

# Nacogdoches Amateur Radio Club

## 2012 CLUB OFFICERS

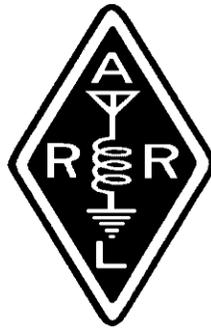
Pres: Rusty Sanders - KD5GEN

VP: Mike Brown - KF5KEY

Sec/Treas: Army Curtis - AE5P

## 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.



## APRIL MINUTES

The April meeting of the Nacogdoches Amateur Radio Club (NARC) was held as scheduled on April 4th. **President Rusty KD5GEN**, opened the meeting at 7:00 p.m. in the Parish Hall of Christ Episcopal Church. Sixteen members and two guests were present. Each person present introduced himself. Minutes of the previous meeting were approved as published. The Treasurer's report was read.

Bill, WK5F showed his build of the N6NB tri-band quad. This is the antenna that was featured

in W5TV's antenna column in last month's newsletter. Check Tom's column this month for an interesting alteration to the antenna. Several members indicated they were interested in building one of these antennas. More information will be available at our May meeting.

Events coming up include:  
Belton Ham Swap Meet  
Neches River Rendezvous  
June VHF Contest  
HamCom in Plano  
Field Day

Info on these events and more at our next meeting.

Meeting adjourned at 7:25.

## OSCILLATIONS FROM THE CHAIR

Hello to all the readers of the NARC newsletter. It has come down to the midnight hour and AE5P reminded me that another newsletter was needed quickly.

This next week, we have our monthly club meeting and I hope to see everyone there that can attend. The man from Caney Creek Molding who will be donating the wood for our three-band antenna project is supposed to call this week and I will go pick up the wood for the project. He will be running some hickory through his mill and we will use the leftover strips for this project. We will be letting all of you know when we plan work parties for this antenna project. We will need to have the antennas finished before the June VHF roving event.

Over the past month, I happened to notice a name on a friend's Facebook page, which rang a bell

from college days 45 years ago. The guy was from San Augustine and was a ham radio operator then and over the years, he has maintained his license. I touched base via Facebook and we then arranged a QSO on 3785 one night. It was great being able to catch up on an old friend and what had transpired over the years.

The Neches River event is coming up in June and as always, ham operators are needed for the event to provide communications. I will be out of the area during this event but if any of you would like to assist a great cause and event, please do so. Just make contact with Jerry Wilson or the Angelina club for additional information.

Toward the end of June will be the ARRL Field Day event. We need to discuss this event at our next club meeting. AE5P has made contact with the proper city official regarding the possible use of the Emergency Command Trailer and a spot at the

airport should we have the interest of club members to set up and operate from that spot. Field day is great for people to get together and show what our club can do to provide communications for our community in a time of need. Many other benefits can be had with interested citizens viewing and operating the station.

Please set aside time in your schedule to come to the meeting and offer your thoughts to how our organization can be better.

Hope to see you at the meeting!

KD5GEN- Rusty

email:

[rusty.sanders@att.net](mailto:rusty.sanders@att.net)

## FROM THE VICE PRESIDENT

Hello to all. It's hard to believe that another month has passed and it's time for the NARC newsletter again. It has been a busy first half of April, but, with the exception of Uncle Sam's

April Tax Follies and the resulting feeling of abject poverty, the month has been great. More great rain; a relaxing of the water restrictions and grass that is actually green for a change. You never know how much you miss rain until you don't have it. Atta girl, Mother Nature, keep it up....

All of which has absolutely nothing to do with amateur radio doings, so here goes. As I have been a ham for something less than a year, the vast majority of things ham-related are new to me and, therefore, somewhat exciting. I was really looking forward to the hamfest that was held in Orange a month or so ago, and I was going with a group of gentlemen who are widely experienced in all things relating to ham radio. There was Bill Krause, WK5F, Tom Atchison, W5TV, Army Curtis, AE5P, and me, KF5KEY. We arrived very early and were able to get in before it actually opened. I was expecting worlds of beautiful equipment and supplies,

anxious vendors ready to ply me with bargains so fabulous that we would have to rent a trailer just to carry my acquisitions home, hours and hours of browsing amid electronic treasures....I couldn't wait....

Suffice it to say that the reality was somewhat less than the dream. It looked like an Al-Qaeda yard sale after the attack. After taking a max of 30 minutes to prowl through this treasure-trove, I did it again thinking that I must have simply missed the GREAT stuff. After being disappointed again on the second go-round, I thought that I would go outside as see the tailgate offerings...surely that's where the good stuff was. Wow...the good stuff was inside...I couldn't believe what I was looking at. I actually felt embarrassed for the folks who were offering this stuff. These were the people who bought the leftovers from the Al-Qaeda yard sale! I looked around for the poor box to make a donation, but I

couldn't find one....

Bright note....Army found us a great place to eat breakfast.

