

# The “Official Organ”

The monthly newsletter of the Johnston Amateur Radio Society, Inc.

April 2020 Edition

First, I apologize for not getting this out on time. With all the restrictions and doing the same thing day in and day out, it slipped up on me before I knew what day it was.

## In this month's “Official Organ”

Life on the Farm

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## Life on the Farm:

Well, to say that has been exciting would be a large stretch of the imagination. We, here on the farm, hope everybody is safe and healthy and following the “social distancing”. Living on a farm means that I don't make daily trips to town. Heck, I have been heard to go up to two

weeks between trips to town. But that I something that I choose. With all the restrictions and closures, it is something now that we have to do for our safety. When we do go to town, we go in to a store, get what we need and get out. No more browsing because the longer you are in an establishment, the more you are exposing yourself to the possibility of getting this virus.

On a positive note, more people are surviving the Corona Virus than are dying. That is because people are avoiding crowds and going out in public.

That is, it from Life on the Farm. Mike(KD4MC) aka C3PO, Velda(K4VJC), Remington(Hairy Hound), Tabitha(Krazy Kat), Midnight(Tom Kitty) and Fluff(Little Ball of Fur). And soon to be Uncle Jimmy and his dog Ruger.

Everybody please stay safe and stay healthy.

## Secretary's Report:

### Minutes from JARS Monthly Meeting

April 16, 2020

Meeting was called to order on the 147.270 repeater at 8:30 pm by President, Scott Wilkinson, KJ4TUC.

Secretary Report: The minutes from last month were sent out today.

Until the restrictions have been lifted, due to the Corona Virus, we will continue to have our

monthly meetings here on the 147.270 repeater. Scott will also, keep us up to date through emails, Facebook and the nightly nets.

About a week ago Scott sent out an email the Board of Directors, and the Constitution and Bylaws committee with some proposed changes that have been discussed over the past several months. So far, he has not received any negative feedback. If you have any comments or questions, contact Scott either by email or phone. If there are no suggested changes, the proposed draft will be sent out to the general membership before our next regular, in person meeting.

Update on CERT, JARSCOM and JARSFest: Since everything has been shut down over the Corona Virus, that does not mean that I have not been writing things down and planning for the future. As far as CERT goes, I am still planning on having someone teach us the proper way for traffic control, as that is one of the things that we may be called upon to do. I am also still planning on getting us into the Johnston Community College Fire training grounds to practice our search and rescue skills.

JARSCOM: I will be bringing JARSCOM to my house to work on and for security reasons.

Public Information and media: I am still looking for input from the members for the newsletter. I apologize for not sending the newsletter out prior to this meeting. With doing the same thing day in and day out, I just forgot as the days are now all running together. I will be sending out a newsletter this weekend, if anybody has anything they want included, send to me by tomorrow evening.

Field Day: Field Day is still dependent on the restrictions. If it is lifted in time, we will still have it. Van has a place in mind and Mike, KD4MC, has said that we could use his place.

JARS Web: Richard stated that he expects to have it up in two weeks. He ran into a few snags on the membership only page and he wants to have it 100% before releasing it.

JARSFest: I am working on the final version of the floor plan. This year I am going to mix it up a little bit. We usually have all our vendors at one end of the building and our independents on the other end. I have had several people tell me that by the time the attendees get past the vendors, they either have already spent their money or found what they are looking for. This year I am planning on putting a row of independent vendors between our regular vendors. Also, on the outside, there are going to be some changes made. The tailgating area will be roped off. It will cost \$10.00 to go past the rope whether you want to tail gate or just to park. Paul and I discussed that it was time to go up on the prices of our tickets to \$10.00. That is a big mark up, but we need to do something to bring in some money as we did not do that well last year.

LOM award: Harley said that he could not find a suitable candidate for this month, so he will hold it for another month and find a suitable candidate.

The meeting was closed at 8:46 pm.

