Orlando Amateur Radio Club

The Listening Post

Dedicated to Community Service and All Central Florida Hams March 2021

President's Message

****Important Please Read Entire Message****

Greetings! It has been an interesting and busy month. I am sure that Michael will bring everyone up to speed about the HamCation® 2021 Special Edition, but I want to touch on one thing. During the HamCation® 2021.

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OARC MEETING

March 3rd, 7:00pm
YouTube Live and Zoom
Beardall Senior Center **- CLOSED**
800 Delaney Ave, Orlando, FL 32801
ARRL Testing: **CANCELED**
For information & Updates
See www.oarc.org

OARC Board of Directors
President: John Knott, N4JTK
Vice President: Michael Cauley, W4MCA
Treasurer: Ana Groe, KM4JVE
Secretary: Bob Nocero, W4KBW
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Frank Gergits, KC9GNQ
Tony Darnell, KK4VRP
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Frank Tagliani, KD4EZW
James Deuel, N0XIA

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

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

From the President's Desk (*Continued* from Previous Page)

Special Edition, the HamCation® VE team, which consisted of a lot of the OARC VE team members, was able to pull off the first ham radio license testing since March 2020. Because of COVID-19, many of the City owned community/recreation centers were shutdown, we have not been able to hold a VE test session since March 2020. Over the months since the shutdown, we have received lots of e-mails asking when we were going to have a test session again. We know that Lake Amateur Radio Association and another group in the area were conducting license testing with extremely limited capacity. The team did a phenomenal job and tested 40+ candidates on HamCation® 2021 Special Edition weekend at the Central Florida Fairgrounds. From new hams to upgrades, it was awesome to see that this was accomplished again with safety and social distancing in mind. Additionally, as the President of OARC, I just want to take a moment and publicly thank Michael and his team of dedicated HamCation® Committee volunteers AND the many additional volunteer moderators, HamCation® QSO Special Event volunteers and the VE team who successfully pulled off something totally different this year. The amount of positive feedback from those who participated either in the HamCation® QSO Party and/or the webinars was overwhelming. For several days afterwards the e-mails were non-stop! The HamCation® 2021 Special Edition was a hit!

Last week I sent out an e-mail letting everyone know that again, because of COVID-19, our nominations and elections will be a little different again this year. Mostly because they will be electronic compared to being done at the in-person meeting only. It is important that if you wish to be considered for a director or officer position that you send an email to nominations@oarc.org and let Bob Pollack, KF4IMF, know of your intentions before nominations are closed and the slate is announced towards the end of the meeting on March 3. Once the nominations are closed, it is too late. To run for a board position, you must have been a member of OARC in good standing for at least one year prior to the annual meeting and be at least 18 years old.

Additionally, to vote in the elections, you must be a member for at least 90 days prior to the annual meeting in April. Each voting eligible member will receive an electronic ballot via e-mail approximately one week prior to the annual meeting. This ballot will have a specific period (clearly stated in the email) that you will be able to cast your vote. If you attempt to vote prior to or after the period, your vote will not be accepted. You can only vote once. Each e-mail is unique to the recipient only. Therefore, it is important that our membership chairman has your correct e-mail address, and your dues are current. If you need to check your membership status or e-mail address on file, send an e-mail to membership@oarc.org and Rick can verify when your membership expires and what e-mail address he has on record. **DO NOT ASSUME** that just because you received this newsletter that your membership is still current. We allow you a few months after your membership expires to bring it current BEFORE we remove you from the e-mail list.

Our presentation this month will be from TN07 Engineering and will be on Stealth HF Antennas. For those of you who live in a HOA controlled or Deed Restricted neighborhoods, this will be a great presentation for you! I know that there are several of you that live in these areas, as you have asked me in the past – "How can I put up an antenna in such communities?"

Finally and this one is important to me. I am reaching out to those of you who have been a member of OARC for many years. Maybe you have been quietly monitoring in the background, have not been active in a while, or have not been to a meeting in a while. Maybe you are a life member, past board member, or HamCation® Chairman or Assistant Chairman, or committee member. I would love to hear from you. Let me know that you are still out there. Tell me about yourself and what you like about OARC, or even dislike. Recently, we have lost many valuable longtime members and sadly I did not know much about them. Mostly because they served prior to my membership with OARC and have not been active with the club since. I want to change that. This club has a wealth of information within its members and I would love to tap into that knowledge. Please, do not hesitate to contact me.

73

John Knott, N4JTK

HamCation® Chairman News

(by Michael Cauley, W4MCA)

Greetings Everyone

I hope everyone is still staying safe.

I am writing this article Friday night in Dalton, Georgia getting ready to staff our HamCation® Booth tomorrow at the Dalton Hamfest to promote HamCation® 2022.

This will be the 1st of hopefully many more hamfests in 2021. We decided to kick off the 2022 HamCation® season here to promote the 75th HamCation® and the ARRL National Convention.

