



QST NFL



*Sharing information of interest to Radio Amateurs in North
Florida*

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December 2019

LARA Supports Hearts For Our Hospital Bicycle Challenge

Frank Anders KK4BX

A team from LARA joined a team from The Villages Radio Club to provide communications and support to the Hearts For Our Hospital Bicycle Challenge in the Villages, FL hosted by the Sumter Landing Cycle Club and The Villages Regional Hospital Foundation. This event raised over \$50,000 for The Villages Hospital.

Pictured are Ed K4ZIV, Jay N4KXO, Frank KK4MBX, and members of the Sumter County Sheriff Department along with the APRS maps tracking support teams and county vehicles.



Happy
Holidays

NFL Section Website Looking Good! Thanks, Brian!

Webmaster, Brian McClure, NW4R, is making some updates to the North Florida Section website.

Check it out! arrl-nfl.org/

Ocala Hamfest 2019

December 7, 2019

NEW VENUE!!!

FIRST CHRISTIAN CHURCH
1908 E. FORT KING STREET
OCALA, FL 34471

7:30 – 2:00

What's Inside....

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Email your QST NFL input to n4gl.marty@gmail.com
Marty Brown, N4GL, Editor

5...4...3...2...1....Ride!

Scott Roberts, KK4ECR
Norther Florida Section Pubic Information Coordinator

By the time you read this article, the turkey, stuffing, mashed potatoes, and pumpkin pie will probably all be gone. I hope you and your family had a safe and Happy Thanksgiving. I wanted to go in a different direction with my article this month.

A week ago, several counties joined forces to support the National MS Society 2019 Cycle to the Shore — a 150mi bike ride from St. Augustine to Daytona and back.

With over 1,100 riders on the route, Amateur Radio plays a vital part in keeping riders safe. From Net Control operators, to Rest Stops operators, to SAG Drivers, to SAG Passengers, to the Sweep Vehicle, to the MS Staff Shadows, ham radio was there to provide essential communications and relay important information to ride leadership.

On Saturday Morning at 06:00, over 20 Amateur operators from Clay, Duval, St. John's, Flagler, Volusia, and Polk counties as well as an operator from Texas, turned on their radios at Net Control, Rest Stops, and in SAG vehicles and prepared to support the 2019 Cycle to the Shore MS Ride.

I wanted to take this article and thank each operator who took their entire weekend and volunteered for this event. Without you, this event could not have gone as smoothly as it did. The comments that have been received from the MS Staff and ride committee members have been all positive — all of them had a huge "Thank You" for every volunteer to helped out!

START / FINISH LINES & REST STOPS— THANK YOU!!! You have the most behind the scenes job of anyone, yet one of the most important to the MS Staff an riders. You relayed information and supply requests from each of your rest stop to the MS Staff to make sure that each rest stop has enough, water, snacks and pickle juice (Oh wait, we did not have enough of that this year did we?).

SAG DRIVERS / PASSENGERS — THANK YOU!!! Where do I begin? You worked non stop from the first rider on the route until the last rider crossed the finish line. Responding to broken down riders, rider accidents and exhausted riders, our SAG operators keep the ride going.



NET CONTROL (Above)— THANK YOU!!! You did a fantastic job of keeping track of SAG drivers, rest stop requests, staff requests, and phone calls from riders on the route.

STAFF SHADOWS – THANK YOU!!! You keep the MS Staff informed of what is happening, when it is happening and where it is happening can be a monumental task. Without you, the flow of information would come to a grinding halt.

Events such as the Cycle to the Shore allow Amateur Operators to test their equipment and work together with operators from multiple counties. It is important that as amateur radio operators we continue to support these events and build good relationships with the our communities by being there to help out in any way we can. Mark your calendars for next year — the 2020 Cycle to the Shore will be held on October 24 & 25, and we can always use more operators for the event.

