



The Listening Post



Dedicated to Community Service and All Central Florida Hams

June 2019

President's Message

Happy hot end of May and beginning of June. Ready or not, summer is here. Most of us will be outdoors often over the next several months. It is important to stay hydrated and know the signs of heat exhaustion/stroke. It's also wise to stay in touch with neighbors during the summer. Especially those who don't have A/C and the elderly.

continued on Next Page)

OARC MEETING

JUNE 5, 2019 7:30pm

Beardall Senior Center
800 Delaney Ave, Orlando, FL 32801
ARRL Testing: 5:30pm

For information & Updates
See www.oarc.org

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The Listening Post is the OARC newsletter for OARC members. The LP will be distributed electronically via E-mail and the OARC web site (www.oarc.org).

Editor: Ed Thralls NE4H.

Comments, suggestions and articles are welcome. Send to editors@oarc.org.

Contributing to this edition: John Knott N4JTK, Michael Cauley W4MCA, James Deuel N0XIA and Ed Thralls NE4H

OARC REPEATERS

Call	Freq	Shift	PL
KB4UT	146.760*	-600	103.5
N4UMB	147.015	-600	103.5

* Fusion Repeater

D-Star

K1XC C	146.820	-600	
K1XC B	443.275	+5MHz	
K1XC A	1275.00	-12 MHz	Voice
K1XC A	1255.00	-12MHz	Digital
W4PLB C	145.160	+600	
W4PLB B	442.300	+5MHz	

All D-star repeaters are connected

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President's Message (Continued from Previous Page)

We have until mid/late October before the first "cool" front comes through and makes an ever-slight difference in the humidity and temperature.

I'm sure by now you have heard about the tornado's that struck the Dayton area on May 27. Early on the 28th I texted Michael Kalter W8CI. Michael is Dayton Amateur Radio Associations (DARA) Treasurer. He advised that he and his family were OK and still had power at the time. The Greene County Fairgrounds (Hamvention's new home) was OK and those members of DARA that he was able to reach at that point were OK. Many were dealing with some wind damage and even more were dealing with no power. I let Michael know that we all were thinking about him and everyone affected by this disaster and let him know if there is anything that we can be of assistance to let us know.

Later that evening, Michael Cauley received information that a prominent member of DARA lost their home in the early hours of the tornadic event. We immediately reached out with this person (not revealing who this is in print for their privacy) and advised them of the same as we told Michael Kalter that morning. This person was humbled to hear that we were keeping them in our thoughts and prayers and was obviously still in disbelief that it even happened. The good news is that everyone was OK! Material things can be replaced, lives cannot!

By the June meeting, I will have reached back out to DARA to see if there is anything, we can do to assist them again, including anything that can be done to assist this member who lost their home. I will let you know at the meeting. In the meantime, please keep EVERYONE affected by this disaster in your thoughts and prayers as the road to recovery will be a long and bumpy ride!

On a personal note, watching the live coverage from WHIO TV out of Dayton via the internet absolutely gave me chills seeing all the devastation up there. Mostly because 5 of us just left there 7 days before the event. Seeing buildings now destroyed that you just saw in perfect shape a week prior is very chilling. Just a few hours ago prior to writing this, the National Weather Service in Wilmington OH upgraded the tornado from an EF-3 to an EF-4. This is the same tornado (out of 14 that hit that night) that destroyed the member's house and hit the Brookville-Trotwood-Dayton-Riverside area.

Back locally, in this issue of the Listening Post, please read James Deuel's article about Field Day. Field Day will be different this year. Due to some demolition and construction going on at the Fairgrounds, Field Day will be in the Social Hall. James explains our plan for this year, but I want to reiterate what James is saying.

I cannot thank you enough for your support over the last several years on Field Day. When I became the President years ago, I was advised one area that we lacked at was setting up and tearing down the event. So, I pushed for more help with both setup and tear down and you did just that. You came out and helped!! I can't thank you enough for the help. It was greatly appreciated.