So now let me thank all the Moderators, VE's and Committee members that help us pull off a successful HamCation® 2021 Special Edition.

The Webinars were a hit. We received lots of e-mails congratulating us on how great all the webinars where and thanking us for doing a virtual event this year.

The QSO party was also a hit also with over 9,000 QSO's with the 9 1x1 stations.

Here is some of the statistics:

- The lowest temperature reported was -45 deg F.
    - There were 736 temperatures reported below zero.
    - Average temperature was 25.8
    - Average Florida temperature was 75.3
- We worked:
    - All 50 states, plus DC
    - Ohio and Texas over 600 times
    - IL, MI, PA and NY over 400 times
- 44 DXCC Entities
    - Canada – 465 times
- More than 10 times:
    - Puerto Rico
    - Costa Rica
    - Alaska
    - England
    - Hawaii
    - Italy
    - Netherlands
- 5 Continents
- 20 CQ Zones
- 1,048 US Counties

I want to thank all the VE's who took time out of there day to come to the Central Florida Fairgrounds and administer licensing exams to 40+ people.

No, I did not forget about the donation checks. We are finalizing all the numbers and should have final total by mid-March and start giving checks out in April.

Now it is time to move on to 2022. The HamCation® website should be live for 2022 around March 1, 2021 giving us almost a whole year to sell Tickets, Commercial Booths, Swap Tables, Tailgate Spaces and RV Nights. Also, if you want to take a test

it will also be live. I did not forget all the volunteers you will be able to sign up to volunteer for HamCation® 2022 when the website goes live.

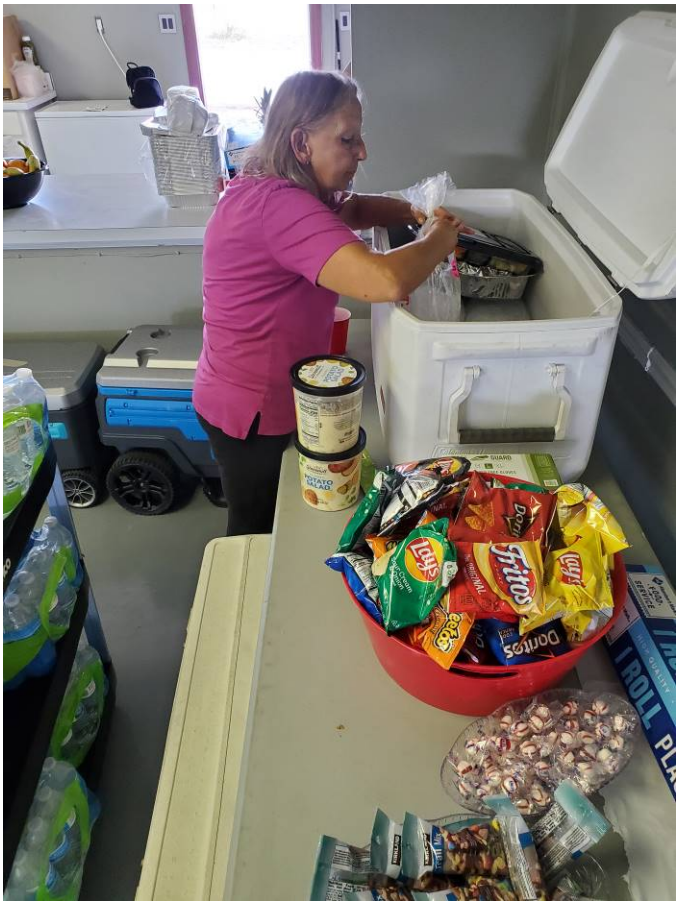
I will be looking for some people to join our awesome committees and help HamCation® out even more for 2022.

Please keep an eye on our website (http://hamcation.com) for more information.