NFL Section Needs Section Traffic Manager

SM, Kevin Bess, KK4BFN, informs the editor that the position of Section Traffic Manager (STM) is now available. Like all section appointments, this job comes with great pay and exceptional benefits! For more information: [ARRL STM Info](#)

If you're interested in the job, contact [Kevin Bess, SM, NFL](#)

Five Flags Amateur Radio Association Update

Gene Bannon, KB4HAH

1. The Five Flags Amateur Radio Assoc's Amateur radio classes just completed Nov 14th. We had 16 Registered for the class, ended up with 12-14 regularly attended. The end results were; 8 new Technicians, 3 upgrade Generals, 1 new Extra, and 1 failed extra, 1 not tested (she said she was there just to support her husband in the class).

2. A call to Amateur Radio Community was placed from Ransom Middle School Science teacher for Amateur Radio Demonstration. 9 of us (Skip-N4XXO- Organized the event) came out and demonstrated to 6 classes (approx 20 kids per classes) of their science classes in their media Center. We demonstrated local communication (2 Meter VHF) as well as long distance communication (HF-40 & 20 Meters). The kids talked to several of the local hams via Amateur Radio as well as talked to some DX hams in Europe. Several of the local hams were sending QSL card back to the teacher for display in her class.

3. The Escambia County ARES Group conducted 2 exercises here. The Red Cross Exercise with WINLINK operations in which 13 messages were sent. This exercise was to demonstrate a WINLINK supported National Red Cross operation during a national emergency. The other Exercise was MARS COMEX 19-3. 1 of our ARES Member (Joe-KF4DVF) support that exercise on 60 meters.

4. THE Escambia County ARES Group conducted several work days here in month of November. Getting a



Five Flags conducts demo for Ransom Middle School (above & below)



New UHF WINLINK Digi-peater set up in Molino FL, worked on the ARES EOC's patch cord and Jump kits, and restoring and making operational some equipment in storage to free up other equipment for Jump kits. We had very good turn out on our work days.

5. The Milton Amateur radio will be conducting their Even Monthly VEC testing session on Dec 14th.



Friendship Amateur Radio Club

Ken Simpson, W8EK

The Friendship Amateur Radio Club is based in the Ocala/Dunnellon area. We meet at 1:30 PM on the second Monday of the month. On the odd month (January, March, etc), we meet at the Sheriff's substation on Route 200 near Palm Cay, On Top of the World, and Oak Run. On the even month (February, April, and including December), we meet at Holy Faith Episcopal Church, just off of Route 484, near the river in Dunnellon.

On December 9, we will be meeting at Holy Faith Episcopal Church at 1 PM for our Christmas Luncheon. We will also have a "Yankee Swap".

We invite you to attend. For more info, please contact the club President, Ken Simpson, W8EK at W8EK@flham.net.

QCWA Chapter 62, Ocala

Ken Simpson, W8EK

Chapter 62 of the Quarter Century Wireless Association (QCWA) will meet at 12:30 PM Thursday, December 12, at the China Lee Buffet in Ocala. China Lee is located on East Silver Springs Blvd, in what was formerly the K-Mart Plaza, just east of 36th Avenue.



All are welcome to attend, whether you have been licensed for 25 years or not. Please contact Ken Simpson, W8EK, for more info at W8EK@flham.net.

Alachua County ARES/NFARC Tests New 4:1 Balun

by Gordon Gibby KX4Z

The off-center-fed dipole has been a star player in Alachua County, with wide usage by ARES, North Florida Amateur Radio Club (NFARC) and the Gainesville Amateur Radio Society (GARS) for deployments, picnics, and exercises. Generally, we've used a 4:1 Balun to get the higher impedance feedpoint down to 50 ohm for regular coax. In the past we've built simple *voltage baluns* and then added a 1:1 *current Balun* (sometimes right in the same PVC pipe enclosure at the antenna feedpoint) to reduce feedline common mode currents, radiation, and "hot cases" in the shack.

Vann Chesney AC4QS home-brewed a 4:1 Guanella Balun and reported it worked well for him -- this well-known design is a *current Balun* requiring 2 cores total (same as what we had been doing), but several sources indicate it is superior to our previous efforts. So I gave it a whirl!



