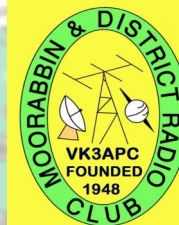


APC NEWS



Above: The operators for the 2016 VK9NT DXpedition.

Lee VK3GK, Luke VK3HK, Chris VK3QB, Alan VK2CA, Brenton VK3YB

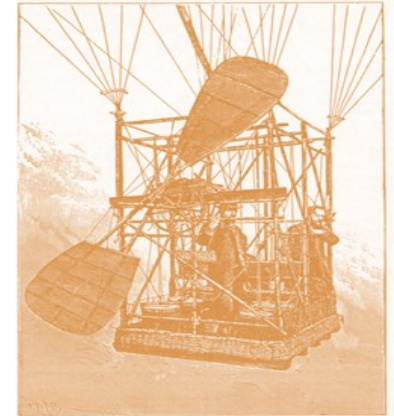


Norfolk Island hosts two SOTA peaks, Mt Bates and Jacky Jacky. The latter is located on Philip Island some 7 km from the main island. The line of the crown of the island is at the right of the photo with the rocky peak of Jacky Jacky left of centre. It requires ropes and associated gear to traverse the small ravine between the summit and the rest of the island, (last done over 20 years ago) hence it has not yet been activated. .

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BUILT SOMETHING?

BEEN SOMEWHERE?

DONE SOMETHING

INTERESTING?

Tell the Editor. He needs material for the next issue of APC News. Please include pictures too.

Email: yk3apc@wia.org.au

THE EDITORS DESK - Ron VK3AFW



The Club's AGM is coming up on Friday 12th August. Will we have a President after the meeting? I hope so. The role of a president can vary. There is the mechanical bit of chairing committee meetings and leading Club meetings but there is more to it. He can be a leader who pushes agendas and activities and "volunteers" helpers. He has a clear vision of what needs to be done and how it can be done. This guy is not common. Or he can be the central contact person, the go-to person who will answer queries or redirect them in the right direction. This type of president consults and takes advice from anyone qualified to do so. Of course he delegates knowing that one-man management teams can fail in a spectacular way. Can we find one of these?

Once upon a time joining a radio club committee was seen as an excellent way to learn management skills for later use in ones work place. Now it is more about sharing the burden of club management and giving something back to the hobby. Will you step up and take on the role?

Last issue I raised the possibility of ending the APC News and going to blogs and social media. No one commented. I take that to be an indication that all agree or no-one cares. Or it means the editorial does not get read.

I will propose closing APC News at the AGM.

73

Ron, VK3AFW

JOTT 2016



On Sunday 15 May Murray VK3MJT Cub Scout Commissioner, Melbourne Region requested help with Radio Comms for the 2016 Jamboree on The Trail. The venue this year was the Royal Botanical Gardens, Melbourne. The responders were: Derek VK3XY, Joe VK3YSP, Julie VK3FOWL and Ron VK3AFW. The control station was set up at the start/finish point and at two other points around the trail.

The weather was fine (just) and some 227 Cubs, Scouts, Scout leaders and parents made the circuit.

Derek and Murray manned the Hike Base/Control Station with Richard (Gonzo) McCoy, Joe and Julie with Roy and Jessie Kaplan at Check Point 2 and Ron with Michelle Saffin and Lachlan (Lachie) Smythe at Check Point 3.

Left: The 2 m Slim Jim at Check Point 3.

JOTT 2016 cont'd



Above: Checkpoint 2 and the magnetometer building..

Joe VK3YSP commented that the cubs had a lot of fun. “You should have seen the spread some of them brought for lunch. Not vegemite sandwiches. Oh no. They had croissants and fruit cake. Made us all feel very hungry indeed.”

“That little house is the “magnetic house”, originally built with copper nails and it used to study the variation in magnetic declination. Before GPS it was vitally important that your compass and map were spot on, or you might end up in Timbuctoo. The sign said it was quite usable up until the time someone laid electric tramlines down St. Kilda Rd. Do’ oh. “

MAY MEETING TALK



Peter VK3TE (left) was our guest speaker for May. He talked about Digital Radio. A digital radio system converts voice signals to a digital stream for transmission and decodes and converts the received stream to analog audio. Data can usually be carried at the same time. D-Star is an established amateur radio digital radio mode.