73's
Michael Cauley W4MCA
2021 HamCation® Special Edition General Chair

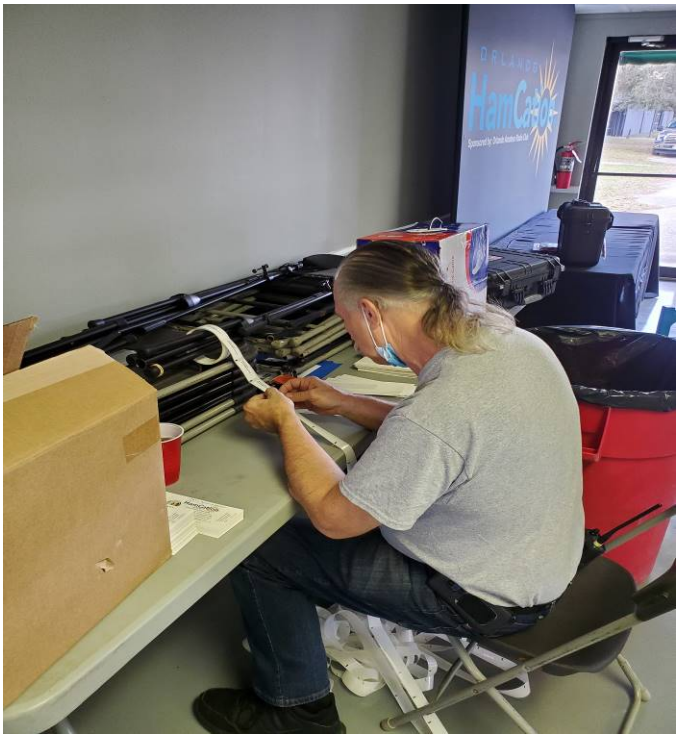
What HamCation® Looked Like in 2021

Thanking a Sponsor



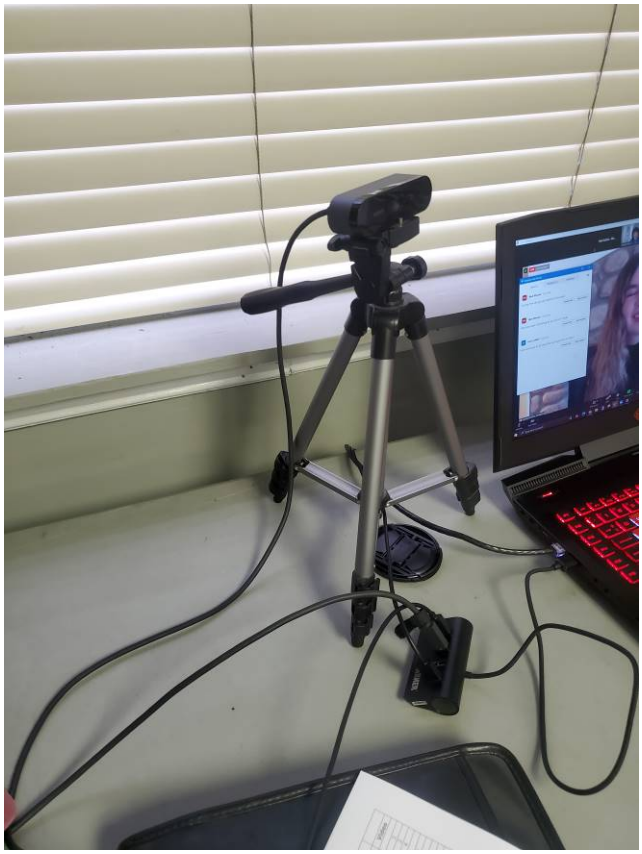
Checking Supplies

A Different View

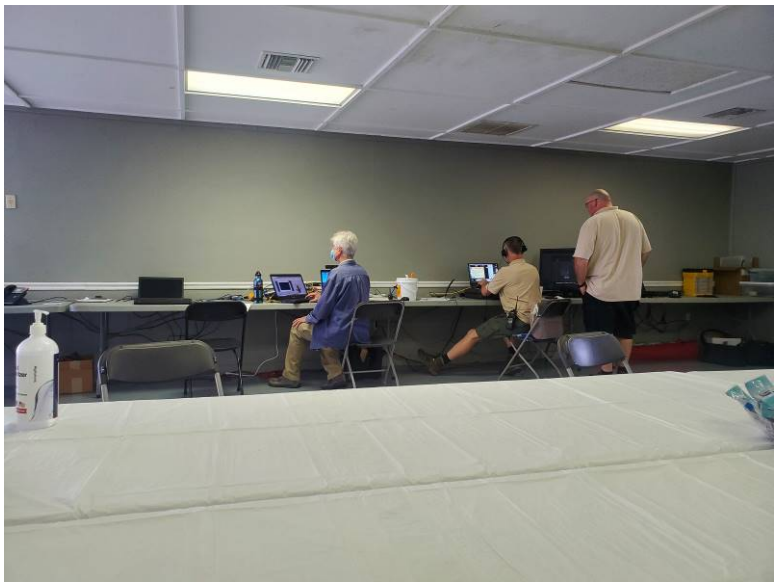


Address Labels for Prizes

Tickets in the Prize Barrel



New Technology



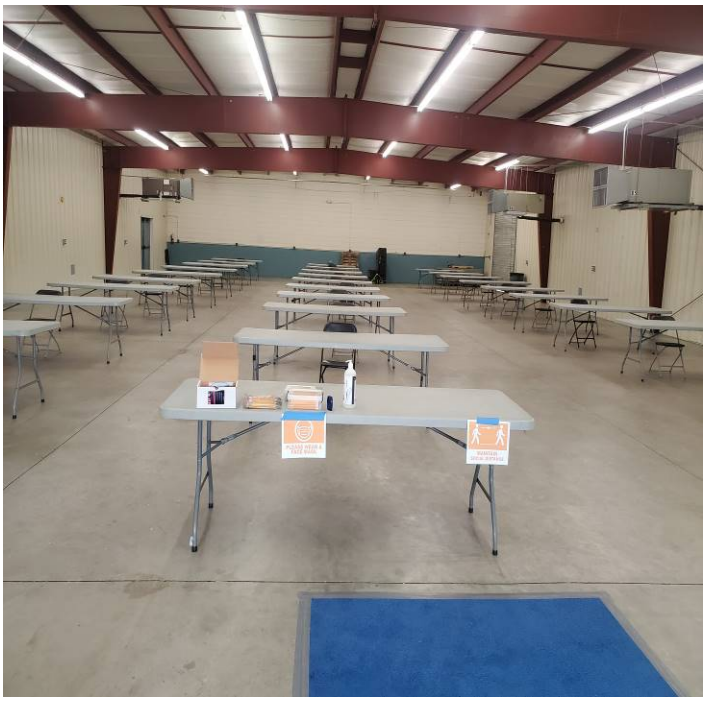
Checking Forum Schedule

Lunch

Lunch Continued

Lunch Continued

Check-In for Testing



Spatial Setting for Testing

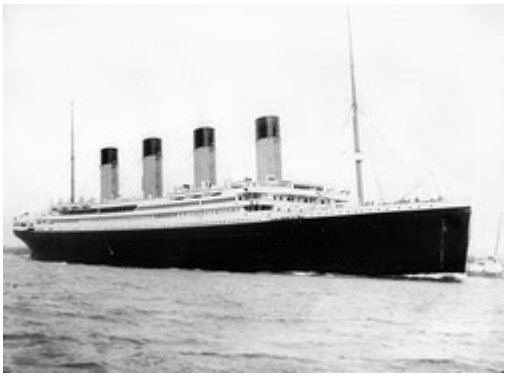
Check-In for Testing

“Soup’s On”

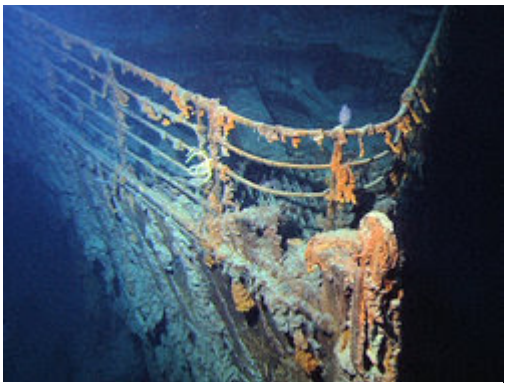
Plans to Retrieve *Titanic* Wireless Equipment Put on Indefinite Hold

(The ARRL Letter for February 4, 2021)

RMS Titanic, Inc., (RMST) the company that owns salvage rights to the *Titanic* shipwreck, has indefinitely put off its plans to retrieve the vessel's radio equipment for exhibit. The company cited the coronavirus pandemic for the delay, according to a January 29 court filing. The Atlanta-based company said its plans have faced "increasing difficulty associated with international travel and logistics, and the associated health risks to the expedition team." RMST's primary source of revenue comes from its exhibits of its vast collection of *Titanic* relics, which have been closed or seen only limited attendance due to virus-related restrictions.



RMST -- a subsidiary of Premier Exhibitions and the "salvor-in-possession" of the *Titanic* wreck site -- said its planned expedition to recover the ship's wireless station equipment remains a top priority, however, and will "take place as soon as reasonably practicable." The