A test Balun was constructed, designed to tolerate at least a half-kilowatt, using two FT-240-43 cores. (Kits And Parts Dot Com, <http://kitsandparts.com/>, current price \$8 ea, and they ship them *well padded*.) The thicker Teflon plumber's tape (intended for natural gas pipelines) was used to wrap the cores with about 25% overlap [About 40" total tape per toroid], even though they don't have any really sharp edges. 16-gauge Remington-brand PTFE Teflon insulated, tinned, stranded wire was sources from Amazon [1] in red and white colors, two wires paralleled and taped every few inches with plastic electrician's tape, and wrapped 10 turns bifilar on two cores and connected

appropriately as shown in published building instructions.[2] This is a few more turns and a higher permeability core (825) than many utilize, but the goal here was to get adequate inductance in the winding so that the Balun worked properly even down to 2 MHz. A short test with only 8 turns didn't seem to show any huge improvement, so I stuck with 10 turns.

In order to test this, a 4:1 commercial medium-power Balun MFJ-911 was connected such that one Balun stepped 50 ohms up to 200, and the other dropped it back to 50. This two-Balun set was then connected from tracking generator output to RF input of a Siglent spectrum analyzer (normalized for 0dB with direct connection) and losses measured at typical ham frequencies. The results (the losses of TWO baluns) were far better than what we have seen with voltage baluns:

FREQ:	2 MHz	3.5 MHz	7 MHz	14 MHz	28 MHz
Combined losses of two back-to-back 4:1 current baluns:	0.07 dB	0.07d B	0.06 dB	0.25 dB	0.32 dB

SWR tests into the Balun (200 ohm resistive load on other side) indicated it had a good SWR well past 10 meters.

The loss data is almost difficult to believe, the losses are so low. Losses are said to be larger if the Balun feeds a non-matched (non 200 ohm resistive) load. Power testing with matched conditions couldn't be carried out with the two baluns (the MFJ Balun isn't rated for high power). However, it can be conducted using a kilowatt-rated manual antenna tuner operating "backward" to convert 200 ohms back down to 50 ohms into a kilowatt rated Cantenna dummy load -- so exactly that setup was created with the test 4:1 Guanella dummy load on the transmitter end and a simple Radio Shack SWR/power meter measuring power into the system. An ancient Heathkit SB-200 amplifier was driven with CW to a power output indicating 300 watts for two minutes solid, at which point one of the 572-B plates was beginning to show some color, so the test was stopped and finger tip measurement of the FT-240-43 cores could not appreciate any increase in their temperature above room temperature.

Balun (Continued)

We think we have a great design worked out, that can be built using \$8 cores! For those not wishing to do the homebrewing, the MFJ-919 is likely built with similar technology.

[1] Red Teflon coated wire: <https://www.amazon.com/gp/product/B071KX9312> Other colors are also available. Suggest #16 for 300 watts +; #18 for lower power. Cores can get hot, and the teflon insulation is designed so the wire remains insulated even with a hot core.

[2] http://www.k5wtr.com/k5wtr/manuals/ANTENNA%20&%20ROTORS/Balun_short_version.pdf provides nice schematic and photos, although I wound mine just moving around the core, not "jumping to the other side" as some of his photos show.



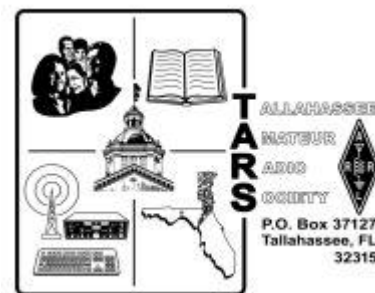
Florida and Georgia Operators Support Rural Bike Ride Across State Border

Communications Coordinator Stan Zawrotny, K4SBZ

On November 9, twenty-four operators from the Tallahassee (Florida) Amateur Radio Society (TARS) and the Thomasville (Georgia) Amateur Radio Club (TARC) provided communication support for the Capital City Cyclists (CCC) 35th annual Spaghetti 100 Bicycle Ride. The Spaghetti 100 funds the Kids on Bikes program, which teaches hundreds of elementary school children how to ride a bike and ride it safely in traffic. It also helps to support the Trips for Kids chapter, which takes disadvantaged youth on bike rides on local trails.