The following pages are from the presentation and are self explanatory.

MAY TALK cont'd

VK DMR-MARC Network

- The Australian VK DMR-MARC Network started in 2011, and we have been in the background for a few years in Digital Communications.
- Digital is just a word and Digital Communications is a LARGE group of different types of Digital communications
- DMR, Stand for: Digital Mobile Radio and we use TDMA as our platform, which is the same standard you have in your Mobile Phone now.

MAY TALK cont'd



DMR (Digital Mobile Radio)


Digital mobile radio (DMR) is an open digital mobile radio standard

Defined in the European Telecommunications Standards Institute (ETSI) Standard TS 102 361 parts 1-4 and used in commercial products around the world.



MAY TALK cont'd

DMR Amateur Radio



Local Regional National International

**Simple Programming.
Reliable Communications.**

Because the DMR has 2 Slots for use at the same time
Now this will be confusing for a lot of you as you are programmed in your memory to think that when talking on a Radio that when you have the PTT pushed in that you are the only user talking.

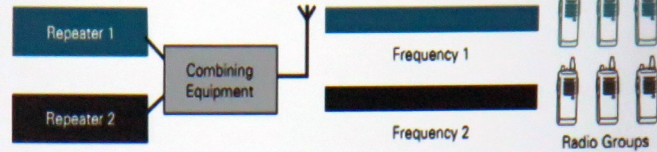
Sorry to be bring some BAD news to you are not the only current user.
As DMR allows 2 users to use the same Frequency at the same time.

MAY TALK cont'd

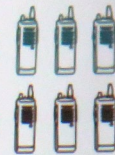
TWO Repeaters in One!

TDMA saves licensing and equipment costs by enabling the equivalent of two 6.25 kHz channels within a single licensed 12.5 kHz channel