Marconi-equipped station transmitted the distress calls after the *Titanic* (on its maiden voyage) struck an iceberg some 370 miles off the coast of Newfoundland in 1912 and began sinking. The transmissions, heard by some nearby vessels, have been credited with helping rescue some 700 passengers in lifeboats deployed from the *Titanic*, but about 1,500 passengers were lost.



The bow of the *Titanic* on the ocean's bottom. [NOAA/IFE/URI Photo]

RMST has been in an ongoing legal battle with the US government over whether the recovery operation would be legal. In May 2020, a US federal judge in Virginia gave permission to retrieve the wireless gear, ruling that the company would be permitted "minimally to cut into the wreck" to access the radio room.

RMST has said the radio room may be reachable via an already-open skylight. But, the National Oceanic and Atmospheric Administration (NOAA) has contended that the retrieval expedition is still prohibited under US law and under an international agreement between the US and the UK.

The wreck, some 2 1/2 miles beneath the surface, remained undiscovered until 1985.

ARISS and Partners Investigating Ham Radio Anomaly Following Spacewalk

(The ARRL Letter for February 4, 2021)

Amateur Radio on the International Space Station (ARISS) and its partners are troubleshooting what's keeping the NA1SS amateur station off the air. ARISS became aware of the problem after an attempted contact with a school in Wyoming, between ON4ISS on Earth and astronaut Mike Hopkins, KF5LJG, at NA1SS, had to abort when no downlink signal was heard. ARISS has determined that the problem is not with the radio equipment on board the ISS *Columbus* module.