The hams used one of the TARS VHF repeaters to provide communications for safety and logistics, as well as for the medical and mechanical teams. The ham radio support was vital for this 100-mile route on the back-country roads of northern Florida and southern Georgia where cell phone coverage is very sparse. "When All Else Fails" came to mind when the landline at the

location served as the ride's headquarters was out for several hours, leaving Amateur Radio as the only communications service for some areas. "In addition to the thanks given by most of the bicyclists as they passed by, event sponsors expressed their appreciation for the work of the ham radio volunteers and were impressed with the capabilities of Amateur Radio," Communications Coordinator Stan Zawrotny, K4SBZ, said.



The following appeared in The **ARES E-Letter** for November 20, 2019. The original can be viewed at <http://www.arrl.org/ares-el?issue=2019-11-20>.



2020 Florida Amateur Radio Emergency Communications Conference & EC-001 Field Course

by Gordon Gibby KX4Z

The North Florida Amateur Radio Club (NFARC) is giving it a go for a 3rd Annual amateur radio NIMS-based conference on volunteer disaster backup communications -- scheduled for Leap Year weekend, Sat. Feb 29/Sun Mar 1. Gainesville Amateur Radio Society (GARS) is co-sponsoring.

This year's Conference will have lectures / hands-on training on Saturday in two tracks: **Basic** and **Leadership**. Sunday afternoon will basically be devoted to a full-scale real deployment exercise, building on what we learned last year (more time for explanation and debrief, split into even smaller teams). As usual, you want to come *ready for bear!* We stress every possible skill, asset and strategy to give you the best training we can arrange. The talks and hands on will help "basic" participants get up to speed on voice formal traffic, winlink formal traffic (yes, you can succeed!) and antennas and electricity for a deployment or shelter. Leadership track will work on building your group through servant leadership, planning and executing full scale exercises, writing them up and all the promotional PR kinds of skills. The EXERCISE on Sunday is the highlight of course --- you'll be in small teams all over the city with enormous tasks and problems to work through just as if you were in a real disaster situation. Everyone always learns like mad in the Exercise.

We have several new wrinkles this year. First, there has been a significant effort within the Florida Baptist Disaster Relief group to re-develop a ham radio communications component, and the Conference will function as an additional training for their ham volunteers. At least one of the deployed teams on Sunday will be modeling the disaster communications activities of this fine group. They ran into big comms problems during Hurricane Michael....it is a problem when you need to order materials for 15,000+ meals per day, and you have no communications!! Alachua County volunteer Susan Halbert KG4VWI reached them to help and a synergy was born. Florida amateur leadership now creates ICS-205's with a view toward synergy with such groups. I've written a new **Radio Communications Handbook** specifically to go over faith-based disaster ministries' specific and wide-ranging needs (which go way beyond ham radio): <https://www.amazon.com/Disaster-Ministry-Radio-Communications-Handbook/dp/170152760X> which is available in both paperback and Kindle. Conference registrants who indicate they are possible volunteers for Baptist Disaster Relief (of any state) will all get a complimentary copy.

There won't be ANY charge for the conference (other than nominal for the Saturday Publix sandwich ring lunch) and as usual we are requiring our lecturers to write CHAPTERS so

we are able to give all our participants a full textbook. (On the west coast, Comm Academy does a similar conference: <http://commacademy.org/>)

We scored a coup or two on lecturers this year: C.

