Voice - CTCSS 123 Hz)
O/P 438.425MHz - I/P 433.425MHz

VK2RCN (6m Repeater)
O/P 53.800 MHz - I/P 52.800 MHz

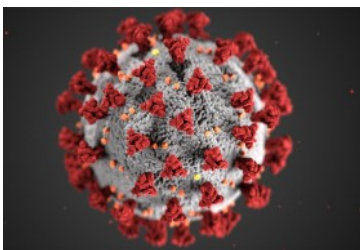
VK2RCN-1 (APRS Digipeater)

President's Report



March 2021

COVID-19



The continuing mandatory restrictions imposed to reduce the spread of infection by the COVID-19 virus is still impacting on club activities but with the relaxation of some of the restrictions we have been able to recommence face to face activities. The first of these for the club was the February Monthly General Meeting on Saturday the 6th of February 2021. Members are very pleased to be able to get together for meetings again. The March Monthly

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Down The Coax
ORARC meetings held in the SES Building
Central Road, Port Macquarie.

John Moyle Memorial Field Day
Saturday 20 & Sunday 21 March 2021

Westlakes Radio Club Car Boot Sale
Saturday 27 March 2021 - York St Teralba

Monthly General Meeting
Saturday 10 April 2021 2:00 pm

Urunga Convention
Saturday 3 April and Sunday 4 April 2021
Cancelled Due to COVID-19

Friday Night Get-Together
Friday 16 April 2021 7.00 pm

ANZAC Day AX prefix permitted by ACMA
Sunday 25 April 2021

Monthly General Meeting
Saturday 1 May 2021 2:00 pm

World Telecommunication Day
Monday 17 May 2021. AX prefix permitted

Friday Night Get-Together
Friday 21 May 2021 7.00 pm

Mayham Central Coast Field Day Wyong Racecourse
Sunday 30 May 2021. (Replaces cancelled Wyong
Field Day)

Monthly General Meeting
Saturday 5 June 2021 2:00 pm

ORARC Field Day Wauchope Showground Hall
Saturday 12 and Sunday 13 June 2021
Field Day Dinner Sat. Port Macquarie Golf Club

Net Controllers' Roster
Nets on Voice Repeater VK2RPM 146.700 MHz

Sundays
(0900 Local)

Thursdays
(1930 Local)

March 2021

VK2FMGM	Mar 7	VK2ZHE	Mar 4
VK2FMGM	Mar 14	VK2ICQ	Mar 11
VK2FMGM	Mar 21	VK2EM	Mar 18
VK2FMGM	Mar 28	VK2ZHE	Mar 25

April 2021

		VK2ICQ	April 1
VK2FMGM	April 4	VK2EM	April 8
VK2FMGM	April 11	VK2ZHE	April 15
VK2FMGM	April 18	VK2ICQ	April 22
VK2FMGM	April 25	VK2EM	April 29

May 2021

VK2FMGM	May 2	VK2ZHE	May 6
VK2FMGM	May 9	VK2ICQ	May 13
VK2FMGM	May 16	VK2EM	May 20
VK2FMGM	May 23	VK2ZHE	May 27
VK2FMGM	May 30		

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General Meeting on the 6th of March 2021 went ahead as planned. These and subsequent meetings follow the ORARC COVID-19 Safety Plan. We look forward to a gradual return to normality with further relaxation of restrictions as 2021 progresses.

The Committee is continuing to closely monitor the COVID-19 situation as the pandemic continues to evolve. The situation is expected to improve significantly as the massive world-wide vaccination programmes reach a majority of people. All Australians are expected to be offered vaccination by the end of 2021. There is an air of optimism with the promise of an eventual return to at least limited international travel in the next 12 months.

ORARC 2021 Field Day 12 & 13 June Queens Birthday Weekend

Don't forget to mark your calendars for Saturday and Sunday the 12th and 13th of June for the ORARC 45th Annual Field Day over the 2021 Queens Birthday Weekend. The 2020 Field Day was going to be the 45th Annual Field Day but unfortunately it had to be cancelled due to the COVID-19 situation. Hence the 2021 Field Day will be the 45th.

The programme for the 2021 Field Day will be sent out with the May issue of Oxtales.

The venue for the 2021 Field Day is the Wauchope Showground hall in High Street, Wauchope. This hall is an excellent venue and will support all the usual Field Day activities. The very successful 2019 Field Day was held in the Wauchope Showground and both locals and visitors were very pleased with the venue. There is plenty of on-site parking and the area is safe for the fox hunts.

The Wauchope Showground permits

camping and is pet friendly. For two people an RV or caravan is \$20 per night with power and a tent is \$10 per night with power. The use of toilets and hot showers is included. You can even get a stable for your horse for \$10 per night! Contact the on-site caretaker 0475 111 074 for bookings. The web page is at <http://www.wauchopeshowociety.com.au/camping.html>

The Field Day dinner as usual will be at 6pm at the Port Macquarie Golf Club on Saturday the 12th of June. The dinner will be held in the Seaview Room. Thank you to Gary Ryan VK2ZKT of Radio Supply of Bellingen for kindly sponsoring this function room for the Field Day Dinner. As usual, please place your orders at the Aspire Restaurant. The club offers an extensive dinner menu to cater for all tastes at club prices.

There will be all the usual displays and activities at the Field Day. Entry is still a very modest \$5 which covers admission on both days. The barbeque will work overtime with bacon and egg sandwiches for breakfast both days and sausages and steak for lunch both days. Tea and coffee and biscuits will be free all day for those who have registered. Soft drinks and bottled water will be available for purchase.

Radio Supply of Bellingen will have a large range of accessories and other items at their stand at the Field Day. Gary Ryan VK2ZKT will have a range of his home brew and restoration projects on display. These always create a lot of interest and inspiration.

Sandy Brucesmith VK2WH very generously donated a Kaysan Redcap 6 metre Flowerpot antenna to the club as a Field Day raffle prize. Sandy presented the antenna to the club at the February Monthly General Meeting. Sandy made a quantity of 3D printed 118 degree and 135 degree included angle drill sharpening guide blocks for distribution to those at the meeting.

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Sandy VK2WH presents Henry VK2ZHE with 6 Meter Flowerpot antenna for Field Day Raffle.



3D printer Drill Sharpening Guides

These were extremely popular and now grace a lot of members' workshops. Sandy, thank you again for your generosity. Sandy will have a range of antennas and accessories on display at the Field Day. If you would like to learn more about the range of products that Sandy has available he may be contacted by email as per the listing for VK2WH in the Email Directory

on page 2 of this edition of Oxtales.

The attendance of ALARA has not been confirmed following the recent very sad passing of John Bishop VK2ZOI, OM of ALARA representative Dot Bishop VK2DB. The thoughts of the Amateur Radio fraternity are with Dot and her family at this difficult time.

Amateur Radio NSW will have a stand. ARNSW have been very active in promoting and supporting Amateur Radio. The very heavily subsidized antenna and balun projects over the last couple of years have been extremely popular and many stations are using the antenna and baluns that they constructed. More recently the ARNSW DMR expansion project has provided DMR repeaters to a number of clubs including the Oxley Region Amateur Radio Club.

Fox hunting is always popular. New 80 metre foxes are being built for the 80 metre mobile hunts. There will be mobile and pedestrian fox hunts on both 2 metres and 80 metres. If you don't already have a sniffer, now would be a good time to build or buy one for each band.

There is no charge or commission for disposals. While Sunday is the main trading day there will always be some items on the tables on Saturday.

The planning for the Field Day is already under way. We look forward to another very successful Field Day. The Field Day will follow the ORARC COVID-19 Safety Plan and all COVID-19 restrictions will be complied with. Fortunately there is plenty of space in the Wauchope Showground Hall so social distancing requirements should be easily met. The Field Day Dinner at the Port Macquarie Golf Club is in the quite spacious separate function room and the dinner will be run in accordance with the Golf Club's COVID-19 safety plan.

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The successful running of the Field Day weekend is dependent upon the efforts of many members to undertake the myriad of tasks that are required, both in preparation, and during the Field Day itself. Please help where you are able. This will spread the work-load so that everyone has time to enjoy the weekend. There is a list of Field Day jobs below. Please let the Committee know if you can assist.

