

Nacogdoches Amateur Radio Club

2018 CLUB OFFICERS

Pres: RM Blake - K5AGE

Vice Pres: Jack York - KG5POU

Sec/Treas: Army Curtis - AE5P

Visit our web site at

<http://w5nac.com/>

MISSION STATEMENT

The Mission of the Nacogdoches Amateur Radio Club is to support and promote Amateur Radio by public service, offering training to unlicensed interested parties and licensed Amateurs, mutual support of other Amateurs, engaging events that promote Amateur radio to the general public and other Amateur radio operators, and continuing fellowship by regularly scheduled organized meetings and events and having fun.



DECEMBER MINUTES

The December meeting of the Nacogdoches Amateur Radio Club (NARC) was held as scheduled on December 6th. **President John W5FWR** opened the meeting at 6:25 p.m. in the Parish Hall of Christ Episcopal Church. Ten members and five guests were present. Each person present introduced them self. Minutes of the previous meeting were approved as published. The Treasurer's report was read.

Our 2018 Vice President Jack KG5POU was recognized and installed.

Jack will officially begin his new duties in January.

Meeting was closed at 6:28 p.m., fulfilling our promise that it would be VERY SHORT business meeting this month.

Tom W5TV offered a blessing and the group helped themselves to some delicious pot luck goodies.

At 7:35 our auctioneer Don W5COX began the White Elephant Auction, which saw many great deals and netted the club \$609 for the treasury. Many thanks to all who participated.

2018 DUES ARE DUE

Dues are still just \$24 a year and cover all licensed hams in a family.

FROM THE PRESIDENT



Ham Radio's Excitement is Poorly Translated to Words.

The excitement of ham radio happens all over the place, and I'm not just talking about the location of said excitement. I am talking about every minutia we all love to get into.

I have been just as excited about an amazing conversation on SSB as I have had about finding the right "bleeping" drivers to bring some digital Frankenstein piece of equipment to life. Or, for a more tactile sensation, as

satisfying as a power pole crimped just right. And I know you have too in your own way, especially the longer you have been a ham.

When I listen to the stories of my fellow club members, I feel like I am right there with them, exactly like a successful writer makes you feel THERE with written word.

That kind of talent, either in spoken word, as my fellow members seem to have, or in any another way, sharing a ham memory is one big way we can perpetuate this hobby, amaze another, or boor them to death.

I believe in the community of amateur radio. I believe in people. And I generally believe in peoples' stories, as too much skepticism can cripple a man, just as bad as a bum knee.

73 de RM Blake K5AGE
k5age@fastmail.com

From the VP Chair

The Christmas party was a delight and I am glad that spouses came plus one little one who happened to find the church toys in the cabinets. The radio hobby is an interesting one. Some of the hams in the club were introduced to the hobby as kids from a parent who had an obsession with it. Others stumbled on the hobby because it intrigued their sense of technical expertise and gave them a way to tinker with stuff not work related. Still others, like me, found they wanted to learn something new and so an opportunity was available and time was available. My time just happened to occur while recovering from a surgery.

I have a son named Jack Luke and like most youngsters likes to emulate and so he likes to pretend to talk on the radio with me and

sometimes uses my Baofeng that I left out or maybe some plastic toy he imagines is a radio. Regardless of what he uses, he brings a level of enthusiasm and zeal that is admirable and no less energy than what he gives to other games of imagination like making a box castle or fighting the Black Knight from Monty Python and the Holy Grail.

My point ... we need to remember that to grow the Ham club we must continue to share our enthusiasm in the craft and to continually encourage interest in others. I commend our club members that I have met during the course of my membership as they exhibit a willingness to share stories and knowledge of radio.

73 de Jack York

KG5POU

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NOTES FROM OUR EC

There are still a few days left in the month as I am writing this. Trying to get ahead, I will be going out of town for part of the holidays.

December has continued being weather-centric, rain, cold, no rain, cold, rain, warm. There were reports of tornadoes during the week of the 18th. Haven't heard anything about damages. I did note there was never a comment in the weather narrative from the NWS about requiring ham radio or weather spotters. So, don't try to figure it out, you may go just as crazy as this weather is. Or you may have better luck rolling the bones and seeing what they say.

