

WESTERN AND NORTHER SUBURBS AMATEUR RADIO CLUB VK3AWS

WANSARC NEWS

This edition produced by
Mark VK3PI



WIA Affiliated Club

Jan-Feb 2017

2017—IT JUST GOT BETTER

Yes, it's official!

The club has a new home!

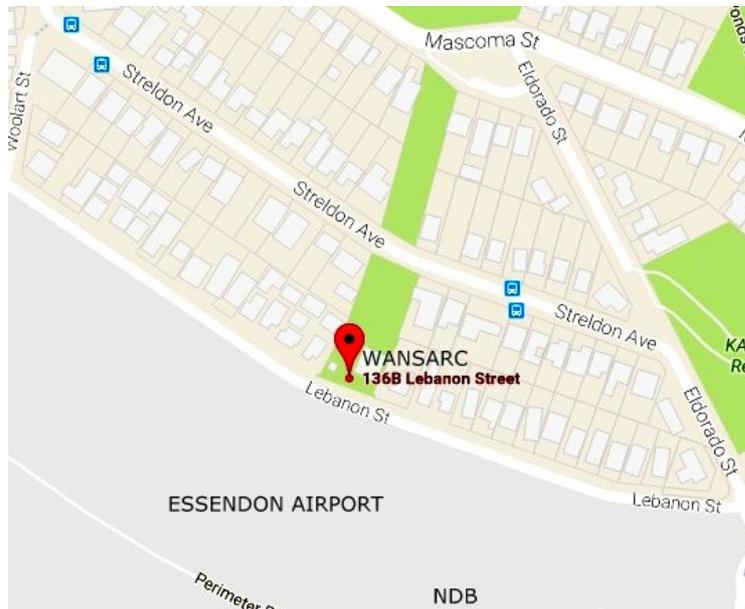
Since its inception in 1970, the Western & Northern Suburbs Amateur Radio Club has had many homes.

But none that have allowed the club to set up a more permanent environment for its members.

That will change on March 3, 2017, when WANSARC meets for the first time at it's new home.

Head to the 1st Strathmore Scout Hall, 136A Lebanon Street in Strathmore. You can't miss it!

Doors open at 7.30pm so see you there!



Location of the new club home. You can come into the area via Mascoma Street from the west or Pascoe Vale Road from the east. The hall has a park directly behind it so you can't miss it. And to the south is the boundary fence to Essendon Airport.

CLUB NET—HAVE A VOICE

The WANSARC club net is held every **TUESDAY** evening on 146.450MHz FM simplex.

The net commences at **8PM** and runs for 30 minutes or longer, based on the discussion topics and the number of stations on air.

Bob VK3VO, Charles VK3FCSC, Russell VK3XC, Cliff VK3CSL & Mark VK3PI are regulars.

Why not come up on air and let other members know what you have been up to? Non-club members also welcome!

**146.450 MHz FM
each TUESDAY
night commencing
at 8PM**

CLUB LOSES A GENTLEMAN AND A SCHOLAR—VALE ALLEN VK3SM

Full text of the eulogy given by Allen's family at his funeral on 19 December 2016

Thank you for joining us and supporting Mum, Allenby Morton Crewther was our Dad.

To some here he was known as Allenby, Allen, Mort, Uncle Allen, Poppy, Great Poppy even Old Poppy to other he was VK3SM (3 silly monkeys) or Mr Crewther.

Dad was born on Australia Day 26th January 1923 the only son of Alexander and Euphemia and he lived in the family home "Kimbolten" Kyneton. A trip to Kyneton earlier this year enabled Dad to see again this house and point out to us his haunts as a young boy.

We don't remember our grandfather Alexander, but he was of a long line of people with strong engineering skills this was inherited by dad together a head strong determination from his mother these traits were present in everything he did right to the end.

His grit was evident when at the age of 4 and a half and missing all his friends who had started school he was found wandering around the school wanting to be at school, found by the headmaster he was subsequently sent home with a note he could start school mid-year.

Allenby had an enjoyable childhood with his cousins Jean and Gordon who lived locally, and Melbourne cousins Helen and Norma who regularly visited. He attended Kyneton Primary then Kyneton High school. He swam in the Campaspe River, as a child during the depression he made and sold ferret nets, he would catch, skin and sell rabbits: he would say it was not uncommon to get 20 pair on a Saturday, these he would sell to neighbours for Tuppence a pair and later sell the dried skins for 3 pence.

