



Tallahassee Amateur Radio Society

January 2007



The Tallahassee Amateur Radio Society meets at 7:00 p. m. on the first Thursday of every month. Our primary meeting location is the conference room on the upper floor of the Publix on Ocala Road in Tallahassee. Talk-in on the AE4S repeater 146.655 (down .600, tone 94.8), or 146.520 simplex if you require entry into the building

Guest Speaker for the January Meeting

Rick Miller works for the Department of Health, his presentation will center on the Flu Pandemic and what we can do to protect ourselves.

Hope everyone had a Merry Christmas and a great Holiday Season. I've really enjoyed our relationship over the last 6 months, you guys are the best. I love you all and wish all of you a prosperous and healthy new year!! I was very encouraged at the Holiday Dinner to see so many family members in attendance. I truly believe the more we involve our families in the hobby, the stronger the hobby and the family will become. For example, since I started dragging my XYW (kicking and screaming) to meetings and events the more she understands what the hobby is about and has become very supportive of the efforts of the Ham community. (Or maybe not, maybe she just wants me out of the house and out of her hair, who knows)

Lots of opportunities are facing us this year, including the TARS Van replacement project. The ARC background check issues have not all been dealt with to the satisfaction of the majority of area Hams. We need to ensure our young hams have all the tools to be successful in the hobby, whether it be equipment, additional training or mentoring (this one is very near and dear to my heart). The education committee is facing the no code requirements; they are already planning how to make the best of the changes to ensure new hams understand not just the new technology but the rich traditions of the hobby.

There is a movement afoot to bring back the Hamfest to the North Florida/South Georgia area. The leaders from the local clubs are looking to have a joint meeting to see what, if any, interest exist in this project. In addition, there is serious interest in having an event that will involve the three local clubs; a fun event, maybe a special event station, picnic and/or tailgate.

These are just a few things to think about. Looking forward to seeing you at the meeting on Thursday.

HAPPY NEW YEAR de Dan ki4hgo

TARS Meeting

(Holiday Dinner, No Minutes)

TARS Treasurer's Report

December 2006

As of 12/1/06:

Checking Account Balance: \$163.89

Savings Account Balance: \$2,052.55

Receipts deposited in checking account: \$152.50

Receipts deposited in savings account: \$0.00

Receipts derived from the following:

\$95.00	Dues
0.00	TARS Auction
50.00	Donations (Wakulla Co. Archery Club, leftover Field Day food)
7.50	50/50
<u>0.00</u>	Savings Interest
\$152.50	Total

2 members renewed or joined last month.

2 individual(s)

0 family member(s)

0 student(s)

Expenses:*

- None.

Outstanding expenses:

- \$38.97 reimbursed to Dan Moniz for TARS van spare keys (3 sets).

Donations:

- None.

ARC (~\$202.00, less \$134.55) 2004 TARS Auction proceeds.

*Reimbursement request for 2004 hurricane-related expenses submitted to State of Florida, Division of Emergency Management (Ivan Tracker #1819 and Charlie Tracker #4757). John Fleming, FDEM is looking into to the status of request.

Congratulations to Local Hams Receiving Awards at Holiday Dinner

Tallahassee Amateur Radio Society "TARS and Feathers Award" 2006

It is with great pleasure that I am presenting on behalf of the Tallahassee Amateur Radio Society the TARS and Feathers award to honor a member of our group and recognize their outstanding service to amateur radio.

Since the mid 70's, TARS has been presenting this award on a more or less annual basis -- recognizing superior accomplishment, which includes doing good deeds not only for TARS itself, but going beyond typical club functions and helping others advance in amateur radio.

Examples include:

- Inducting new operators into the Amateur Radio Service.
- Mentoring those individuals to pique their interest and maintain their proficiency.
- Work having significant impact on served agencies.
- Support of health, welfare, and emergency management communications.

The *TARS and Feathers* award goes beyond self-serving individual activities and seeks those persons that both advance the state of our radio art and embody "The Amateur's Code".

At this year's TARS holiday dinner, The 23rd annual "TARS and Feathers" Award was presented to John Reynolds, AD4DO by Ted Zateslo, W1XO. John was recognized for his contributions in amateur radio education, and for his public-service work as a backbone of the National Traffic System in our area and in the section

We applaud John's contributions to TARS and the local amateur community.