I went over all of my columns for 2017 and will hit a few of the high points. Obviously weather was on my mind, rain, (not sure if we've caught up or are still behind), tornadoes and 3 hurricanes loomed large, Harvey, Irma and

Marie. Harvey just hammered the Gulf Coast. Irma and Marie weren't kind to the east coast or the Carribean, particularly Puerto Rico. Every place they touched is still rebuilding. We also covered sheltering and the Red Cross Memorandum of Understanding.

We learned a bit about NBEMS and digital modes and net operations. Our Winlink node went back on the air, again residing at the Fredonia Hotel. We operated during Field Day. Sadly the Neches River Rendezvous and Piney Woods Purgatory never came off. Weather cancelled the Rendezvous, the Neches was running too high. We did support the Stone Fort bike ride and brought back a few lessons.

At a National Level, ARRL will be working on some things for ARES. I'm not sure of the full scope, but I will keep you up to date on them.

Thanks to everyone who has participated this year.

I hope to continue hearing you on our nets. If you haven't checked in to our nets please do, it will only take a few minutes of your time and you can test out the new radios you got for Christmas.

I hope Santa Clause was very good to you and yours and I wish you a very Happy New Year.

73 de John Chapman
KC5MIB
jlchapman2@juno.com

VE TESTING

Our next VE testing is scheduled for **Wednesday January 17 at 7:00 p.m.** in the Parish Hall of Christ Episcopal Church.

Applicants should bring a picture ID, the original and a copy of their current Amateur license, the original of any CSCE's and \$15 to cover the cost of the exam(s). Correct change is always very much appreciated. 73 de AE5P

email: ae5p@arrl.net

TWO METER CLUB NETS

Remember to join us each week for the two meter nets sponsored by NARC. Each **MONDAY** is the **NARC ARES/RACES** net, at 8:00 p.m. on the club's 146.84 repeater (PL 141.3). Second, on **THURSDAY** evenings at 8:00 p.m. is the **Deep East Texas Skywarn Emergency Weather Net** on the 147.32 repeater (PL 141.3). Please join us for one or both.

NEXT MEETING

The next meeting will be **Wednesday January 3rd at 7:00 p.m.** in the Parish Hall of Christ Episcopal Church.

UPCOMING EVENTS OF NOTE

Mark your calendars for the following events coming up in the next few months. Full information on these events and much more can be found at <http://www.hornucopia.com/contestcal/contestcal.html>

ARRL RTTY Roundup

Jan 6, 2018

<http://www.arrl.org/rtty-roundup>

North American QSO Party, CW

Jan 13, 2018

<http://www.ncjweb.com/NAQP-Rules.pdf>

North American QSO Party, SSB

Jan 20, 2018

<http://www.ncjweb.com/NAQP-Rules.pdf>

ARRL VHF Contest

Jan 20-21, 2018

<http://www.arrl.org/january-vhf>

SHUTTLE COLUMBIA SPECIAL EVENT

Feb 3, 2018

K5C

CQ WW WPX RTTY

Feb 10-11, 2018

<http://www.cqwxrtty.com/rules.htm>

ARRL INTL DX - CW

Feb 17-18, 2018

<http://www.arrl.org/arrl-dx>

North American QSO Party, RTTY

Feb 24-25, 2018

<http://www.ncjweb.com/NAQP-Rules.pdf>

ARRL INTL DX - SSB

Mar 3-4, 2018

<http://www.arrl.org/arrl-dx>

CQ WW WPX - RTTY

Mar 24-25, 2018

<http://www.cqwx.com/rules.htm>

SAN JACINTO DAY SPECIAL EVENT

Apr 21-22, 2018

K5T

Electronic Circuit Simulators II

by

Thomas Atchison, W5TV

As a continuation of our discussion of Circuit Simulators let's go to www.softpedia.com/get/Science-CAD/Circuit-Simulator.shtml and get a particular circuit simulator.