List of Field Day Jobs

Please consider volunteering to undertake the jobs that you are able to do. If enough people volunteer the individual workloads will not be too arduous and we will all have time to enjoy socializing during the event.

Please contact Field Day Manager Henry Lundell VK2ZHE to advise your availability and include your preferred times.

Saturday

- 09:00 Saturday morning team to set up the hall
- Registration Desk: 10:00 – 16:00: Shifts of 2 people. Registrations and sell raffle and food/drink tickets. Enough people for 3 shifts would be good.
- Kitchen: 10:00 – 16:00: At least 2 people to cook and serve breakfast and lunch and tea/coffee/soft drinks. A third person is needed to run the barbeque for breakfast and lunch.
- Fox Hunts: 12:00—17:00 Starter/recorder plus 2 people to hide and retrieve foxes.

Sunday

- Registration desk: 08:30 – 14:00: Shifts of 2 people. Registrations and sell raffle and food/drink tickets. Enough people for 3 shifts would be good.
- Kitchen: 08:30 – 14:00: At least 2 people to cook and serve breakfast and lunch and tea/coffee/soft drinks. A third person is needed to run the

barbeque for breakfast and lunch.

- Fox Hunts 09:00 – 15:00: Starter/recorder plus 2 people to hide and retrieve foxes
- 15:00 Sunday afternoon team to pack up and clean the hall.

ORARC Celebrates 50 Years 1971 – 2021

As readers will have noticed from the Oxtales masthead and the ORARC 2021 Calendar, the Oxley Region Amateur Radio is celebrating its 50th Anniversary this year.

The 2021 Field Day on the June Long Weekend will highlight the 50th Anniversary. The Field Day dinner will be special this year.

The Club is arranging for production of special ORARC 50th Anniversary polo shirts and bucket hats. Quite a few members have already expressed interest in these. They are certain to be popular. Please let Henry Lundell VK2ZHE know if you are interested. Please advise your shirt and hat sizes. The price and delivery will be advised when quotations have been finalized.

Foundation Licence weekend and Assessments

It is planned to conduct a Foundation Licence Training weekend and assessments for all grades of licences soon. Education Officer Larry Lindsay VK2CLL has contacted those who have expressed interest and a date will be set shortly. If you would like to obtain your Foundation Licence or upgrade your existing licence, please contact Larry as soon as possible.



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John Moyle Memorial Field Day 20 & 21 March 2021

The major Amateur Radio event on the ORARC calendar in March is the John Moyle Memorial Field Day which commences at noon on Saturday the 20th of March and finishes at one minute to noon on Sunday the 21st of March 2021.

Normally the ORARC club station VK2BOR participates in the Field Day from the club's communications caravan. Unfortunately, it is not possible to maintain sufficient COVID-19 safety physical distancing in the confines of the caravan so VK2BOR will not be participating this year.

Members are encouraged to operate their individual stations portable during the Field Day. If you are not operating portable, please spend some time on air from your home stations and give the field stations some much needed contacts.

For more information on the John Moyle Memorial Field Day visit <http://www.wia.org.au/members/contests/johnmoyle/>

Don't forget to submit a log if you make some contacts in the John Moyle Memorial Field Day.

As most members will be aware, one of our club members, Ray Mullins, holds the callsign VK2JU. VK2JU of course was the callsign of Ross Hull so Ray holds a prestigious callsign which has a rich history.

Westlakes Amateur Radio Club Car Boot Sale Saturday 27 March 2021

On Saturday the 27th of March 2021 the Westlakes Amateur Radio Club Inc. is holding a car boot sale in the club grounds in York St Teralba. As always, admittance

is free and everyone is sure to find a bargain. The event will be run in compliance with the applicable COVID-19 safety requirements.

With the reduced travel time to and from Newcastle, the round day trip to attend the Westlakes Car Boot Sale is not too



arduous.

Urunga Convention 3 and 4 April 2021



Easter Weekend - Cancelled

The 2021 Urunga Convention planned for the Easter Weekend on Saturday the 3rd and Sunday 4th of April 2021 at the Senior Citizens' Hall in Bowra Street has unfortunately had to be cancelled due to difficulties in complying with the COVID-19 safety procedures in the hall.

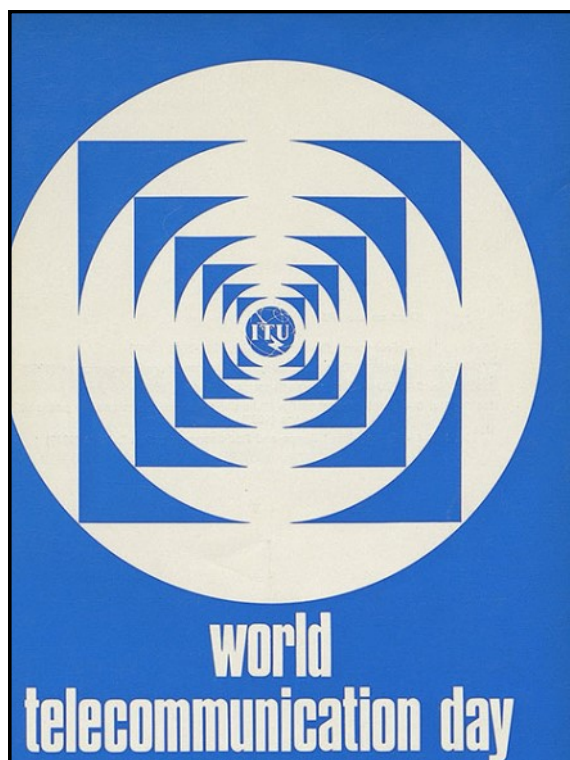
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Last year's COVID-19 cancelled Convention was to be the 71st annual Convention. The Convention has a long history. Until last year's cancelled event the convention had been held annually each year since 1949. This year was to be the delayed 71st annual convention but that honour will now go to the 2022 Convention.

For some history and photographs of past conventions visit the web site <http://users.tpg.com.au/goldy2/>.

World Telecommunication Day



World Telecommunication Day is on Monday the 17th of May 2021.

The day has been celebrated annually on **17 May since 1969**, marking the founding of ITU and the signing of the first International Telegraph Convention in 1865. It was instituted by the Plenipotentiary Conference in Malaga-Torremolinos in 1973.

In Australia the ACMA authorizes the use of the AX prefix for Amateur Radio Stations in lieu of the VK prefix on World Telecommunication Day.

Central Coast Field Day at Wyong now Mayham on 30 May 2021



This year the 63rd Central Coast Field Day which was planned for the Wyong Racecourse on Sunday the 28th of February 2021 unfortunately had to be cancelled due to the COVID-19 situation.

The Central Coast Amateur Radio Club Committee has scheduled the Mayham Field Day on Sunday the 30th of May 2021 as a replacement for this year's cancelled 28th of February Wyong Field Day. Mayham will be at the Wyong Racecourse and will be run on similar lines to the usual Wyong Field Days. However, the Field Day will have to follow the COVID-19 safety requirements that are in force on the Field Day date.

Rain is not a concern at Wyong as the entire Field Day is under cover. The Traders are accommodated in the air-conditioned semi-permanent carpeted marquee. The flea market is under cover in the breezeway that had been occupied by the Traders in past years. This arrangement is a great improvement in amenity for the respective sellers and attendees.

There are certain to be many bargains to be had from both the Traders and the Flea Market sellers.

Hopefully, a strong contingent of ORARC members will be

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able to make the journey to Mayham.

Middle Brother Mountain VK2RPM Repeater Site

The Middle Brother Mountain VK2RPM repeaters are working well although the noise floor on 2 metres is still occasionally a problem.

DMR Repeater VK2RCN 438.425 MHz at Telegraph Point

The VK2RCN 438.425 MHz DMR repeater will be on air very soon from Telegraph Point.

The club's application to participate in the ARNSW DMR expansion project was recently approved by the ARNSW Board. Thank you to ARNSW for so generously sponsoring this project. Initially ORARC was intending to wait until the new VK2RCN Telegraph Point repeater site was completed before installing the allocated Motorola DR3000 DMR repeater but due to the high level of local interest in DMR communications the Committee agreed to fast track installation of the repeater at the existing VK2RCN site.