ARISS-International Chair Frank Bauer, KA3HDO, explained that during a January 27 spacewalk to install exterior cabling on the ISS *Columbus* module, the coax feed line installed 11 years ago was replaced with another built by the European Space Agency (ESA) and Airbus. It included two additional RF connectors to support the Bartolomeo payload-hosting platform installed last spring on *Columbus*.

"On January 26, prior to the EVA [extravehicular activity], our *Columbus* next-generation radio system was shut off and the ISS-internal coaxial cable to the antenna was disconnected from the ARISS radio as a safety precaution for the EVA," Bauer said. During the spacewalk, an external four-connector coax feed line replaced one with two RF connections.

"This change was made to allow ESA to connect ARISS and three additional customers to Bartolomeo, as compared to ARISS and one additional RF customer," Bauer explained.

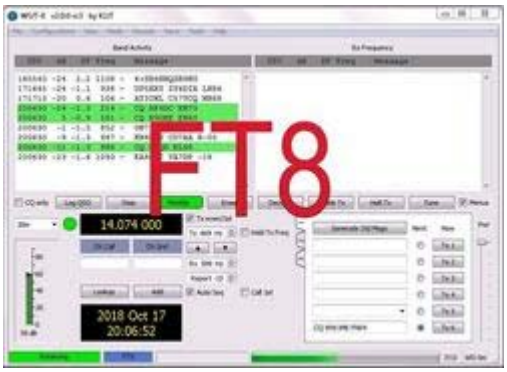
With the spacewalk completed, the ISS crew restarted the ISS ham radio station on January 28, but no voice repeater or automatic packet repeater system (APRS) downlink reports were heard, and no downlink signal was heard during an attempted scheduled school contact either.

Bauer said that because the exterior cable is not an ARISS cable, ARISS is working with ESA and NASA on a way forward. "NASA has opened a Payload Anomaly Report on this issue. We have talked to both the NASA and ESA representatives," Bauer said.

FT8 and the Other *WSJT-X* Digital Modes are "Tools," K1JT Says

(The ARRL Letter for February 4, 2021)

According to *WSJT-X* software co-developer Joe Taylor, K1JT, the very popular FT8 and the other digital modes in the software suite "are tools, freely available to hams who want to use them. They are very good at some things, not so good at others." Nonetheless, FT8 -- and, by extension, its contest-mode variation, FT4 -- especially have become game-changers on the HF bands, although, as Taylor has explained, FT8 "was explicitly designed" for making contacts during weak, multi-hop, sporadic-E openings on 6 meters.



"It's extremely good at that," he added, and noted that transcontinental and intercontinental DX on 6 meters has greatly benefited from the use of FT8 over the past several years. Developed in 2017, FT8 is named after its developers -- Taylor, and Steven Franke, K9AN. The numeral designates the mode's eight-frequency shift-keying format.

Taylor said that while the development team knew that FT8 would be very useful for weak-signal DXing on HF as well as on 6 meters, it did not foresee that it would have the sort of impact it's had on HF operating.

Taylor agreed that FT8 is "a mature mode," with the protocol's details published in *QEX*. "Details of message structure, in particular, will not change in a way that is not backward compatible," he said.

Although some FT8 fans may feel the mode is running out of room on some bands, Taylor said that as far as he and his fellow *WSJT-X* developers are concerned, the 3 kHz slices of spectrum suggested for FT8 use are just that -- suggestions.

"There is no reason why additional slices should not be used when over-occupancy requires it," he told ARRL. "We don't attempt to dictate such usage patterns; band planning is best done by committees created for that purpose."

Many radio amateurs are taking advantage of the FT8 and FT4 modes all the time. FT8 watering holes are sometimes the only places to find signals on bands that otherwise might be considered dead.

The *WSJT* Development Group this week announced the general availability release of *WSJT-X* Version 2.3.0. It includes a new Q65 mode but does not involve any changes to the FT8 protocol. A summary of new features can be found in the *WSJT-X*

2.3 *User Guide*. The *Release Notes* offer additional information, including a list of important program changes since the *WSJT-X 2.2*. Upgrading from earlier versions of *WSJT-X* should be seamless. Installation packages for Windows, Linux, and Macintosh are available.

ARRL to Extend Field Day Rule Waivers from 2020, Add Class D and E Power Limit

(The ARRL Letter for February 11, 2021)

The COVID-19 pandemic-modified ARRL Field Day rules from 2020 will continue this June with the addition of a power limit imposed on Class D (Home Stations) and Class E (Home Stations-Emergency Power) participants. The news from the ARRL Board's Programs and Services Committee comes as many clubs and groups are starting preparations for Field Day in earnest. Field Day 2021 will take place June 26 - 27.

"This early decision should alleviate any hesitancy that radio clubs and individual Field Day participants may have with their planning for the event," said ARRL Contest Program Manager Paul Bourque, N1SFE.