And now to the flip side. We left for the Belton hamfest on Friday, April 13th, a very auspicious start date. There was Army, Tom, John Cechin and me. We all piled into Army's truck and headed for Belton. Tom and Army were very familiar with this area and we stopped at a great restaurant for lunch and then made our way to the Bell County Convention Center, a huge place with acres of parking and acres of tailgate offerings. The pickings here were much better than Orange. We drove inside (yes, drove) this facility and found our tables and unloaded and set up all our gear that we had brought to sell. The sale didn't start until Saturday, but hams will be hams, and there was quite a bit of looking and buying and selling before the non-vending hams arrived the next day. We finally had everything set up for the

sale, made our way back to the motel, ate a fine meal and turned in early anticipating an early start for Saturday.

We arrived the next morning a little before 7:00 AM, and the place was humming. There was something there for all. A lot of vendors from various companies with worlds of new gear, worlds of tables set up by individuals and/or clubs with a little bit of everything. There was a great carnival-like atmosphere and a fun time was had by all. This hamfest was everything that Orange wasn't. It had it all from trash to trinkets to treasures. We all sold quite a bit of the gear that we brought. We didn't go wild with new purchases. The whole idea was to help clear out the shack, and we went a long way towards doing that. The truck was a great deal lighter on the way home. John bought himself a great new Tarheel antenna, Tom and Army got a few things that they simply couldn't live

without, and I went whole-hog: ten wire terminals and a name badge....

If you get a chance to go to Belton, do it...no Al-Qaeda in sight....

73 to all....

KF5KEY - Mike

Email:

[michaelleebrown@hotmail.com](mailto:michaelleebrown@hotmail.com)

## VE TESTING

Our next VE testing is scheduled for Wednesday, May 16th 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](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 Emergency Weather Net** on the 147.32 repeater (PL 141.3). Please join us for one or both. We are always looking for folks who would like to become net control operators. If you are interested, please contact any of the existing net controls. We will be pleased to help you in any way we can.

## NEXT MEETING

The next meeting will be on **Wednesday May 2nd** 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. Please come join us and bring a friend.

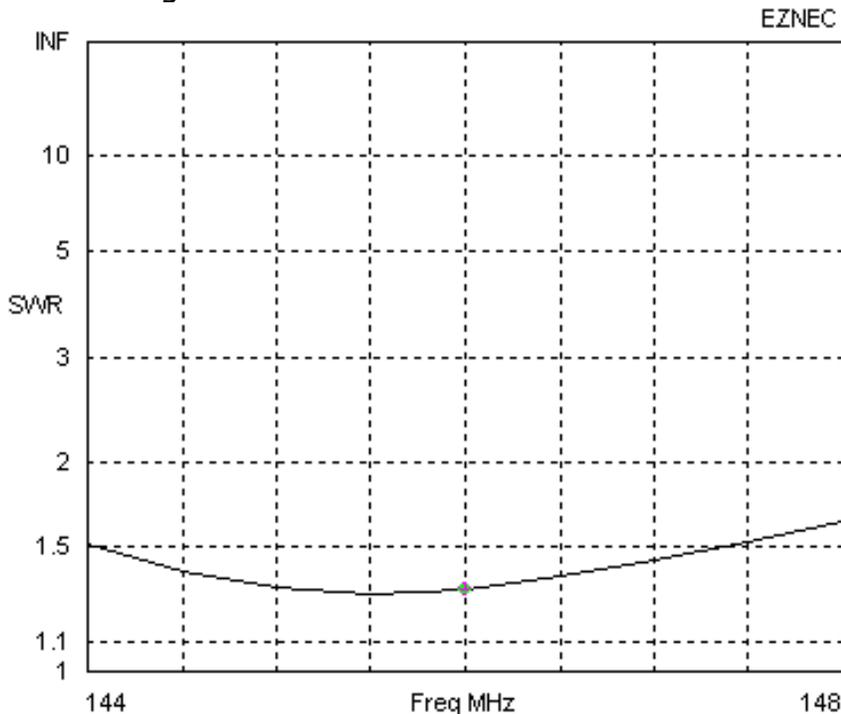
## BASIC ANTENNAS

### PART 42

by

Thomas Atchison W5TV

If you want to use the three band quad antenna as described in Basic Antennas Part 41 on 2 meter FM in the region from 145 to 148 all you need to do is rotate the feed point 90 degrees. I simulated this by feeding the 2 meter portion of the antenna on the side at element 2. This gives us vertical polarization and the SWR sweep from 144 to 148 is shown in Fig. 1.



Freq	146 MHz	Source #	1
SWR	1.3	Z0	50 ohms
Z	65.05 at 1.15 deg. = 65.03 + j 1.307 ohms		
Refl Coeff	0.1312 at 4.32 deg. = 0.1308 + j 0.009875		
Ret Loss	17.6 dB		