In order to fast track installation of the VK2RCN DMR repeater the existing VK2RCN 438.425 MHz Yaesu DR-1X analog FM/C4FM digital repeater will be temporarily taken out of service and the Motorola DR3000 DMR repeater will be installed in its place using the existing UHF repeater duplexer and antenna for the DMR repeater which will operate with an output frequency of 438.425 MHz and an input frequency of 433.425 MHz.

Motorola DR3000 DMR Digital Repeater



The existing UHF repeater 12 Volt back up battery will be connected to the DMR repeater so it will continue to operate during mains power interruptions. Application has been made for a frequency assignment for the DMR repeater. When this is received the DMR repeater will change to the newly assigned frequency and the Yaesu DR-1X repeater will be restored to service on 438.425 MHz. A new duplexer and back up battery will then be provided for the DMR repeater which will utilize the existing spare UHF antenna on the VK2RCN mast.

The DMR repeater requires an internet connection. The practical solution is to use wireless data via the 4G network. A suitable high quality 4G modem has been purchased and the club has signed up to a suitable mobile data plan. Thank you to Paul Colledge VK2ICQ for procuring and setting up this equipment for the club.

The Great Lakes Amateur Radio Club already has their ARNSW provided DMR Repeater VK2RGL on 439.775 MHz on air from Cabbage Tree Mountain. Those amateurs south of Port Macquarie who are out of range of the VK2RCN Telegraph Point DMR repeater should have coverage from the VK2RGL Cabbage Tree Mountain repeater.

VK2IDL DMR High Power Hotspot in Port Macquarie



As reported in the November 2020 issue of Oxtales, Ian Lindquist VK2IDL has his high power DMR hot spot operational in

Port Macquarie transmitting and receiving on 439.325 MHz simplex. It has good

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coverage around Port Macquarie, and can also be accessed from parts of Wauchope. For more information, see Ian's article on the hotspot in November 2020 Oxtales. Users within range of Ian's hotspot are welcome to make use of the VK2IDL hotspot until the VK2RCN DMR repeater is commissioned.

Telegraph Point VK2RCN Repeater Site

The VK2RCN repeaters are all working well with the exception of the 6 metre 53.800 MHz voice repeater which is out of service pending replacement of the radio equipment and controller. It is hoped to install the new equipment soon.

The project to build an entirely new repeater site in the Red Hill area is progressing. Site works will commence once a Construction Certificate is issued. The prerequisite work to obtain certified engineering design and drawings for the mast is in progress.

The funds have been received from the successful Grant Application to the NSW Government Community Building Partnership Program to fund the greater part of the capital expenditure of the project to build the new repeater site at Telegraph Point. It is hoped that despite the various delays the 31 October 2021 Completion Deadline set by the grant can still be met.

The club is still looking to raising additional funds for the connection of underground power to the site.

Milestones

Welcome to new member Kimberly Olsen VK2KMI of Gunnedah.

Congratulations to Murray Smith VK2LAT of Rainbow Flat on attaining his Standard Licence qualifications.

Readers will be pleased that Dr Carolyn Ryan of Bellingen who was VK2FCSR has now been issued with her callsign for life

VK2CSR. Carolyn is looking forward to airing her new callsign. Carolyn VK2CSR and Gary Ryan VK2ZKT often operate portable in their travels.

Well known Werris Creek amateur, Shawn Cain who has been VK2TMO for many years now also has the callsign VK2NM. Shawn often participates in the ORARC Sunday morning nets via Echolink. Shawn regularly attends the ORARC Field Days. He has already made a booking for a site for his motorhome at the Wauchope Showground for the 2021 June Long Weekend.

Silent Key – John Bishop VK2ZOI VK2BK

It is with great sadness that we record the passing of John Bishop VK2ZOI on the 29th of January 2021. John was the President of the Hornsby and Districts Amateur Radio Club Inc.

John was well known to members of the Oxley Region Amateur Radio Club. He and his wife Dot VK2DB have attended the ORARC Field Days for a great many years where Dot has run the ALARA stand each year. John particularly looked forward the ORARC Field Day each year.

The members of ORARC join all the Amateur Radio fraternity in extending our deepest sympathy to Dot and her family.

Amateur Radio has always played a big part in John's immediate family. Not only Dot is licensed but so are several of their children.

ORARC continues to circulate the HADARC newsletter QUA on a reciprocal arrangement with HADARC who circulate Oxtales. John was very keen to set this up many years ago as he was always interested in the activities and news from ORARC. Similarly, ORARC members find the news and articles in QUA of interest.

John is very sadly

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missed from the various on air nets that he participated in. Poignantly, the weekday evening HF net that he always participated in also lost Tim Mills VK2ZTM as a Silent Key last year. Those of us still on that net are all the poorer for having lost two great ambassadors of our shared hobby.

An abridged Silent Key Vale John Bishop VK2ZOI taken from the HADARC web site is included in this issue of Oxtales.

Silent Key - Gary Johnston, Jaycar

Founder and MD

On a second very sad note, Gary Johnston, founder of Jaycar Electronics and its Managing Director, passed away on Wednesday the 10th of March 2021 aged 71 years after a short illness. He had been



diagnosed with mesothelioma two weeks earlier. The thoughts of the Amateur Radio fraternity are with Gary's family in their time of grief. Please see the media announcement on the Jaycar web site: https://www.jaycar.com.au/medias/sys_master/root/9501870522398/Media-Announcement-Mar21.pdf

Jaycar Electronics are long time supporters of the hobby of Amateur Radio. Locally, Jaycar make a donation each year towards the printing of the Oxley Region Amateur Radio Club annual calendar. As well, prizes are donated for the club's annual Field Day. All club members enjoy a trade discount when making their personal purchases in store. The Nerd Perks program for hobbyists is another practical way of encouraging

experimentation.

In the above media announcement, Jaycar CEO, Michael Newsom, advises that it is "business as usual" for the company which will continue Gary's unique legacy. The media announcement is included in this issue of Oxtales below.

Henry Lundell VK2ZHE
President



Jaycar Electronics Group – Media Announcement

The Jaycar Electronics Group announced today that its Founder and Managing Director, Mr Gary Johnston, had passed away after a short illness.

Mr Johnston founded the Retailer 40 years ago and the Group currently has 146 Jaycar and Road Tech Marine stores around Australia and in New Zealand.

Group CEO, Michael Newsom said "We are deeply saddened by Gary's sudden and untimely passing and we send our deepest condolences to his wife Kerry, Chris, Tim, Jeni and Robbie and families."

"The Group has a strong Management team in place to continue Gary's unique legacy and it is business as usual as we remember Gary and all he has achieved, not only in retailing but in his many other pursuits and philanthropic interests" Mr Newsom said.

*Michael Newsom
CEO
Jaycar Electronics Group*



John Bishop



It is with great sadness that we share the news that John Bishop VK2ZOI (VK2BK), long-time President of Hornsby And Districts Amateur Radio Club (HADARC), became a silent key in the early hours of Friday, 29th January 2021.

John sadly lost his battle with metastatic melanoma, which was only diagnosed in early December. While suffering through his medical treatment, John withdrew from regular radio operations, although he was able to concentrate on both HADARC matters and the transition of stewardship.

In his final days, he recalled fond memories of family and friends, and in his final over, John spoke of the radio club that was such an important part of his life. John was particularly proud of the teamwork club member displayed at the very successful Wireless Centenary event held just outside Sir Earnest Fisk's home in Wahroonga on the 22nd September 2018.

John was in his 50th year as an Amateur Radio Operator, and joined the Wireless Institute, NSW Division on 27th July 1962,

58 years ago. While only 75 years of age, he may have been an OM but was definitely not an old man.

John began his working life as a young 17-year-old trainee at Amalgamated Wireless Valve Co, North Ryde, in Jan 1963 in the "Semiconductor Section" where he qualified as a technician. He later became a Technical Officer in the "Receiving Valve Section". John eventually gained a degree in Electrical Engineering and worked in the specialist area of the "Power Valve and Special (CV) Valve Section". John was astute enough to see the writing on the wall for AWV, and left in August 1975.