Matthew Curtin KD8TTE has been managing several years of Ohio Black Swan ICS-based full exercises with heavy government-amateur interaction, and volunteers from other states also involved. We got him to volunteer to come lecture! Matthew is an entrepreneur and also involved with Ohio National Guard and we were not able to give him a stipend, but he'll stay at my house and we'll take up a plate for him. He brings a complementary emphasis for our training-- although he does tons of digital, he is primarily a VOICE net-type of communicator. But you need to know something else about him: he is part of the group that broke the 56-bit Data Encryption Standard, and he wrote a great book on that effort to provide Americans with adequate security by demonstrating the weakness of the DES of that day. Brute Force: Cracking the Data Encryption Standard (2005, <https://www.amazon.com/gp/product/0387201092>) See the you tube trailer for Black Swan 2017 here: https://www.youtube.com/watch?v=oJEzSgp1x-8&list=PLzU231OS4FRkGqLrnwMn_F8TXf8ugNPUH We also are extremely pleased to have Matthew bring along a crew from his state, and we have Larry Whited AB4NX and some of his friends who have made such tremendous progress in Atlanta, Ga, also joining us to mentor people on getting their digital-fu working right.

BASIC Track will get newcomers up to speed on emergency communications, procedures and strategies, both voice and digital. Plan to bring your laptop and be ready to learn the Radiogram all over again if you haven't handled formal traffic, ICS-205's etc., in a while! **LEADERSHIP track** has one over-arching goal: to get you ready to re-invigorate your home group with servant-based leadership that *gets your group doing full scale exercises right at home in your own county*, working with your local authorities, and bringing each member up to their optimum capabilities.

EC-001: Yet another wrinkle. The Conference basically does all the "hands-on" that Alachua County puts into their heavy-duty EC001 course -- so we got permission from ARRL to wrap their excellent EC001 course "around" the Conference. If you want a really hands-on EC001 experience, register not only for the conference, but also for EC001, which will bookend the Conference with Friday and Monday lecture/exam sessions. **You are going to do SO MUCH in those four days that you are likely to check off a ton of items from the Florida ARES Task-book!**

Conference (Continued)

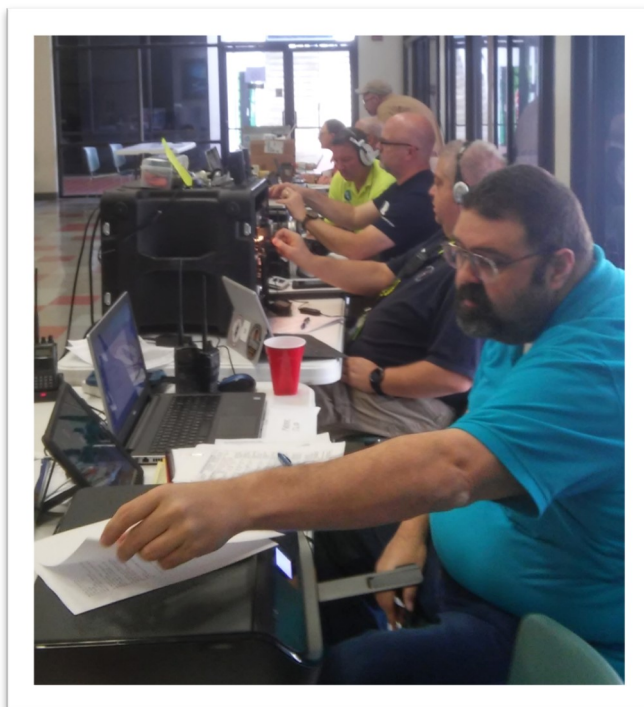
REGISTRATION: This is a bit complicated because we need some additional information that ARES Connect doesn't collect, so it is best that you click to our site, <https://www.qsl.net/nf4rc/>, scan down the center column to find the links to register for the Conference and/or the EC001. There will be links either there, or on the Google documents to lead you to the ARES Connect registration links as well....a work in progress. On ARES Connect you may need to register separately for each day....due to the way that works. We'll straighten it all out if you at east get registered on the Google docs.

CURRENT REGISTRATION: As of Nov 25 [3 months out] we already have 19 registered for the Conference, about 50% citing Disaster Relief, and 65% choosing the BASIC track. For EC001 we have 7 already signed up. These are great numbers this far in advance

See you there!



[Last year's Conference Lecture Text](#)



Ben Henley (foreground) and the "FARPOC" team hard at work in the 2019 Full Scale Exercise -- which got written up in two successive QST columns.



