



SARC NEWS 2021:09:27

SARC RADIO NET NUMBERS/CHECK INS

Weekly HF Dawn Patrol – 78 – For week ending Fri, 24SEP2021.

Monday – 5 - The importance of Zoom for SARC.

Tuesday – 5

Wednesday – 6 - Covid rioters & solar power.

Thursday Net – 5 – On 2 metres, Woodburn.
- 5 - On 6 metres, Parrots Nest.

Friday 80m Net –7- Just general chatter.

SARC nets and times <https://sarc.org.au/nets-broadcasts/>

Upcoming Events <https://sarc.org.au/events/>

DAYLIGHT SAVING STARTS NSW October 3 @ 02:00 - 03:00

UPCOMING EVENTS 2021

OCEANIA DX CONTEST (PH)

Sat-Sun 02-03 October.
(see link below)

OCEANIA DX CONTEST (CW)

Sat-Sun 09-10 October.

COMITTEE MEETING

Sunday 10 October @ 1300 hrs

JOTA-JOTI

Sat-Sun 16-17 October

<https://www.oceaniadxcontest.com/>

Tuesday-Net Report

DIGITAL MODES

- Paul VK2AMT

TUESDAY SEPTEMBER 21 2021

Another report below, I forgot to do a screenshot, so just text.

Tonight we had Duncan VK2DLR, Chris VK2ACD, Ross VK2ARD and John VK2JWA logged in. Jeff VK2WSR was expected to drop in on HF once the digi started. We had our normal two rounds on 2 metres before QSYing to HF.

Fldigi, Olivia 8-500 and 3.570 USB. The band was pretty good apart from some static crashes but they didn't upset decoding. Noise was S9 here so that's pretty normal. A couple of us started on moderately high power and then dropped at about 40-45 watts after an over. That worked well. Jeff popped in after a couple of rounds on 50 watts, we had good copy from him. Ross also joined us, running 25 watts from the Icom IC-7000 into a dipole.

A very good net once again with some good technical discussion. Antenna tuners were a topic. The decode was fine provided low power wasn't used. Jeff's decode was fine at about the 40 watt level but decoding accuracy dropped when power was reduced. Thanks to all who logged in and participated. The transfer of the net to 80 metres has been successful so I think it should continue.

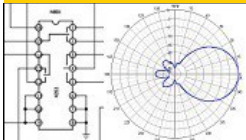
WANTED - A TREASURER

contact: vk2src@gmail.com

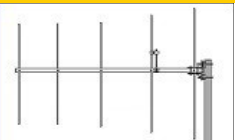
We are looking for someone to take on the Treasurer role. This person would normally also become a committee member. Most of the job is looking after the bank accounts and providing information on balances and income/expenditure to the monthly meetings. We don't use any accounting software. All banking is done on-line and the committee will help with training.

Please email the committee if you think you can help - no obligation!

WHAT'S NEW?



HOMEBREWING PROJECTS by SARC MEMBERS



Dear SARC Members. Please feel free to share your homebrewing experiences with other newsletter subscribers.

PROTOTYPING STATION PROJECT UPDATE #3

- Peter VK2PAH

<https://drive.google.com/file/d/1oKfic7vSg0YF6K7z4k2qF7OsRRqJGmqw/view?usp=sharing>

Fearful of FETs because you don't understand them? Watch two videos made by Techno-Fogey.

<https://www.youtube.com/watch?v=CLLcRRBph90> Field Effect Transistors Part 1

<https://www.youtube.com/watch?v=4QkRI1Ue208> Field Effect Transistors Part 2

These videos really work for me. After decades of not understanding how FETs work Electro-Fogey explains them away with beautiful simplicity.

There are four key points:

1. The first is that doped silicon conducts electricity. It's a semiconductor and allows electrons to flow regardless of whether it's P-type or N-type doping.
2. The second is that a reversed biased P-N junction is a dielectric and does not allow electron flow. Think of the capacitance of a Varactor Diode.
3. The third point is that the more you reverse bias a P-N junction the more dielectric you get. Again, think of increased bias on a Varactor Diode.
4. The fourth point is the amount of dielectric in the channel determines how much current flows.

Why didn't somebody tell me that years ago?!

Check out the other Electro-technology videos by Electro-Fogey at:

<https://www.youtube.com/playlist?list=PL6A8837511E72A5F6>

Sadly, Electro-Fogey / Steel Wheels Down / Doug Peter passed away 7 years ago. His brother Brad has kept the YouTube channel alive to preserve these great videos.

Electro-Fogey is fondly remembered and thanked by SARC Education every time his videos are used.

OTHER INTERESTING BITS Click on (2) images below to open.



Hi Peter, Here is a YouTube link for the news

letter, I'm sure others, like I, will be impressed with the antenna array.

