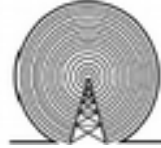


# The Ham Arundel News



Providing Fellowship and Community Service through Amateur Radio Since 1951

June 2019

40<sup>th</sup> Year of Publication



Keith Miller, AE3D

## The Prez Sez

Its June already! And June means Field Day! Every year it's a new challenge to get everything ready for that very special one day ham radio event. As usual a few of our key players will be absent. This year that list includes Brian Mary, John Williams, and Milford Craig. Think about it. Last year John was our high point man, Brian ran digital

which outscored phone where Milford scored big. These three account for the majority of our 2018 points. So the rest of us have to step up.

However, I have faith in the superb leadership David Rawley N3AT is giving us as Field Day Chairman. We can do this. Plus I firmly believe in the principle that many hands make for light work. So I am asking for your many hands. I hope you will all be there.

For those who haven't been with us for Field Day before, it's a combination ham radio, picnic, contest, demonstration, public relations, stay up half the night and party with your friends kind of event.

For those of us without day jobs, and those who can play hooky, the event starts Friday morning around 8:30am. We open up Storage 2 and out comes 3 shelters and an Easy-Up.

While one group puts those together, a second group headed by Tim Nagel KB3YQK will haul out two 40 foot masts and erect them at the prescribed spots. How Tim gets them up so straight is a mystery for sure. Our two 40 meter delta loops will go up on those masts later in the day. The shelters will go into place, and Jim Goldsberry KB3NQY will use his garden tractor and trailer to move table, chairs and other equipment into place. We go home early and come back Saturday 8:30am.

Daniel Kim K3KTW and Oliver Minall, NE3Q will relocate the rigs to the shelters, add all those cables, microphones, keys, SignalLinks and such, plus hook up the grounding system.

At the same time Jamisson Phipps W3KNH will put the generator in place, and get it running to provide power for testing by 10am.

The delta loop feedlines will be put in place through the supports by David Etherton AC3ER and then attached to the antennas. At the shelter end antenna tuners will be attached. A quick tune up and test should follow. Meanwhile an antenna crew will be assembling

two tri-band beams, and hauling them into place on two 40 foot rocket launchers. A pulley at the top of each rocket launcher will be used to hoist two 80 meter inverted-V antennas into place, and feed lines from both will be run into the shelters.

The logging system, as pre-configured days earlier by Scott Rasmus KC3BFW will be put into place, with cardboard boxes around the monitors to deaden glare and make reading easier.

A quick test of all radios and antennas, and its into the club house for lunch as prepared by Eric Berman KC3GDV and Mark Bova W2PAW. These two can't be thanked enough. They will provide two lunches, one featuring barbecue, a first class breakfast, pizza for dinner, and coffee, cold soda and water, plus other goodies throughout the night. And I guess I should mention Richard Grace KB3ZYO and his infamous home made potato chips, which tend to show up around 2am out by the shelters. They are soooooo good. When he's not cooking chips, Richard is also in charge of a solar operated KX3 station, which will make the five contacts required for bonus points.

During the contest period 2:00pm Saturday till 2:00pm Sunday Gary McBrien K3EEZ will attempt to get us Satellite Contact bonus points. Jim Wallace N3ADF will run UHF/VHF and see to it that the bonus Field Day messages are sent to a number of individuals including our Section Manager Marty Pittinger KB3MXM. Chuck Tanner K3ACT will head up our Digital Operations, making contacts on some combination on FT4, PSK31 and RTTY. If he's really nice he'll let me make some CW contacts too.

And then there are the unsung heroes of Field Day. John Bowes KB3YLY will not only be making sure everything is done safely, he will be documenting his efforts, getting us even more bonus points. Ed Santilli KB3YMU, who has already secured us points by inviting public officials to visit our Field Day site, will be on hand greeting those guests, and taking pictures of everything Field Day for us, so we can fill up a web site page with Field Day 2019 for us to enjoy the rest of the year.

