

Nacogdoches Amateur Radio Club

2017 CLUB OFFICERS

Pres: John Cechin - W5FWR

Vice Pres: RM Blake - K5AGE

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.



JULY MINUTES

The July meeting of the Nacogdoches Amateur Radio Club (NARC) was held as scheduled on June 7th. **Secretary/Treasurer Army AE5P** opened the meeting at 7:00 p.m. in the Parish Hall of Christ Episcopal Church. Eleven members were present. Each person present introduced them self. Minutes of the previous meeting were approved as published. The Treasurer's report was read.

Robert KD5FEE gave a report on his working the 13 Colonies Special Event Stations. Robert was

successful in working all 13 colonies plus one additional special station.

The Field Day coffee mugs were distributed to those present. Efforts will be made to present mugs to our special guests at Field Day who do not normally attend our monthly meetings.

Meeting closed at 7:30 p.m.

Ice Cream Social:

Lots of ice cream and other goodies were present, and those in attendance were treated to quite the fest. Several flavors of Blue Bell were seen, as well as some genuine home-made. There were even two home-made pecan pies compliments of Rusty KD5GEN and they were delicious.

MY 2 CENTS

FOX WILLY ROGER

AUGUST 2017

Mugs or cups; whatever you want to call them, what the hell is going on? You want compensation for "participating" in your hobby? Gentlemen, this is a hobby, a hobby you chose to join and enjoy so what is all this crap about getting something to put on your work table to get bumped and broken? If you have to have something get a used jelly jar for this, cleaned or not, your choice. Get some magic markers and design the jelly jar the way you want. People, get back on the track. For 20 plus years AE5P has acted as S/T of this NARC, not to mention the newsletter. Why? For the love of this hobby and to keep this club afloat. People I vote NO.

So what else has going on in my absence?

It's almost time for the TXQSOP in September

and as usual AE5P will fill the club in on what else is going on. Don't expect a cup or mug for these events. Just think if you do a jelly container for each event you could have a shelf of rewards each different from any one else.

I visited FIELD DAY and saw a good clean area, good ice cream and peach cobbler, and the reliable operators, Bob on the key, and Tom on side band, thanks guys. The mayor dropped by to say hello, thanks to all for making this a good event.

Questions:

When did the term mug to cup happen?

What's the difference between jelly and jam?

Who invented the bottle opener and beer can opener?

The word tree is still slow; I can push her just so much, and you know what happens when a woman is pushed too much?

REMEMBER?:

Just wait till your Father gets home.

Cane fishing poles.

10 cents a gallon gas.

Gravity or visible, fuel dispensers.

THE CRAZY CAT GUY:

All the cats, both inside and outside, have slowed down a bit. The inside cats find a spot and don't move about, the temp both inside and outside are about the same, the A/C went out on the 4th of July, its hell to go outside to cool off, all there is left to do is pray for a short summer and a long winter.

The pride is strong as ever, twelve kittens, about ten adults. And let's not forget TB and RP.

Rag-A-Muffin is still the smallest of them all. She can run/walk under any of the other cats. When I feed them I make sure

that she and Mother have food.

The child/pet barrier seemed to work fine for a few days, the first was one of the Cloud Brothers trying to climb over, next a few figured out that jumping the barrier was easier,

Rolly and TB watched and now they jump the fence just to upset the other cats, TB seems to get so much fun out of this.

I get these Meals on Wheels, once a week, chicken, beef, pork, with sides, some of the sides I am not eat due to the Afib. I now lace the dinners with garlic and eat what I can, the rest goes to the outside cats, carrots, corn, beans and more, the cats are turning into real dagos.

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

Spaces for rent, contact W5FWR for information.

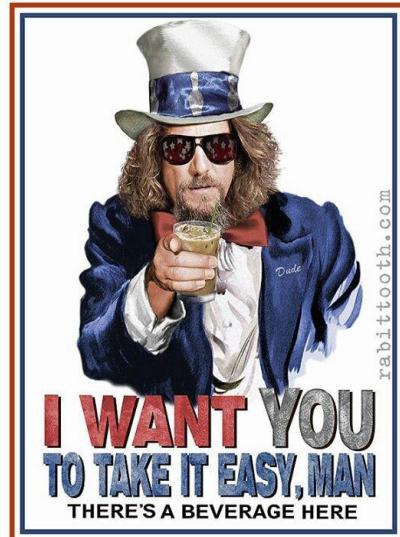
LIVE WELL, LAUGH OFTEN, LOVE MUCH!!!