### **ARRL Section News:**

**As we end the fifth week of the COVID-19 Pandemic Emergency, I want to share several items with you.**

**First, thank you for your good wishes for a successful term as your Section Manager. It is a privilege to be able to reach over 3300 amateur radio operators through email messages such as this one. However, email is a poor substitute for face to**

face interactions. I

am sure that each of us longs for the time when we can resume our club meetings, hamfests and other get-togethers. When that day comes, I will begin visiting with as many clubs as I can.

Here are some items you may find these items to be of interest.

**Coronavirus Impact on North Carolina.**

The State of North Carolina has created a portal where you can get authentic information from various state agencies about the impacts on public education, small business loans, unemployment assistance as well as other pandemic-related programs. The site can be found at <https://www.nc.gov/covid19>

**Information from ARRL.**

a. **On-Line Exam Testing is Under Consideration.**

<http://www.arrl.org/news/remotely-administered-amateur-exam-systems-showing-promise>.

b. **The Volunteer Monitor program is up and running under the leadership of Riley Hollingsworth, K4ZDH.** Reports of malicious interference and repeated rule violations should be referred to Riley at [k4zdh@arrl.net](mailto:k4zdh@arrl.net). <http://www.arrl.org/news/new-volunteer-monitor-program-is-up-and-running>.

c. **There is a new benefit for ARRL members.** Your membership dues now provide access to electronic copies of QEX, NCJ, On the Air and QST at no additional charge. <http://www.arrl.org/news/arrl-announces-new-benefits-for-members>.

**NC Section Information.**

a. **Club Visits.** During the COVID-19 quarantine, I have received invitations to visit with clubs by way of one of the video meeting systems used by various clubs. Send me a message and I will see if we can schedule an electronic visit with your club.

b. **Tarheel Emergency Net.** Interest and participation in the Tarheel Net has increased substantially in the past two weeks. We are working on developing on-the-air training sessions, along with potentially adding digital sessions. Stay tuned.

c. **Volunteers are needed.** There are net control slots on the Tarheel Emergency Net that are open, as well as the position of Tarheel Emergency Net Manager. The net meets nightly at 7:30 pm on 3923 khz. It may be possible to rearrange which nights are assigned to particular net control stations. If you are interested, send me a reply and indicate the night that you would be willing to serve. Likewise, if you are interested in becoming a part of the NC Section leadership team, drop me an email and tell me of your interest.

d. **Coronavirus Operations.** Let me know if your local ARES® group has stood up any special operations in conjunction with local Emergency Management. At the State Emergency Operations Center, ESF-2 has been active for more than five weeks under the leadership of Greg Hauser, W3FIE, Statewide Interoperability

Coordinator. Twenty AUXCOMM operators who are ham radio operators have been engaged as part of the State ESF-2 activation, participating along with Cisco Systems, SHP, EM, Spectrum, Sprint, ATT , Verizon and other Public Safety COMU partners.

#### Other Items.

a. Face Masks. Because she could not obtain any in Pennsylvania, I purchased face masks for my veterinarian daughter at this site. <https://www.smartkidsonly.com/>. The cost is higher than it should be but I could not find another source that delivered in three days via mail.

b. Silent Keys. When an ARRL member passes away in your area, please send me a copy of the obituary and information on the person's call sign. I will contact the appropriate person at ARRL to list the ham in a future issue of QST.

c. Severe Weather Preparedness. NC State University just released a prediction of 22 Named Hurricanes in 2020. Last weekend showed us how quickly heavy rains and tornadoes can cause major problems across the state. This period spent under quarantine is a great opportunity to check out your station and portables. Is there an improvement to your antenna you haven't gotten around to? Severe weather can cause power outages at any time; have you checked your backup generator?