Presented by Ted W1XO on December 4, 2006

The AE4S/R Group
“New Ham of the Year Award”
2006

This is the third year the AE4S Repeater Group is presenting the award *New Ham of the Year*. It is intended to recognize the accomplishments of a newly licensed radio operator who demonstrates a true love for the hobby and the amateur service, makes a contribution to the local ham community and has the potential for continued growth.

Two years ago, Bill Jordan (AE4S) and I were so encouraged by the talent of many of our new hams we decided to create this award. But as with the past two years, the quality of the individuals makes it difficult to decide among the likely candidates. However, in the end, we feel that one individual has not only progressed but has offered of himself to the local amateur community and must be recognized.

While he has only recently entered the hobby, David Miner has been familiar with HAM radio most of his life. His father, George, held General Class license W4SKG from the early '50s until his passing in 2001. In his own right, Dave received his Technician Class license KI 4LHH in August 2005 and within one year made the step up to an Extra Class license.

From the moment he was able to get on the air (which wasn't until early this year), he became well known to those of us on 2 meters. Dave has an abundance of qualities that distinguish him as *New Ham of the Year*:

- A strong Ham volunteer - especially exercises and events for TARS and ARES, which includes duty at the local National Weather Service.
- He is a teacher as well as a mentor for many.
- Conducts emergency communications classes for Capital District ARES, including a message handling net each week.
- Always there to talk to someone on the repeater whether local or transient.
- But, perhaps, a most amazing feat after just a year in ham radio is to convince his bride of almost 24 years to become licensed. Vickie holds the call sign KI 4PRY. She and David will celebrate their 24 years of marriage on December 7.

By presentation of this award, Bill and I want to recognize Dave's accomplishments, encourage his growth, and assist in propelling him onto a next plateau of radio communications.

Dave, I am pleased to present you this award of a West Mountain Radio *RI Gblaster plug & play*. While we believe it will serve to enhance your HF operation, it does have application across the frequency spectrum, providing operating modes including PSK31, AMTOR, PACTOR, RTTY, SSTV, APRS, and EchoLink.

Dave, we look forward to your continued growth and service to the hobby and the local amateur community.

Congratulations on a great job!

TARS
“Young Ham of the Year Award”
2006

This year, I am presenting a new award that is sponsored by TARS. The TARS Young Ham of the Year Award.

It is intended to recognize the accomplishments of a young newly licensed radio operator who demonstrates a true love for the hobby and the amateur service.

Jerry Kessler N4JL, Steve Welch AD4E have been so encouraged by the talent of many of our young new hams, we decided to act. But at the same token, the quality of the individuals made it difficult to decide. However, in the end, we feel that one individual has not only progressed but has offered of himself to the local amateur community and must be recognized.

Stefan Floyd, KI 4JTA earned his amateur radio license in April, 2005 while working as a volunteer with the Civil Air Patrol at the Sun n Fun fly-in in Lakeland, FL:

Stefan is a Red Cross volunteer and Civil Air Patrol Mission Radio Operator.

During Hurricane Dennis, Stefan helped run a shelter in Crawfordville before spending a week on a Red Cross mobile kitchen crew in St Marks and Panacea, serving food and maintaining communications.

Stefan co-organized and served as an instructor for the Red Cross Youth Disaster College and spent many hours at the local Chapter House.

During Hurricane Katrina, he worked on the evacuation route as a Communicator assigned to the Red Cross Information Station at the Gadsden Co Rest area.

After a tornado struck Crawfordville, Stefan responded on a damage assessment team riding as the Wakulla County EC's radio operator and navigator and performing the actual damage assessment.

He spent a week in **Hancock Co, MS** working for the state EOC communications team as an Emergency Communicator and Jump Team Navigator/Asst Radio Operator.

Stefan and the Hancock County EC waded over half a mile through waist-deep floodwater from Hurricane Rita to help deliver diesel fuel to WQRZ-LP, the only surviving broadcast radio station transmitter site, which in turn allowed them to resume their news, weather and music broadcasts. This was the only broadcast station in service that the local government could communicate important news to the general public.

Stefan used a GPS and laptop with mapping software for navigation and pinpointing various points of interest for emergency management authorities since there were no road signs left and very few recognizable landmarks.

In addition he also plotted the GPS coordinates for all points where food, shelter, and water were available and compiled this information into a report complete with maps so that the county EOC could

prepare handouts to be given to victims and relief workers alike, especially out-of-town truck drivers coming to replenish the various supply points located around the county.

As a summer camp counselor and disaster college instructor, Stefan has performed various functions ranging from working with and educating younger children to teaching them how to survive in a disaster scenario.