If you are using a windows machine this URL will present you with a window that will allow you to download **Circuit Simulator 1.6i for Windows**. This is an easy to use Java-based application that can simulate many interesting circuits and will also provide customizable options. This program will create animations that will help visualize the elements in a circuit. It comes with a pre-existing library of circuit demonstrations, so all you have to do is select which one you want to run. The simulations are grouped in various categories such as 'Basics', 'Passive Filters', 'Diodes', 'Transistors', etc. For example, the 'Basics' group will help you to visualize Ohm's Law, Resistors, Capacitors, or Coils. The 'Passive Filters' group will help demonstrate Low-Pass filters, High-Pass Filters, Band-Pass Filters, and many more.

Circuit Simulator 1.6i will allow you to add elements to an existing circuit to customize it to suit your needs. The newly created circuits can then stored in TXT format files so you can re-use them or further modify them at a later time. Using this process you can create a library of circuits of interest and expand your knowledge of these circuits.

Your download of **Circuit Simulator 1.6i** is a zipped file. You will need to unzip it in a folder of your choice. I used a folder called 'Circuit Simulator' on the C-drive. After you have unzipped your download you should have a file in the folder 'Circuit Simulator' called 'circuit' along with your original zipped file with the same name. Double click on the **unzipped** file called 'circuit' and you will see a long list that includes a Java Applet as an executable file. The symbol should look like the following:



Double click the Java Applet and you will have a window that is running a default LCR circuit with a switch and two additional components. The switch is open and the current flow is shown by the yellow dots. The bottom shows the voltage variation in each of the components. You close the switch by single clicking on it. This creates a loop which includes the 1 mH inductor, a 100 ohm resistor and a DC voltage source of 5 volts.

If you click on the 'Circuits' drop down menu you will see the many groups of circuits contained in the application. For example, if you click on Basics and then click on Ohm's Law you will see a simple circuit showing 5 volts and two resistors, one at 100 ohms and one at 1K ohms. The resulting current through the 100 ohm resistor is 50 mA and the current through the 1K ohm resistor is 5 mA according to Ohm's Law, i.e.

$$I = \frac{E}{R}$$

These will show on the simulation.

If you right click on the 100 ohm resistor and select edit from the menu you can replace this resistor with a 500 ohm resistor and the circuit will immediately show the new current at 10 mA.

This should get you started with a very easy animated simulator. I hope you will explore the various possibilities. In particular, return to the various filters that we have discussed in previous articles. These will be under Circuits > Passive Filters. Make changes in the simulations that correspond to the filters we studied and see what the Java app does. This opens up a whole new world of circuit analysis. Have fun.

MULTIPLIERS

by Army Curtis, AE5P

Being the age that I am, I still remember when small value capacitors were measured in micro-micro farads (uuF). Then there came a time when it was decided that henceforth, such values would be shown as pico farads (pF). Okay, I can handle that. A pico farad is the same as a micro micro farad. No problem. But then I started receiving small capacitors with the value marked in nano Farads (nF). Now it doesn't take a whole lot to confuse me, and this new marking scheme did a number on me. What exactly is a nano farad and how exactly does it fit into the overall scheme of things? Time to ask Google and find out once and for all. Whoa! Turns out there are a whole bunch of multipliers, both large and small, many of which I had never heard of and I figured some of you might have the same problem. So, here is a list of the 'officially approved' multipliers listed by powers of 10. If powers of 10 create a new set of problems for you, please let me know. This might make a great subject for a program one month.

yotta	Y	10^{24}	septillion
zetta	Z	10^{21}	sextillion
exa	E	10^{18}	quintillion
peta	P	10^{15}	quadrillion
tera	T	10^{12}	trillion
giga	G	10^9	billion
mega	M	10^6	million
kilo	K	10^3	thousand
hector	H	10^2	hundred
deca	DA	10^1	ten
		10^0	one
deci	d	10^{-1}	tenth
centi	c	10^{-2}	hundredth
milli	m	10^{-3}	thousandth
micro	u	10^{-6}	millionth
nano	n	10^{-9}	billionth
pico	p	10^{-12}	trillionth
femto	f	10^{-15}	quadrillionth
atto	a	10^{-18}	quintillionth
zepto	z	10^{-21}	sextillionth
yocto	y	10^{-24}	septillionth

**MY TWO CENTS
FOX WILLY ROGER**

JANUARY 2018, MISS ME YET?

I feel that I handed over the club into good hands, go forth and have fun, if you need a hint, use this one, put a lipstick smear on your collar after one of the meetings and see if your YL picks up on it, and tell her that it was a mixer!