A homemade antenna in the 2019 Full Scale Exercise -- "Injects" will always blow holes in your radio assets and push you to develop new abilities

Lake Monroe Amateur Radio Society Outings

Rich Fischer, WA3SXX

Orlando Wetlands outing November 16 2019

On November 16, 2019 Tom Moore, KF4YEY and I set up in the Orlando Wetlands Park to experience portable operations utilizing Tom's Kenwood TS-480 and FT-817 radios. The antenna of choice was Tom's Wolf River Coils ground mounted vertical set next to a picnic pavilion hosting our operations center. A Bioeno LiFePo battery powered these radios during the whole exercise never faltering.

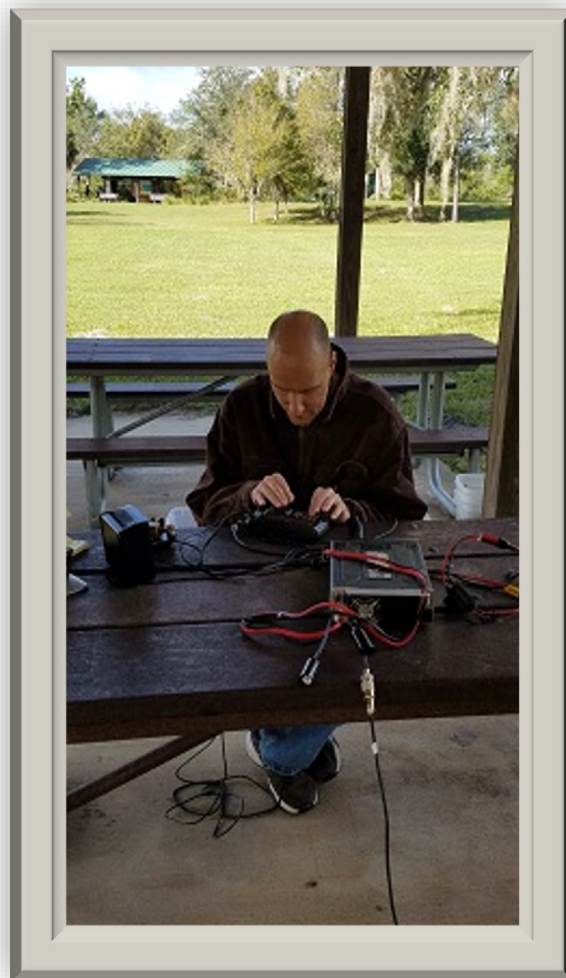
While Tom operated his rigs in CW and SSB modes state-side and DX contacts were successfully completed. Tom's contacts via CW stations were located in Iowa, Illinois, Arizona and France. A SSB QSO was made in Portugal. We only monitored activity with the FT-817 but heard a stateside operator working ZS6CNC in the Johannesburg South Africa.

Two visiting families shared the picnic pavilion. We were each offered a slice of birthday cake during a young ladies' picnic outing. The matriarch of the other family grew up having her father also being a Ham. She herself at a young age was taught the Code from her father and understood what we were doing. She asked what 'dah-dah-dit-dit' meant, now being 'rusty' from what she had been taught. I explained this was the first letter of station's prefix-ZS6CNC in South Africa.

The family was amazed! I suggested that she become active again. They all had a good laugh.

A fun but chilly day was had by us both. Tom strives to work a CW QSO daily. His skill is definitely improving.

We will plan more portable operations and will next time probably concentrate on a Parks on the Air outing.



Tom Moore, KF4YEY

Hometown Harvest November At the City of Winter Springs

LMARS provided support to the City of Winter Springs Hometown Harvest this November. The Club setup to answer questions about what we do and provided radio communications aboard hayride trailers pulled through the woods by tractors. Chairperson, Jim Robarr reported 12 volunteers arrived to support this event.