Two-channel Analog or Digital FDMA System

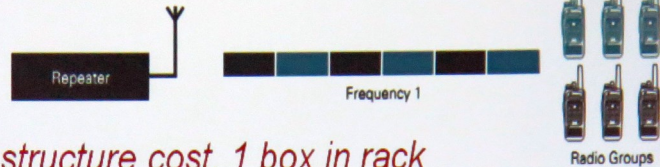


One call per
repeater and channel



Radio Groups

Two-channel Digital TDMA System



Two calls per
repeater and channel



Radio Groups

*Lower infrastructure cost, 1 box in rack
TWO voice channels from one repeater*

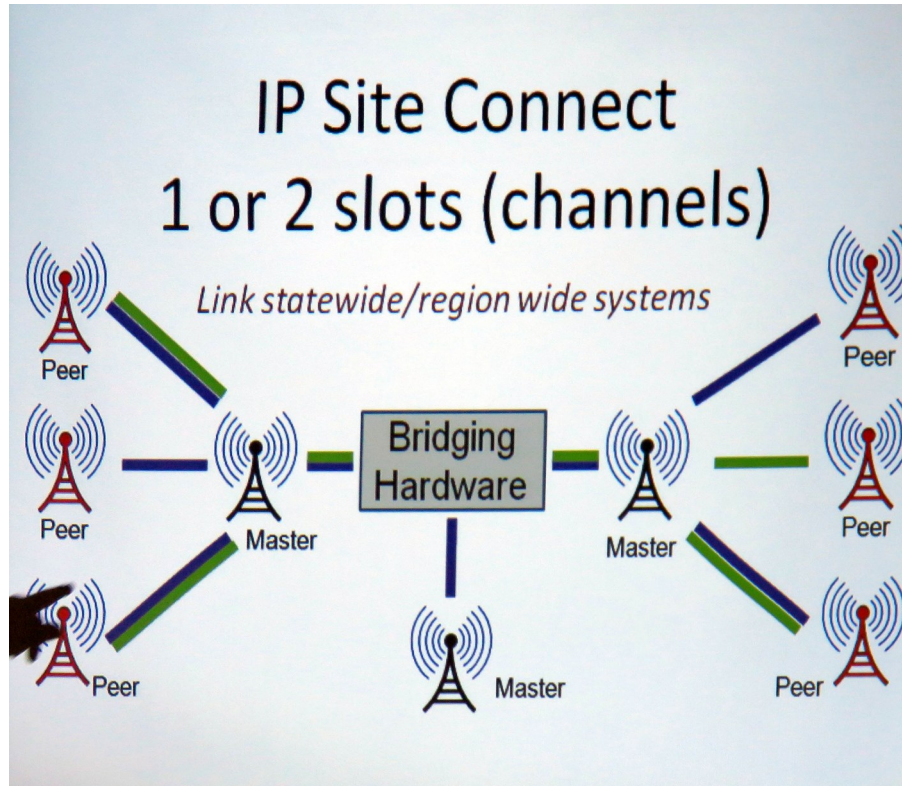
MAY TALK cont'd

Amateur Digital Voice Systems

Format Feature	P25 Phase II	DMR	DSTAR	FUSION	NXDN/IDAS
Operating Band	VHF, UHF, 700/800	70cm primary, 2m, 33cm,	2m, 70cm, 33cm	2m, 70cm	70cm primary, 2m, 33cm
Dual Band	Yes	No	Yes	Yes	No
Battery Life	40% longer	40% longer	Normal	Normal	20% longer
Dual Time Slot	Yes	Yes	No	No	N/A
Range	20-25% over wideband analog	20-25% over wideband analog	20-25% over wideband analog	20-25% over wideband analog	20-25% over wideband analog
Manufacturer specific	No	No	Yes, ICOM	Yes, Yaesu	Yes, Kenwood, Ritron/ICOM
Number of Manufacturers	>6	25+	1	1	2/1



MAY TALK cont'd



MAY TALK cont'd

Talk Groups

Talk Groups are just like CTCSS/DCS tones that allow you access to some repeaters and also help keep out Interferences from keying up repeaters

We use Talk Groups in Digital to select with Group or in this case which Region or Country you want to chat with.

Below is our Current Talk Groups for VK, but this can be changed at any time as we are in control of our own Bridge for VK.

TG 1 = WW CQ

TG 5 = VK & ZL Linked using **Time Slot 2**, all VK and ZL Repeater

TG 9 = Local All of VK

TG 13 = WW English

TG 100 = Tech

TG 113 = User defined (Key up for 1 second and the other Repeater will also open up)

TG 123 = User defined (Key up for 1 second and the other Repeater will also open up)

TG 505 = Australia Wide, all connected Repeaters Time Slot 2

MAY TALK cont'd



Some digital radios.

MAY TALK cont'd



Some more digital radios.

JUNE MEETING TALK

The June meeting was a show and tell with Tony VK3CAT demonstrating his latest acquisitions for overnight hikes and mountain SOTA activations..



Above. The popular KX3. This DSP based HF rig (6 & 2 m can be added) has inbuilt ATU and runs 10 W. This makes it a hit with SOTA activators.

Pictures by Sarah
VK3SD

JUNE MEETING TALK cont'd

Right. When space is at a premium the Alex loop m provides a useful antenna. It is well down on a dipole on 40 m but the difference reduces as the frequency is increased. Tony told of his experiences on a barge in France with the loop.



JUNE MEETING TALK cont'd

Right. Lee VK3GK checks out Tony's new B

backpack. Colin VK3UDC and Murray VK3MJT look comfortable in their chairs.

When hiking you have to carry everything. The difference between a cheap pack and a well designed one is like chalk and chees. The load feels lighter and you can carry it further without discomfort. Multiple storage areas allow access to items like snacks without having to unpack.



FOR SALE

Right. A new in Box 1 kW inverter petrol driven generator. This was originally one of the Aldi specials.

Actually there are two available. Original price about \$1 per watt. Make a reasonable offer to Sarah VK3SD.



AGM NOTICE

**THE AGM WILL BE HELD ON FRIDAY
12th AUGUST 2016 at the Club rooms
Turner Road, Highett.**

**Reports
Financial Statement
Election of Office Bearers**

**If you want to stand for office or vote
then you must be a financial member.**

PAYING SUBSCRIPTIONS

Paying by computer.

Go to **Internet Banking** on your computer and select the account from which you want to make the funds transfer. Do not select a Credit Card Account. In the “Transfer Money” screen enter the following.

- 1 In the ACCOUNT NAME box to which the funds are to be transferred, enter MOORABBIN AND DISTRICT RADIO CLUB INC
- 2 In the BSB box enter the number 033-385
- 3 In the ACCOUNT NUMBER box enter the number 77-4955
- 4 In the TRANSACTION DETAILS or ACCOUNT DESCRIPTION box enter your name or Callsign in uppercase.
- 5 Email the treasurer to advise of your payment.