Stefan provides communications and navigation support services in disaster areas or while on search and rescue missions, often while living in primitive conditions and eating food that most of us would pass on if given a choice.

Has served as a Flight Sergeant and Squadron Cadet Communications Officer in CAP

Stefan has served on several search and rescue Missions with CAP as a Mission Radio Operator and Ground Team Member

Assisted Jerry and Shirley Steen move from to Maine

Stefan is considered to be an asset to his community and a very visible representative of amateur radio and the values that we hold dear.

Stefan, on behalf of TARS, I am pleased to present you this award of a 2007 ARRL Handbook to challenge you to continue your growth and service to the hobby and the local amateur community.

Congratulation on a great job!

News from the North

Got a call today from Jerry & Shirley. She will be flying to Tampa & driving up here, and plans to be at the Golden Corral to see the gang on 12 January. Jerry got the dog-sitter duty, and will be unable to attend.

He got his 160-meter vee up in the air, so is now on all HF bands with it. Unfortunately, his push-up fell and took the 2m/440 antenna with it. Shirley keeps him busy stoking the wood stove(s) to heat both floors, so his air time may be somewhat limited <grin>. I've included his email address in the To: line above, so pass it on to all his buddies, etc. Heck, just forward this msg to all the TARS/SPARK folks.

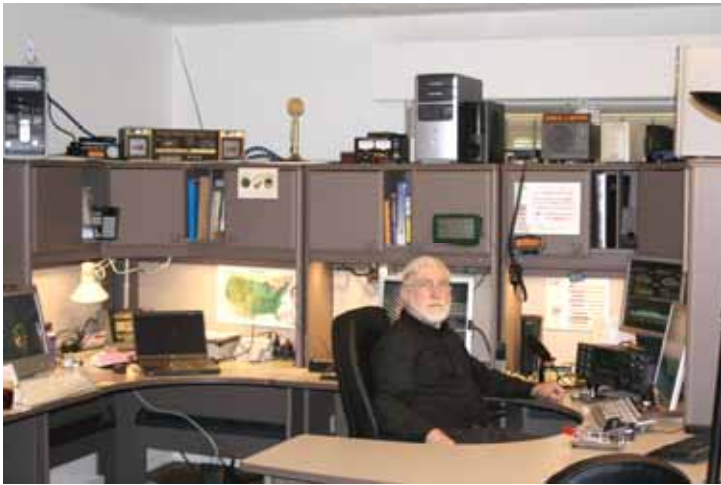
Again, his email is: K4EFM@YAHOO.COM.

73, Ray (K5FKT)

HAM SHACK of the Month

Don Bartnik WA4DSW

Several months ago, with the help of a few Hams and friends, Don doubled the size of his one room shack by knocking out a wall. The end product is very impressive.



If you would like to submit pictures of your shack, please send them along with a brief description to ki4hgo@arrl.net.

2007 HAMFEST CALENDAR, SOUTHEASTERN DIVISION

Prepared by Frank Butler, W4RH

January 13	Lawrenceville, GA (GARS)
January 13	Orlando, FL (UCF)
January 20	Fort Myers, FL
January 21	San Juan, PR (PRARL)
January 27	Arcadia, FL
January 27	Greenville, AL
February 9-11	Orlando, FL
February 17	Sebring, FL
February 17	Brooksville, FL
February 24	Dalton, GA
March 10	Port Charlotte, FL
March 17	Marietta, GA (Kennehoochee)
March 17	Fort Walton Beach, FL
March 17	Stuart, FL
March 24	Plantation, FL
March 31	New Port Richey, FL
April 7	Pace, FL (Floridatown)
April 15	Defuniak Springs, FL
April 21	Tampa, FL (Tampa ARC)
April 21	Mobile, AL
April 21	Gainesville, FL
April 27-28	Atlanta, GA (SE VHF Conference)
April 28	Calhoun, GA
May 5-6	Birmingham, AL
May 5	Titusville, FL
May 12	Byron, GA
May 18-20	Dayton, OH
June 2	Atlanta, GA
June 2	Fort McCoy, FL
June 9	Fort Payne, AL
July 7	Gainesville, GA (Lanierland)
July 13-14	Milton, FL
August 11	Ellijay, GA

August 11	Fort Pierce, FL
August 18-19	Huntsville, AL ARRL National Convention
August 25	Tampa, FL (Tampa ARC)
September 8	Oxford, AL
September 15	Dallas, GA
September 22	New Port Richey, FL
September 22	Orlando, FL (Shrine Club)
October 6	Jacksonville, FL
October 6	Plantation, FL
October 13-14	Melbourne, FL
October 13	Augusta, GA
October 13	Starke, FL
October 20	Rome, GA
November 3-4	Lawrenceville, GA
November 3	Sorrento, FL
November 3	Titusville, FL
November 11	Montgomery, AL
November 24	Okeechobee, FL
December 1-2	Palmetto, FL (Tampa)
December 8	Ocala, FL

NOTE: Some of these dates are estimates, based on previous years' dates. Please send corrections to: w4rh@arrl.org

HAM TIPS

*Be sure the frequency (or "channel") is "clear" before you transmit. Think how you would like it if someone interrupted your conversation.