But somehow that lead to a bigger problem. Only a few stuck around to operate radios, leaving stations unmanned most of the night. This year, we need operators. We're not asking that you stay the entire 24-hour period for Field Day. James explains in his article how you can help with this. Please folks, we are a large club with MANY experienced operators. Some of you might not get on the radio much anymore for lots of different reasons. Here is on opportunity to come out and operate, enjoy the comradery, fun, and some food all while staying cool in A/C! Looking forward to seeing you all at Field Day!

Don't forget, Wednesday June 5th is our next meeting at the William Beardall Senior Center. Meeting begins at 7:30pm with our test session starting before the meeting at 5:30pm. This month program will be on Hamvention. Michael Cauley took a little over 700 pictures while at Dayton. He will be sharing some of those pictures with us. This will showcase Hamvention a bit and also provide those who have not attended Hamvention on what it is all about.

73

John Knott

N4JTK



OARC Field Day 2019

(By James Deuel, N0XIA)

Field Day for 2019 is June 22-23. The OARC will be having theirs at the Central Florida Fairgrounds and instead of the Lakeside Pavilion, it will be held at the Social Hall. There will be concerts going on Friday and Saturday night so space and time will be limited for putting up antennas. Setup will be Saturday morning with a planned entry around 8:00 AM. Operations will commence at 2:00 PM and run for 24 hours until 2:00PM Sunday afternoon, weather permitting (thunder storms and radio don't mix).



With limited space and time constraints for prepping, there will be only three voice stations set up. Setting up will not be hard. Finding operators for the 24 hours is what is needed.

For Field Day, the club would really like to see people show up to operate stations for the entire 24 hours. This does not mean you have to be there all 24 hours. If everyone can plan to operate for a ½ hour or more, through the evening, the night and into the next day, it would be possible to man all stations and would make it a great experience for all. Stations typically require two operators where one will use the radio and the other logging the successful contacts.

Contact me (jdeuel@oarc.org) if you would like to set up a station that all can participate in operating and will be there for the 24 hours of operation. There will be room for one 75 meter dipole and one 40 meter dipole. The club will put up a 10-15-20 meter beam at 30 feet near the Social Hall. There may be room for verticals if you want to put one up for your station.

73,

Official FD 2019 Gear!

(The ARRL Letter for May 9, 2019)

Official Field Day gear and supplies available from ARRL including pocket [T-shirts](#), [hats](#), [pins](#), [patches](#), [stickers](#), and coffee [mugs](#) are a great way to acknowledge -- and commemorate -- your participation in this most popular on-the-air operating event in Amateur Radio.

ARRL Field Day Site Locator is Live, Promotional Material and FD Gear Now Available

(The ARRL Letter for May 9, 2019)

Amateur Radio's most popular operating event, [ARRL Field Day](#) is June 22 - 23. See the May issue of *QST*, page 85, for the official Field Day announcement. The complete 2019 [ARRL Field Day](#) packet is online.



The [Field Day site locator](#) is now up and running, and by mid-week, 475 sites already were in the database. To find a Field Day site near you, enter your town and state in the "Location or Call Sign" box at the upper left. Listings also are available by state or Canadian province. To add a site, visit the [Add Field Day Station](#) page. [Information](#) on promoting Field Day is available. Also, [visit](#) the Field Day social media page for information on promoting your Field Day operation via Facebook, Twitter, Instagram, LinkedIn, and YouTube.

The ARRL Public Relations Committee will host a series of live video/audio conference calls every Thursday starting on May 9 to help ARRL PIOs with their Field Day publicity efforts. Field Day public service announcements (PSAs) are set to be posted to the ARRL Field Day web page this week.



Next Technician License Class Announcement

(By John Knott, N4JTK)

On July 20 & 21 2019 will be our next Technician License Class. This will be a two-day class to review for the Technician License Exam that will occur immediately after the class on Sunday.

Registration is required. You can find more info and the link to register by going to our website: <http://oarc.org/events-amateur-radio-classes> Registration ends on June 20, 2019.