Inside our easy-up, we will have an information table full of materials for guests to take home. Again, we get bonus points. But the greeters don't get off there, they will be taking visitors to the various operating positions, educating them about what is involved in Field Day, and gently arm twisting till our visitors make a few contacts themselves. And yes, if those visitors are teens or younger, we could get even more bonus points. Finally the most unsung of the unsung, Kelly Fast, N3XUJ will be heading up this year's tear down crew. It's a newly created

position meant to insure stuff is stored right the first time. She already has a number of volunteers to help her including Huey Treadwell AB3GS, but she could always use more.

We still have a few weeks to go, equipment to test, software to configure, and plans to make. We have the people in place to get things ready. What we don't have are the people we need to make it all happen. So please, include Field Day at the DFRC in your plans for June 21-23. We could really use your help. And I bet you could use a weekend of ham radio event, picnic, contest, demonstration, public relations, stay up half the night and party with your friends.

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

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.

Official FD 2019 Gear!

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.

Encourage club members, family, friends, and prospective hams to take part using ARRL Field Day with recruitment [posters](#) and attractive "Get on the Air" (GOTA)

[pins](#) for those newcomers.

ARRL's new [Radio Communications](#) vinyl banner is perfect for showing off Amateur Radio at ARRL Field Day, any public exhibit or recruitment display. It's good for indoor and outdoor use and reusable for years to come.

Clubs are encouraged to order early. Place a group order and pay just \$12.50 shipping for all orders over \$50 (while supplies last). Get your 2019 ARRL Field Day supplies from the ARRL [online store](#) or by calling (888) 277-5289 in the US, Monday through Friday, from 8 AM to 5 PM Eastern Time. Outside the US, call (860) 594-0355.

The complete 2019 [ARRL Field Day](#) packet is online. ARRL encourages participants to register their Field Day operations using the [FD Site Locator](#).

Used with permission The ARRL Letter, May 9 2019

## Hams Help Trace "Mystery" Signal Disrupting Keyless Entry Devices in Ohio

A [recent article](#) in *The New York Times* reported that many garage door openers and keyless vehicle entry fobs in an Ohio town near Cleveland mysteriously stopped working. While the article invoked *The X-Files* and hinted initially that a NASA research center might be involved, the cause was not so much mystifying as arcane.

"Garage door repair people, local ham radio enthusiasts, and other volunteer investigators descended on the neighborhood with various meters," the May 4 article by Heather Murphy recounted. "Everyone agreed that something powerful was interfering with the radio frequency that many fobs rely on, but no one could identify the source."



More than a dozen residents reported intermittent issues getting their key fobs and garage door openers to operate, and most lived within a few blocks of each other. At one point, the local power utility started shutting off power to areas where the strongest RF signal was detected, but the signal persisted. Dan Dalessandro, WB8ZQH, a TV repairer, was among several hams who investigated. He initially picked up "little blips" on a signal detector, but finally, on one block and at a particular house, the signal was quite loud.

"The source of the problem was a homebrew, battery-operated device designed by a local resident to alert him if someone was upstairs when he was working in his basement," the *Times* reported. "It did so by turning off a light." The inventor, not identified for privacy concerns, had no malicious intent nor any no inkling that his device was wreaking havoc on the neighborhood until a North Olmstead City Council member and a volunteer knocked on his door. The device operated on 315 MHz, the frequency many keyless-entry devices use under FCC Part 15 rules. The device's battery was removed, the signal stopped, and all who were involved breathed sighs of relief.

Used with permission The ARRL Letter, May 9, 2019

## AARC STAFF – 2019 Officers

<b>President</b>	Keith Miller / AE3D president@w3vpr.org	240 758 0423
<b>Vice President</b>	Tim Nagel / KB3YQK vice.president@w3vpr.org	
<b>Secretary</b>	Steve Grimaud / W3SWG secretary@w3vpr.org	
<b>Treasurer</b>	Bill Mooney / KA3UQQ treasurer@w3vpr.org	
<b>Director A</b>	Eric Berman / KC3GDV eric.board19@w3vpr.org	
<b>Director B</b>	Larry Booth / AA3AU larry.board19@w3vpr.org	
<b>Director C</b>	Bernie Coletta / NK3PS bernie.board19@w3vpr.org	