#### Closing Comments.

Remember that the Pandemic is far from

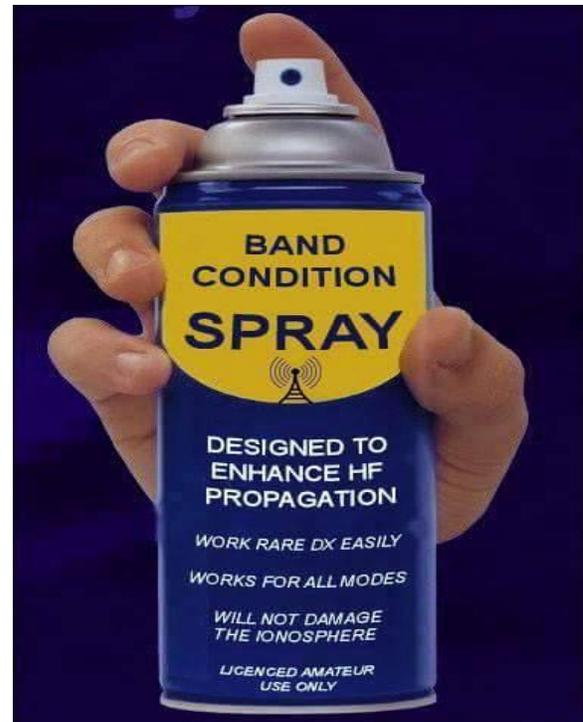
over. Stay home except when necessary. Practice social distancing. Wash your hands often, particularly after touching door handles and hand rails. Stay well so you can take care of your family and be able to help your community when called upon.

Your comments and suggestions are always welcome.

73, Marv Hoffman, WA4NC  
NC Section Manager  
mkhoffman2006@gmail.com  
828 964 6626

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ARRL North Carolina Section  
Section Manager: Marvin K Hoffman, WA4NC

#### Ham Radio Humor:

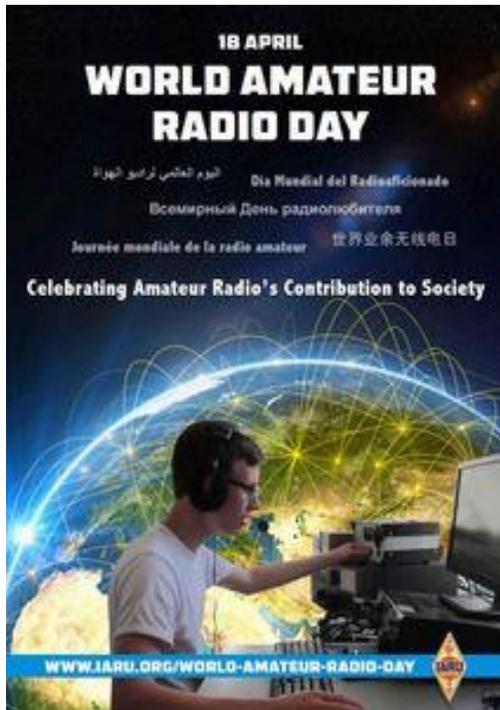


## ARRL News:

World Amateur Radio Day on April 18  
Celebrates 95th Anniversary of the IARU

Saturday, April 18, is World Amateur Radio Day (WARD), this year marking the 95th anniversary of the International Amateur Radio Union ([IARU](#)). Around the world, amateur radio special event stations -- most sponsored by IARU member-societies -- will mark the event on the air, starting on April 18 at 0000 UTC and continuing until April 19 at 0000, honing skills and capabilities while enjoying global friendship

with  
other



amateurs worldwide. The theme for WARD is "Celebrating Amateur Radio's Contribution to Society." IARU President Tim Ellam, VE6SH/G4HUA, notes that the COVID-19 pandemic casts the event in a different light than in years past.

"A few short weeks ago, many of us could not imagine the levels of isolation that we are now dealing with and the sacrifices of many on the front lines of the pandemic," Ellam said. "As we have done in past challenges to our society,

amateur radio will play a key part in keeping people connected and assisting those who need support."