HamCationSM Chairman Column

(by Michael Cauley, W4MCA)

Greetings Everyone

Wow what a busy time for Orlando HamCationSM. We just returned from Hamvention and are fixing to leave to go to HamCom in Texas in a few days.

Our trip to Hamvention was a success. We talked to a lot of our vendors about our new floor plan. We also secured a few new vendors for 2020.

We are also already planning the 2021 National Convention. We meet with ARRL while in Ohio about that it also.

Here are some of the improvements for the 2020 show:

1. All building has new ac's in them
2. All building has new lighting in them
3. Improved food vendors (Some new vendors)
4. Starting this year again we will have a theme for HamCationSM

How many people download the Hamvention/ARRL app for their phone? Did you like it? I know at the show it was a hit. I used it to find some vendors we were looking for. Would you like to see HamCationSM have an app like that?

Let me now welcome Mike Banigan, KJ4UDO to the committee. He is our new Awards Chairman. Also joining Rich Wilson in RV this year will be David Virden, W4EBN, as co-chair.

I am still looking for some positions I need to get filled for the committee. They are the following:

Logistics Chairman: This person will oversee picking up and delivering all our equipment and supplies the week of HamCationSM. This person will also hang all the signs at the show.

Public Relations/Media Chairman: The PR chair may have primary responsibility for heightening HamCationSM visibility in the Amateur community. Promotes HamCationSM image and activities in the community and informs the public of HamCationSM news.

- Develops and maintains personal contact with media representatives (QRZ, ARRL, CQ, and local media, etc.)
- Maintains an up-to-date list of media contacts, as well as a list of organizations for networking.
- Develops all media releases, with the approval of the Chairman, and directs the releases to all appropriate contacts.
- Maintains a copy of all media releases and coverage.

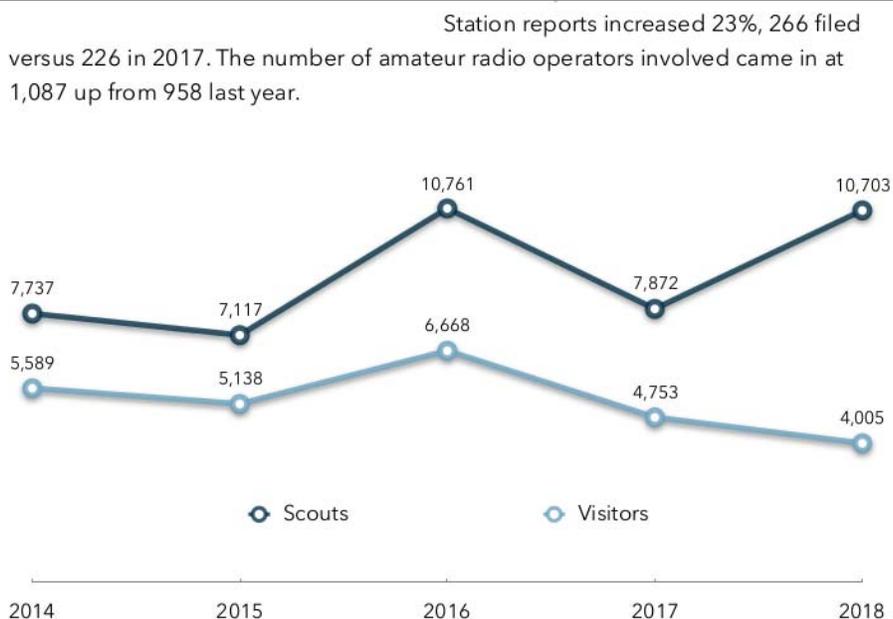
JOTA (Jamboree on the Air), Introduces Scouts to Amateur Radio

(by Ken Lyons, KN4MDJ)

JOTA (Jamboree on the Air) is a spectacular opportunity to introduce Scouts to amateur radio. For many, this will be their first exposure to the world of ham radio. Some will go on to become hams, enjoying the hobby for a lifetime. A few will even find the basis of a career in science and technology. JOTA is not a QSO contest. The



KB9UWS on the air from Carmel, Indiana, in the Crossroads of America Scout Council.



idea is to contact other Scout stations and allow as many Scouts as possible to talk to other Scouts and learn about who they are and what they are doing. You might think about counting the Scouts on both sides of the QSO rather than the number of QSOs!