John then moved on to The Department of Defence where he held various positions in Defence - (Navy) Chief Armament, Superintendent Navy Armament Engineering (Naval Support Command), Regional Director Defence Quality Assurance (NSW), and finally, before retirement, Regional Director Defence Acquisition Office Sydney.

It was during this time John began a life-long friendship with Tony VK2BTL.

John has also been actively involved in Hornsby Seniors. He became the Public Officer for Hornsby Seniors and was their go-to-guy when it came to anything involving technology for the group.

Back in 1977, John was involved with establishing training and education courses for those interested in becoming amateur radio operators. As this early intake of students was quite large, John was also among our early trainers. He even encouraged Dot to sit for and successfully obtain her Novice licence. John was also instrumental a few years later in getting three of his sons into amateur radio - Ben and Roger via the Foundation licence and Peter via the Advanced licence.

John remained in the training role into the mid 80s and then continued his activities on the HADARC committee,

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ultimately being appointed HADARC's President. John held the position of President very close to his heart throughout his entire presidency, something that can be clearly seen with some of his last words concerning the club.

Over the last 30 years as President, John's has stamped his vision on HADARC, which has both been stable and very involved with all aspects of Amateur Radio. One of the other reasons John enjoyed being President was that he was able to continue to use the managerial skills that he developed during his working life in dealing with various official bodies (Hornsby Council being just one of many examples, hi-hi!)

John was definitely one of a kind. Apart from being an extremely keen amateur radio operator that participated in numerous radio nets during the week, he also participated in nearly every HADARC net, including running his share of nets and encouraging club members to participate in nets online via Jitsi. His large boots will be very hard to fill, and his absence leaves a hole in all our hearts.

John leaves behind his loving YL, Dot VK2DB, who he married on Boxing Day 1966, as well as four sons, many grandchildren, and a legacy of many home-built Flowerpot antennas, not only in Australia but around the world.

John's Funeral was held on Friday the 12th of February 2021 in the Magnolia Chapel at Macquarie Park Cemetery and Crematorium in Sydney. The funeral was held in accordance with the COVID-19 safety requirements applicable at the time.

Sandy Brucesmith VK2WH represented the Oxley Region Amateur Radio Club at the service.

**Vale John Bishop, VK2ZOI / VK2BK
(12th Oct 1945 – 29th Jan 2021)**

The full Silent Key is available on the HADARC website

<https://www.hadarc.org.au/vk2zoi.html>



Hornsby And Districts Amateur Radio Club (HADARC). Some highlights of John's Working Life from the HADARC website.

1963 – 1975 Amalgamated Wireless Valve Company

Participated in the company trainee scheme whilst undertaking the Electronics and Communications Certificate with the NSW Department of Technical Education

Apr 1971 – Sep 1975 -- Engineer AWA

1975 – 2001 Department of Defence

Sep 1975 - June 1978 -- Engineer Class 2

June 1978 - Dec 1978 -- Acting Engineer Class 3Dec

1978 - Dec 1979 Seconded to Ministry of Defence Procurement Executive, UK

1979 - Naval Ordnance Quality Assurance Course (Dux of course), Royal Military College of Science, Shrivenham, Wiltshire, UK

Dec 1979 - May 1981 -- Engineer Class 2
Responsible for the Naval Ordnance Electronics Laboratory and Technical Support Section

May 1981 - May 1987 -- Engineer Class 3
1982 - Completed with distinction the Naval Staff Course at RAN Staff College, HMAS Penguin

May 1987 - Aug 1988 -- Engineer Class 4, Navy Armament Engineering Service Headquarters

Aug 1988 Acting Superintendent Navy Armament Engineering Function head of the Navy Armament Engineering Service within the Naval Support Command. Directed the Headquarters and Regional Armament Engineering Service organisations in Sydney, Melbourne, Adelaide, and Perth.

1990 – Quality Assurance Manager

Dec 1991 - promoted to Engineer Class 5, Defence Logistics Division

1996 – Acquisition Manager
Director of Defence Acquisition Regional Office (NSW), Defence Quality Assurance Organisation

2000 – transferred to Support Command Australia

2001 – Retired

ORARC Members Meet Again Face to face (subject to COVID Restrictions)

Club Members took the opportunity to meet face to face for the first time since March 2020 and enjoyed the February monthly meeting and also a Friday night get together as can be seen in the following photographs.



Henry VK2ZHE in the chair with Arthur VK2ATM listening in the background.

Clockwise round the table Dave VK2AYD, Rob VK2CRF, Larry VK2CLL, John VK2KHB, Bob VK2BIG, Larry VK2LJT, Dennis VK2DAM, Paul VK2ICQ, Ian VK2IDL and Sandy VK2WH



Below Peter VK2MPK with Dennis VK2DAM, Paul VK2ICQ and Ian VK2IDL

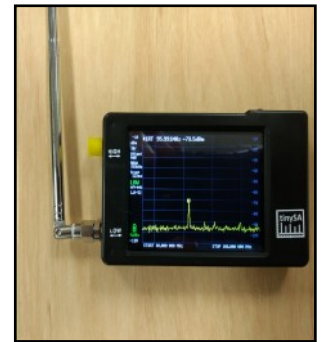


Raffles were back, David VK2AYD draws the first of the new draw from Dennis VK2DAM with Rob VK2CRF, Larry VK2CLL and Bob VK2BIG watching.

That's one of the largest 'Flower Pot' antenna that the club has seen!

Henry VK2ZHE gratefully accepts the 6m antenna from Sandy VK2WH to be part of the major field day raffle.

Below Larry VK2LJT observes social distancing. Far from the 'maddening crowd!'"



A Friday night get together and a show and tell of some new toys. Above a small spectrum scope and System Analyser.

Continued on next page

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Bob VK2BIG shows off a large and beautifully presented new acquisition.

Below who is that masked rider?



Above right Ian VK2IDL demonstrates his DMR radio that may be easily moved and also mounted for mobile operation in a vehicle.

Working Bee at New TX site at Telegraph Point

Story and photographs by Dennis VK2DAM

Recently few members went up to the new Tx site at Telegraph Point to move a large log that had fallen onto the fire trail preventing easy access to the site.

A Geo Tech Company will need easy site access to take core sample required as part of developing an engineering certificate which is requires to enable construction of the Tx facility to begin later in the year.

Dennis Meade VK2DAM along with Arthur VK2ATM, Ian VK2IDL met up with Larry VK2CCL and Rob VK2CRF to move the log.

Larry and Rob had brought chainsaws to

help cut up then remove the offending log.

The work was done during a break in the rain, though you may notice that Ian was dressed for a more sunny day!

The log was cut then moved to one side using Larry's ute, job complete, now for part of the next phase to begin!



Right; Larry VK2CCL makes the first cut watched closely by Arthur

VK2ATM and Rob VK2CRF below.



Good supervision is the key to success as can be seen in the photo at the left and below!

Rob VK2CRF and Ian VK2IDL



Success and the job safely completed allowing the Geo Tech Company to eventually access the proposed repeater site.

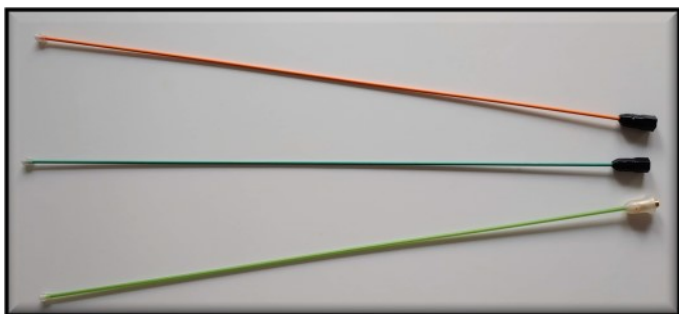
Would you be interested in a high-performance handheld antenna for just US\$20 (A\$26)?

By Paul VK2ICQ

What if I told you the antenna in question is also lightweight, near indestructible, and has a lifetime warranty?