At the age of 15 after completing his Leaving Certificate Allenby left for Melbourne to start work with the PMG later to become Telecom then Telstra. He continued studying and progressed from installing telephones to setting up control rooms for the ABC radio studios and transmitter stations for 3LO and 3AR. Working at Mt Oberon at the Wilsons Promontory.

During the war he had security clearance working on the then trunk lines ensuring open lines of communication for the defence department. After the war he was involved in country installations over the state but primarily at Alexandra. From here he progressed to establishing a repair laboratory and installing the first fibre optic cable from Melbourne to Sydney: this coax cable has some of the original parts still in use today. Allenby and Joan met at the tram stop on the corner of William and Lonsdale St waiting for the number 55 tram, their first date was a bike ride together. They

married in 1950 at West Coburg Baptist Church, with lifelong friend and workmate Keith Mounsey as their bestman. Allenby and Joan had 3 daughters, they have 7 grandchildren and now have 5 great grand children.

Allenby and his father built the house at 28 Reynolds Parade which is to this day the family home. His building expertise continued throughout his life with him helping out with building at Gwen and David's Home in Mickleham and many odd jobs for Louise and Noel in Torquay and Helen and Ken in Brunswick and their families.

His specialty was repairing electric goods, setting up burglar alarms, TV repairs and TV antennae, sound systems radios, recently repairing and setting up solar systems. The fact that you are able to hear us today is due to dad's work on the PA systems in this church. People would often drop off TV's and radio for dad to repair with his shack full of valves. We often complained we would get nothing new because Dad could recycle and repair anything. His practical knowledge of all things mechanical was second to none.

For those of you who have been at home when the phone rings you will have experienced personally his skills. When the phone rings, the sound is deafening and can be heard out on busy Reynolds Pde. The shock of the ring stops your heart and send you into a panic and leaves your ears ringing. Lights flash on the TV in case you missed the 8000 decibel ring. This no doubt exacerbated his deafness.

Allenby also made adaptations to his car. The sound of indicators in the car were made so loud that the cars next to you to hear them. He made speed indicators and a bell went off when you hit 40 kph, another at 60 then 80kph then another just to remind you 100 had been obtained. In his 78 years of driving he was proud he never had a ticket.

My favourite repair was when his false tooth plate broke in Canada and he fashioned up a new tooth, pink in colour, out of Selly's epoxy resin for the rest of the trip. He had a full range of Selly's products.

He has made wooden toys for the grandchildren and each great grandchild receiving a wooden step stool, a hobby horse, toy train or truck: as little as 12 months ago he made his last toy for little Isabelle.

He excitedly planned and produced his Christmas originals over many months, and we will miss seeing his masterpieces this Christmas.

1947 saw the start of one of dad's true passions. Amateur radio. Disappointingly for dad none of us has followed in his footsteps with this he tried to interest his sons in law, his grandchildren but I think we all were put off by the seemingly unintelligible squeaks and squawks that came out of dad's shack, to which he would nonchalantly reply.

He started building his own transmitters and receivers even making them for friends. Dad had regular chats with his HAM radio friends often there could be 12-15 mates on the air on their regular 8.30 schedule. But age catches up with us all: Dad said a couple of weeks ago there was no one left from his regular skit.

Dad's passion (obsession) saw him entering many worldwide contests where he would stay up all night trying to see how many HAMS he could make contact with in a given time frame. He was proud of his efforts winning the Victorian and Australian sections over the years. He thoroughly enjoyed his sessions with the scouts and guides for the jamboree of the air that was held for many years at the family home and later dad would set up at the local scout hall. I think Dad's aim was to recruit new HAMS.

We are delighted to be able to pass onto the wireless institute 1000's of call cards Dad exchanged with other HAMS all over the world- an extensive collection of historical significance.

As a HAM Dad was actively involved in the Ash Wednesday bush fires and set up his portable transmitter and receiver near Macedon relaying messages to the authorities after the phone lines had been destroyed.

One of the young members from Dad's radio club emailed David and I in the last couple of days summing up

"In our radio club experiences Allen was a wealth of knowledge. When a question was posed to him the answers were always well thought through and soundly based. It was very pleasing to see Allen at the club earlier this year with one of his close amateur friends, Don Calwell, VK3NP.

Although very hard of hearing it was great to converse, not too smoothly mind you, however the smile on Allen's face meant that he was enjoying being at the club and sharing in the buzz of activities with many who had known Allen and talked with him on air for years."