Ten's of thousands of US Scouts participate every year. Scouts of all programs are invited to take part, from all countries, totaling over a million, though mostly in Asia. There is even a J-Code for language barriers.

**K4L Justin Sligh, KN4MQR, BSA
Camp LaNoChe, Paisley,
FL**



Our particular event station K4L broke records in 2018 for the total number of participants, representing 8% of the total US participation in the world-wide event. We'd like to double that by having many more stations, hams and activities this year....but we need help. Last year we processed 1,010 scouts and 235 visitors, with 5 hams and a dozen helpers. This year we are aiming for all 1800 potential scouts at the sold-out Halloween themed event.

Other events we'd like to host at this years JOTA are: CB Battleship, WiFi ARDF, true ARDF (need more people/receivers/foxes), Lego Build and CW/Morse key stations. – Our goal is to give an immersive experience and keep the scouts interested while waiting their turn

for HF/VHF and IRC Scout Chat on laptops.

World Scout Jamboree Gearing Up for Significant Amateur Radio Presence

(The ARRL Letter for May 2, 2019)

Amateur Radio will be a part of this summer's 24th World Scout Jamboree in West Virginia, the first World Jamboree held in North America since 1983. The Jamboree has chosen the theme "Unlock a New World." Thousands of Scouts and Scout leaders from some 200 countries are expected to attend. The Jamboree's Amateur Radio Exhibit will use the call sign [NA1WJ](#) -- **North America's 1st World Jamboree**. It will be on the air during the event, July 22 until August 2, at the Summit Bechtel Reserve, hosted by Canada, Mexico, and the US. Amateur Radio testing is expected to begin as early as July 14.



Operating frequencies will be posted in real time via [Facebook](#) and [Twitter](#) or via an [NA1WJ email group](#).

"The goals of the Amateur Radio station at the World Scout Jamboree are to introduce Amateur Radio to Scouts and Scout leaders through hands-on participation in two-way communication with other stations across the globe. This activity will also serve as the Amateur Radio voice of the Jamboree," the [World Scout Jamboree Amateur Radio Exhibit Operational Vision document](#) states. Other facets of Amateur Radio at the Jamboree will include Amateur Radio direction finding (ARDF), Amateur Radio satellite contacts, and a scheduled Amateur Radio on the International Space Station (ARISS) contact with an ISS crew member.

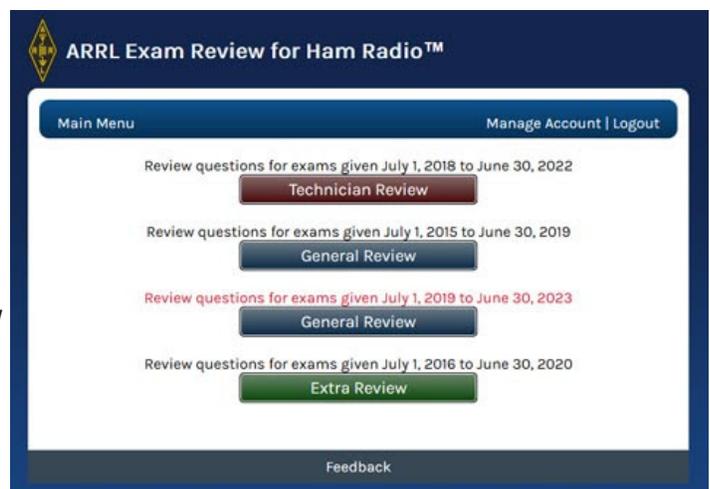
So Now What? Podcast **(The ARRL Letter for May 2, 2019)**

"Finding the Right Club for You" is the focus of the new (May 2) episode of the [So Now What?](#) podcast for Amateur Radio newcomers. If you're a newly licensed Amateur Radio operator, chances are you have lots of questions. This biweekly podcast has answers! *So Now What?* offers insights from those who've been just where you are now. New episodes will be posted every other Thursday, alternating new-episode weeks with the [ARRL The Doctor is In](#) podcast.