Not only that, but it's also available in a range of colours including glow-in-the-dark (which, I'm told, is good for another 10db gain* (see footnote) and all of the profits from antenna sales go to an organisation that helps budding US Hams obtain their licences.

I'm talking about the "Super-Elastic Signal Stick" from the US based organisation Signal Stuff.



Signal Stuff is owned by Richard KD7BBC who started making antennas as fundraisers for a ham radio youth group. His antennas have always been based on the traditional $\frac{1}{4}$ wave piano wire design and ongoing demand for the antennas has seen Richard improve the design dramatically over the years.

One of the defining characteristics of the current antenna (and one of the things responsible for its amazing durability) is the use of Nitinol super-elastic wire in its construction. Nitinol (Nickel-Titanium) is known for its "shape memory" – you can deform it 10-30 times as much as other ordinary metals and it'll bound right back into shape. I think you can see where this would be handy with a handheld whip!

Dual-band high performance antennas, by



nature, must be long. The use of Nitinol however means that you can coil the antenna up for transportation and simply unravel it when you're ready to transmit (see above photograph).

Anecdotal reports seem to indicate that the antenna still functions well on receive when coiled up – meaning you can hike with a HT on your hip without a long antenna constantly thwacking you in the side. I'm not sure I'd want to see the radiation pattern should you choose to transmit with the antenna in a



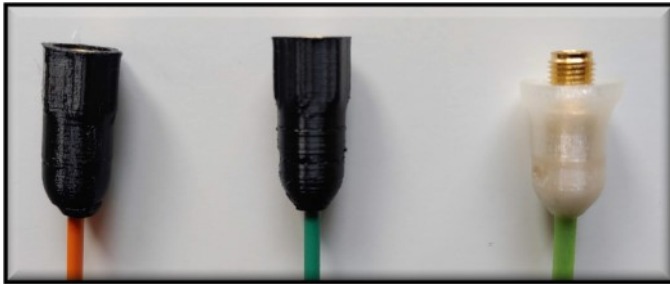
coiled-up state!

The antennas are available in 3 versions. Primarily of interest to us would be the dual-band version which is a $\frac{1}{4}$ wave on 2m and $\frac{3}{4}$ wave on 70cm, making it 48cm in length. Should you be running a UHF only Handheld (MD-380/390 owners?) there is also a 70cm only $\frac{1}{4}$ wave version that's 15cm in length. Of no interest to us at all (unfortunately) is the 220Mhz version, so I simply shan't mention it!

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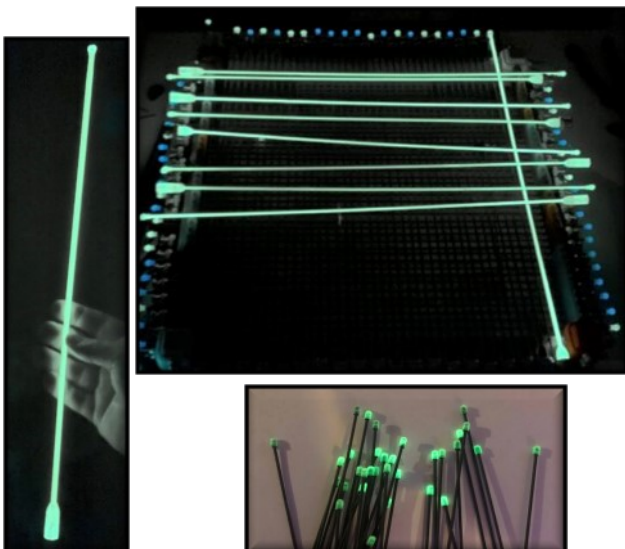
The antennas are also available with 3 bases – SMA Male for most HTs from the big three, SMA Female for many Chinese HTs and the odd Yaesu / Kenwood plus BNC



for, ummm, old radios?

All the antennas are hand-made with the use of 3D printing technology for the SMA bases, so the website is quite forward about the aesthetics being imperfect. I have 3 antennas and whilst it's clear that 3D printing was used in their construction the quality of the antenna bases is excellent. The bases also tend to just blend in once you attach them to a HT, so unless you're pickier than I am (and I'm picky) this shouldn't be a concern.

Colour choices are also vast - choose from Black, Silver (clear), Yellow, Orange, Red, Green, Blue, White, Brown, Violet, Pink (for your XYL?) and the aforementioned glow-in-the-dark, where even the 3D printed base is made from glow-in-the-dark plastic. All antennas (regardless of colour) have glow-in-the-dark tips. I have one of the glow-in-the-dark models – its luminescence is impressive!



My very unscientific tests (consisting of repeater kerchunking) shows (anecdotally) that the antenna outperforms the near similarly sized and well respected Comet SMA-24 (which in turn significantly outperforms all factory rubber ducks). A little bit of digging through YouTube and eHam shows many happy campers who also confirm the antenna's dominance (in more scientific tests) over other high-performance stablemates like the Diamond SRH77 and the various 'tactical' fold out antennas such as the Abbree pictured below.



SWR is reported to be as low as 1.3:1 at 146Mhz and 1.5:1 at 440Mhz for the dual-band version. Richard goes into detail in the website's FAQ regarding the difficulty involved with measuring SWR on HT Antennas. I'll let the more brilliant RF techs battle that one out, but he (and many reviews) indicate that the antenna has been sized to work consistently well in real-world situations.

My three antennas with postage and a quantity discount came to US\$86 (the coloured antennas are US\$23 and the glow-in-the-dark is US\$26.50 without quantity discounts). Postage was just over US\$17 via GlobalPost which offers tracking and a 2-week delivery time. My total PayPal invoice was just over A\$116 - A\$38 per antenna landed.

If you would like to get yourself one head on over to <https://signalstuff.com/>.

*Yeah, it's not.

The Phonetic Alphabet Old and New

Amateur Radio operators should be proficient in the use of the phonetic alphabet. In past years there have been various versions of the phonetic alphabet. These had their origins in military and aviation communications. Since 1956 most of the world has standardised on the NATO (North Atlantic Treaty Organisation) and ICAO (International Civil Aviation Organisation) version.

Below is a table of how the present day ICAO Phonetic Alphabet evolved. Thankfully, the 1951 proposal was dropped in favour of the 1956 version that was adopted. Thanks to the Airways Museum for the following table:

<http://www.airwaysmuseum.com/Phonetic%20alphabet.htm>

Letter	till 1 March 1956	ICAO November 1951 proposal	post 1 March 1956
A	Able	Alpha	Alpha
B	Baker	Bravo	Bravo
C	Charlie	Coca	Charlie
D	Dog	Delta	Delta
E	Easy	Echo	Echo
F	Fox	Foxtrot	Foxtrot
G	George	Golf	Golf
H	How	Hotel	Hotel
I	Item	India	India
J	Jig	Juliett	Juliet
K	King	Kilo	Kilo ('keelo')
L	Love	Limo	Lima ('leema')
M	Mike	Metro	Mike
N	Nan	Nectar	November
O	Oboe	Oscar	Oscar
P	Peter	Papa	Papa
Q	Queen	Quebec	Quebec ('kweebeck')
R	Roger	Romeo	Romeo
S	Sugar	Sierra	Sierra
T	Tare	Tango	Tango
U	Uncle	Union	Uniform
V	Victor	Victor	Victor
W	William	Whiskey	Whiskey
X	X-ray	Extra	X-ray
Y	Yoke	Yankee	Yankee
Z	Zebra	Zulu	Zulu

The NATO/ICAO phonetic alphabet has now been in use for 65 years but many Amateurs colourfully still use phonetics from previous versions. We often hear reference to “Queen Sugar Baker” for QSB for example.

Prior to the 1956 adoption of the NATO/ICAO phonetic alphabet there were several different phonetic alphabets apart from the pre 1956 ICAO version in use by various communicators. Remnants of some of these can still be heard on the Amateur Bands. For example, “Zanzibar” for the letter “Z”, “Honolulu” for the letter “H” and “England” for the letter “E” stems from the phonetic alphabet that used names of countries.