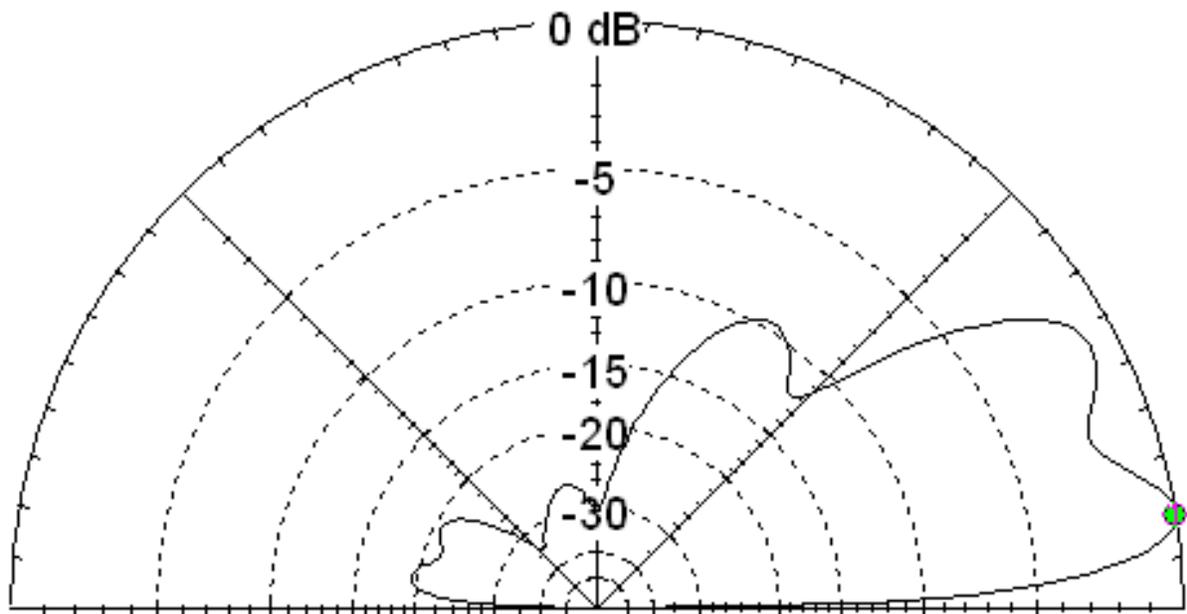
Fig. 1

Notice that the SWR at 146 MHz is 1.3.

The elevation radiation pattern and data for 146 MHz is shown in Fig. 2.

### Total Field

EZNEC



146 MHz

#### Elevation Plot

Azimuth Angle 0.0 deg.  
Outer Ring 9.61 dBi

Cursor Elev 9.0 deg.  
Gain 9.61 dBi  
0.0 dBmax

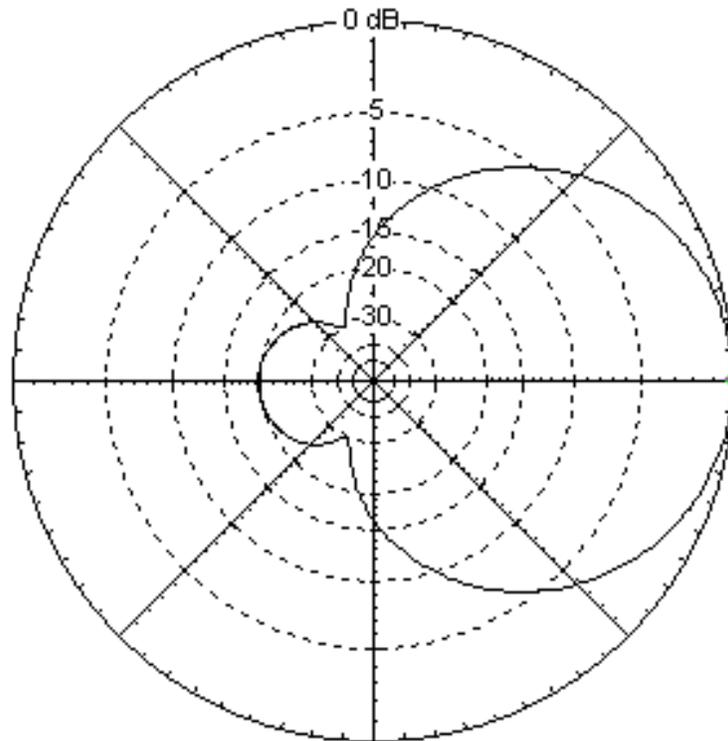
Slice Max Gain 9.61 dBi @ Elev Angle = 9.0 deg.  
Beamwidth 31.5 deg.; -3dB @ 4.0, 35.5 deg.  
Sidelobe Gain 8.77 dBi @ Elev Angle = 28.0 deg.  
Front/Sidelobe 0.84 dB

Fig. 2

The maximum radiation occurs at about 9 degrees. The corresponding 9 degree azimuth radiation pattern at 146 MHz is shown in Fig. 3.

Total Field

EZNEC



146 MHz

Azimuth Plot  
 Elevation Angle 9.0 deg.  
 Outer Ring 9.61 dBi

Cursor Az 0.0 deg.  
 Gain 9.61 dBi  
 0.0 dBmax

Slice Max Gain 9.61 dBi @ Az Angle = 0.0 deg.  
 Front/Back 19.49 dB  
 Beamwidth 80.7 deg.; -3dB @ 320.0, 40.7 deg.  
 Sidelobe Gain -9.88 dBi @ Az Angle = 181.0 deg.  
 Front/Sidelobe 19.49 dB

Fig. 3