ARRL's Free Exam Review for Ham Radio **Updated** **(The ARRL Letter for May 2, 2019)**

[ARRL Exam Review for Ham Radio](#)[™] has been updated in advance of the release of the ninth edition of [The ARRL General Class License Manual for Ham Radio](#). ARRL Exam Review is a free online resource for use with current editions of [ARRL License Manuals](#). The service can be accessed via a web browser, and uses the official examination question pools to construct chapter-by-chapter reviews. Upon completing study, Exam Review helps the license candidate take practice exams with the same number and variety of questions that he or she will encounter on exam day. Practice tests can be taken over and over, scored in complete privacy, or even printed with an answer key. Exam Review includes quick feedback about the questions missed.

The update to Exam Review and the new



edition *General Class License Manual* coincides with a new General Class question pool released earlier this year by the National Conference of Volunteer Examiner Coordinators ([NCVEC](#)). The new 2019 - 2023 General Class question pool becomes effective on July 1, 2019 for examinations in the Amateur Radio Service. The 2015 - 2019 General Class pool remains in effect for exams given until June 30, 2019. ARRL Exam Review provides access to both the current and new General Class questions

Faster, More Contest-Friendly FT4 Digital Protocol Beta Version to Debut on April 29

(The ARRL Letter for April 25, 2019)

A new, speedier, more contest-friendly digital mode is just days away, initially in beta form. [WSJT-X](#) developers say serious work on the new FT4 protocol began shortly after the FT8 Roundup held last December 1 - 2. The goal was a mode that could compete with RTTY contesting in terms of contact rates, while preserving many of the benefits of FT8.



"Over the past month, a small group of volunteers have been conducting on-the-air tests of FT4," the *WSJT-X* development group -- Joe Taylor, K1JT; Steve Franke, K9AN; and Bill Somerville, G4WJS -- announced this week. "The early tests were very successful and helped us to make a number of important design decisions. We believe FT4 has considerable promise for its intended purpose."

The developers say FT4 soon will be ready for testing by a larger group and they're seeking interested participants who can offer their "considered feedback." They suggest reading [The FT4 Protocol for Digital Contesting](#) first. A general release of the *WSJT-X* suite that includes FT4 is anticipated in July.

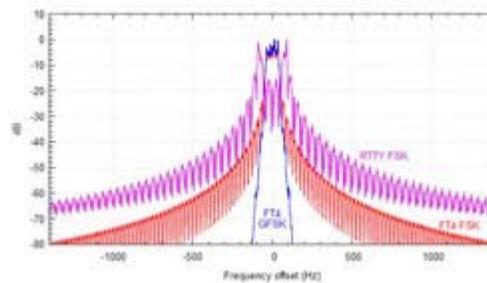
According to the document, FT4 is an experimental digital mode designed specifically for radio contesting that -- like FT8 -- uses fixed-length transmissions, structured messages with formats optimized for minimal contacts, and strong forward-error correction. Transmit-receive sequences are 6 seconds long, making it 2.5 times faster than FT8 and about the same speed as conventional RTTY for radio contesting. FT4 can work with signals 10 dB weaker what would be required to decode RTTY while using much less bandwidth.

Transmissions last for 4.48 seconds, compared to 12.64 seconds for FT8. Modulation uses four-tone frequency-shift keying at approximately 23.4 baud, with tones separated by the baud rate. The occupied bandwidth is 90 Hz.

"We plan to post downloadable installation packages for *WSJT-X* version 2.1.0-rc5 on Monday, April 29," the Development Group said.

"A few parameters and operating behaviors of FT4 are still being tested and optimized," the initial FT4 guide says. "It will be very useful to hold several more mock contest practice sessions, with a larger group of active participants."