Ellam said he's coming off his own 14-day isolation after returning from overseas. "I am touched by the kindness of strangers who assisted me when I was unable to leave my house," he said. "It strikes me amateur radio operators, who give so much during these times of crisis are not limited to assisting over the air. Amateurs are true volunteers, and I would encourage everyone to assist in the community as they are able to."

On April 18, 1925, the IARU was formed in Paris, with ARRL cofounder Hiram Percy Maxim, 1AW, in attendance. Radio amateurs were the first to discover that shortwave spectrum could support worldwide propagation, and in the rush to use these shorter wavelengths, amateur radio found itself "in grave danger of being pushed aside," as IARU history puts it. Two years later, at the International Radiotelegraph Conference, amateur radio gained allocations still recognized today -- 160, 80, 40, 20, and 10 meters. From an initial 25 countries, the IARU has grown to include 160 member-societies in three regions.

### How to Participate

- Get on the air! WARD events are listed on the [WARD web page](#). To list a World Amateur Radio Day event, [contact](#) IARU Secretary David Sumner, K1ZZ.
- Promote your personal World Amateur Radio Day activity on social media by using the hashtag [#WorldAmateurRadioDay](#) on Twitter and Facebook.
- Create and hold a special net on World Amateur Radio Day to draw attention to the event and allow hams to start talking about our hobby.

- Spread the word. If you're responsible for club publicity, send a press release and do public relations outreach to highlight the event. Use the [poster](#) and [flyer](#) that IARU provides in publicizing the event, amateur radio, and your group or club.

World Amateur Radio Day is not a contest but an opportunity to talk about the value of amateur radio to the public and our fellow amateurs. It is also a great opportunity to talk about your club and amateur radio in local media.

In this time of social isolation, amateur radio continues to remain relevant in bringing people together through radio while providing essential communication in the service of communities.

"My wish for this World Amateur Radio Day is for everyone to stay safe, follow the advice of medical professionals, and use amateur radio and your skills to help us through this crisis," Ellam said.

COVID-19 Guidelines Could Affect Some IARU HF World Championship Participation

The [IARU HF World Championship](#) is just over 2 months away -- July 11 - 12. The International Amateur Radio Union (IARU) says that it's essential to take the global COVID-19 pandemic into account when planning participation, including by IARU member-society Headquarters (HQ) station teams.

Multioperator and IARU member-society HQ station operations must adhere strictly to the regulations and physical-distancing guidelines issued by the responsible health authorities and the World Health Organization in effect at the

time of the event - even if observing those guidelines is not legally required at their locations. This



requirement also applies to single-operator stations, and especially to those hosting guest operators.

"This may reduce participation, but it is vital that the IARU, its member-societies, and individual radio amateurs behave as responsible members of the global community," the IARU said. "Radio amateurs should always look for opportunities to address communications challenges through the application of technology."

The IARU points out that a growing number of stations, including multioperator stations, can be operated remotely, and it encourages their participation in the HF World Championship wherever national regulations permit.

The objective of the IARU HF World Championship is "to support amateur self-training in radiocommunications including improving amateur operating skills, conducting technical investigations, and intercommunicating with other amateurs around the world, especially IARU member-society headquarters stations." The event takes place on 160, 80, 40, 20, 15, and 10 meters.

The special rules governing IARU member-society HQ stations allow multiple sites to be used, again subject to national regulations. HQ stations will still be able to participate, but possibly not at their usual level.

Plans are being developed for IARU Headquarters station NU1AW to be operated entirely remotely. W1AW will also be on the air as an HQ station, although arrangements are still being finalized.



Hamvention QSO Party Set for Saturday, May 16

The [Hamvention QSO Party](#), a sort of virtual Dayton Hamvention®, will take place on the HF bands on May 16, which would be the Saturday of the now-canceled event.