Recommendation: when you turn to a repeater or a simplex frequency, listen for at least thirty seconds before transmitting.

*Using Q-signals too often is bad form. Although Q-signals have a very valuable place in Amateur Radio, they are not universally accepted on F.M. voice channels. Using them during EVERY TRANSMISSION is really annoying.

Recommendation: use Q-signals sparingly. Once in a while. Not very often.

***Using the phrase "clear and monitoring" is not really necessary.** Neither term is required by the F.C.C. or anybody else. If you call another amateur, using his/her callsign and yours, and that person does not answer, it is not necessary to advise "clear." You have already identified your station and any other identification is superfluous.

Recommendation: use "clear" only to mean that you are shutting down operation and will not be there to answer any subsequent calls. Under normal circumstances, when you are finished with a contact but will continue listening, it is sufficient (and just right!) to merely say your call sign.

Contrasting Recommendation: If you attempt to contact someone and there is no answer, you can notify others that you are finished by saying, "KF6xxx clear," or "no contact, this is KF6xxx clear W6ABC repeater." This allows someone who may have been standing by to go ahead and make his or her call.

*Be sure to learn the usage, protocol and/or policies of repeaters you are using. Just because a repeater is "there" does not mean that you are welcome to switch to it and use it for long, extended rag-chews. Some repeaters welcome newcomers, some do not. A sensible person does not want to spend time where s/he is not welcome. Even though your license allows you to operate on any frequency within the bounds of your license class, a wise amateur avoids "closed" repeaters and repeaters that are operated by small, unfriendly groups.

Recommendation: listen to a repeater for a while before you make a decision to use it. You might even ask someone on the repeater if you are welcome to use it for occasional conversations.

***Using the term "for I.D." is not necessary.** There should be no reason to transmit your call sign other than to identify your station. Identification is required every 10 minutes during a conversation and at the end of a conversation or series of communications. Conversations need not come to a halt while you identify. ("Stand by, everyone, while I say my call sign.") Simply say your call sign once within 10 minutes.

Recommendation: while talking, say your call sign once every ten minutes. Don't say "For I.D., this is KF6xxx." Don't say "For license preservation purposes, this is KF6xxx" more than once or twice per year. I identify properly, but do not over-identify.

Contrasting Recommendation: if you hear someone say "for I.D.," they may be trying to gently remind you that 10 minutes have passed and you should identify your station. Take the hint and say your call sign the next time it is your turn to talk.

*Long ago, F.C.C. rules required mobile hams to not only say their call sign, but to say where they were operating, giving both the city and the call sign area. You may hear some hams saying, "...mobile 6" or "...mobile 3" after their call sign. This means that they are operating "mobile, in call sign area 6" or "mobile, in call sign area 3." This is no longer required but it is sometimes good to know. When leaving

their home state, some hams will keep track of what call sign area they are in, and say, "...mobile 7," or "...mobile 1," or whatever.

Recommendation: it's not necessary, but it's not wrong.

*Certain types of jargon are easily recognizable as being "CB" terms. "What is your personal?" when you mean "what is your name?" "I 'm on the side," when you mean you are "listening" or "monitoring." Although there is nothing "wrong" with CB, these terms are neither generally used **nor appreciated on Amateur Radio frequencies.**

Recommendation: avoid CB-style jargon and terms. Generally speaking, plain English is better: "my name is xxxx, what is yours?"

*Different repeaters handle emergency communications in different ways. A general guideline is this: if you are on an unfamiliar repeater and you have emergency traffic, say so! Example: "Can someone help me contact the Highway Patrol?" or "I need help contacting the Fire Department." Asking "is anybody monitoring?" may sound like an attempt to start a casual conversation. On many repeaters, you could be ignored. However, if you state that you have emergency traffic, people on many repeaters will drop what they are doing to help you. Note: if you are monitoring a repeater and someone asks for emergency assistance and you cannot help, **BE SILENT!** There are few things stupider than someone breaking in to say that they would help except that they forgot the codes, or that they left their radio with the Touch-Tone (tm) pad at home, or that their home phone is busy so they can't make the call for you.

