

# Nacogdoches Amateur Radio Club

Pres: Andy Delgado - KE5EXX

VP: Lon Glaze - AE5BN

Sec/Treas: Army Curtis - AE5P

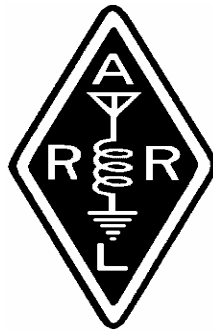
## FEBRUARY MINUTES

The February meeting of the Nacogdoches Amateur Radio Club (NARC) was held as scheduled on February 2nd. Twenty-one members and four guests were present. **President Andy, KE5EXX**, opened the meeting at 7:00 p.m. in the Parish Hall of Christ Episcopal Church. Each person present introduced himself. Minutes of the previous meeting were approved as published. Treasurer's report was made.

### Old Business:

No change in status on the 147.32 repeater.

The January VHF contest had many club participants.



AE5BN/N5AIU were rovers, as were KE5EXX/KE5GAQ, AE5P/NH6VJ, and KE5CLR/KE5CLQ. K5QE improved his multi-multi score by 25% over last year.

Shuttle Special Event Station stats were given by **Andy, KE5EXX**.

Special Service Club renewal certificate received from ARRL HQ.

Skywarn: **Kent, KD5SHM** noted that there was a lot of severe weather damage yesterday.

Meeting was adjourned at 7:50 p.m.

Program by Lon, AE5BN on their rove in the January VHF contest.

## DUES ARE DUE

Reminder that dues for 2008 are now due. Dues are \$24 per year and cover all licensed hams in one household. You can pay the Treasurer at the club meeting, or mail him a check at his callbook address. Please inform the Treasurer if you are a current ARRL member.

## NEW MEMBERS

Please help us make welcome the following new club members:

Richard Watkins  
Philip Whitley  
Scott Harclerode

## PRESIDENTIAL POSTULATIONS

You know, sometimes you don't know what people are capable of until you ask for help. Rusty, KD5GEN, really went the extra mile for us this past month. At the February meeting, I asked Rusty to look at several different possible locations for our use for Field Day 2008.

Not only did Rusty look at each site that we talked about during the meeting, he added a few more to the list and came up with a way to rate each one on several different criteria. Then he went above and beyond to create a PowerPoint slideshow for us to view during the March 2008 meeting. THANK YOU RUSTY!

While I'm naming names...I had the opportunity to review the Constitution and By-Laws for the club. I've found that we are not doing all that we said we would when the NARC was chartered in 1996.

According to the By-Laws, we are to have a Repeater Management Committee; please read the following:

REPEATER MANAGEMENT COMMITTEE. At such times as the club shall own or control the operation of an amateur radio repeater or repeaters, there shall be a Repeater Management Committee, elected at the annual meeting in the same manner as the officers of the club are elected, consisting of three members, all of whom shall hold a permanent class amateur radio license. Each member shall be elected for a three year term; however, at the outset, the original members shall be elected for one, two, and three year terms and thereafter for three years each. The authority of said committee shall be to do each and everything necessary so as to insure the proper maintenance and operation of said repeater(s); and to keep the radio call sign of said repeater(s) current and in force. The committee shall

make its written report to the membership at the annual meeting.

So the long and short of it is that I will ask a few of you to be members of the committee. Right now Army and Kent have taken the mantle for the maintenance and operation of the repeaters. I bet they could use a break. If you are interested, please let me know.

Speaking of repeaters... take a look at [www.saltgrass.com](http://www.saltgrass.com) and get an idea of the Saltgrass Repeater Network. Lufkin is the newest member of the Saltgrass Family with a UHF linked repeater at 444.425 MHz, positive 5 MHz offset, with a PL tone of 203.5 Hz. This is pretty amazing! I've had the chance to talk to Galveston, Clute, Pearland, Houston, and Kingwood - all from Nacogdoches. Check the website for operating courtesy.

Don't forget we'll be deciding on the wording for our Mission Statement, choosing the

location for Field Day, discussing the Lufkin Hamfest, and most of all, having a good time at the next Nacogdoches Amateur Radio Club meeting.

73 de KE5EXX

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## HAMMING IT UP

Several of us made the trip to the Orange hamfest. John Jordan and I tailed each other down that Friday night. We used 2m simplex that night. We did use one of the Beaumont repeaters to get in touch Saturday morning before switching over to 2m simplex.

For those of you who stayed home, don't feel too bad about it. You didn't miss much. I have begun to think that I might have missed the golden days of Texas hamfests. The high point

of the hamfest for me was visiting with fellow club members. I did make a couple of purchases. We were all standing around in the back and a guy walks in with a like new Antec mid-tower computer case. I followed him to his table and watch him put a \$20 price tag on it. I took a closer look. My motherboard would fit. It included a new 380 watt power supply and a 120mm rear exhaust fan. I couldn't help myself. I had to get it. I later checked when I got home and found that it was \$80 online. I put my old computer's components in and everything worked fine. It is a much better quality case. The only other purchase I made was a 500ma wall wart that supposedly had settings of 3, 4.5, 6, 7.5, 9, and 12 volts. I checked it later and found that it actually had settings of 5.7, 7.8, 9.9, 12.3, 14.6 and 20v. It does worry me some but I guess I might still make a spare charger out of it.

