

Minutes of the SARA (Sussex Amateur Radio Association) monthly meeting at Mulligan's Point Country Club

October 19, 2023

1. Meeting called to order at 19:00 with 21 in attendance
2. Pledge given to the flag
3. Moment of silence for the fallen protectors to our country, county, community and silent keys
4. **President Report Butch WA0CIE:** MIA
5. **VP Report Deb AJ3L:** Butch WA0CIE is MIA so Deb is running the meeting. Introductions were given and welcoming to all. An agenda was given for tonight's activities.
6. **Secretary and Treasure Report:** Both reports were accepted and approved by the membership.
7. **Testing Herb W3BW:** One tested tonight yielding a General
8. **ARES Jim N3XKJ:**
 - 8.1. An ARES net control signup sheet is going around, so far only two have signed up for 2024 – Please consider helping out
 - 8.2. ICS group training is gearing up to be every other Wednesday. When no meeting there will be a zoom meeting online
 - 8.3. We need volunteers at the hospitals
 - 8.4. Lewes hospital is having trouble with the computer and antenna – they are working on it.
 - 8.5. You have to have training to work at the hospitals.
9. **ARRL (Section Manager) John K3PFW:** MIA
10. **RACES / AUXCOMM Bill N3ID:**
 - 10.1. October 14th, they had a drill with New Castle County.
11. **Sky Warn Steve KC3DSO:** MIA
12. **Repeater(s) John K3JL:** The repeater is updated. Right now, they are running well

13. Events:

13.1. Friday through Sunday Boy Scouts on the air

13.2. Winter Field Day is on January 27-28

13.2.1. Possible locations are Milton Town Park or Ferry Terminal. We are open to suggestions

14. Old Business: No old Business

15. New Business:

15.1. Elections coming up, voting is in November. Takeover is in January. **PLEASE be aware that after many years the President, Treasurer and Secretary will NOT be running again.**

15.1.1.1. **Election is in November**

15.1.1.1.1. President, secretary (Paul KC3OIN is a possible) and treasurer are OPEN!

15.1.2. Our Christmas party is going to be held at Grotto's in Millsboro – Please speak to our VP Deb AJ3L with any ideas or suggestions.

15.1.3. Delaware section manager voting is coming up

15.1.3.1. John K3PFW and Steve KC3DSO are running

15.1.3.2. Ballots went out in September to ARRL members this is a two-year position, PLEASE vote

16. Program: Last minute cancel

17. 50/50: \$27.50 was won by Tom N3ARX

18. Motion to Adjourn: Was given and approved by the group at 19:58

19. Next meeting will be on November 16th same time, same location

Respectfully Submitted by Donna KC3IHV

***** Smoke Signals *****

How An Infant Views The World
From a distance of 1 meter



At 3 Days



At 1 Month



At 3 Months



At 6 Months



At 1 Year

Same goes for marriage!

Dating a guy
that drives an electric car:



I Hope I Didn't Get Him Pregnant

Things have changed since you went to college...

Annual Tuition	1980	2016
New York University	\$5,062	\$49,062
Minimum Wage	\$3.10	\$7.25
Required hours to pay tuition	1,632	6,767
Required weeks to pay tuition	40.8	169.2
What tuition would need to be to work same # of hours at today's minimum wage: \$11,839		
What minimum wage would need to be to work same # of hours for today's tuition: \$30		



Oscilloscope



Signal Generator



Mixed Signal Oscilloscope



Mixed Signal Generator

Antenna Chart



ANTENNA DIMENSION CHART

AMATEUR RADIO ANTENNA LENGTH CHART

	FREQUENCY (Mhz)	1/4 λ (Feet)	1/2 λ (Feet)	1 λ (Feet)	1/2 λ Inv Vee 90° (Feet)
160 METERS	1.800	130' 0"	260' 0"	558' 4"	257' 5"
	1.850	126' 6"	253' 0"	543' 3"	250' 5"
	1.900	123' 2"	246' 4"	528' 11"	243' 10"
	2.000	117' 0"	234' 0"	502' 6"	231' 8"
80 METERS	3.500	66' 10"	133' 9"	287' 2"	132' 5"
	3.750	62' 5"	124' 10"	268' 0"	123' 7"
	3.900	60' 0"	120' 0"	257' 8"	118' 10"
	4.000	58' 6"	117' 0"	251' 3"	115' 10"
40 METERS	7.000	33' 5"	66' 10"	143' 7"	66' 2"
	7.150	32' 9"	65' 5"	140' 7"	64' 10"
	7.300	32' 1"	64' 1"	137' 8"	63' 6"
30 METERS	10.100	23' 2"	46' 4"	99' 6"	45' 10"
	10.150	23' 1"	46' 1"	99' 0"	45' 8"
20 METERS	14.000	16' 9"	33' 5"	71' 9"	33' 1"
	14.150	16' 6"	33' 1"	71' 0"	32' 9"
	14.300	16' 4"	32' 9"	70' 3"	32' 5"
	14.350	16' 4"	32' 7"	70' 0"	32' 3"
17 METERS	18.068	12' 11"	25' 11"	55' 7"	25' 8"
	18.168	12' 11"	25' 9"	55' 4"	25' 6"
15 METERS	21.000	11' 2"	22' 3"	47' 10"	22' 1"
	21.200	11' 0"	22' 1"	47' 5"	21' 10"
	21.450	10' 11"	21' 10"	46' 10"	21' 7"
12 METERS	24.890	9' 5"	18' 10"	40' 5"	18' 7"
	24.990	9' 4"	18' 9"	40' 3"	18' 6"
10 METERS	28.000	8' 4"	16' 9"	35' 11"	16' 7"
	28.500	8' 3"	16' 5"	35' 3"	16' 3"
	29.700	7' 11"	15' 9"	33' 10"	15' 7"
6 METERS	50.000	4' 8"	9' 4"	20' 1"	9' 3"
	54.000	4' 4"	8' 8"	18' 7"	8' 7"
2 METERS	144.000	1' 8"	3' 3"	7' 0"	3' 3"
	148.000	1' 7"	3' 2"	6' 9"	3' 2"

Antenna length calculations are based on the following formulas:
 1/2 wave dipole (feet) = 468/frequency in Mhz
 Full wave loop (feet) = 1005/frequency in Mhz
 Inverted Vee with 90 degree included angle is 90% the length of 1/2 wave dipole.

Note:
 Cut wire slightly longer to allow for connecting insulators and pruning.
 Height above ground, nearby wires, trees, etc. will change tuning slightly.

MILLENNIA
 ARTS

NOTE:

ALL MEASUREMENTS ON THE CHART IS PER LEG

**love CW wrapped in
peanut butter**