"Let's celebrate the many years we have all had at the Great Gathering we call Hamvention," said an announcement over the signatures of  
Tim



Duffy, K3LR, and Michael Kalter, W8CI. "We also want to remember Ron Moorefield, W8ILC, who never missed a Hamvention and contributed to

our club until his recent death. Let's light up the airwaves with our remembrances of Hamventions of the past! See you on the air!"

The Hamvention QSO Party will be a 12-hour event, from 1200 UTC until 2400 UTC on May 16. Operate CW or SSB on 160, 80, 40, 20, 15, and 10 meters, exchanging signal reports and the first year you attended Hamvention. If you have never attended Hamvention, send "2020."

Designated members of Hamvention's host, the Dayton Amateur Radio Association (DARA), will activate DARA's W8BI. Participants can add 10 points for each band/mode contact with W8BI (12 available).

Post scores (number of contacts) to [3830scores.com](http://3830scores.com) within 5 days of the event. An online certificate will be available to print. No logs will be collected.

[N1MM Logger+](#) has provided a user-defined contest module for the event. More information is on the N1MM Logger+ website.

#### ARRL Podcasts Schedule

The latest episode of the *On the Air* podcast (Episode 4) focuses how to create a family emergency communications plan and includes an interview with Dino Papas, KLOS, about attaching coaxial connectors with crimping tools.



The latest episode of the *Eclectic Tech* podcast (Episode 5) includes an interview with ARRL Laboratory Manager Ed Hare, W1RFI, about

wireless power transfer technology, as well as a discussion of digital meteor scatter and an interview with Michael Lavelle, K6ML, about the new distance record at 122 GHz.



The *On the Air* and *Eclectic Tech* podcasts are sponsored by Icom.

Both podcasts are available on iTunes (iOS) and Stitcher (Android) as well as on Blubrry -- [On the Air](#) | [Eclectic Tech](#).



**No Trade Show? No Problem!**  
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New *TQSL* Version 2.5.2 Provides Better LoTW Rover Support, Other Improvements

The latest version of *TrustedQSL (TQSL)*, version 2.5.2, offers improved Logbook of The World ([LoTW](#)) support for operations from several locations, as well as the ability to detect uploads that contain incorrect location data. The primary new feature in *TQSL* 2.5.2 allows logging programs, in conjunction with *TQSL*, to avoid incorrect contact uploads, while adding mechanisms to allow easy uploading of logs for roving stations. LoTW had required rovers to



identify each location used as a separate location in *TQSL*. The new version of *TQSL* allows these operations to be handled much more smoothly by using information from the station's logging program.

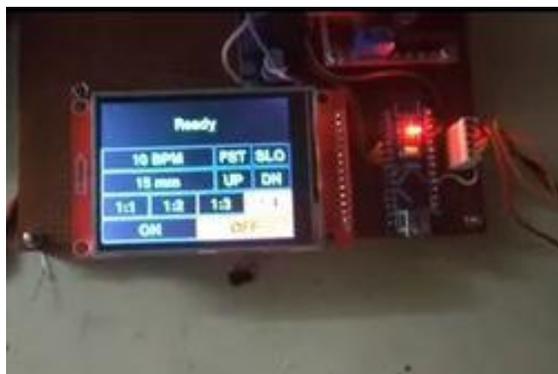
When a log is signed by *TQSL*, the station details -- call sign, DXCC entity, grid square, and other location details provided by the selected station location (and call sign certificate) -- are compared with the details in the log. If the US state and station location in a log do not agree, *TQSL* 2.5.2 will reject the contact, detecting errors in instances when an incorrect station location has been chosen. This feature will necessitate changes in many logging programs, because it requires that the log provide station details previously not used by *TQSL*. Once a logging program supplies these (MY\_STATE, MY\_DXCC, MY\_CQ\_ZONE, etc.), then *TQSL* will validate them against the log. Currently, Cabrillo logs use the CALLSIGN field to verify that the contacts are for the correct call sign.