### Support Staff

<b>Membership Secretary</b>	Jim Wolfe / NA3C membership.secretary@w3vpr.org	
<b>Information Officer</b>	Ed Santilli / KB3YMU info.officer@w3vpr.org	
<b>Safety</b>	John Bowes / KB3YLY safety@w3vpr.org	443 760 1666
<b>Security</b>	Tom Provenza / N3HLD security@w3vpr.org	

### Representatives

<b>ARES/RACES</b>	John Bowes / KB3YLY ares.races@w3vpr.org	
<b>DFRC Rep</b>	Milford Craig / N3WYG dfrc.rep@w3vpr.org	301 218 8867
<b>FAR</b>	Ed Brown / AA3EB far.rep@w3vpr.org	301 856 3317
<b>Fox Hunt</b>	Bruce Strackbein / WR3Q fox.hunt@w3vpr.org	
<b>Joint 440 Comm</b>	Gordon Davids / WJ3K joint440@w3vpr.org	410 647 2956
<b>MD Slow Net</b>	Bruce Stewart / W8CPG chickenfarm9@gmail.com	
<b>MDC Section Manager</b>	Marty Pittinger / KB3MXM arri.sec.mgr@w3vpr.org	
<b>Public Relations</b>	Ed Santilli / KB3YMU pr@w3vpr.org	301 261 7561
<b>Resident Agent</b>	Justin Leishman / KC3BJT ra@w3vpr.org	
<b>Trustee</b>	Dick Mayo / WW3R trustee@w3vpr.org	

### Committees

<b>Club Sale &amp; Auction</b>	Ike Lawton / W3IKE club.sale@w3vpr.org	
<b>Digital Networking</b>	Scott Rasmus / KC3BFW networking@w3vpr.org	240 758 0463
<b>Facilities</b>	Eric Berman / KC3GDV facilities@w3vpr.org	
<b>Field Day</b>	(TBD) field.day@w3vpr.org	
<b>Station Manager</b>	Rick Steer / AB3XJ ham.shack.coordinator@w3vpr.org	

<b>Ham Shack Renovation</b>	Jamison Phipps / W3KNH ham.shack.renovation@w3vpr.org	
<b>Holly Net</b>	Jim Wallace / N3ADF holly.net@w3vpr.org	
<b>HSMM-MESH</b>	(TBD) hsmm.mesh@w3vpr.org	
<b>Kit building &amp; Repair</b>	'Raven' Weiland / KB3MUV kit@w3vpr.org	203 948 5369
<b>MDC QSO Party</b>	Jim Wallace / N3ADF mdcqsop@w3vpr.org	301 538 6233
<b>Newsletter</b>	Milford Craig / N3WYG newsletter@w3vpr.org	301 218 8867
<b>Packet Radio</b>	Jonathon Grafe / AE2JG packet@w3vpr.org	240 426 2664
<b>Program</b>	Tim Nagel / KB3YQK vice.president@w3vpr.org	
<b>Public Service</b>	Erick Graves / WA3G public.service@w3vpr.org	410 987 7670
<b>Repeater Ops</b>	John Williams / K8JW repeaters@w3vpr.org	410 647 7406
<b>Rules</b>	Chuch Tanner / K3ACT rules@w3vpr.org	301 464 2667
<b>Service Hours</b>	Jim Wallace / N3ADF service.hours@w3vpr.org	301 538 6233
<b>Tower</b>	(TBD) tower@w3vpr.org	
<b>Training</b>	Keith Miller / AE3D training@w3vpr.org	240 758 0423
<b>VE Team</b>	David Rawley / AE5Z testing@w3vpr.org	
<b>Webmaster</b>	Mark Bova / W2PAW webmaster@w3vpr.org	240 274 6294
<b>Wed. Nite Net</b>	Jamison Phipps / W3KNH wednesday.night.net@w3vpr.org	
<b>Winter Field Day</b>	Rick Steer / AB3XJ winter.field.day@w3vpr.org	