For Field Day 2021, Class D stations may work *all other* Field Day stations, including other Class D stations, for points. This year, however, Class D and Class E stations will be limited to 150 W PEP output.

For Field Day 2021, an *aggregate* club score will be published -- just as it was done last year. The aggregate score will be a sum of all individual entries that attributed their score to that of a specific club.

ARRL Field Day is one of the biggest events on the amateur radio calendar. Last summer, a record 10,213 entries were received.

"With the greater flexibility afforded by the rules waivers, individuals and groups will still be able to participate in Field Day, while still staying within any public health recommendations and/or requirements," Bourque said.

The ARRL Field Day web page contains complete rules and entry forms, as well as any updated information as it becomes available. Join the ARRL Field Day Facebook group

ARRL to FCC: Additional Volunteer Examiner Coordinators (VEC) Not Needed

(The ARRL Letter for February 11, 2021)

ARRL has told the FCC that no additional Volunteer Examiner Coordinators (VEC) are needed to oversee the administration of amateur radio exams by Volunteer Examiners (VEs). Examination opportunities have continued to be widely available throughout the US -- except for a couple of months during the onset of the COVID-19 pandemic -- and adding VECs to the 14 now in place would "have no effect" on the number of available exams, ARRL said.

ARRL's comments on February 4 were in response to a January 5 FCC *Public Notice* in WT Docket 21-2 seeking input on possible expansion of the VEC pool.

"We found that even though 10 of the 12 months for calendar year 2020 were times of severe disruption throughout the nation, including for FCC and ARRL Headquarters staff, amateur examination opportunities and numbers were strong," ARRL told the FCC.

"Instead of increasing the number of VECs, we would encourage volunteers to become accredited as VEs and to volunteer to help the current VECs wherever possible," ARRL said. "Many of the VECs would welcome help." ARRL said VEs, not VECs, are responsible for administering amateur radio exams.

The number of new and upgraded licenses has been in line with earlier years, "with noticeable increases in the 4 months following the lockdown that occurred in many areas in the early spring," ARRL pointed out.

ARRL said, "Increasing the number of VECs would expand the complexity of VEC coordination and management, increase demand on FCC resources to interface with additional organizations, and raise the potential for abuse and fraud."

ARRL Board Considers Plan to Cover New $35 FCC Fee for Some Young Applicants

(The ARRL Letter for February 18, 2021)

At its Annual Meeting in January, the ARRL Board of Directors considered a motion to offer a new service that would pay the new but not-yet-implemented $35 FCC application fee for a limited number of new radio amateurs younger than age 18 who, at the time of testing, belonged to an ARRL-affiliated 501(c)(3) charitable organization and passed their tests through an ARRL VEC-sponsored exam session. The proposal called for reducing the VEC fee

for these candidates to $5. The initial proposal came from ARRL Southeastern Division Director Mickey Baker, N4MB. Other Board members offered subsidiary motions. Supporters said the purpose behind the motion was to ameliorate the potential financial hardship the pending FCC application fee posed on certain minors applying for their first license, and to encourage new youth membership.

Consideration of the motion, which was subject to considerable discussion, was deferred to an ad hoc committee composed of the members of the Administration & Finance Committee, two Members of the Programs & Services Committee, and ARRL CEO David Minster, NA2AA (or his designated representative). The Board directed the panel to review and more fully develop the proposal and report back to the Board by the end of March with a recommendation as to whether such a program should be adopted and, if adopted, how it should be implemented.

Supporters expressed the belief that recruitment and training of young radio amateurs "is a necessary and proper mission of the ARRL" and that subsidizing the $35 fee "will reduce the number of new amateurs that otherwise would be lost from these groups."

In December, the FCC agreed with ARRL and other commenters that the initially proposed $50 fee for certain amateur radio applications was "too high to account for the minimal staff involvement in these applications." In a *Report and Order* (R&O), the FCC scaled the fee back to $35 for a new license application, a special temporary authority (STA) request, a rule waiver request, a license renewal application, and a vanity call sign application. All fees are per application. There will be no fee for administrative updates, such as a change of mailing or email address.

WORD TO THE WISE

(The ARRL Contest Update for February 3, 17, 2021)

Efflorescence

According to Wikipedia, Efflorescence is the "migration of a salt to the surface of a porous material, where it forms a coating." "Primary efflorescence" in concrete is a normal for concrete subject to moist conditions. When concrete absorbs external salt-laden liquids (such as where salt is used for ice melting), it can start to degrade, with the liquid re-appearing on the surface as "secondary efflorescence." For poured concrete structures (such as tower bases), extensive "secondary efflorescence" **may** indicate "internal structural weakness" brought on by the "migration or degradation of component materials."