The Aviation Museum has a number of audio and video files that can be downloaded if you would like to hear the pre 1956 ICAO phonetic alphabet in use:

Listen to the early phonetic alphabet in action in Essendon Tower in an excerpt from an interview of Air Traffic Controller Jack McCubbin by Norman Banks of radio station 3AW c.1950 (555 KB MP3 file).

Download a Movie Clip: A Position Report, 1950s-style, using the old phonetic alphabet (various size and format files).

Contributed by Henry Lundell VK2ZHE



Equipment from the Past

Yaesu FT-817



FT-817 Multi-mode Portable Transceiver

Yaesu introduced the FT-817 in 2001 as *'The world's first self-contained, battery-powered, Multi-mode Portable Transceiver covering the HF, VHF, and UHF bands'*. The original retail price was from \$700 US depending upon options. An update was introduced in 2004 the 817ND. Surprisingly the radio was still in production in 2021 and has only recently been replaced with a similar updated model the FT 818.

Yaesu broke new ground with the introduction of the FT-817 HF/VHF/UHF self-contained battery-powered Multi-mode Portable Transceiver which provided up to five watts of power output. The FT-817 was designed for operation on the 160-10 meter HF bands, plus the 6 meter, 2 meter, and 70 cm bands.

Modes included SSB, CW, AM, FM, Packet, or SSB-based Digital modes such as PSK3. The FT-817 ND released in 2004 also included coverage of the U.S. 60-meter (5 MHz) band, and a 1400 mAh NiMH Battery pack (FNB-85) and NC-72B Charger.

Early FT-817 Radios were prone to problem of PA oscillation when the internal battery pack dropped below 6V. This was due to the battery pack always being connected to the PA module. The result was that the oscillation damaged the PA transistors. The introduction of the FT-817ND model apparently corrected this problem; although owners were advised to remove the internal battery pack if the unit was to be stored for a lengthy time.

The FT 817-ND became very popular with amateurs as a QRP set and their ability to drive high frequency transverters and power amplifiers without overpowering front ends. Their low weight made them especially useful for back pack portable operations and use for activating SOTA sites (Summits On the Air) and in use in outdoor activities.

Accessories for the FT-817 include 'cranker knobs' for easier tuning and operations, radio stands, additional CW and SSB filters, Antenna tuners and a variety of 3rd party backpacks and carrying options some examples are displayed below.



New FT-818 can be purchased from just over \$1,100 depending upon options and second hand FT-817's found on ebay under \$600 depending upon condition.

Acknowledgements; <https://www.eham.net/>, <https://www.yaesu.com/> <https://swling.com/>



WIA online events calendar



Date : 05 / 03 / 2021

Author : Robert Broomhead - VK3DN

In October 2020, for reasons unknown, the online calendar package which had been integrated into the WIA website some time ago, ceased to function. Upgrading to the latest version of the package didn't cure the problem, and it appears the developer may no longer be maintaining the package.

As a result, a replacement calendar package has been developed that looks fairly identical to the previous one. All previously approved events have been migrated to the new system. Behind the scenes, the processes are now more automated. This should significantly reduce event approval times, and reduce the effort involved. There are significant improvements that will benefit users. There is now the ability to download an iCal file for an event and add it to your calendar. You can also subscribe to the events calendar from your calendar software to have a constantly updat-

ed view of events in the calendar. Details on how to do this are on the About page.

The COVID-19 crisis has put a big dampener on events, but we are beginning to emerge from that phase. Please consider submitting your events to the online calendar. It is a good form of free advertising for your event. It is available to all clubs and amateurs, not just WIA members.

Marc Hillman (VK3OHM)

Notice of Order of Names on Ballot paper for 2021 election of Directors.



Date : 24 / 02 / 2021

Author : John Marshall - WIA Returning Officer

In accordance with regulation 5(d) of the Wireless Institute of Australia Regulations for Postal Ballot of the election of Directors, on 15 February 2021 at 5 p.m. I conducted a draw of names to ascertain the order of appearance of names of nominees for director.

The order of names appearing on the Ballot Paper shall be as follows:

1. Peter Schrader.
2. Peter Dernikos
3. Greg Kelly
4. Steven Green
5. Peter Clee
6. Chris Dimitrijevic
7. Scott Williams
8. David Uzzell

Members are asked to vote for a maximum of 4 nominees by striking out the names of
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nominees not voted for, and returning their vote in the envelope provided before 27 March.

Members are requested to attend to voting promptly due to apparent lengthy delays in postal delivery times.

John Marshall
WIA Returning Officer 2021 Election of Directors.

WIA ACMA Consultation



Date : 24 / 02 / 2021
Author : Lee Moyle - VK3GK

The Australian Communications and Media Authority (ACMA) have commenced a "Review of non-assigned amateur and out-post regulatory arrangements – consultation 01/2021". In the consultation, the ACMA has stated the objective of the review is:

"to identify the best licensing mechanism that would reduce regulatory burden and minimise costs for licensees, while preserving the current operational utility for licensees. The review is examining whether the existing licensing framework best achieves the objective or whether it could be better met through alternative licensing arrangements"

In undertaking this review, the ACMA has proposed three options for public consideration.

The WIA has reviewed the paper and con-

ducted an analysis of the opportunities and risks each option poses to the operation of the amateur and amateur-satellite services in Australia. The major items for consideration follow:

Option A: keep the existing apparatus licensing arrangements with the same licence conditions.

Option B: simplify the current licensing arrangements and licence conditions by amending the Radiocommunications Licence Conditions (Amateur Licence) Determination 2015 (Amateur LCD).

Option C: transition to class licensing arrangements for amateur stations operating on common frequencies (non-assigned amateur stations). The operation of amateur beacon and repeater stations (assigned amateur stations) would continue to be authorised under apparatus licensing arrangements, possibly with new arrangements for frequency coordination and assignment. The WIA board in consultation with the WIA Spectrum Strategy Committee have analysed the proposal, and has carefully considered the opportunities and risks it presents to the amateur service in Australia. We are now presenting our findings to members and the wider amateur service community and are inviting feedback on our findings and recommendations at this time that the WIA can then take into account when formulating our final submission to the ACMA.

To help with the feedback process, the WIA has presented two poll questions for consideration. The poll will be shortly open, and will be open for two weeks. The WIA then intends to publish its findings and will provide information and assistance at that time on ways you can support the WIA's position presented to the regulator.

Your input will be important in shaping our final direction.

Blast from the Past

Blast from the Past' is the section of Oxtales where we reflect on what the club was doing in years gone by. This months 'Blast' is taken from the 2016 March edition of Oxtales.

In March 2016, Lyle VK2SMI was President, Richard VK2CHC Vice President, Secretary Henry VK2ZHE and Larry VK2CLL Treasurer. The club had 67 financial members.

The main activities reported on were: The Antenna Shoot Out, Wyong Field Day, Repeaters and the Summer VHF field day.

It was decided that VK2RCN 70cm would receive an upgrade to a Yaesu C4FM repeater as Yaesu were offering a hard to beat rebate of \$900 making the upgrade cost of the repeater purchase only \$850.

The following was the report from Lyle VK2SMI on the VHF/UHF field day.

'The Summer VHF/UHF Field Day was on the 9th January and as usual the Clubs Communications Caravan was setup at John Downes Park, towed by Barry VK2LBG. I arrived shortly before the van after picking up antennae from Bill VK2ZCV's QTH to be used for the day. As usual we set up 3 antennae for 2 and 6 metre and 70cm's for the Field Day and several contacts were made prior to the start time while we enjoyed bacon and egg rolls cooked on the BBQ by Richard VK2CHC with the assistance of several members. 11 contacts were made for a total of 8646 points and as of this time of writing we are third in our division. Members attending were Henry VK2ZHE, Mark VK2FMGM, Arthur VK2ATM, Bill VK2ZCV, Rob VK2CRF, John VK2AYQ, Peter VK2MPK, Craig VK2ZCM, Jim VK2FJKD, John VK2KC, Paul VK2ICQ, Stuart VK2FSTU, Paul VK2UPR'.



Part of the crew enjoy a chat and break

*Lyle VK2SMI,
Barry VK2LBG,
Mark*

VK2FMGM and Peter VK2MPK



Antennae and Club's Communication's caravan set up for the event.



