

Nacogdoches Amateur Radio Club

Pres: John Chapman - KC5MIB

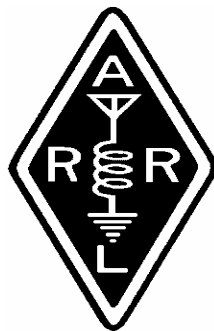
VP: Andy Delgado - KE5EXX

Sec/Treas: Army Curtis - AE5P

NOVEMBER MINUTES

The November meeting of the Nacogdoches Amateur Radio Club (NARC) was held as scheduled on November 7th. Twenty-five members and two guests were present. **President John, KC5MIB**, 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 noted no change from last month.

The club Christmas party will be on our regular meeting night: December



5th, 7:00 p.m. in the Parish Hall of Christ Episcopal Church. The club will furnish beverages, plastic cups, paper plates, and eating utensils. Everyone is asked to bring their favorite finger food. We will have our annual White Elephant auction, with John, KC5MIB as auctioneer. So, bring your White Elephants, and your check book or cash. Marshall, K5QE, has graciously donated a new Icom 2M HT to be raffled off. All proceeds will go to the club.

The Shuttle Columbia Special Event Station is scheduled for Saturday, February 2nd. Breakfast at

7:00 a.m. at IHOP, followed by the antenna raising at 8:00 at McMichael Middle School. The NISD ham club will join us for the event. Many thanks to John, N5AIU, for making the school available.

CQWW DX phone contest. Several members reported participation. All reported they had fun.

Skywarn training held last month. Remember that the largest severe weather systems tend to hit us at this time of year.

Nominating committee report: President: Andy - KE5EXX, Vice-President: Lon - AE5BN, Secretary-Treasurer: Army - AE5P. There being no other nominations, the slate was elected.

Meeting was adjourned at 7:30 p.m.

Show and tell:

Guest Richard Watkins spoke on his homebrew scanner antenna.

Program:

Jerry, K5JLW, presented an excellent program on crystal radios, with many show and tell items that were passed around.

**PRESIDENT'S
PODIUM**

It's been a good year. It's been a lousy year. Now, let me explain. The weather has been generally cooperative. Can you believe it, no hurricanes? We've had some rough weather, just recently with some hail. The FCC changed the rules: you can get all the tickets with a little study and not have to know Morse code, but it's still a very viable form, just ask Bert. It's been lousy. We lost some friends and no matter what the chronological age, far too

soon. As they say, time and tide.

The New Year: I have no idea. Okay for you guys in the peanut gallery, so what else is new...This time last year we were waiting for the FCC to post the changes to the Morse Code requirements. I haven't heard or seen any proposed changes for 2008. We garnered no new allocations at the World Radio Conference in Geneva Switzerland this year, but as far as I can tell we haven't lost any, either. We have seen new hams test at our own sessions and hopefully we will see them at our meetings, hear them on our repeaters and participating with us. New blood never hurts.

I'm looking forward to seeing everyone this Wednesday for our regular meeting and Christmas Party. Don't forget Marshall has donated a handheld 2m radio. It will be raffled off. Bring your own white elephant, too. I will do my best in the auction.

Remember, also it's that time of year to renew your club membership.

Congratulations are in order to Andy and Lon, your new president and vice president. And thanks again to Army for keeping the records and the money straight. Please support them over the next year.

Thanks to everyone over this last year. Thanks for the support while I was out of pocket. I really did have a good time as your president, even though at times I did feel overloaded will all the other activities I attend.

73 and Merry Christmas to all,
John Chapman
e-mail: kc5mib@arrl.net



V.P.'s ELEMENT...

'Twas the night before the
Christmas Party and all
through the town;
Every amateur was
searching; looking up and
looking down.

The yagi was atop the
tower, pointed with care,
In hopes that my missing
grids would soon be on the
air.

The amateur operators
were searching high and
low,
Searching for just the
right white elephant to
match with its bow.

And mamma was searching
too, even in her trunk,
Hoping to push off to
another, some of her
husband's junk

When out of the speaker
arose such a sound,
That CQ was breaking
through, finally here to be
found.

To the Heil ProSet I flew
like a flash,

Turning the dial to clear up
the hash.

I finally heard EN20
starting to break through
When out of the corner of
my eye I saw something
blue.

I whipped off the ProSet,
the QSO would have to
wait,
I thought to my self, "I've
had that since I was
eight."

I reached as high as I
could up on tip-toes
I lost my balance and
bruised my favorite nose.

I found the perfect gift,
in just the right unit of
measure
You know what they say,
my junk is your treasure.