Army, Rusty, Dr. Tom, John, and I met up later at

Sartins West in Beaumont for some fun, fellowship and fine seafood. Dale and Curtis from Huntington also joined us. Marshall, Bill, Dustin and some of the others went to a place in Orange. I can't remember where. We will have to find out if that was any good.

My wife's been wanting something a little bigger than her 92 Toyota Camry to drive. With gas prices as high and not looking to go down. I figured I would get her something newer to drive and I could start driving her old car back and forth to work. I went by the Toyota dealership in Beaumont after our lunch and attempted to look at a Toyota Rav4 with a 3rd row seat. They had already sold it. That's my luck. A day late and a dollar short. I haven't got her talked into letting me put a radio in it when we get it, but I am working on it. She has finally agreed to let me put a radio in the old car when I start driving it. I do have to make a decision on what I want to get to put in it.

It does have a moon roof so a roof mount antenna is probably out. Might go with a NMO mount through the trunk lid or on an L Bracket.

I will have to miss the meeting this month. We are going on vacation to Hot Springs, Arkansas. I will catch you all next month.

73, AE5BN Lon

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### VE TESTING

Our next VE testing is scheduled for Wednesday, March 19th 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 \$14 to cover the cost of the exam(s). Correct change is always very much appreciated.

73 de AE5P

email: [ae5p@arrl.net](mailto:ae5p@arrl.net)

### CLUB NETS

Remember to join us each week for the 2-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 Net on the 147.32 repeater (PL 141.3). Please join us for one or both.

### NEXT MEETING

The next meeting will be on Wednesday March 5th at 7:00 p.m. in the Parish Hall of Christ Episcopal Church. The church is at the corner of Starr and Mound Streets in Nacogdoches. If you have items for show and tell, please bring them. Hope to see y'all there.

### Basic Electronics Part Twenty Four By Thomas Atchison

As we considered in Part 23, we will continue to look at a simple circuit with a single inductor as in Fig. 1

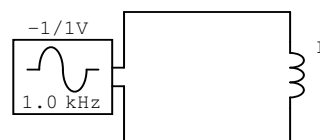


Fig. 1

You see there is an applied voltage on the inductor that forces a current through it. This applied voltage is not in phase with the current through the inductor. Suppose the applied voltage starts with a positive peak at 0 degrees. The current begins to flow rapidly through the inductor. As the applied voltage decreases to 0, the current through the inductor peaks. The applied voltage now increases in the negative direction and the current decreases to zero when the applied voltage is at a negative peak. The current begins to flow rapidly in the opposite direction until it reaches a peak. That peak occurs when the applied voltage is back to zero. Then the applied voltage increases in the positive direction to a peak value, causing the current to decrease to

zero and the process begins again. See Fig. 2

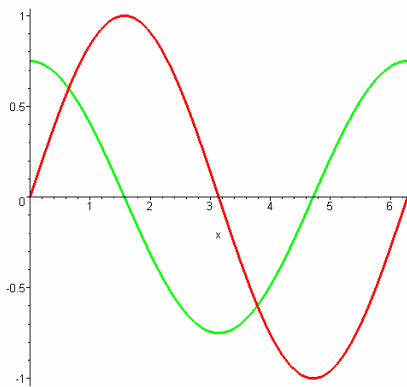


Fig. 2

Here the green curve represents applied voltage across the inductor and the red curve represents current through the inductor. The applied voltage leads the current by 90 degrees.

Now consider our discussion in Part 23 concerning current through an inductor and induced voltage. There the current leads the induced voltage by 90 degrees. Putting these together we see that the applied voltage and the induced voltage are 180 degrees out of phase. The induced voltage is sometimes called the back electromotive force (EMF). See Fig. 3

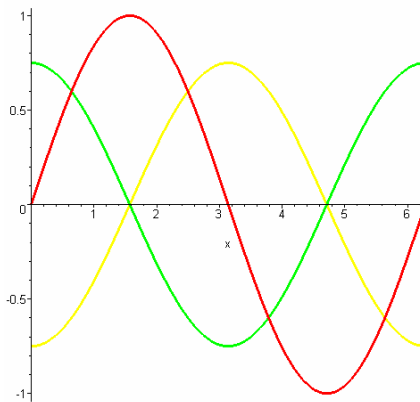


Fig. 3

Here the added yellow curve is the induced voltage or back EMF. Notice that the applied voltage (green) and the induced voltage (yellow) are 180 degrees out of phase. The applied voltage tries to produce current through the inductor and the induced voltage tries to prevent it.

In the next discussion we will see what happens when we include both an inductor and a capacitor in series with an alternating voltage source.