Optionally, a station performing roaming operations (e.g., from multiple grid squares) can choose to have *TQSL* assume that the log is correct. When call sign or home station are provided with the log, *TQSL* will automatically update the details on the upload. Select "Override Station Location with QTH Details from your Log" on the "Log Handling" preference page to enable this feature.

This release also includes an update to the most recent *TQSL* configuration file. -- *Thanks to Rick Murphy, K1MU*

### Circuit Board for Bare-Bones Ventilator Moves Toward Production with Radio Amateurs' Help

Radio amateurs continue to play key roles in developing the electronic control system for an open-source/architecture, modular, low-cost human patient ventilator. The device itself was designed by researcher Sem Lampotang and his team at University of Florida Health -- the school's academic health center -- using such



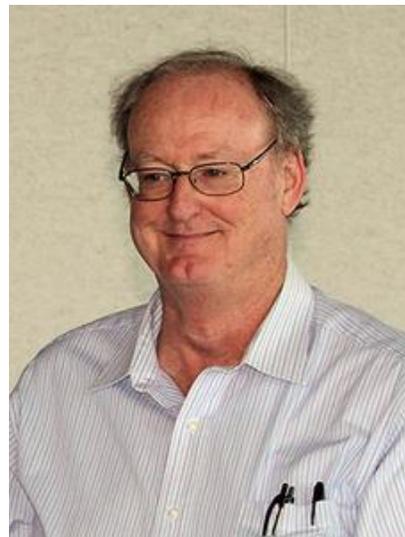
commonly available components as PVC pipe and lawn-sprinkler valves. The idea is to create a bare-bones ventilator that could serve in the event of a ventilator shortage.

"The way I looked at it is, if you're going to run out of ventilators, then we're not even trying to reproduce the sophisticated ventilators out there," Lampotang said. "If we run out, you have to decide who gets one and who doesn't. How do you decide that? The power of our approach is that every well-intentioned volunteer who has access to Home Depot, Ace, Lowe's, or their equivalent worldwide can build one."

His team is working on adding safety features to meet regulatory guidelines, then they will run engineering tests to determine safety, accuracy, and endurance of the machine, which can be built for as little as \$125 to \$250.

Dr. Gordon Gibby, KX4Z -- a retired associate professor of anesthesiology at the University of Florida and an electrical engineer -- is among those involved in the project, developing control-system prototypes. He reports that a trial printed circuit board is being created, populated, and tested prior to large-scale fabrication. "This should lead to a documented open-source design that can be replicated or

improved upon by any interested



**Dr. Gordon Gibby, KX4Z.**  
**[University of Florida photo]**

manufacturer," Gibby said, noting that the board could be built anywhere in the world, based on the Arduino Nano microcontroller.

"A huge amount of work has gone on in the design of the circuit boards," Gibby told ARRL. "We have at least two, maybe three designs, ready for fabrication." Current design specifications and a video of prototypes have been [posted online](#). The Arduino-based control software will set the respiratory rate and other key parameters in treating critically ill coronavirus victims. Other radio amateurs involved in the control system aspect of the project include Jack Purdum, W8TEE, and uBITX transceiver maker Ashhar Farhan, VU2ESE.

Using a [Groups.io](https://www.groups.io) forum, up to 140 volunteers have been studying or working to push the project to completion. Software is being created by multiple volunteers, with amateur radio operators involved in that phase as well.

The ventilator's valves will precisely time the flow of compressed oxygen into a patient with lungs weakened by viral pneumonia in order to extend life and allow time for the body to clear the infection. Read [more](#).