Let me know what you think, only if it's positive.

KEEP YOUR POWER DRY
AND YOUR HEAD BELOW
THE HORIZON.
HAPPY TRAILS

John Cechin W5FWR
Carrots4ever2@gmail.com

FROM THE VICE PRESIDENT



I want to do something different, not just because I am crunched on time, but because I think you will enjoy this quote from my favorite professional motorcycle racer. I have never witnessed such an incredibly up and down career handled with such grace.

Attitude

The longer I live, the more I realize the impact of attitude on my life. Attitude to me is more important than facts. It is more important than

the past, education, money, than failures and successes, than what people think, say or do.

It is more important than appearances, ability or skill. It would make or break a company, church and home.

The remarkable thing is that we have a choice everyday regarding the attitude we embrace for the day. We cannot change the past, we cannot change the fact people will act in a certain way and cannot change the inevitable. The only thing we can plan on is the one strength we have and that is our attitude. I am convinced that in life ten percent is what happens to me and ninety percent is how I react to it. And so it is with you, we are in charge of our attitude. Attitude is everything.

Doug Henry

73 de RM Blake K5AGE
k5age@fastmail.com

NOTES FROM OUR EC

Hasn't July been a wet month? I haven't dug around the historical data but it seems that July '17 is wetter this year than last. It's nice to get the rain, but it drives the humidity up and means I have to harvest the weeds more often.

Continuing along the weather front, the hurricane season seems to be very active. Tropical Storm Don fizzled out due to high level winds. The NHC advises no Atlantic activity expected during the next 24 hours. Maybe the trend will continue, knock on wood.

Army posted in an email blast this week the status of our Winlink Gateway at the Fredonia Hotel. He (and some un-named confederates I'm sure) is (are) getting the equipment tightened up and writing an installation and operations guide for Winlink. If you don't have Winlink on your computer

(points finger at self) please do so. All of the orange boxes have a TNC (terminal node controller). Most of us will need a USB to RS232 DB9 adapter cable. Buy a good one, some aren't as good as others. I'm sure you can source them at all the usual places.

We have practiced passing message traffic via AndFlmsg and FLdigi. Winlink is just another tool in your tool box to send/receive record traffic.

DETARC is again asking for volunteers to help with the 2017 Edition of the Pine Woods Purgatory 7 October 2017. Please contact Megan Glass at

mglass08070@gmail.com

The website is www.pineywoodspurgatory.com

Does everybody have their solar eclipse plans made?

ARES/RACES Net,
 146.840 -, 141.3 hz tone,
 Monday, 8 PM Local time
 SKYWARN, 147.320 +,

5

Nacogdoches ARC

141.3 tone, Thursday, 8 PM
Local time

73 de John Chapman
KC5MIB
jchapman2@juno.com

VE TESTING

Our next VE testing is scheduled for **Wednesday August 16 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 August 2nd at 7:00 p.m.** in the Parish Hall of Christ Episcopal Church. There is a program planned that I think all will find very interesting. And there might even be some Show and Tell on the new Flex SmartSDR Version 2.

VE TEST RESULTS

No one presented themselves for testing this past month. The VE team however had a great time socializing. Remember that we hold testing for all classes of Amateur Radio licenses the third Wednesday of every month. Full details are

available on the club website

<http://w5nac.com/>

Many thanks to our VE team members who make these tests possible every month.

SPECIAL OPERATING EVENTS

Well okay, the cat is out of the bag. Our Special Operating Events are really roving in the VHF contests. A group of six rovers participated in the June ARRL VHF contest, starting in Texarkana at contest start Saturday at 1:00 p.m., and working from a total of 4 grids before getting back home brain dead and worn out, but in a good way. Sunday the group travelled down to Jasper to work 2 more grids, but then got side tracked to visit the hanger and airplanes of WA5GVQ at Pineland Airport. Very neat stuff. Being way past lunch time, the group then travelled to the K5QE contest station in Hemphill

where we were treated to heaping plates of spaghetti.