-Andrew VK2AKK

6-DAY LISMORE WEATHER (FORECAST)

click on image to open WEATHERZONE



	Tue Sep 28		Wed Sep 29		Thu Sep 30		Fri Oct 1		Sat Oct 2		Sun Oct 3	
Summary	Mostly sunny		Late shower		Showers		Showers		Mostly sunny		Sunny	
Maximum	22°C		23°C		24°C		26°C		28°C		29°C	
Minimum	6°C		7°C		10°C		11°C		9°C		9°C	
Chance of Rain	20%		90%		90%		80%		40%		5%	
Rain Amount	< 1mm		5-10mm		5-10mm		5-10mm		1-5mm		< 1mm	
Wind Speed	9am	3pm	9am	3pm	9am	3pm	9am	3pm	9am	3pm	9am	3pm
	8	20	13	25	10	21	14	20	10	16	10	13
	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h
Wind Direction												
	ENE	E	NE	NE	N	N	NNW	N	W	WSW	WNW	NNE

Find the 'search words' and 'clue words' in the grid. Words can go horizontally, vertically and diagonally in all eight directions. Words within words are not counted. Hyphens, gaps and strikethrough words are not used in the grid. When you are done, the unused letters will spell out a hidden message.



04. BASIC MATHEMATICS (Fdn & Std)



A	P	R	O	P	E	R	R	I	R	U	O	F	Y	T	X	I	S	F	SEARCH WORDS
C	T	R	H	Y	E	N	E	T	F	O	S	R	E	W	O	P	I	R	ADDITION
M	I	E	O	E	T	T	I	C	I	D	S	N	L	O	F	G	E	D	ARITHMETIC
Y	T	T	R	T	H	R	Q	E	N	C	O	O	E	I	U	B	E	R	COUNT
T	I	H	E	U	A	U	U	E	N	I	T	E	V	R	M	C	E	E	DECIMAL
H	T	M	S	M	A	R	D	O	T	S	O	E	E	U	I	S	V	F	DENOMINATOR
G	M	A	P	R	H	I	E	C	F	T	N	T	N	M	U	L	H	R	DIVIDEND
I	E	M	T	R	V	T	A	M	H	D	O	A	A	L	E	A	Q	O	DIVISION
E	T	E	I	I	O	R	I	I	U	C	I	L	T	W	S	U	U	T	DIVISOR
F	R	A	D	N	T	P	R	R	T	N	T	V	T	D	M	Q	O	A	EQUALS
R	A	T	H	B	E	T	E	N	A	M	I	O	I	A	T	E	T	N	FIGURE
A	P	L	U	S	E	D	U	R	E	I	D	C	T	S	I	X	I	I	FRACTIONS
C	S	S	I	E	S	O	I	T	H	K	D	E	E	A	O	C	E	M	MATHS
T	O	U	N	N	C	T	E	V	S	S	A	O	N	F	L	R	N	O	MINUS
I	A	M	U	L	T	I	P	L	I	C	A	T	I	O	N	M	T	N	MULTIPLICATION
O	S	H	T	A	M	N	E	V	E	S	A	T	N	E	U	R	R	E	NUMBER
N	N	E	E	T	H	G	I	E	A	D	I	I	O	T	H	E	O	D	NUMERATOR
S	S	C	I	E	N	T	I	F	I	C	N	O	T	A	T	I	O	N	PERCENTAGES
S	E	G	A	T	N	E	C	R	E	P	R	Y	N	S	U	N	I	M	PLUS

CLUE WORDS

It would be best to do these sums without a calculator.

1. $7 + 6 =$ _____ (8).
2. $9 + -3 =$ _____ (3).
3. $9 - -3 =$ _____ (6).
4. $-8 \times -5 =$ _____ (6).
5. $5(6 + 10) =$ _____ (6).
6. $(4 + 3)(4 - 3) =$ _____ (5).
7. $(5 + 7) / 6 =$ _____ (3).
8. The proportion $15:3 =$ _____ (4).
9. $2/6 \times 9 =$ _____ (5).
10. What type of fraction is $1/2$? _____ (6).
11. What type of fraction is $10/8$? _____ (8).
12. $(1.2 \times 10^2 + 4.5 \times 10^1) / 15 =$ _____ (6).
13. $3250/1000 - 3 \times 10^0 =$ a Q _____ (7) of one.
14. 15% of 60 = _____ (4).
15. What is the percent of 2500 is 1600 ? _____ (5,4).
16. What would be the lower limit of a 10%, 20 ohm resistor ? _____ (8) ohms.

HIDDEN MESSAGE: _____

Ans: <https://drive.google.com/file/d/1OmsY87CzkFIUp6zWWFi2rk6ExZJh7QwT/view?usp=sharing>

SARC Newsletter Archives: <https://sarc.org.au/weekly-newsletters/>

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