### Groups

<b>Board of Directors</b>	board19@w3vpr.org
<b>Kit Building Committee</b>	kitbuilding@w3vpr.org
<b>Rules Committee</b>	<a href="http://rules.com@w3vpr.org">rules.com@w3vpr.org</a>

\*\*\*\*\*



## VE Testing Schedule

1st **Monday** of each month – Noon – AARC –  
Rick Steer / AB3XJ [testing@w3vpr.org](mailto:testing@w3vpr.org)

3rd **Saturday** of each month –

**9AM** – Laurel ARC – John Creel, 301-572-5124

4th **Tuesday** of each month – **6PM** – MMARC –

Mike Montrose / KA2JAI 443-310-4907 web site is

[tinyurl.com/marylandmobileers](http://tinyurl.com/marylandmobileers)

#### To all exams bring:

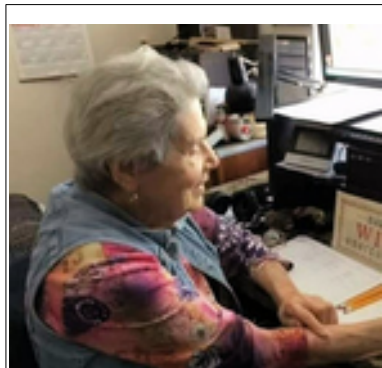
- Picture ID
- Social Security Number or FCC Registration Number (FRN)
- **ORIGINAL** and a **COPY** of current FCC amateur radio license
- **ORIGINAL** and a **COPY** of all element credits (eg., FCC letters, old licenses or unexpired Certificates of Successful Completion of Examination-CSCE)





## Former ARRL Headquarters Staffer Ellen White, W1YL, is Krenkel Medalist

[UPDATED 2019-05-07 @ 2318 UTC] ARRL Headquarters staff alumna and Life Member Ellen White, W1YL, is the sole US radio amateur to in 2019 to be awarded the Russian [E.T. Krenkel Medal](#), a prestigious award granted to individuals and organizations for outstanding global contributions to Amateur Radio. In 2018, QST was awarded a Krenkel Medal.



Ellen White, W1YL [Photo courtesy of MABUHAY DXstitch]

First licensed in 1946, White had already learned Morse code in high school, and even today, she only rarely operates any other mode. She served for more than 25 years (1952 – 1978) on the Headquarters staff, at one point heading up ARRL contesting activities. She retired as Deputy Communications Manager and became

QST "How's DX?" editor. On her own time, she recorded QST on tape for the vision impaired through the US Library of Congress talking book program.

Her husband Bob White, W1CW (SK), was ARRL DXCC manager. Their son Jim White, K4OJ (SK), also once served on the ARRL HQ staff and was president of the Florida Contest Group, which now holds his call sign.

For several years now, Ellen White has been operating via the W7RN remote contest station in Nevada to stay active on CW as W1YL/7, usually on 40 meters at around 1000 UTC. She is on the roster of the A-1 Operators Club and has served as a West Central Florida Assistant Section Manager. The article "[A Conversation with Ellen White, W1YL](#)," by Rosalie White, K1STO (no relation), appeared in the May/June 2015 edition of *NCJ*.

The award's namesake, Ernst Teodorovich Krenkel, was a radio amateur who, over the years, used the call signs RAEM, U3AA, and UA3AA. Born in Poland, Krenkel was an Arctic explorer who took part in the first Soviet "drifting station," North Pole-1. He was made a "Hero of the Soviet Union" in 1938 for his exploits.

Krenkel's son, T.E. Krenkel, is among the four signatories to the award certificate. The younger Krenkel, a professor at the Moscow Technical College of Telecommunication and Informatics, said his father was an avid radio amateur who served as the first chairman of the Central Radio Club in the USSR.