As a family we travelled Victoria and Australia camping and caravanning. Often returning via Kyneton to collect mineral water that Dad brought home for us to drink. Some of us humoured him by risking an occasional sip. After retiring Mum and Dad continued travelling they were extremely fortunate to have each other. Together they have been all over Australia. Mum has a map of Australia with all the roads they have traversed on their

trips marked off. A few years ago there was a gap of 100km in Queensland on this map. Dad therefore organised a trip so Mum's map would have no gaps in it. As a couple they were very fortunate to have many overseas trips to New Zealand, America, Canada, England and Europe.

In later years they joined "Young at Heart" and continued their travels mostly around Victoria with other like-minded friends.

Together with long-time friends and neighbours Les and Bev their travels continued, more locally as they aged. Dad and Les would plan day trips around Melbourne using a variety of public transport, each trying to outdo the other with the planning and the extent of the trip for a \$2 day pass. It was nothing to hear they had hopped on a bus at the top of the street, had morning tea at Doncaster Shoppingtown before continuing to Frankston for lunch and back by train via some obscure route. Dad did so enjoy his travels but I do think he more enjoyed the planning.

Dad had a lifelong family tradition including his grandfather and father in the Masonic lodge he attended monthly meetings from the age of 20. Many were with Keith Mounsey until Keith left the state. His attendance at Lodge meetings: dressed in his full dinner suit including the jewelled apron inherited from his grandfather, continued until earlier this year.

After retirement he enjoyed Golf and slide nights with Vin and Pearl Holiday. Vin and Dad would wait to Tee off in the pre-dawn gloom at Royal Park to avoid the imaginary crowds. Occasional David was dragged along to tee off, after a few games of extended hours looking for balls in the adjacent railway cutting. Dad and Vin stopped asking David to join them.

To spend your life with your partner for 66 years is a true blessing. Dad was always there for mum and his growing family, he would do anything for us, he was generous with his time and expertise. Dad was of a generation that have seen unperceivable changes, candles to solar power, crystal sets to colour TV, telephone operators to mobile phones, horse and cart to electric cars capable of parking themselves. What next?

He, however always had an interest and enjoyed the challenge of innovations.

Allenby Crewther a life well lived. We know you are now at peace.

Thanks to Allen's family for permission to reprint this Eulogy.

WANSARC was very well represented at Allen's funeral with VK3QF, VK3NP, VK3CN, VK3PI, VK3UY, VK3ZLD and VK3FMPB. Apologies if I have missed anyone.

Rest In Peace Allen—thanks for your friendship.

Illegal Drone Transmitters Could Interfere with Air Traffic Control

contributed by John VK3JAK

In what it calls an "extremely urgent complaint" to the FCC, ARRL has targeted the interference potential of a series of audio/video transmitters used on unmanned aircraft and marketed as Amateur Radio equipment. In a January 10 letter to the FCC Spectrum Enforcement Division, ARRL General Counsel Chris Im-lay, W3KD, said the transmitters use frequencies intended for navigational aids, air traffic control radar, air route surveillance radars, and global positioning systems.

"This is, in ARRL's view, a potentially very serious interference problem, and it is respectfully re-quested that the products referenced...be investigated and removed from the marketplace immediately and that the importers be subject-ed to normal sanctions," ARRL's letter said. Some of the transmitters operate on frequencies between 1010 and 1280 MHz. "These video transmitters are being marketed ostensibly as Amateur Radio equipment," the League said, "but of the listed frequencies on which the de-vices operate, only one, 1280 MHz, would be within the Amateur Radio allocation at 1240-1300 MHz." Even then, ARRL said, operation there would conflict with a channel used for radio location.

ARRL said the use of 1040 and 1080 MHz, which would directly conflict with air traffic con-trol transponder frequencies, represented the greatest threat to the safety of flight. The use of 1010 MHz, employed for aeronautical guidance, could also be problematic.

ARRL cited the Lawmate transmitter and com-panion 6 W amplifier as examples of problemat-ic devices being marketed in the US. Each costs less than \$100 via the Internet. The device car-ries no FCC identification number.

"The target market for these devices is the drone hobbyist, not licensed radio amateurs. The de-vice, due to the channel configuration, has no valid Amateur Radio application,"

The French and Dutch are training Eagles to attack and bring down terrorist drones.—latest news.....



Photo by Mark VK3PI

ARRL told the FCC. "While these transmitters are marked as appropriate for amateur use, they can-not be used legally for Amateur Radio communications." In the hands of unlicensed individuals, the trans-mitters could also cause interference to amateur Radio communication in the 1.2 GHz band, ARRL contended.