Even if these practice sessions reveal no serious bugs or inadequacies, the *WSJT-X* development group believes FT4 is still too new to be used in the ARRL VHF Contest (June 8 - 10) and ARRL Field Day (June 22 - 23). For that reason, release candidate *WSJT-X* 2.1.0-rc5 will "time out" on June 7. A general availability release is expected in mid-July.



Spectra of an FT4 signal transmitted with GFSK (blue), FT4 with FSK (red), and RTTY with continuous-phase FSK (purple).

Operating: The Upside of Remote Control **(The ARRL Letter for April 25, 2019)**

If you've ever worked Hal Offutt, W1NN, in a contest and thought he was in Ohio, the more likely possibility is that he was in Japan (he is also 7J1AAI), operating his station in Ohio remotely via the internet. A philosophical debate continues as to whether operating a station from one place (e.g., Japan) that is physically in another (e.g., Ohio) is *really* Amateur Radio. We'll leave that for the reflector pundits to resolve among themselves. Fact is, the ability to remotely control a distant station is not all that new, and it's gaining in popularity, with remotely controlled, specially sited contest stations now available on a rental basis.



Hal Offutt, W1NN, at his remote station control point in Tokyo. [Hal Offutt, W1NN, photo]

Some hams have done it over the POTS (plain old telephone service) or a cell phone in years past, but the typical arrangement these days is via the internet, and some very sophisticated hardware and software (it takes a combination of both) has been cobbled together to make it work.

In his "Remote Contesting" column in the November/December 2018 issue of [NCJ](#), Mark Aaker, K6UFO, notes: "Remotely operated contest stations are appearing in greater numbers with each passing contest." Aaker said he's noticed four effects of remote stations on contesting: 1. Remote stations are being used to win, and place

highly, in major contests; 2. Remote stations provide valuable contacts and multipliers for other contest participants; 3. Remote stations are allowing operators to get on the air who might otherwise not be able to participate, and 4. Remote stations are developing technology that's useful for all station builders. W1NN explained how it works for him.

"Like most Tokyo residents, I live in an apartment where it is not practical to put up a ham antenna," he told *NCJ*. "For much of the contest season I was off the air, missing contests that I had come to like. Dan, WA6URY, helped me through the process of setting up a remote station. I made my first contacts from Japan via my Ohio station in the winter of 2011, so I have been at this now for 7 years. My station in Ohio is quite modest, but it is a lot better than having no station, and [operating remotely] allows me to contest as much as I want while in Japan."

OPERATING TIP

(The ARRL Contest Update for May 1, 2019)

Train Your Weaknesses With the Contest Super Simulator

Steve, W1SRD, suggested at an [IDX talk](#) that you should train to become better at the things that you know are a challenge, while choosing contest strategies that will capitalize on your skills and your station's resources. We naturally gravitate towards doing things that we like to do...because that's fun! But to get better at skills that we find difficult we have to get out of our comfort zone and practice them. Steve suggests using the **free** *Contest Super Simulator* by Wayne, W5XD, to increase operator skills regardless of mode. It can handle RTTY, CW, and SSB training scenarios, including SO2R. It faithfully recreates challenging situations such as bad operator behaviors, multiple callers, repeats, off-frequency calling and responds to operator radio skills such as tuning, bandwidth adjustments, and the like. Use it to present operating challenges that are uncomfortable, but that can be conquered over time.

WORD TO THE WISE

(The ARRL Contest Update for May 1, 2019)

Dispersion

For electromagnetic radiation, signal degradation caused by variances in the velocity factor of the propagation medium between the frequencies composing the signal. In amateur applications, dispersion is usually only a factor for wideband signals at microwave frequencies or above.

Stochastic Resonance

When a signal is too weak to be detected by a sensor, adding a small amount of white noise to the original signal can increase the chance that the signal is detected by increasing the signal above the detection threshold. The noise can be filtered out in later stages, after detection. This effect has been observed in electrical systems and is also believed to occur in some biological systems such as the human auditory system.