Krenkel's image appears on postage stamps from the USSR and Russia, and he authored a biography entitled *My Callsign is RAEM*. In the era when all radio amateurs received QSL cards via Box 88, Moscow, Krenkel was allowed to have his own postal address on his QSLs and was issued the non-standard RAEM call sign. —

*Thanks to George Wagner, K5KG*

Used with permission The ARRL Letter, May 9, 2019

AA

## FCC Chairman By Default to Combat Robocalls

FCC Chair Ajit Pai is proposing action to help consumers block unwanted robocalls. He has circulated a declaratory ruling that, if adopted, would allow phone companies to block unwanted calls to their customers by default. In addition, companies could allow consumers to block calls not on their own contacts lists. A draft *Further Notice of Proposed Rulemaking* would propose a safe harbor for providers that implement network-wide blocking of calls that fail caller authentication under the SHAKEN/STIR framework, once it is implemented.



FCC Chair Ajit Pai.

"Allowing call blocking by default could be a big benefit for consumers who are sick and tired of robocalls," Pai said. "By making it clear that such call blocking is allowed, the FCC will give voice service providers the legal certainty they need to block unwanted calls

from the outset." Pai encouraged carriers to start providing these services free of charge and by default to current and future customers.

According to an FCC news release, many voice providers have held off developing and deploying call-blocking tools by default because of uncertainty about whether these tools are legal. "Allowing default call blocking by voice providers could significantly increase development and consumer adoption of such tools," the FCC said. "This blocking could be based on analytics and consumer 'white lists.' Similar analytics are currently used by third-party developers in call-blocking apps." The FCC said consumer white lists could be based on a customer's own contacts list.

Pai also proposed seeking public comment on how [caller ID authentication](#) standards, known as SHAKEN/STIR, can inform call blocking. He has demanded that carriers adopt these standards to combat malicious spoofing. This system of signing calls as legitimate as they pass through the phone networks may be useful for call-blocking tools, the FCC said.

The May 15 action would mark the first by the FCC to directly combat robocalls that spoof legitimate, in-service numbers. This follows adoption of [new rules](#) in 2017, which allowed blocking of calls before they reach consumers when they are highly likely to be illegitimate. "These calls might appear to come from nonexistent area codes or from numbers on the Do Not Originate list that do not make outbound calls -- like the FCC's own consumer help line, which was added to the list following scam calls that spoofed the agency's 888-CALL-FCC number," the Commission said.

The FCC will consider these measures at its June 6 open meeting.

Used with permission The ARRL Letter for May 16, 2019







## AARC Repeaters and Nets

### 2 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	147.105+	107.2	AARC Repeater with morning traffic net.
Glen Burnie	147.075+	107.2	AARC repeater Located in Northern AA County.
BrandyWine	147.150+	114.8	SMARC Repeater.
Prince Frederick	145.350-	156.7	SPARC/CARC Repeater.
Laurel	147.225+	156.7	Laurel ARC Repeater.
Millersville	146.805-	107.2	Repeater.

### 1.25 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	223.880-	107.2	AARC 1.25M repeater *check to see if tied into 7.105...
Millersville	224.560-	107.2	AARC repeater Located in Northern AA County.

### 70cm Repeaters

Location	Frequency	Tone	Notes
Davidsonville	444.400+	107.2	AARC 70 cm Repeater.
Annapolis	442.300+	107.2	AARC 70 cm repeater
Laurel	442.500+	156.7	Laurel ARC 70 cm Repeater.
Millersville	449.125-	107.2	<u>Maryland</u> Mobileers Repeater.
Upper Marlboro	443.600+	103.5	SMARC 70 cm Repeater.

### Packet Stations

Location	Frequency	Call	Notes
Davidsonville	145.050	W3VPR	AARC Club packet node running JNOS
Davidsonville	145.010	W3VPR-5	Digipeter Relay to EOC Winlink
Millersville	145.010	W3AAC-5	Digipeter Relay to EOC Winlink
Glen Burnie	145.010	W3AAC-10	EOC Winlink system and digipeter