Whistler

From Wikipedia: A VLF radio wave generated by lighting. "They are produced by lightning strikes (mostly intracloud and return-path) where the impulse travels along the Earth's magnetic field lines from one hemisphere to the other. They undergo dispersion of several kilohertz due to the slower velocity of the lower frequencies through the plasma environments of the ionosphere and magnetosphere."

OPERATING TIP

(The ARRL Contest Update for February 3,2021)

State QSO Parties

QSO parties are popular events appealing to a wide spectrum of amateurs, from the most casual operators to those out to "win it all" in their category. There are state QSO parties for nearly every state, with California's CQP proclaiming itself the largest. In addition to, or sometimes instead of their own state-specific events, some states team up for a regional event: the New England QSO Party covers Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut, and the 7QP covers the traditional geographic area of the seventh call area. Some state QSO parties don't even call themselves the state QSO party: Washington's Salmon Run is a state QSO party in all but the name.

For most QSO parties, stations *inside* the state give out a signal report and county. Stations *outside* the state supply signal report, and their state. QSO party rules specify what is and is not a multiplier, and there may be special "bonus" stations, and special multiplier stations. Make sure both you and your logging program are up to date with the current QSO party rules if you're at all serious about this.

Participants that are beyond casual usually have the list of the state's counties printed out, because counties will be logged using abbreviations. For those that don't live here in Washington, it's a common mistake to mix-up WAH and WHA for WAHKIAKUM and WHATCOM counties. Having a county list at hand makes it much easier.

CQing: The call district number in a US call sign doesn't mean the station is actually located in that area, so there's a general "protocol" for calling CQ that's different for in-state versus out-of-state stations. In-state stations calling CQ in a QSO party usually use a message including the event, like "CQ Vermont QSO Party" (CW: "CQ VQP"), while out-of-state stations in a QSO party use a directed message including the state, e.g. "CQ Vermont" (CQ: "CQ VT"). A specific QSO party's rules may have specific suggestions for CQing.

For those that enter multiple QSO parties over the year, there's the State QSO Party Challenge in which "each call sign's cumulative score is calculated by totaling up his/her number of reported contacts and multiplying by the number of State QSO

Parties (SQP) entered year-to-date. The use of the number of SQPs entered as a multiplier is to encourage radio amateurs to enter more state/province QSO parties."

Just the Call Sign Please

During his Hamcation presentation "Remote Contesting and DXing -- The Journey of Building and Operating a Remote Station" last weekend, Ned, AA7A, was asked whether he signs /7 when contesting in the seventh call area when not at his home station. Ned's reply: "No. It's a real disadvantage to add any length to a callsign. In the US, any US call sign can be anywhere. For award or QSL purposes, always indicate our location on our uploads and QSL."

CONVERSATION

(The ARRL Contest Update for February 17, 2021)

Planning for Resilience

In collecting information in preparation for a Hamcation webinar, I asked Bob, W2SJ, president of the Mt. Airy VHF/UHF Society, for his thoughts on the state of VHF/UHF contesting, and where it might be going in the future. It turns out I asked him at the right time (end of January). Rather than provide his own opinion, he offered to share *part* of the collective club feedback (special thanks to Mike, N2DEQ, for providing the summary). The part they shared is the "impact of digital modes on minimal SSB activity on 6 and 2 meters" gathered at the club's customary wrap-up meeting that took place after the January VHF Contest. According to Bob, the all-day meeting usually starts socially with coffee and donuts, transitions to hoagies and other snacks, and ends with planning for next year's contest. This year, everyone had to be content with whatever food they had at their personal end of the Zoom connection.

Club member comments generally echoed those that also have been made post-contest by other VHF/UHF contesters: that the newer digital modes are attracting many operators; that the modes are "sticky" and that some operators using them won't attempt to use other modes, even when there would be a rate advantage by doing so; for many "analog" (SSB/CW) operators, using the new digital modes doesn't have the same emotional appeal.

The club members found no hard and fast answers to these concerns, but did focus on recommendations for actions that would help no matter what the underlying reasons might be, and would be responsive to the changing contest landscape. These included:

- Developing FTx mode best practices and communicating them clearly
- Reviewing current practices, improving as necessary, and incorporating FTx mode best practices, being disciplined about using all contact methods possible
- Encouraging more operating time (BIC) during the contest weekend
- Having better coordination with other clubs for contact opportunities

Since the FTx mode software is really only in its second year of contest features, many current users expect that it will continue to be refined in capability and usability of the contest-essential tasks such as moving a station to another band or mode.

The club's actions embody a framework for improving scores, accommodating change, and anticipating improvements, but not being dependent on them.

David A. Minster, NA2AA

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

(James Deuel N0XIA)

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.

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, N0XIA, 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.