Paying by cash over the counter at the bank

Go to a **Westpac bank** and fill out a deposit slip as below. Take this plus the necessary cash to the teller.

- 1 In the FOR CREDIT OF box enter MOORABBIN AND DISTRICT RADIO CLUB INC
- 2 In the BSB box enter the number 033-385
- 3 In the ACCOUNT NUMBER box enter the number 77-4955
- 4 In the TRANSACTION DETAILS or ACCOUNT DESCRIPTION box enter your name or Callsign in uppercase.
- 5 Collect the receipt and email the treasurer to confirm payment.

M&DRC MEETINGS, ACTIVITIES AND SPEAKER SCHEDULE

MONTH	DATE	SPEAKER	DATE	ACTIVITY
July	Friday 8th	Ken VK3CEK. Viet Vets Museum on Philip Island	Saturday 23rd	Informal meeting. Room and garage clean up and natter
August	Friday 12th	AGM	Saturday 20th Sunday 21st	ILLWE at the McCrae Yacht Club
September	Friday 8th	TBA	Saturday 23rd	Informal meeting. Room and garage clean up and natter
October	Friday 12th	AGM	Saturday 27th	Informal meeting. Room and garage clean up and natter



there or



TRADE DISCOUNTS

FOR CLUB MEMBERS at ALTRONICS and JAYCAR.

Moorabbin and District Radio Club Inc. members can now buy over the counter at Trade prices from both **Altronics** and **Jaycar**. When making a purchase ask for Trade Discount and for **Altronics** quote the Club's Trade account number **32323** and your **call sign** or for **Jaycar** quote **FK000921**. **This is NOT a charge account so you use your money.**

Note: Minimum purchase of \$20 may apply.

Check out these companies at their websites.



<http://www.altronics.com.au>



**Get your Club photo ID
discount card NOW**

<http://www.jaycar.com.au>

CLUB NETS

VHF net.

Wednesdays: **146.550 MHz FM**
Starts at 20:00 (local)

HF net

Wednesdays: **3.566 MHz (± QRM) LSB.**
Starts at 20:30 (local).

Note: this is in recess but do feel free to come on and call.

Drive Time net

Week days: **146.550 MHz FM**
Starts at about 16:40 (local)

Please drop in and join the Nets and catch up on the latest happenings around the Club.



D- STAR repeaters are now operational.

For more information about D-STAR go to the Club's web page **www.mdrc.org.au** click on the link to Susan VK3ANZ's Newbies Guide to Using D-STAR

CLUB MEETINGS

Formal Meeting.
*Second Friday night of the
month, 8:00 PM and*

Informal Meeting.
*Fourth Saturday morning of the
month 10:00 AM*

**Check the web site and the
weekly Club nets for the latest
doings.**



COFFEE GROUP.

**Every Tuesday morning -
10:00 AM to 11 AM.**

Retired? Come along, swap
yarns, bits of gear and info or
get helpful advice all with a bis-
cuit and a cuppa.

**Visitors are always
welcome.**

**Free disposal items for
financial members at most
meetings**

COMMITTEE MEMBERS AND OFFICE BEARERS

President:	VACANT	
Vice President:	Lee VK3GK	
Secretary:	Ken VK3KIM	millisk@hotmail.com
Treasurer:	Brian VK3MCD	bmcderm@tpg.com.au
Committee members:	Gerard VK3GER	
	Graeme VK3GL	
	Mike VK3FRTM	
Combined Clubs Reps:	Ian VK3IFM and Ken VK3KIM	
Publicity Officer	Noel VK3BMU	
Repeaters	Graeme VK3GL	
Webmaster:	Ken VK3KIM	millisk@hotmail.com
Museum Officer	Colin VK3UDC	
Speaker schedule	Gerard VK3GER & Ron VK3AFW	
Education and Training	Graeme VK3GL	
Station Officer:	Tony VK3CAT	
QSL Cards	Denis VK3BGS	
Librarian:	VACANT	
Magazine Editor:	Ron VK3AFW	vk3afw@optusnet.com.au

Like to join the committee? Nominate! The AGM is held in August each year.