ARRL Reply Comments Stress Need to Update Technician Privileges in a Digital World

(The ARRL Letter for May 2, 2019)

In reply comments to the FCC (comments on comments already filed) on its [Petition for Rule Making](#) (RM-11828), ARRL has stressed that updating HF privileges for the entry-level Technician license "is the sole subject and intent" of the petition. ARRL filed its reply comments on April 29, urging the FCC to disregard comments irrelevant to its petition and maintaining that Technician privileges must be relevant within the context of today's technological environment.



"[T]he increasingly rapid pace of change in communications technologies, coupled with the national need for self-training in science, technology, engineering, and math" necessitate the rule changes requested, ARRL asserted. "ARRL made its request because of the gap between today's digital technologies and the privileges accorded the current entry-level Technician license." ARRL characterized its proposal to update the rules as "balanced and modest."

"If adopted, there would be no change to the operating privileges for all license classes other than those of the Technician class," ARRL said. In 2018, ARRL asked the FCC to expand HF privileges for Technician licensees to include limited phone privileges on 75, 40, and 15 meters, plus RTTY and digital mode privileges on 80, 40, and 15 meters. The FCC invited comments on the proposal in April.

ARRL pointed out that some comments filed on its petition address subjects related to other open proceedings rather than expanding Technician privileges, citing comments cross-filed in such proceedings as WT Docket 16-239, RM-11708, RM-11759, and RM-11831. "Those filings should be considered in the proceedings that they address, rather than here," ARRL said.

ARRL said some opposition appears based on fears of increased interference potential due to additional digital operation by Technicians. "It is improbable that all, or even a majority, of Technician licensees suddenly would develop a passion for the same digital technology," ARRL said. "Our hope and expectation is that many will engage with digital modes on the high-frequency spectrum at issue, but it is unrealistic to suggest that every Technician licensee blessed with new privileges would suddenly appear on the same band."



The comments note the development of very efficient digital modes, such as FT8, which occupies just 90 Hz of spectrum per signal. "The experience with FT8 clearly demonstrates the attraction of the digital modes *and* the spectrum efficiencies that can be achieved," ARRL said. "This is why opening up limited digital opportunities to new radio amateurs so clearly would serve the broad public interest as well as the specific purposes of Amateur Radio in experimentation and innovation, as enumerated in the governing FCC rules."

ARRL further said that comments regarding disagreement on the definition of encryption for masking the content of certain digital transmissions are also "out of place in this proceeding" and "should not delay initiation of a proceeding" proposing to update Technician privileges.

"Technology has changed dramatically in the Amateur Radio domain, and ARRL believes the requested Technician license enhancement would foster the regulatory goals for the Amateur Service and continue to increase amateurs' historical experimentation and service in a meaningful way," ARRL concluded.

FCC is Not Reinstating a Vanity Call Sign Fee

(The ARRL Letter for May 16, 2019)

An erroneous report this week suggested that the FCC planned to again impose an Amateur Radio vanity call sign application (regulatory) fee of \$70 for the 10-year term. This incorrect conclusion resulted from an incomplete reading of the May 7 FCC *Notice of*

Proposed Rulemaking (NPRM) in the matter of the assessment and collection of regulatory fees for fiscal year 2019.

Although the Schedule of Regulatory Fees does show a \$7 annual fee for Amateur Radio vanity call signs, a boldface



heading in that section of the *NPRM* states, "**REGULATORY FEES. This section is no longer in effect as it has been amended by RAY BAUM'S Act of 2018...**" Section 9(e)(2) of RAY BAUM'S Act gives the Commission discretion to exempt a party from paying regulatory fees when the FCC determines that the cost of collection exceeds the amount collected. A new section 9(e)(1) incorporated the Amateur Radio vanity fee exemption from FCC rules into the statute.

The *NPRM* makes clear in several other places that regulatory fees no longer apply to Amateur Radio licenses. The FCC eliminated the regulatory fee for Amateur Radio vanity call signs in 2015.