### Amateur Radio NETS

Name	Frequency (in Mhz)	Day	Time
The "Holly Net"	147.105+ PL 107.2	Weekdays	0700
AARC Talk Net	147.105+ PL 107.2	Wednesday	2000
AA County ARES Net	146.805- PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670-	Daily	1830
Boating Net	146.805- PL 107.2	Wednesday	1930
Maryland Emergency Phone Net	3.920	Daily	1800
Maryland-DC-Delaware Traffic Net	3.643	Daily	1900 and 2200
<u>Maryland Slow Net</u>	3.563	Daily	1930
React Net	442.300+ PL 107.2	1st Sunday	1930

*We use **simplex 146.430 Mhz** frequently enough that you should probably program that into your HT or mobile. This is the go-to frequency for many 5K race/walk volunteering efforts, local communication, Field Day setup, and the like when we're not using a repeater.*



# CONGRATULATIONS

April 13, 2019

Tucker, Michele	K8SWE	Upgrade to Amateur Extra
Nelson, Phillip L	KC3NGQ	New General
DeMatteo, Scott S	KC3NGR	New General
Peers, Peter S	KC3NGS	New Technician
Shepherd, Rebecca S	KC3NGT	New Technician
Lumb, Janice L	KC3NGU	New Technician
Goswami, Debdipta	AC3EH	New Amateur Extra
Taylor, Scott A	KC3NGV	New Technician
Taylor, Samantha G	KC3NGW	New Technician
IORDANIDES, PAUL D	N6QHG	Upgrade to General
Nealey, Alexander J	KC3NGX	New Technician
Heintz, Stephen B	KG6MNT	Upgrade to Amateur Extra
Stansberry, Scott D	KC3HGQ	Upgrade to Amateur Extra
Kelly, Melissa C	KC3NGY	New Technician
Rogers, John D	KC3NGZ	New General
Renard, Jason T	KC3NHA	New Technician
Magowitz, Niles P	KC3NHB	New Technician
Cauffman, Braeden T	KC3NHC	New Technician
McAllister, Paul A	KC3NHD	New Technician

May 11, 2019

Reid Jr, Edwin G	KB3TBD	Upgrade to General
Traver, Zachary R	KC3NKV	New Technician

*Good job! well done.! Welcome to the Amateur Radio.*

*Please join us in all the activities of the Anne Arundel Radio Club.*

*President and board of Directors*

*Anne Arundel Radio Club*

*June 2019*

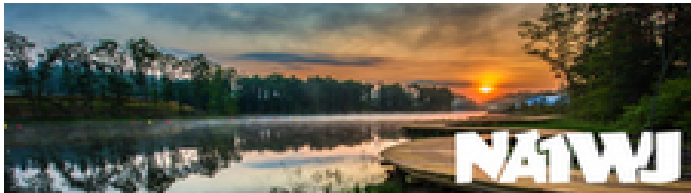
## World Scout Jamboree Gearing Up for Significant Amateur Radio Presence

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.

"We also expect to launch one or two balloons with Amateur Radio payloads and track them as they cross the Atlantic," the vision document continues.



Organizers are encouraging radio amateurs around the globe to get on the air during the World Jamboree to help NA1WJ demonstrate Amateur Radio for Jamboree visitors.

The 2019 World Scout Jamboree operation at the Summit Bechtel Scout Reserve will take advantage of lessons learned by the K2BSA Amateur Radio operation during the 2013 and 2017 USA National Jamborees. It will also take advantage of the existing infrastructure, which includes three VHF/UHF repeaters installed by Icom America, as well as the utility poles for installing antennas. K2BSA ham gear stored in West Virginia includes antennas, rotators, and cables.

Evening operation from NA1WJ will involve at least two operators using the buddy system. VHF/UHF repeaters will offer full coverage of the Jamboree area via handheld transceivers, facilitating networking as well as emergency communication. The exhibit will include an Amateur Radio station with the special event call sign W8J.

The demonstration station will include multiple operating positions offering a variety of modes. These include six stations with 100 W HF transceivers, computer logging software, and large screen computer displays; two VHF/UHF stations for demonstrations and repeater monitoring, and two satellite communication systems. The antenna farm will include two HF directional antennas, three HF dipoles, three HF vertical antennas, VHF/UHF verticals and satellite antennas with azimuth and elevation control, a trailer-based crank-up tower, a five-band Yagi, a 40-meter rotatable dipole, and a 6-meter Yagi.