The League said it's obvious that the devices at issue lack proper FCC equipment authorization under FCC Part 15 rules, which require such low-power intentional radiators to be certified.

"Of most concern is the capability of the devices to cripple the operation of the [air traffic control] secondary target/transponder systems," ARRL said. "These illegal transmitters represent a significant hazard to public safety in general and the safety of flight specifically."

The surge in sales of drones has been dramatic. The FAA has predicted that combined commer-cial and hobby sales will increase from 2.5 mil-lion in 2016 to 7 million by 2020.

In Exhibit A of the January 10 letter, "Illegal Drones Threaten Public Safety," the League not-ed that some of the drones and associated equipment it has come across "are blatantly illegal at multiple levels," with some drone TV transmitters described as "particularly alarming.."

"Rated at 6 times over the legal power limit, and on critical air navigation transponder frequen-cies, these devices represent a real and dangerous threat to the safety of flight, es-pecially when operated from a drone platform that can be hundreds of feet in the air," the ex-hibit narrative asserted.

The ANAN 8000LE 200W SDR transceiver



Apache Labs has released The ANAN-8000DLE HF & 6M 200W SDR Transceiver, based on the work of the OpenHPSDR community.

The ANAN-8000DLE uses an entirely new redesigned transmit chain and It is the world's first Amateur Radio transceiver to use a 50v LDMOS device in the finals.

The ANAN-8000DLE includes two phase synchronous front ends to enable Diversity reception,

An internal four phase low noise boost supply is used to convert 13.8v to 50v for the finals, enabling the user to have the flexibility of using industry standard 13.8v DC as well as battery power whilst at the same time the radio provides all the advantages of the 50v LDMOS amplifier.

The front panel Display is microprocessor driven and displays all critical parameters such as Forward and Reflected Power, SWR, Current, Voltage, Temperature. The microprocessor also provides real time protection for all these parameters.

General Specifications:

Architecture: Direct Sampling DDC/DUC Transceiver

Interface: Ethernet

Phase Noise (Clock): -149dB @ 10Khz

TCXO Stability (Typical): /- .1 PPM

Modes: CW, SSB, NFM, AM, Digital

Antenna Ports:

Three SO-239 50 ohms Software Configurable Ports, One BNC for RX2

Frequency Resolution: 1 Hz

Electrical Specifications:

13.8v DC @ 35A, 3A Receive/35A Transmit

Receiver Specifications:

Receiver Architecture: Direct Down Conversion

Dual 16 bit Phase Synchronous ADCs

Independent filter banks for each ADC

10/6M LNAs

Frequency Coverage: 9Khz to 60Mhz

Attenuator: 1-30dB step attenuator

Reciprocal Mixing Dynamic Range (RMDR):
116dB @ 2Khz

Receiver Phase noise: -149dB @ 10Khz

Image rejection: 100dB

Hardware support for 7 independent receivers
assignable to either ADC



Transmitter Specifications:

Transmitter Architecture: Direct Up Conversion

DAC Resolution: 16 bit

RF Output Power: 1-200W SSB, CW, FM,
RTTY, Digital; 1-50W AM

IMD: IMD3 typically -72dB @ 200W output on
20M

Harmonics: Typically better than -50dBc on HF
and -60dBc on 6M

Carrier and Opposite Sideband Suppression:
Better than -80dBc

Transverter IF Output: 0db to 15dB

**Put your order in with Santal! But don't expect
much change from a few thousand!!**

VICTORIA RADIO CLUB NETS compiled by Mark VK3PI

One of the benefits of recently updating the Secretary Radio club distribution list was to visit each Victorian radio club web site. There are some excellent sites and a plethora of information available.

Then I had a brainwave and thought why not collate a list of club nets so that our club members could listen or check in to other club nets to hear what is happening around the State. Here it is.

