School Amateur Radio Clubs By Julie VK3FOWL and Joe VK3YSP



School AR Clubs are back in business!



School amateur radio is set for a comeback with SARCnet









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Historically, strict licensing requirements to realise this is a whole different thing from magazine," Gonzales says.

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What is SARC?

- A fun, weekly, lunchtime activity
- A select group of students
- Promoting STEM using AR
- A first, positive experience of AR
- Not a Foundation Licence course
- Our focus is on Primary Schools



What is SARCNET?

- An extensive program for schools that anyone can use
- A lunchtime net for students: VK3SRC, 7100kHz LSB
- A website with free on-line resources: www.sarcnet.org



Introduction By Principal Michael Day

"It is interesting that in this day and age of mobile broadband networks and social media that Amateur Radio, the pioneering radio hobby of the last century, would be an excellent way of introducing science and technology to young children today. Amateur Radio enthusiasts are an amazing, untapped resource for educators. They are hidden away in every community, and can provide their own equipment and expertise. They also have a zeal to pass on this technology to the next generation. And, I would say, their aging ranks could do with some new recruits from us. So this largely free and enriching collaboration between the schools and the Amateur Radio fraternity is a classic win-win situation."



Is it worth it?



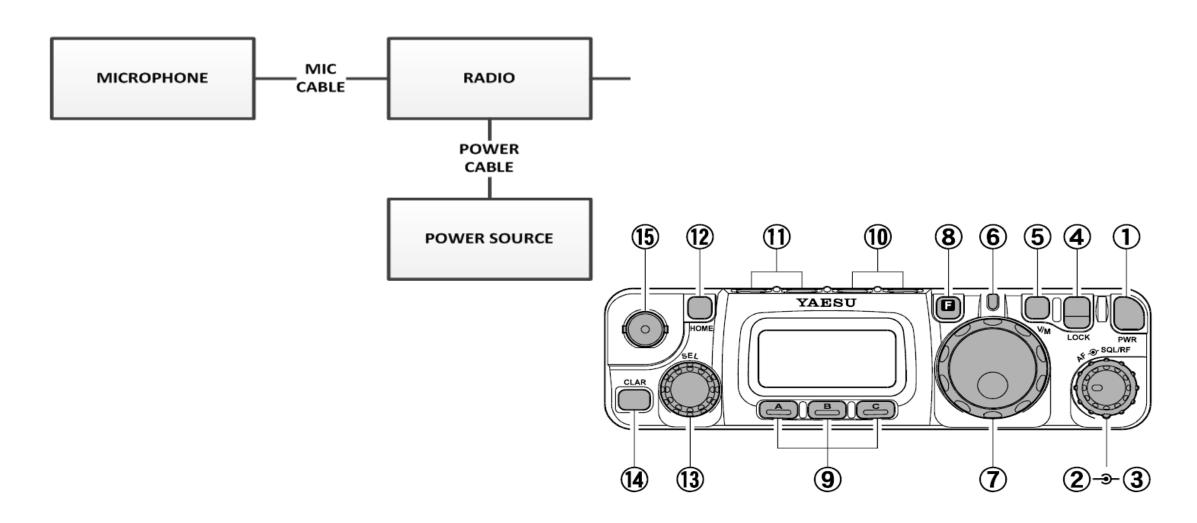
Setting Up



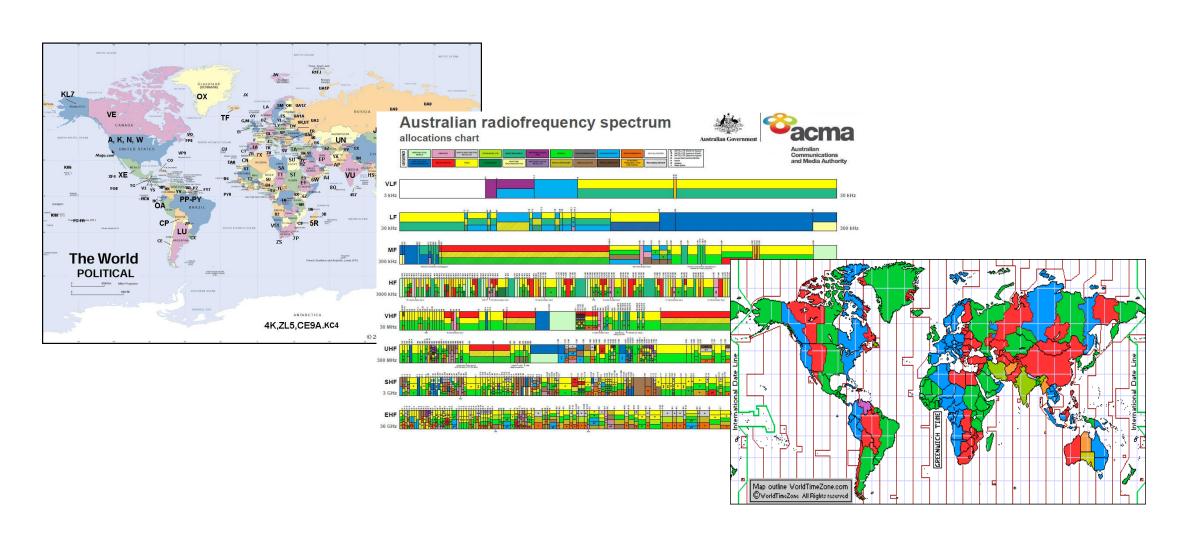
On-Air Sessions and Morse Code Practice



Station Setup and Radio Operation



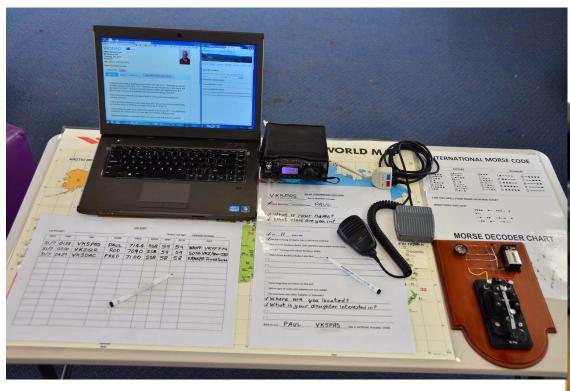
Call Signs, Bands and UTC



Radio Alphabet, Codes, Reports, Jargon

	CODE	SOUND								
Α	ALPHA	AL FAH								
В	BRAVO	BRAH V	OH_							
С	CHARLIE	CHAR L	EE							
D	DELTA	DEL TAI	No.	Readability		•				
E	ECHO	EKK OH	1	Unreadable		1				
F	FOXTROT	FOKS TI	2	Barely readable		ı				
				Readable with diffic Almost perfectly Rea	Q-CO	DE	MEANING		ľ	
					_	-				
			5	Perfectly Readable	QRM		Interference		,	
				,	QRN		Noise		Ц.,	
				ľ	QRP		Low power	Roger		Yes, OK
					***************************************		•	Negati	ve	No
					QRT		Off and Clear	Over		Back to you
				QRV		Ready to opera	Сору		Heard and understood	
				•				Rig		Radio Transceiver
								Eyebal	I	Face to face meeting