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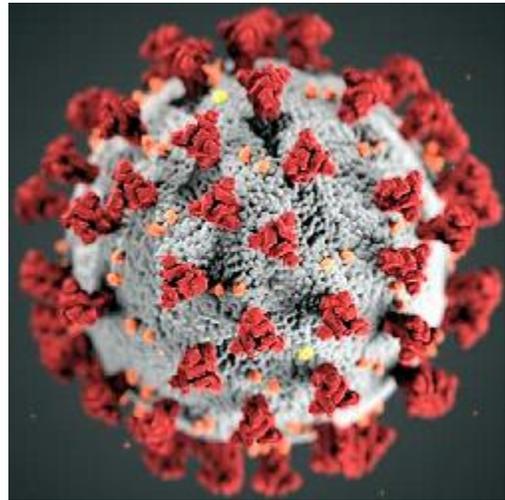
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#### Several Countries Authorize COVID-19 Advisory Suffixes

A growing number of countries have authorized selected radio amateurs or organizations to identify with suffixes that propagate the advice to stay at home during the COVID-19 pandemic. A60STAYHOME/# call signs are on the air from the United Arab Emirates, while the Kuwait Amateur Radio Society's 9K9STAYHOME; TC1STAYHOME, in Turkey, and the Saudi Amateur Radio Society's HZ1STAYHOME are among these stations spreading the word from that part of the world.

In Canada, Michael Shamash, VE2MXU, is using VC2STAYHOM "to raise awareness for social distancing during the COVID-19 pandemic." Canada limits call sign suffixes to seven characters. On the air from Indonesia is



8A1HOME; Indonesia limits suffixes to four characters. Australia has permitted the Radio Amateur Society of Australia ([RASA](#)) to use the special call sign VI2020STAYHOME, which, at 14 characters, may set a record for world's longest call sign.

SRAL, Finland's IARU member-society, is sponsoring the Global Amateur Radio Network special event, with "messenger stations" on the air with STAYHOME suffixes, such as OH5STAYHOME. The event runs through July 8. The Global Messenger Award and the Stay Home Award are available, with credit for working "STAY HOME" stations in other countries and at least five of the Finnish stations.

Also, in Finland, the Amateur Radio Club of Lahti, OH3AC, has been authorized to use OH0PYSYKOTONA and nine others in that series with a different number in the prefix. "Pysy kotona" is Finnish for "stay home." Contacts will be confirmed via LoTW with paper cards via OH3AC. An award is available for working all 10 in the series.

CR2STAYHOME will be on the air from Sao Miguel, one of the nine islands in the Azores, while operators in Bosnia and Herzegovina will transmit the alert as E7STAYHOME (QSL via E77E and E73Y or LoTW). R3STAYHOME is

another special call sign (QSL via the bureau to R3KEE). Also, listen for 5B4STAYHOME from Cyprus, operated by Norman Banks, 5B4AIE (no QSLs).

Finland's SRAL has suggested the new Q signal QSH for "stay happy and healthy," while N3ADF is encouraging the use of QWH for "wash hands."

FCC Part 97 Amateur Radio Service rules do not provide for amateur call sign suffixes longer than three characters, but a potential workaround exists. As §97.119(c) of the FCC's Amateur Radio Service rules states: "One or more indicators may be included with the call sign. Each indicator must be separated from the call sign by the slant mark (/) or by any suitable word that denotes the slant mark. If an indicator is self-assigned, it must be included before, after, or both before and after, the call sign. No self-assigned indicator may conflict with any other indicator specified by the FCC Rules or with any prefix assigned to another country."

While ARRL has no plans to sponsor or support a stay home related event, US radio amateurs may do so as a one-off stay-at-home event

**The annual Armed Forces Day Crossband Test has been postponed, due to the ongoing COVID-19 response and mitigation actions.** The 2020 Armed Forces Day (AFD) Crossband Test was scheduled to be held on Saturday, May 9. Because it's uncertain just when stay-at-home orders will be lifted across the US, AFD planners chose to postpone this year's event, because the government stations that typically support this event may not be available. Armed Forces Day Crossband Test planners are considering scheduling a November event in honor of Veteran's Day, depending on COVID-19 mitigation actions. During the AFD Crossband Test, military stations in various locations transmit on selected military frequencies and

announce the specific ham frequencies they are monitoring to work radio amateurs. -- *Thanks to US Army MARS Program Chief Paul English, WD8DBY*