DAY	CLUB	TIME	FREQUENCY	Club call
MONDAY	Yarra Valley Amateur Radio Group	2000 local 2030 daylight saving	146.725 repeater FM	VK3YVG
TUESDAY	Bendigo Amateur Radio & Electronics Club	2000 all year	VK3RCV 147.150 FM	
	Ballarat Amateur Radio Group	2000 all year	VK3RBT 146.650 FM	VK3BML
	Western & Northern Suburbs Amateur Radio Club	2000 all year	146.450 Simplex	VK3AWS
WEDNESDAY	Eastern & Mountain District Amateur Radio Club	2030 local	VK3REC 147.175 FM	VK3ER
	Geelong Radio & Electronics Society	2000 local	145.525 simplex	
	Macedon Ranges Amateur Radio Club	2000 local	VK3RMM 147.250 FM	VK3RA
	Macedon Ranges Amateur Radio Club	2030 local	3.690 +/- QRM	VK3RA
	Melbourne Electronics & Radio Club	2000 local	VK3RBW 438.450 FM	VK3FSK
	North East Victoria Amateur Radio Club	2030 local	3.565 +/- QRM	VK3ANE
	Shepparton & District Amateur Radio Club	1900 local	3.630 +/- QRM	
	Shepparton & District Amateur Radio Club	2000 local	146.540 repeater FM	
	Sunraysia Radio Group	2000 hours	VK3RMA 146.900 FM	
THURSDAY	Bendigo Amateur Radio & Electronics Club	2000 local 2030 daylight saving	3.655 +/- QRM	
	Yarra Valley Amateur Radio Group	2000 local 2030 daylight saving	3.595 +/- QRM	
	Ballarat Amateur Radio Group	2000 local all year	3.608 +/- QRM	VK3BML
	North East Radio Group	2030 local all year	146.575 Simplex FM	VK3CNE
	Western & Northern District Amateur Radio Club	1930 2 nd and 4 th Thursdays each month	VK3RPS 147.200 FM	
SUNDAY	Eastern & Mountain District Amateur Radio Club	1000 local	VK3REC 147.175	VK3BNW
	Eastern Zone Amateur Radio Club	2000 local	VK3RLV 146.800	

Feedback is welcomed, particularly if any of the information contained in the table is outdated and requires correction.

Forward your feedback to secretary@wansarc.org.au

If time permits in the near future I will extend the list to include other states.

**WESTERN AND NORTHERN SUBURBS
AMATEUR RADIO CLUB (WANSARC)**

INCORPORATED A 7611 S

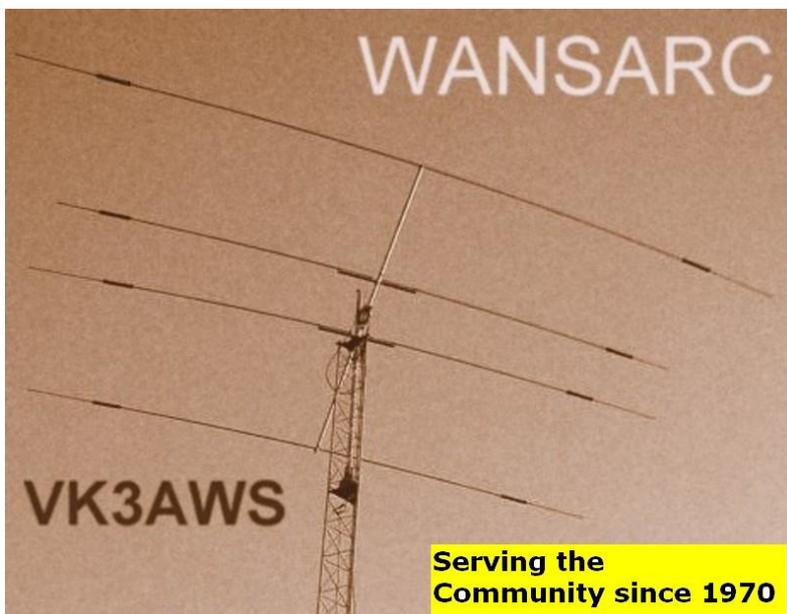
All correspondence to be addressed to the Secretary

POSTAL: WANSARC PO Box 328 MDC
BUNDOORA Victoria 3083

Email: Secretary@wansarc.org.au

Find WANSARC on the
web

www.wansarc.org.au



WANSARC is a not for profit club providing a focal point for electronics and radio enthusiasts in the north and western suburbs of Melbourne.

The club was formed in 1970 and has continuously provided a service to its members and the community since its inception.

Meetings are held on the first Friday of every month, except December and January.

WANSARC AGM

The Wansarc AGM will be held on **Friday March 3, 2017** at the new clubrooms.

Doors will be open at 1930 hours for a 2000 hour start.

All club positions will be declared vacant and financial members of the club are invited to nominate for positions, which include:

PRESIDENT

VICE PRESIDENT

SECRETARY

TREASURER

COMMITTEE MEMBERS

It is not necessary to formally nominate in writing for a position, however if you feel so inclined please send an email to the Secretary prior to **12 noon on Friday March 3, 2017**.

Otherwise come down to the club on the night and throw your hat in the ring.

Don't forget the club will be providing **FREE** Pizza on the night, even if you have not renewed your subscription (yet).