First: Bob Last: Van Nostrand Call: Phone: 732-371-0759 Email: pvannostrand@yahoo.com
Selling a Yaesu FRG-7700 with MU-7700 and a Dymek DA-100D antenna. Also a FRG-8800 with a Dymek DA-100D. Both in very good condition, hardly used, in original boxes with instruction manuals. Asking $600 for everything. Any questions reply via email or text to Bob.
From the editor: Not being familiar with these radios, I looked them up and found some information on these two radios that can be found with these links:
https://www.universal-radio.com/catalog/commrxvr/frg7700.html This link will find information on the FRG-7700 and MU-700. This looks like a product for shortwave enthusiasts since it is a receiver only. https://www.universal-radio.com/catalog/sw_ant/da100d.html This link will find information on the Dymek DA-100D antenna. https://www.universal-radio.com/catalog/commrxvr/frg8800.html This link will find information on the FRG-8800 shortwave receiver.

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

There have been a lot of equipment offerings on the Wayne Nelson's KB4UT Traders Net and yet few send any of the listings to be posted in the Listening Post. Do keep that in mind if you want to reach out to a wider audience locally. Feel free to send me listings to have posted.

73's
James, N0XIA
jdeuel@oarc.org

Weekly Radio Network Meetings

Mon @ 20:00	**147.090**	**Seminole ARES Net – Except – First Monday of the month (146.460 Simplex)**
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**

OARC Meetings and Events 2021

March 3, Wednesday	Virtual Meeting, 7:00pm YouTube Live! and Zoom
April 7, Wednesday	Virtual Meeting, 7:00pm YouTube Live! and Zoom
May 5, Wednesday	Virtual Meeting, 7:00pm YouTube Live! and Zoom
June 2, Wednesday	Virtual Meeting, 7:00pm YouTube Live! and Zoom
June 26-27	ARRL Field Day
July 7, Wednesday	Meeting, 7:30pm at the Beardall Center
August 4, Wednesday	Meeting, 7:30pm at the Beardall Center
September 8, Wednesday	Meeting, 7:30pm at the Beardall Center
October 6, Wednesday	Meeting, 7:30pm at the Beardall Center
November 3, Wednesday	Meeting, 7:30pm at the Beardall Center
December 1, Wednesday	No Club Meeting
December 4	Christmas Party

Orlando Amateur Radio Club

OARC Membership Application

Make checks payable to:
Orlando Amateur Radio Club

Mail to:
Orlando Amateur Radio Club
Post Office Box 574962
Orlando FL 32857

To have your membership card mailed to you, please include a SASE with your check.

Date: __/ __/20__ [ ] Regular Member [ ] Family Member [ ] Associate Member
[ ] New Membership [ ] Renewal [ ] CMP

Name: _____ Call _____ Class _____

Address: _____

City _____ State _____ Zip _____

E-mail Address (print) _____

(Home) Phone: _____ (Cell) Phone _____ Birth Month_____

Rates: Regular [ ] 1 year $15.00 [ ] 3 years $40.00 [ ] 6 years $75.00

Rates: Family [ ] 1 year $5.00 per family member Husband, Wife or Child under 18

Rates: Associate [ ] 1 year $15.00 Dues Total: _____

All Membership(s) will expire ONE, THREE or SIX year(s) from date paid.

Other Club Affiliations:_____

_____

Are you an ARRL Member: [ ] Yes [ ] No

Name Badges: White letters on Black background with Gold embossed OARC logo.

[ ] Regular 3” x 1.5” @ $10.00 each

Name: _____ Call _____

All badges are to be picked up at the General meeting or add $3.00 for shipping & handling.

Shipping & Handling: [ ] Yes [ ] No

Badges _____ S&H _____ Total _____

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NorthWest Digital	http://nwdigitalradio.com/
Expert Linears	https://www.expertlinears.com/
TN07 Engineering	https://tn07.com/
Times Microwave	https://www.timesmicrowave.com/
ABR Industries LLC	https://abrind.com/
Ham Radio Outlet	https://www.hamradio.com/
Mastrant	https://www.mastrant.com/
Heil Sound	https://heilsound.com/
Giga Parts	https://www.gigaparts.com/
M2 Antenna	https://www.m2inc.com/
W2IHY Technologies	https://w2ihy.com/
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Information Station Specialist	https://www.theradiosource.com/
The Wireman Inc	https://thewireman.com/
Ham Radio Deluxe	https://www.hamradiodeluxe.com/
Aluma Tower	https://www.alumatower.com/
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Comet Antenna	https://cometantenna.com/
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Company	Website
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RadioWavz	https://www.radiowavz.com/
N3ZN Keys	https://www.n3znkeys.com/
West Mountain Radio	http://www.westmountainradio.com/
SteppIR	https://www.steppir.com/
JT Communications	https://www.jtcomms.com/
Yaesu USA	https://www.yaesu.com/
Elecraft	https://elecraft.com/
Alpha Antenna	https://alphaantenna.com/
R&L Electronics	http://www.randl.com/
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M&P Coax	https://messi.it/en
CushCraft Antennas	https://mfjenterprises.com/collections/cushcraft
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Green Heron Engineering	https://www.greenheronengineering.com/
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