I wrapped it up in my
favorite magazine ad.
Hoping that the highest
bidder wouldn't get too
mad.

Now I could focus on my
QSO, I really needed that
grid
I adjusted the equalizer, I
wanted a little more mid.

"Merry Christmas", my
contact said to me
As I signed off I replied
"73".

See you Wednesday at 7!

73 de KE5EXX
email: ke5exx@arrl.net

VE TESTING

Our next VE testing is
scheduled for Wednesday,
December 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

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 December 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. This will be our annual Christmas party and short meeting. Everyone is asked to bring your favorite finger food. The club will furnish paper plates, eating utensils, and drinks. We will also have our famous White Elephant auction. Bring your White Elephants and your check book. We also accept cash. Hope to see y'all there.

Basic Electronics Part Twenty One By Thomas Atchison

In order to talk about how alternating voltage and alternating current behave in circuits with inductance and capacitance, we need to talk about phase. Basically, two waveforms are in phase if their peaks and zero points match or occur at the same points in time. This means that they are not in phase if their peaks and zero points occur at different points in time.

To illustrate this suppose we have two waveforms that have the same amplitude and frequency.

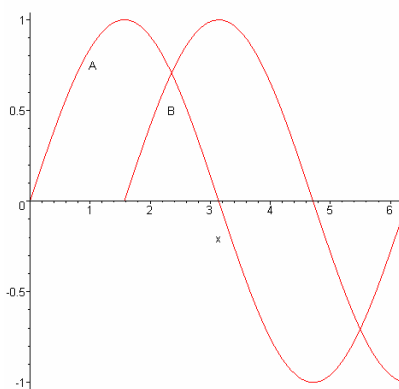


Fig. 1

Notice that the waveform labeled A starts at zero, but the waveform labeled B starts later in time. In this case we say the

waveforms are not in phase. Waveform A seems to be ahead of waveform B so we say that A leads B. Waveform A goes through one complete cycle as the horizontal axis goes from 0 to 360 degrees. Waveform B starts when waveform A is at its peak. The peak for waveform A occurs at 90 degrees. Since these two waveforms are at the same frequency, they will be out of step by the same angular amount at every point in time. Because of this, we can express phase shift for two waveforms of the same frequency as a constant quantity for the entire wave. We may describe this relationship by saying that waveform A leads waveform B by 90 degrees. If these waveforms represent voltages (or currents), then we say that voltage (current) A leads voltage (current) B by 90 degrees. This is just one example. For different situations the number of degrees that A leads B could be different. In particular, if A leads B by 180 degrees, then the two waveforms

would be mirror images as in Fig. 2.

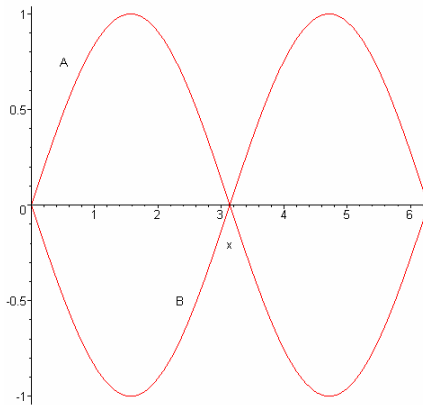


Fig. 2

Phase shift, like voltage, is a relative measurement between two things. There is no universal reference for phase. In the analysis of alternating current circuits, the voltage waveform of the power supply is used as a reference for phase. That voltage is usually stated as XXX volts at 0 degrees. Any other AC voltage or current in that circuit will have its phase shift expressed in terms relative to that source voltage.

If A and B are currents (or voltages) and if A leads B by 90 degrees, we may also say that B lags A by 90 degrees. This is just a different way of

expressing the same relationship.

We may compare two waveforms that have the same frequency but not necessarily the same amplitude. For example we could have one waveform representing an alternating voltage and another waveform representing an alternating current (Fig. 3).

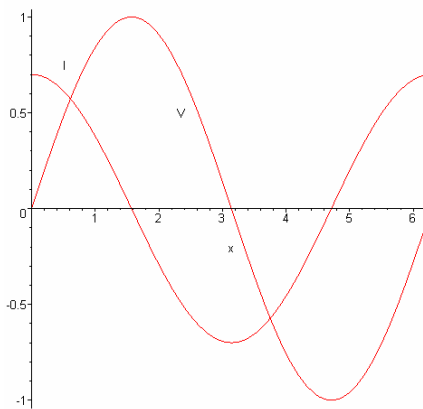


Fig. 3

Here the current, I, is leading the voltage, V, by 90 degrees. We will see in the next issue that this kind of relationship occurs when we have capacitance in an AC circuit.