In July, a smaller group participated in the CQ VHF Contest, which involves just 6meters and 2meters, making contacts much faster. At the suggestion of WA5GVQ, we tried a different route that resulted in much less driving and more grids. As to be expected, there were some surprises and challenges, but the group persevered and made lots of contacts. Sunday the group travelled down to Nederland for more surprises and challenges, but again persevered and made lots more contacts, followed by a great lunch at Papadeaux's in Beaumont.

The final result was more contacts made from more grids with considerably less time spent driving. A lot was learned from the experience, and we will definitely try this route again.

The next VHF contest is the ARRL September VHF

contest the weekend of September 8th. We operate the four lowest bands at 50, 144, 222, and 432 MHz. To keep things as easy as possible, all operation within the group is FM, which simplifies equipment and tuning. You don't have equipment for all 4 of those bands? No problem. Use what you have. A dual band hand-held works just fine. An external mag-mount antenna for your HT will definitely help.

If you want a fun way to spend a weekend, get to know some fellow club members better, and improve your operating skills, come join us in September. Contact AE5P if you're interested.

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>

Shreveport Hamfest

August 12
<http://k5sar.com/>

NAQP SSB

August 19 - 20
<http://www.ncjweb.com/NAQP-Rules.pdf>

ARRL September VHF

Sept 8 - 10
<http://www.arrl.org/september-vhf>

CQ WW DX RTTY

Sept 23 - 24
<http://www.cq-amateur-radio.com/>

TEXAS QSO Party

Sept 23 - 24
<http://www.txqp.net/>

CQ WW DX SSB

Oct 28 - 29
<http://www.cqww.com/rules.htm>

ARRL Sweepstakes

CW
Nov 4 - 6
<http://www.arrl.org/sweepstakes>

ARRL Sweepstakes

SSB
Nov 18 - 20
<http://www.arrl.org/sweepstakes>

CQ WW DX CW

Nov 25 - 26
<http://www.cqww.com/rules.htm>

ARRL 160M Contest

Dec 1 - 3
<http://www.arrl.org/160-meter>

ARRL 10M Contest

Dec 9 - 10
<http://www.arrl.org/10-meter>

Basic Filters - Part 8

by

Thomas Atchison, W5TV

Now let's consider some things that can happen if we combine a capacitor, C , and an inductor, L , in a circuit. There are several ways these can be combined; however, the two simplest ways are to place them in series or to place them in parallel. An example of a series circuit is shown in Fig. 1

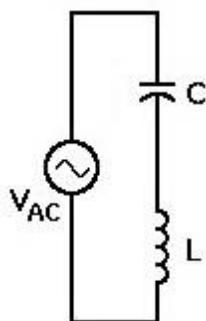


Fig. 1

The inductive reactance, X_L , is given by

$$X_L = 2\pi fL$$

This reactance increases as the frequency, f , increases.

The capacitive reactance, X_C , is given by

$$X_C = \frac{1}{2\pi fC}$$

This reactance decreases as the frequency, f , increases.

At one particular frequency, these two reactances are equal in magnitude but opposite in sign. That frequency is called the resonant frequency for the circuit and will be denoted as f_0 .

This resonant frequency will occur when

$$X_L = X_C$$

Therefore,

$$2\pi fL = \frac{1}{2\pi fC}$$

Solving for f we see that

$$f = f_0 = \frac{1}{2\pi\sqrt{LC}}$$

The total voltage, V , is the sum of the voltage across the inductor, V_L , and the voltage across the capacitor, V_C . That is

$$V = V_L + V_C$$

The total current, I , is the same as the current through the inductor, I_L , and the current through the capacitor, I_C . That is

$$I = I_L = I_C$$

In this series circuit, X_C and X_L cancel each other; therefore, the current supplied to this series resonant circuit is a maximum at f_0 . For $f < f_0$ the magnitude of the capacitive reactance is larger. In this case we say that the circuit is capacitive. For $f > f_0$ the magnitude of the inductive reactance is larger. In this case we say that the circuit is inductive.

As the frequency of the applied signal approaches the resonant frequency, f_0 , the total impedance approaches zero. This means that the series LC circuit, when connected in series with a load, will act as a notch filter having zero impedance at the resonant frequency of the LC circuit.