Swap/Shop/Sell/Trade in *The Listening Post*

This is the opportunity for you to list your amateur radio related items you either have for sale, swap or trade. Listings must be of a non-commercial nature. Pictures of the items can be included.



For Sale: Realistic DX-390 Short Wave Receiver with modes FM/FM Stereo/LW/MW/SW Unit is PLL synthesized. \$150 OBO
Contact: Christy KN4MDM at 407-921-9555



For Sale: Tecsun PL-660 Portable AM/FM/LW/Air Shortwave World Band Radio with Single Side Band \$150 OBO
Contact: Christy KN4MDM at 407-921-9555



For Sale: Galaxy Saturn Radio Base Station.
Great talking radio with 25 Watts on SSB.
It has CW/FM/AM/USB/LSB \$475 OBO
Contact: Christy KN4MDM at 407-921-9555

OARC will not be responsible for any claims that are made in the listings. OARC reserves the right to reject a submitted item if it is deemed to be inappropriate. A listing will not be repeated from month to month unless it is resubmitted.

Be sure to include your full name, call, and contact information, along with an exact description of the item.

Send your amateur radio related items by email directly to: James Deuel, NOXIA, jdeuel@oarc.org in the following format:

Name, Callsign, Contact information (phone number and/or e-mail address)

Item #1: (Description) Asking price: \$

Item #2: (Description) Asking price: \$

Or

Looking for (description) and willing to pay up to \$

Any item received after the 20th of the month will not be included in the next month's issue of *The Listening Post* newsletter.

Remember - KB4UT, Wayne Nelson's Trader Net held every Tuesday night at 8:00 PM, on the KB4UT 146.760 repeater

If you don't hear what you want on the net, check the Listening Post.

Weekly Radio Network Meetings

Mon @ 20:00	147.460	Seminole ARES Net
Tues @ 19:00	145.350	Osceola ARES Net
Tues @ 19:30	147.195	Quarter Century Wireless Association
Tues @ 20:00	146.760	Wayne Nelson Trader's Net
Wed @ 19:00	147.300	Disney Emergency Amateur Radio Service
Wed @ 21:00	432.090	Florida Weak Signal Group
Thur @ 19:00	443.050	Orange County ARES Net
Thur @ 20:30	432.090	Florida Weak Signal Group

HELP WANTED

We are in need of a co-editor for our monthly Listening Post. The job duties are to collect the articles from various authors/members within the club and on the Board of Directors. Gather other information pertinent to creating a newsletter. Afterwards provide the President with a print ready copy of the newsletter for publication to the membership.

You will be working with another co-editor and as in the past, one co-editor takes one month the other co-editor takes the following month, creating a monthly rotation. Having some editing and newsletter creation is a huge plus. Patience dealing with volunteer authors is golden!!

If you are interested, please contact John Knott, N4JTK at jknott@oarc.org . If you have any examples of your work you want to send, please do so.

OARC Meetings and Events 2019

June 5, Wednesday	Meeting , 7:30pm at the Beardall Center
June 22-23, Saturday & Sunday	ARRL Field Day 2019 , Orlando Fairgrounds
July 3, Wednesday	Meeting , 7:30pm at the Beardall Center
August 7, Wednesday	Meeting , 7:30pm at the Beardall Center
September 4, Wednesday	Meeting , 7:30pm at the Beardall Center
October 2, Wednesday	Meeting , 7:30pm at the Beardall Center
October 13, Sunday	Ride 4 Ronald
November 6, Wednesday	Meeting , 7:30pm at the Beardall Center
December 4, Wednesday	Meeting , 7:30pm at the Beardall Center
December 7, Saturday	Christmas Party *** Buy Tickets Sep, Oct, Nov, at club meetings (No purchases at the door), Don't forget an unwrapped toy for a tot
January 1, Wednesday	Meeting Canceled

December 2019 Meeting Announcement

This year we will be having a December meeting. The Meeting will be held on Wednesday December 4, 2019 at 7:30p at the Beardall Senior Center. There will **NOT** be a January 2020 Meeting as this is New Year's Day and Beardall is Closed.