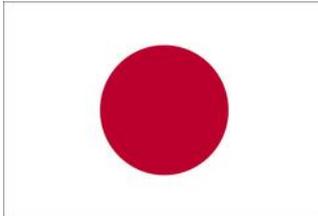
**Past ARRL Atlantic Division Director Bernard E. "Bernie" Fuller, N3EFN, of Saegertown, Pennsylvania, died on April 2.** He was 86. Fuller moved into the Atlantic Division Director's position in 2000, after the ARRL

Board elected then-Atlantic Division Director Kay Craigie, WT3P (now N3KN), as a Vice President. He served as an ARRL Director until 2006. A US Army veteran, Fuller retired with the rank of Lieutenant Colonel after 22 years. He was a veteran of the Korean and Vietnam wars. Following his retirement, he taught languages at the former Alliance College. Fuller was a member of the QRP Amateur Radio Club International and the Eastern Pennsylvania QRP Club. He belonged to the Military Officers Association and was a certified National Rifle Association instructor. A member of the Pennsylvania Outdoor Writers Association, Fuller authored e-books on RVing and hunting and was the publisher of the *Outdoors32News* newsletter.

**Past ARRL Treasurer James E. "Jim" McCobb, Jr., K1LU (ex-K1LLU, W1LLU), died on April 1.** An ARRL Life Member, he was 77. McCobb, of West Newbury, Massachusetts, served as ARRL Treasurer, a volunteer post, for nearly 32 years, from



1980 until 2012, when he was succeeded by current ARRL Treasurer Rick Niswander, K7GM. An active DXer and contester, McCobb was active from Belize, where he held the call sign V31JR. McCobb was a US Air Force veteran and spent most of his professional career as a banker. First licensed at age 16, McCobb was very active on HF -- especially on 40, 20, and 17 meters, primarily on SSB, although he operated CW during contests. He also enjoyed listening to amateur and shortwave bands, DXing, ragchewing, contesting, and "doing just about any kind of antenna work," he said in his **QRZ.com** profile. His other hobbies included Alpine skiing, listening to music, and collecting stereo equipment from the mid-to-late 1970s.



**Japan is set to expand access to 160 meters.** Yoshi Shoji, JG7AMD, reports that Japan's Ministry of Internal

Affairs and Communications that the expansion will permit SSB on that band. The current 160-meter band in Japan consists of 1810 - 1825 kHz (CW) plus 1907.5 - 1912.5 for CW and data. Japan will allocate 1800 - 1810 kHz and 1825 - 1875 kHz for all amateur radio modes. An effective date has not yet been announced.

#### **Johnston County ARRL VE Team:**

Due to the social distancing restrictions, The Johnston County ARRL VE Team has suspended testing until further notice. This is for the safety of our examiners as well as those wishing to test.

For more information, contact Mike Callam, KD4MC, either at 919-628-9927 or [mcallam@centurylink.net](mailto:mcallam@centurylink.net)

#### **JARS Officers:**

President- Scott Wilkinson, KJ4TUC

V.P.- Billy Newton, KJ4ZKG

Secretary- Velda Callam, K4VJC

Treasurer- Paul Dunn, KD4BJC

Membership- Dianne Young, KE4VNX

Net Whip- Stephen Fowler, KJ4QNW

Media/Newsletter/PIO- Mike Callam, KD4MC

Parliamentarian-Mark Gibson, N4MQU

Members at Large- Mike Callam, KD4MC & Bill Blomgren, KK4QDZ

Ham of the Year: Mike Callam  
KD4MC



That does it for this month's "Official Organ"

Stay safe and stay healthy.

73 de KD4MC