Operating Procedures and Logbooks





Satellites and Repeaters





Hidden Transmitter and Interference Hunts



Electronic Components

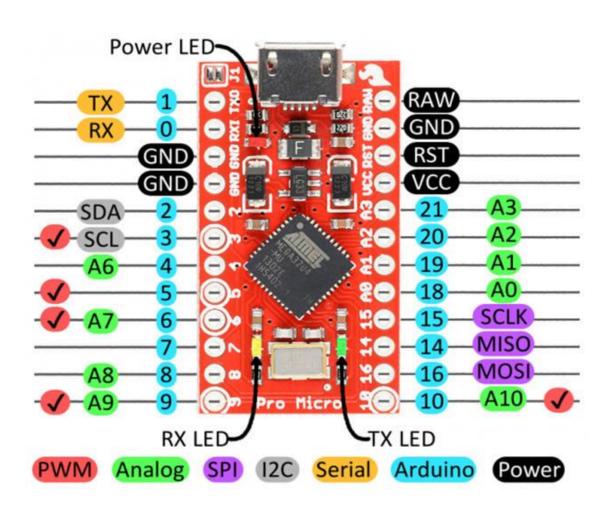


Electronic Kit Construction





Microcontrollers & Renewable Energy

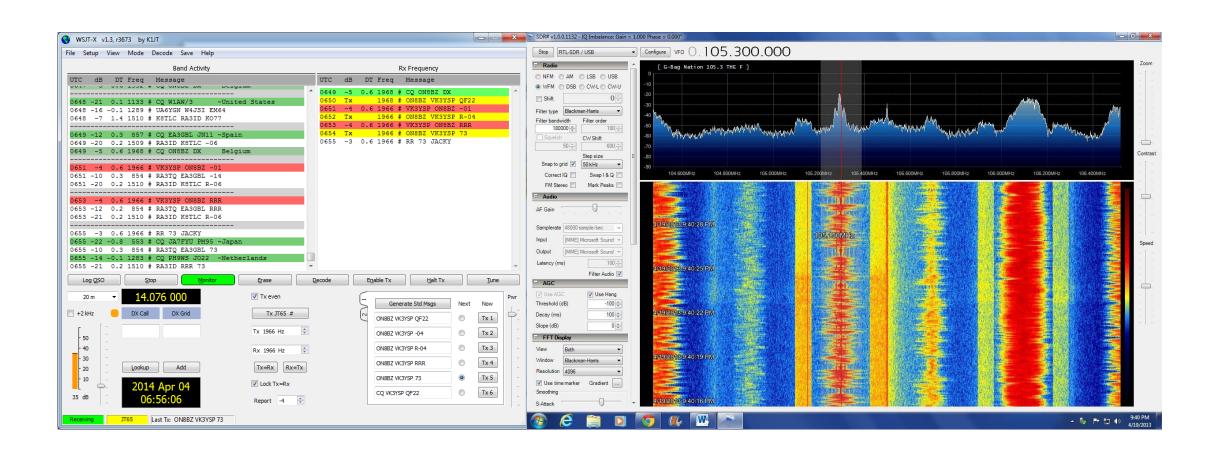




Antenna Construction



Digital Modes & SDR



Search and Rescue Mission





High Altitude Balloon Launch



What can you or your club do?

- Start your own School Amateur Radio Club!
- Get your AR club to start one or to sponsor you
- Talk to school principals and teachers about SARC
- Provide free AR club membership for all students
- Run weekly AR club workshops for students

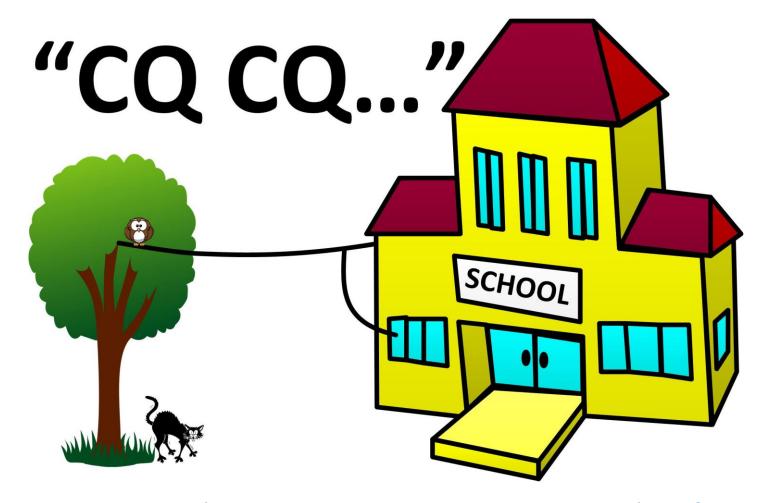


Conclusion By Principal Michael Day

"When I first introduced the School Amateur Radio Club at St. Kevin's Primary School in Ormond Victoria, I had no idea what a success it would be. We were lucky to have an Amateur Radio enthusiast within our ranks, so the introduction was initially driven by this staff member. The teachers, parents and students are now raving about it. To see the children confidently building electronic kits or talking to other schools over shortwave radio is quite incredible. I am now exploring ways to expand this program."



The End – Thank You!



SARCNET – VK3SRC website: www.sarcnet.org email: info@sarcnet.org