Do you have any money left after the Christmas party, if so you didn't try hard enough, you do know that the extra money was for the kids, they didn't know about it so why sweat. Money well spent on the club is good for the N.A.R.C.! So don't sweat it? I informed AE5P that my **TWT** was in the process of shutting down, and that I would not be continuing with my column anymore. I was informed that I was "president emeritus" and was expected to continue with the column. I took this text to a fast food place and showed the text to the manager, I left with the worst meal I have ever had and a \$15 tab, so much for that.

QUESTION:

How come women can look at a new born baby and say "he/she looks just like"?

Why is it that Detroit produces most of their autos that looks like the other autos from the other makers?

Why is it that when you fill your tank with gas, it takes forever to use it to the half way point, but when it gets to the half a tank mark it empties much faster?

The word tree is still taking a long, long, long winter's nap.

REMEMBER:

Remember "A little dab will do ya"?

Remember leaded gas?

Remember white gas?

COMMENTARY:

What the HELL is going on with this country?

Take a knee, to me always meant that you were going to pray, now a group of athletes, at a sporting event, a game meant for fun, decided to rebel over something or other at

a game by kneeling during the National Anthem, a tribute to our country. Now what the gripe that these players thought they had I don't care, this was the wrong time and place to pull this crap, and these players make a lot of money, money that the people of this country provided to them thru salaries and endorsements, to mention a few perks. Some of these players make Millions of dollars. These people "celebrity type" are using their status to promote this crap, what if a common person were to do this, how much media would be given? Why doesn't the government show them the door out of our country, and reserve the seat next to them for the owners of these teams. The players didn't get a thing done to them, not even a slap on the wrists. What if the commentators in giving the player stats, would give the criminal offence? When did this country start praising the wrong doers? I can't understand this.

USA, LOVE IT OR LEAVE IT !

GUEST COLUMNIST

JACK TALDI

THE CRAZY CAT GUY:

Agatha Christa doesn't have a thing on my QTH, ten little Indians I am referring to. That's right, another cat disappeared this week, I am down to eight or nine **YCs** and one visitor. Let's not forget the buzzards, and two **HCs** that I can't remove from the QTH with a load of TNT. On the more pleasant days I open a window to let some fresh air in, the **HCs** take this opportunity to monitor the back yard. First come first served is the law here, as it is with everything in this house. This last go around, **RP** was the first to get "front row center" and proceed to watch the Red Bird at the feeder, and **TB** watched **RP** watching the feeder. One thing I have noticed is that one **HC** will not force the other from whatever is going on with the other. Feeding time is something else, **HCs**, **TB** has to be first, some kind of Alpha thing going on there, this doesn't seem to bother **RP** one bit, she just waits her turn. The **YCs** is somewhat different, first six of the eight do battle to be first to enter into the hall and then get out to the food, the last two just wait for the food. The feeding has been refined down to, first the bread "of course day old " these cats have gotten where that plane white sandwich won't do, French is first on the menu for them. Next is left over, and next is a third of a can of caned wet, and last is store bought dry. A four, or is it five course meal, most every day, I should eat so well. The other day one of the **fluffy** showed up with a field mouse, after getting approval from me, started a ballet that would equal that of the Nutcracker suite, the next cat to chime in was a striped one, that dance was Swan Lake, and all for free.

Sweet Pea couldn't wait to get outside and run with the big ones, she too is among the MIA.

Rag a muffin "RAGS" showed up at my door, after being OWOL, all beat and broken and then a few days later disappeared for good?

DOGS HAVE MASTERS

CATS HAVE SERVENTS

**"THOUSANDS OF YEARS AGO CATS WERE WORSHIPED AS GODS
THEY HAVE NEVER FORGOTTEN"**

**BE THE KIND OF WOMAN/MAN THAT WHEN YOUR FEET HIT THE GROUND
EACH MORNING THE DEVIL SAYS, "OH CRAP, THEY'RE UP!"**

LIVE WELL, LAUGH OFTEN, LOVE MUCH!!!

KEEP YOUR POWER DRY AND YOUR HEAD BELOW THE HORIZON

HAPPY TRAILS

John Cechin W5FWR

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