Florida Winlinkers Help Out Georgia County Preparedness Exercise

by Gordon Gibby KX4Z

On Nov. 14, James Kerns KM4UFN of Vero Beach sent out a WINLINK email to all the participants in the Monday Florida WINLINK check-in net, notifying us of an interesting exercise being conducted by the North Fulton County (Atlanta metro area) ARES group in Georgia. 48 hours after the notification, Wayne Robertson W4WK had a multi-modal drill/exercise scheduled that would involve deployed units in Fulton county using FM repeater, simplex, and D-START check-ins....but that was only the beginning.

The *real fun* was to begin when out-of-state volunteers were to forward simulated welfare-inquiries about the disaster survivors to the Georgia team and get replies (and then possibly reverse roles later in the afternoon, but I don't think we ever got that far). The kink in the works was that the Georgia team is experienced in using specific FLMSG forms (part of the FLDGI suite of free, peer-to-peer software) that are specific to the Red Cross. These forms were to be sent (somehow?) as attachments using WINLINK to designated calls in Georgia.

Most of us are happy if we can just successfully send WINLINK ICS and other forms -- asking us to send some form from FLMSG was an interesting proposition! But a bunch of us throughout Florida managed to find and get the latest version of FLMSG loaded -- and then slowly deduced that the Red Cross forms were on the same Source Forge site, downloaded them, and figured out how to install them. This was a fair bit of detective work for us!

An interesting feature of the Georgia exercise was their use of continuous GoToMeeting to allow several of us to eavesdrop and see how our messages were working out. Everyone seemed to be starting at near ground zero -- the Georgia group was struggling with WINLINK and the Florida group was struggling with FLMSG -- but within a bit, we all had figured it out and gained quite a new skill!

Add to this a New York group struggling with HF and a failing repeater & we had some moments! The Red Cross forms worked perfectly in FLMSG and transferred just fine as attachments on WINLINK. Success!

Florida participants included myself, Vann Chesney AC4QS, Harold Wilkinson manning W4UC, Five Flags Amateur Radio Assn., Pensacola, FL, John Troupe KM4JTE and Jeff Capehart W4UFL. The Florida crew appeared to supply almost 1/3 of the WINLINK inquiries as well as some ICS-214/309 action and thus contributed substantially to a very successful exercise. Hooray for North Fulton County and their efforts!



Wayne Roberson, K4WK, at an undisclosed Red Cross facility, absolutely the calmest-under-fire exercise manager I have ever had the pleasure to monitor!

FCC Testing Information

4 Corners Radio Club, Davenport FL

- First Saturday
- 10:00 AM
- Polk County Firehouse, 50945 US 27
- Walk-ins welcome
- Info: WA2FRW@aol.com

Hog County Amateur Radio Association, Bushnell FL

- First Saturday, 11:00 AM, starting September 1, 2018
- Cross Connection Church, 1451 West County Road 476, Bushnell, FL 33513
- Info: sumterVE@gmail.com

Lake ARA, Leesburg FL

- Monthly on the 3rd Saturday, prior to monthly meeting. (Except December)
- 8:00 AM
- [LARA Clubhouse](#) (11146 Springdale Ave, Leesburg – off of CR 473)
- For more information and registration, contact:
David A. Pennell, NP2MR (352) 602-5164
np2mr@yahoo.com in advance of the meeting.

Lake Monroe ARS FCC Testing, Sanford FL (LMARS)

- Third Saturday every month
- 9:15 AM
- Seminole County Sheriff's Office
Off SR 17-92, on 100 Eslinger Way in Sanford
- For more information and registration, contact Bob Cumming, W2BZY, 407-333-0690 or w2bzy@cfl.rr.com

Milton Amateur Radio Club, Milton FL

- Second Thursday of each even numbered month
- 6:30 PM
- Walk-in
- West Florida Hospital Rehab Institute, 8383 N Davis Hwy, Close to Johnson and N. Davis
- Info: Robert Speser, nb8s@icloud.com

Orlando ARC FCC Testing (OARC)

- First Wednesday every month
- 5:30 PM
- Beardall Senior Center
- 800 Delaney Ave, Orlando, FL 32801
- Info: <https://oarc.org/events-ve-testing>
- Monthly Club Meeting follows at 7:30 PM