Richard VK2CHC Chief cook in a familiar pose

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Below is an abbreviated part of the Antenna Shootout.

'The Antenna Shootout held on the 14th of February was attended by 11 members but only 7 antennae were submitted for the shootout. The Clubs Communications Caravan arrived a bit after 8:30 towed by Peter VK2MPK giving us a place to setup our receiving station consisting of a spectrum analyser supplied by Arthur VK2ATM, logging computer and software by Lyle VK2SMI and John VK2KC's purpose built antennae setup, the transmitter was setup in a portable gazebo supplied by Henry VK2ZHE 100 metres across the sports field with transmitters, batteries, mast and all the other gear required. While all this was being setup Richard VK2CHC was busy cooking bacon and eggs for the breakfast component on the event, timed nicely with the finalisation of the setup we enjoyed our breakfast and with that out of the way around 9:30am we started testing one antenna after another. 90 minutes later the results were in and these can be seen immediately below.

Members attending the day were Paul VK2ICQ, Paul VK2UPR, Larry VK2CLL, Mark VK2FMGM, Craig VK2ZCM.'



The A team Craig VK2ZCM, Larry VK2CLL, Lyle VK2SMI, Richard VK2CHC, Paul VK2UPR, Arthur VK2ATM, John VK2KC and Peter VK2MPK



Lyle VK2SMI and Arthur VK2ATM at the receiving end. Checking performance with Arthur's spectrum analyser.

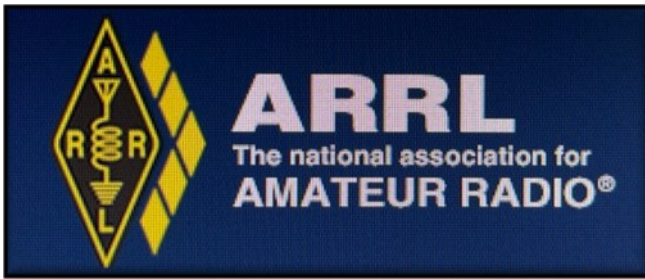


Above The Club's Communication Caravan in position with receiving antennae

Left John VK2KC setting up the "firing" antennae



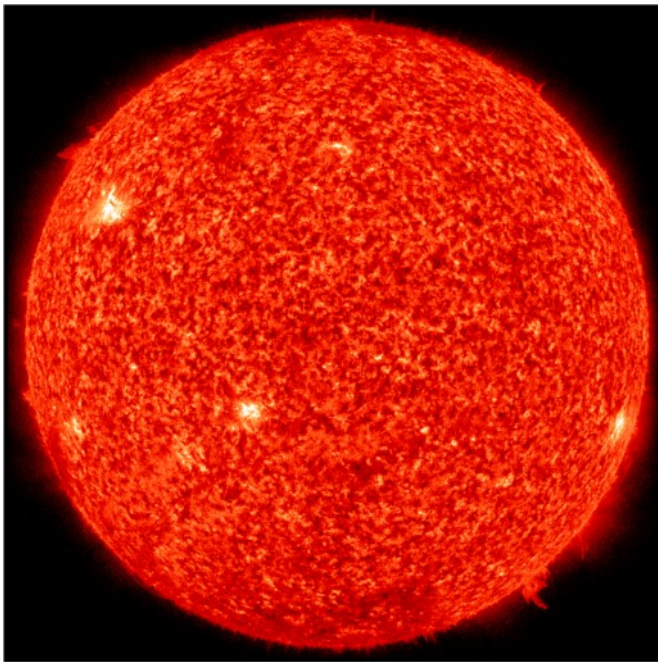
Above Henry VK2ZHE regaling the crew with an interesting anecdote.



The American Radio Relay
League (ARRL)

The K7RA Solar Update

03/19/2021



Tad Cook, K7RA, Seattle, reports: Average daily sunspot numbers this week rose just a little, from 18.4 to 19, and average daily solar flux edged up from 78.9 to 78.1. Solar activity remains low.

The vernal equinox, (the first day of spring in the northern hemisphere) occurs at 0937 UTC on Saturday, March 20. That's when the southern and northern hemispheres will be bathed in approximately equal amounts of solar radiation, which has a positive effect of HF propagation.

On March 17 – 18, the daily sunspot number was only 12 on both days, but the total sunspot area rose from 50 to 200 micro hemispheres. Sunspot area was last at this level on February 25. The Space Weather Prediction Center (SWPC) offers daily statistics on daily sunspot area, sunspot numbers, and solar flux.

Average daily planetary A index rose from 7.6 to 10.3, and average daily middle-latitude A index increased from 6.1 to 7.3. Solar wind on March 14

drove the planetary A index to 25, and Alaska's College A index was 37.

On Wednesday March 17, Spaceweather.com warned that minor geomagnetic unrest was expected on March 18, due to a co-rotating interactive region that would disturb our magnetic field. "CIRs are transition zones between fast and slow-moving solar wind streams. Plasma piles up in these regions, creating shock-like density gradients that often do a good job sparking auroras," Spaceweather said.

On March 18 Spaceweather.com reported, "NOAA forecasters say that a minor G1-class geomagnetic storm is likely on March 20 – 21 when a stream of high-speed solar wind hits Earth's magnetic field. The gaseous material is flowing faster than 600 kilometres/second from a southern hole in the sun's atmosphere."

The latest forecast from the US Air Force Space Weather Squadron predicts solar flux at 72 on March 19 – 21; 70 on March 22 – 26; 76 on March 27; 76 on March 27; 75 on March 28 – April 1; 78 on April 2 – 3; 70, 74, 76, and 72 on April 4 – 7; 71, 72, and 70 on April 8 – 10; 71, 72, and 71 on April 11 – 13, and 73, 76, 75, and 76 on April 14 – 16. Solar flux is expected to hit a high of 81 on April 19.

From Amateur Radio Newline EARTHQUAKE STUDIES EMPLOY AMATEURS' WINLINK

DON/ANCHOR: In our top story for this week, a United States government agency is relying increasingly on amateur radio operators to further their understanding of devastating earthquakes. Ralph Squillace KK6ITB gives us the details.

RALPH: Ham radio operators are partnering with the U.S. Geological Survey in helping to report realtime details about seismic activity and earthquake damage, especially when other means of communication have gone offline: They're using the radio email platform Winlink to carry data from the survey's questionnaire-based system known as DYFI, for "Did You Feel It?"

ARES members transmit the DYFI reports even if an earthquake has knocked down the region's internet. Receiving stations outside the earthquake region receive the data contained in the Winlink transmission and forward it to the USGS via their own internet access. The DYFI system gathers macroseismic intensity data, allowing scientists to more accurately pinpoint where people felt the earthquake and at what intensity. Researchers also rely on the reports' data to further their general study of earthquakes.