Recommendations:

If you have emergency traffic, say so immediately.

If you can help, please do.

If you cannot help, do not transmit.

*In this day of scanners, scanning mobile radios, scanning portable radios, dual-, triple- and quadruple-band radios and multiple radios in the car or shack, you could miss making contact with someone because your radio is scanning several channels or bands. If you know that the person you are calling is sitting next to the radio waiting for you, you can make your call very simple: say his/her call, then your own. However, if your friend has a scanning radio or listens to several radios, it is possible that he/she could miss your call. You should call twice: say the other station's call twice, then your own. Pause for a half-minute or so and try again. It might also be a good idea to try again in 4 or 5 minutes, in case the called person's scanner was stopping on a long, drawn-out conversation. And if you know that the called station is listening to more than one frequency, you can call and say "on [such-and-such] repeater" to give them a hint as to which microphone to pick up or which band to select.

Recommendation: call twice.

*You may hear people using the term "73," meaning "best wishes." **There is no "s" in the salutation "73."** (Other hams may use the term "88," meaning "love and kisses." Typically used between husbands and wives.) These shortcuts were developed years ago as a way to communicate common thoughts quickly. **You will hear others saying "73s" and "88s" (wrong!) You might even hear someone saying [cringe!] "threes and eights and all those good numbers!" Yecch! Negative!**

Proper usage would be similar to this:

Voice: "OK, Dan, seven-three and I will talk to you later. (pause) WA7AII."

Voice: "73 for now, WB6KHP clear."

CW: "W2EOS de K8JW CUL OM 73 SK."

CW: "N6xxx de KB6xxx 73 88 SK."

*There is no specific requirement for keeping logs of the use of your amateur radio station except for International Third-party Traffic. However, a good way to keep track of your communications is to use a Log Book, available at some amateur radio dealers.

One method is this: make an entry in the "date" column for each day you operate your station. Each time you contact a "new" station, make entries for call sign, name, frequency, mode and any other information you think necessary or interesting. You probably have no need to make log entries for people you talk to every day, with the possible exception of logging emergency traffic that you may handle for others.

*Sometimes while talking to another station, it is necessary to ask the other person to "stand by." This may be caused by (a) a driving situation needing immediate attention to avert a crash, (b) a spouse or child walking into the "shack" with a message, (c) placing your order at a drive-up window, etc. The proper response, when requested to "stand by," is silence. Generally it will only take a moment and the other station will be back. If you feel it necessary to say something, then say, "[call sign] standing by." If you respond to "stand by" with a long, drawn-out acknowledgement, it serves no purpose and the person asking you to "stand by" is not listening anyway.

*Keep in mind that when you are operating in a noisy environment, you do not have to be able to hear yourself talking. There will be those instances where you are helping with emergency communications for a disaster, or communications support for a parade, or you are at an airport or other noisy place. If you shout into the microphone loud enough to hear yourself, you are distorting the signal so badly that the person on the other end may not be able to hear or understand you. Instead, practice speaking into the microphone in a normal tone. It can be very difficult to operate under these conditions (loud background noise), but it is a skill that you would do well to learn.

*One of the most important things for new hams to learn is to "K-H-T." That is "key, hesitate, talk." You must consciously learn to push the microphone button, pause slightly, and then begin speaking. If you push the button and speak simultaneously, the first word or the first part of a word may be cut off. This does not facilitate effective communications. Hopefully, if you learn to do it correctly from

the first day, it will become subconscious and you will do it automatically. If this is the case, you will earn the respect and admiration of your peers. If not, you will be forever labeled as a sub-standard operator.

*Try to keep your language polite. Profanity and discussions of bodily functions should be off limits - not because of government rules, but because it's the right thing to do. Generally, other hams and their family members do not want to hear conversations that are not of the "G-rated" variety.

Local Net News:

Sportsman's Paradise Amateur Radio Club meetings are every 3rd Thursday of each month at the Wakulla County Emergency Management Facility (Sheriff's Department) at 7:30pm. **Wednesday Night Net Meeting 2000 Hours 146.550 MHz Simplex**

Thomasville Amateur Radio Club: This net meets every **Tuesday night at 8:00pm on 147.195MHZ Duplex**. Club meetings on the first Saturday of each month at the Plaza Restaurant at 7:30pm

Capital District ARES Net: Every Sunday, 8:00 p. m. Eastern on the AE4S repeater 146.655 (tone 94.8)

The Big Bend Hamster Net: This net meets on Tuesday nights at 7:30pm Eastern on the AE4S repeater 146.655 (tone 94.8). Call 574-7965 for more detail information.