QCWA Chapter 45, Orlando FL

- Second Thursday
- 11:00 AM
- Golden Corral, 5535 S. Kirkman Ave, Orlando
- Walk-ins welcome
- Info: WA2FRW@aol.com

Silver Springs Radio Club, Ocala FL (SSRC)

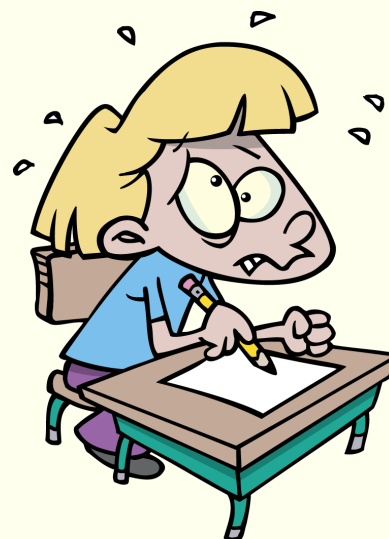
- Go to <http://k4gso.us/class/> to signup for classes
- Go to <http://k4gso.us/test-signup/> for testing. Testing is held on the 2nd Tuesday of odd months at 7 PM.
- Note <http://k4gso.us/ncvec605/> is requested to be filled out before you show for testing. It is best to download the form and open it as a PDF so you can fill in the blanks.

Suwannee ARC, Live Oak, FL

- First Tuesday of the month prior to the meeting
- Saturdays available with advanced notice
- N4SVC, 9707 58th Street, Live Oak, FL 32060
- www.suwanneearc.org for more information

Tallahassee Amateur Radio Society (TARS)

- First Tuesday of each even numbered month
- 7:00 PM
- American Red Cross, 1115 Easterwood Drive, Tallahassee, FL
- Contact TARS : tallyamateurradio@gmail.com with questions
- Info: <http://www.k4tlh.net>



Remember: Bring photo ID, CSEs, copy of current license, exam fee in cash, \$15 exact change. Large print exams are available.

NFL Web Site

For net, hamfest and other events go to www.arrrl-nfl.org. Webmaster Brian McClure, NW4R, maintains an up-to-date and detailed listing of all NFL nets and activities. If you need to make a change to an existing net or activity, or add a new one, you can contact Brian on the website.

NFL Officials

Section Manager – *Kevin Bess, KK4BFN*

Assistant Section Managers

Joseph D. Bushnell W2DWR

John C Reynolds W4IJJ

Dave Davis WA4WES

Jeff Capehart W4UFL

Neil Light KK4VHX

Ray Crepeau K1HG

Steve Szabo WB4OMM

Section Emergency Coordinator – *Karl Martin K4HBN*

Section Public Information Coordinator— *Scott Roberts KK4ECR*

Assistant SE Coordinator – *Robert A. Mitchell W4HKG*

Section Technical Coordinator – *Frank Haas KB4T*

Affiliated Club Coordinator – *Appointment Pending*

Section Traffic Manager – *Appointment Pending*

Official Observer Coordinator – *Robert Leasko, WB8PAF*

State Government Liaison – *Darrell Brock N4GOA*



Newsletter of the Northern Florida Section of the ARRL

1. Spread the word about our website www.arrrl-nfl.org and **QST NFL** on your club web-site, in a newsletter or at a meeting.
2. Send a write-up and picture of your next activity.
3. Make sure you, or the appropriate member of your club is on the email reminder list.
4. Contact: Marty Brown N4GL, n4gl.marty@gmail.com

QST NFL is a monthly publication of the ARRL Northern Florida Section. **QST NFL** is intended for wide distribution within the NFL Section, including club Leaders and all licensed Amateurs in Florida. A current issue of this publication can be found at the ARRL Southeastern Division web site, Northern Florida Section. www.ARRL-NFL.org Opinions expressed by writers are their own, and may not express the positions of the ARRL. Submissions may be made to the editor, Marty Brown, N4GL.MARTY@gmail.com.