MEMBERSHIP REGISTER

Membership List as at 20, March 2021

No.	Cat	Surname	Given Name	Spouse	Call	Location	Phone
1	O	BAILEY	JOHN	(FLORENCE)	VK2KHB	PORT MACQUARIE	02 6582 2192
2	D	BAYLISS	KEITH	(DEBBIE)	VK2FPTL	COOPERNOOK	0478 606 464
3	D	BLACKMORE	MARK	-	VK2XOF	BAULKHAM HILLS	02 9639 0663
4	L	BLYTH	BOB	-	VK2XIQ	TELEGRAPH POINT	-
5	O	BREWSTER	DAVID	-	ZL3DS	LAKE CATHIE	0407 749 748
6	D	BRICE	GRAHAM	(CYNTHIA)	VK2VW	SCONE	02 6545 0411
7	O	BRUCESMITH	SANDY	(KAY)	VK2WH	PORT MACQUARIE	0435 356 466
8	D	CAMPBELL	JAMIE	-	VK2YCV	HAMILTON	0418 628 321
9	O/F	COLLEDGE	PAUL	(PAULA)	VK2ICQ	PORT MACQUARIE	02 6580 9912
10	O/F	COLLEDGE	PAULA	(PAUL)	VK2PDC	PORT MACQUARIE	02 6583 8829
11	O	COOPER	GORDON	(GLENDA)	VK2GFC	LAKEWOOD	02 6559 6502
12	O	COURT	RICHARD	(LINDA)	VK2CHC	PORT MACQUARIE	02 6581 5658
13	D	DORAHY	ALEX	(ANNE)	VK2HBF	TOORMINA	0400 849 098
14	O	ECCLESTONE	BOB	(DIANA)	VK2ZRE	KEMPSEY	0419 414 412
15	D	EKERT	BRUCE	(YULIA)	VK2EM	FORSTER	0414 532 496
16	O/F	FLETCHER	CAROLINE	(PETER)	VK2CFZ	PORT MACQUARIE	02 6584 5191
17	O/F	FLETCHER	PETER	(CAROLINE)	VK2HPF	PORT MACQUARIE	02 6584 5191
18	O	FROGGATT	DARREN	(KRISTY)	VK2MIA	PORT MACQUARIE	0488 01 8102
19	O	FROST	ROBERT	(SUSAN)	VK2CRF	PAPPINBARRA	02 6587 6129
20	D	GARLAND	JOHN	-	VK2CJG	JEWELLS	02 4948 1950
21	O	GILSON	BARRY	(FAY)	VK2LBG	PORT MACQUARIE	02 6583 8814
22	L	GREEN	LEWIS	(PAMELA)	ex-VK2AG	PORT MACQUARIE	02 6584 9162
23	O	HALL	RICHARD	-	VK2BXO	PORT MACQUARIE	02 6582 6588
24	O	HANSEN	JOHN	-	VK2AYQ	PORT MACQUARIE	0427 407 973
25	L	HARDING	DAVID	-	VK2AIF	WAUCHOPE	02 6586 1947
26	D	HARPER	JOHN	(VIVIANE)	VK2LJ	VICTORIA	0417 254 763
27	D	HIRSCHEL	ALLAN	-	VK2OK	DOUBLE BAY	0415 259 777
28	D	HUTCHESSON	COLIN	(PAULINE)	VK5DK	MT. GAMBIER	08 8725 5527
29	D	JANES	LES	(BEVERLY)	VK5JL	SALISBURY HEIGHTS	08 8281 3878
30	D	JOHNSON	STEVE	-	VK2SJJ	BELLINGEN	0466 334 626
31	O	JONES	PAUL	(SANDRA)	VK2DEL	PORT MACQUARIE	02 6584 3772
32	D	KEIR	ANDREW	(BARBARA)	VK2AAK	DARAWANK	02 6554 3498
33	O	KOPPEL	HORST	-	ex-VK2FHKO	LAKE CATHIE	02 6585 5992
34	O	KUCERA	PETER	-	VK2MPK	WAUCHOPE	0429 229 290
35	L	LINDSAY	LARRY	(PENNY)	VK2CLL	HUNTINGDON	02 6587 1155
36	O	LINDQUIST	IAN	(BERNADETTE)	VK2IDL	PORT MACQUARIE	0414 419 462
37	L	LUNDELL	HENRY	-	VK2ZHE	PORT MACQUARIE	02 6582 0534
38	D	MACNAUGHTON	JENNY	-	VK2BA	MUDGE	02 6372 4053
39	O	MCDONAGH	JOHN	(KARIN)	VK2VY	PORT MACQUARIE	02 6582 0020
40	O	MARE	HANS	-	VK2MRK	PORT MACQUARIE	02 6582 7080
41	O	MARTIN	CRAIG	(JENNY)	VK2CSM	SANCROX	02 6585 3452
42	D	McADAM	PETER	-	VK2EVB	COFFS HARBOUR	-
43	O	McGUIRE	MARK	-	VK2FMGM	PORT MACQUARIE	02 6583 8875
44	O	McLEAN	JOHN	(CORRINE)	VK2KC	PORT MACQUARIE	02 6584 6220
45	O	MEADE	DENNIS	(SUE)	VK2DAM	PORT MACQUARIE	02 6582 2998
46	D	MEEHAN	TERRY	-	ex-VK2KL	KEMPSEY	-
47	D	MELVILLE	STUART	-	VK2KSM	NORTHERN RIVERS	0419 043 316
48	O	MESSINA	TOBY	-	VK2XTX	PORT MACQUARIE	0417 293 377
49	L	MONCK	ARTHUR	-	VK2ATM	PORT MACQUARIE	0459 679 425
50	O	MULLINS	RAY	(LYNNE)	VK2JU	PORT MACQUARIE	0432 559 400
51	O	NEWHAM	LAURIE	(ROBIN)	VK2ELN	PORT MACQUARIE	02 6583 5387
52	D	NIVEN	TREVOR	(BETH)	VK5NC	MT. GAMBIER	08 8723 2432
53	D/F	O'BRIEN	GRAHAME	(JUDY)	VK2FA	CARDIFF	02 4954 8688
54	D/F	O'BRIEN	JUDY	(GRAHAME)	VK2HZV	CARDIFF	02 4954 8688
55	D	OLSEN	KIMBERLY	-	VK2KMI	GUNNEDAH	04 5515 5798
56	D/F	PETTET	JOHANNA	(STEVEN)	VK2FJMM	ILARWILL VIA MACLEAN	02 6645 5290
57	D/F	PETTET	STEVEN	(JOHANNA)	VK2ZVG	ILARWILL VIA MACLEAN	02 6645 5290
58	L	PILLEY	DAVID	-	VK2AYD	KING CREEK	02 6585 2647
59	O	PISANI	VIC	(MEREDITH)	VK2UVP	BONNY HILLS	02 6584 8361
60	D	PRATT	PETER	-	VK2PX	PENNANT HILLS	0418 965 962
61	O	RAE	THOMAS	-	VK2ATR	PORT MACQUARIE	-
62	D	RAY	ROBERT	-	VK2ZWZ	SINGLETON	0412 573 861
63	D	ROMAINE	PAUL	-	VK2UPR	PORT MACQUARIE	0428 466 075
64	O	SANDERS	BILL	(SUELENE)	VK2FWHP	REDBANK	0437 004 228
65	O	SMALL	ROBERT	(LYNN)	VK2BIG	LAKE CATHIE	02 6584 8148
66	D	SWINDLEY	RON	-	VK2DDQ	KEMPSEY	0417 299 397
67	O	SMITH	LYLE	(JEANNINE)	VK2SMI	WAUCHOPE	02 6585 2497
68	D	SMITH	MURRAY	(MARGARITA)	VK2LAT	RAINBOW FLAT	0423 781471
69	D	SMITH	STEVE	(HELEN)	VK2IS	RAWDON ISLAND	0404 612 126
70	O	SOUTHWELL	IVAN	-	VK2IJS	PORT MACQUARIE	0439 611 452
71	O	TERRY	COL	(KATHLEEN)	VK2LCT	YIPPIN CREEK	0429 002906
72	L	THATCHER	TREVOR	-	VK2TT	WAUCHOPE	02 6585 2278
73	D	THOMPSON	DES	(BETTY)	VK9FLHI	LORD HOWE ISLAND	02 6563 2152
74	O	THOMPSON	LARRY	(KATHLEEN)	VK2LJT	TUNCURRY	02 6555 7994
75	D	THRING	HAYDEN	-	-	TEMAGOG	0435 287227
76	O	WALKER	BRUCE	(GWEN)	VK2HOT	PORT MACQUARIE	02 6583 8360
77	D	WALKER	STUART	-	VK2BMX	BEECROFT	02 9869 0515
78	D	WALSH	STUART	(JENNIFER)	VK2WAL	TUNCURRY	0409 531 310
79	O	WARD	MICHAEL	(SEREENA)	VK2FMDW	PORT MACQUARIE	0418 291 276
80	O	WINCHESTER	JOHN	(PAULINE)	VK2NJJ	PORT MACQUARIE	02 6580 3031
81	O	WYNN	STEPHEN	(LYALLE)	VK2ZSW	YIPPIN CREEK	02 6585 3327
82	D	YORSTON	ROBERT	-	VK2CAN	ROSEVILLE	02 9426 3727

Cat Key : A = Associate D = Distant F = Family L = Life O = Ordinary