UHF Nets:

The "Friday Friendly Net": It is moderated by Mary, KI4JOO. This net meets on Friday evenings on the 443.400 UHF repeater. The offset is 5 Mc plus and the PL encode/decode tone is 131.8. Check-ins can also join in via echolink by connecting to Node #3950 from other areas or from their PC. This net is scheduled for 1 hour. It's very informal and we discuss anything callers what to talk about. Everyone is invited to participate.

The "Winlink Conference": This net is held every Wednesday evening starting around 8PM. This is moderated by Al, W3YVQ, out of Baltimore, Md. Hams can connect direct to "Fred's happy serve" on node #129799, or tune into 443.400 UHF repeater to participate. This is a loosely directed net and pertains solely about digital communications. Regulars check in from around the USA and discuss all issues of Em Comms using digital equipment. It's mostly a technical group. A large amount of the success of the TLH DIGITAL GROUP comes from the elmering from this group. This net can be lengthy in time, sometimes lasting up to 3 hours.

Other nets are listed on the K4TLH website. All the new ham radio operators are welcomed to use the repeaters and join in on the nets.

New Membership or Renewal Form



2007 has arrived and so has TARS membership renewal. Make the form easy on yourself. If you have not changed any information from last year, merely make payment to TARS. Complete the form with your name and indicate your member type and ARRL membership status. For Family status, complete a form for each member.

Name: _____ Callsign: _____
Address: _____

City: _____ State: ____ ZIP: _____-_____
Member type: Indiv. ____ Family ____ Student ____ (check one)
Home Phone () _____-_____
Work Phone: () _____-_____
Cell Phone () _____-_____
E-Mail Address: _____
ARRL member (y/n) ____ TARS Van trained (y/n) ____

Membership dues for the Tallahassee Amateur Radio Society run \$15 annually per individual or family. **Students** (with valid ID) can **join for free!** You need not be a licensed amateur radio operator to join the Society. An interest in radio communications is all that is required. New members pay pro-rata based on the number of months remaining in the calendar year (\$1.25 per month). Renewing members pay \$15 dues; except after July, dues become \$7.50.

Please make your dues check payable to the Tallahassee Amateur Radio Society (or TARS). Bring your check with the additional information to the next monthly meeting of the Society and give it to the Treasurer, or mail your check and information to the Tallahassee Amateur Radio Society, C/O Treasurer, P. O. Box 37127, Tallahassee, FL, 32315.

If you are interested in becoming a member of the American Radio Relay League (ARRL), their dues are \$39 annually. TARS is an ARRL sanctioned organization. Go to <http://www.arrl.org/join.html> for more membership information.

TARS Officers

President: Dan Moniz - KI 4HGO
Vice President: Alan B. Torledsky - W1ABT
Secretary: Chantal Blanton - KI 4NBU
Treasurer: Carlton W. Wells - AG4UT

TARS Committees:

Repeater Trustee #1: Randy Pierce AG4UU
Repeater Trustee #2: Vacant
Newsletter Editor: Dan Moniz KI 4HGO
Historian: Shawn Wilson AG4VE
Equipment Manager: Carlton Wells AG4UT
Education: Phil Ashler N4IPH
Special Events: Carliane Johnson KG4CJT
Webmaster: David A. Heupel WE4RA

Upcoming Events:

TARS Meetings: Every first Thursday of the month at 7:00 p.m. EDT at Publix at Ocala Rd.
Friday Lunch 11:30 a. m. EDT at Golden Coral on No. Monroe St.
Capital District ARES Net: Every Sunday, 8:00 p. m. Eastern on the AE4S repeater 146.655).
North Florida ARES Net: Every morning, except Sunday on 3950 KHz at 9:00 a. m. Eastern

EDITORIAL POLICY

Submitted material received by the editor on or before the 20th of the month will appear in the following month's newsletter as space permits. Comments and/or suggestions to improve the newsletter are welcomed. The Printed Circuit is not representative of the views or opinions of the whole organization, and such views and opinions are of the individual author(s). The editor is Dan Moniz KI 4HGO. Submissions for The Printed Circuit may be emailed to: KI4HGO@arrl.net