Each station will be able to accommodate four participants at a time, plus one control operator. The goal is to give each participant up to about 10 minutes of operating time.

The K2BSA Amateur Radio Association will host a "Radio Scouting" booth at [Dayton Hamvention](#)® (Booth 2205 in Building 2).

Used with permission The ARRL Letter, May 2 2019

AA

## 44th Marine Corps Marathon - Call to Volunteer!

Volunteers share a special connection with the United States Marine Corps. Like those in uniform, Marine Corps Marathon volunteers are always the first to fight, arriving in the early morning hours and staying until well after the final participant has finished. MCM Volunteers are a willing, capable and agile force ready to tackle any number of critical responsibilities to support the overall mission of promoting physical fitness.

Take the bold step forward and join the Marine Corps Marathon Organization by volunteering for the **44<sup>th</sup> Marine Corps Marathon** to be held on **October 25<sup>th</sup>-27<sup>th</sup>, 2019** in Arlington, VA. Volunteer registration begins **today!** As a well-trained volunteer or someone who seems uniquely equipped to accomplish the mission, you are being issued access to this information in advance of others, so you may claim your preferred duty station.

Register to volunteer for the 44<sup>th</sup> Marine Corps Marathon at

<http://xactllc.volunteerlocal.com/volunteer/?id=38574>

Additional event details including start times, parking locations, and course maps are featured on <http://www.marinemarathon.com/events/marathon>. Re-up for other critical volunteer missions or learn more about the 2019 schedule by visiting the MCM website at [www.marinemarathon.com](http://www.marinemarathon.com)

If you would like to create a group to volunteer at the Marine Corps Marathon, contact [jared.kline@usmc-mccs.org](mailto:jared.kline@usmc-mccs.org) with the group name and size of your group.

It is only with the support of motivated individuals like you who are focused, alert and in control that the MCM is able to organize successful events in support of the runners and the Marines. Thanks in advance for your enthusiastic support and generous commitment of time to the MCM.

Semper Fidelis,  
Jared Kline – Volunteer Coordinator, 571-238-4916  
Marine Corps Marathon Organization

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The *Ham Arundel News* is the monthly official publication of

The Anne Arundel Radio Club, Inc.  
(ARRL Club No. 0484).

**Editor: Milford Craig / N3WYG**

Send newsletter articles, questions and information to **Milford** at [newsletter@w3vpr.org](mailto:newsletter@w3vpr.org)  
Deadline for submissions – The Saturday after the 3rd Thursday of the month

**Mailing Address:**

Anne Arundel Radio Club  
Post Office Box 308  
Davidsonville, MD 21035

**Meetings:**

General Business 1st Thursday at 7:30 PM  
Board Meeting 2nd Thursday at 7:30 PM  
Program/Activity 3rd Thursday at 7:30 PM

**Dues:**

\$30 per year, payable December 1st  
Discounts available for family members and students

**World Wide Web:** [www.w3vpr.org](http://www.w3vpr.org)

**AARC Supports The Maryland Slow Net:  
3.563 MHz CW 7:30 P. M. Daily**

**Free Money for AARC!**

**ARRL Membership Reminder**

ARRL affiliated clubs receive a commission for every new ARRL membership and renewal they submit to ARRL Headquarters. Clubs retain a portion of the dues for each regular or senior membership submitted to ARRL Headquarters:

Clubs retain \$15 for each new membership OR lapsed membership (of two years or more).  
Clubs retain \$2 for each renewal,  
A RENEWING MEMBER can renew at any time, even before their current membership expires.

Send your application and payment (made out to AARC) to the club treasurer.



# Mark Your Calendars

## REGULAR ACTIVITIES

**Club Meetings** are held on the first and third Thursdays of the month from 7:30 to 9PM at the clubhouse located at the Davidsonville Family Recreation Center in Davidsonville, MD

**Free License Exams every 2nd Saturday of the Month - Check in at Noon, Exams at 1PM - At the clubhouse - Contact David Rawley / AE5Z, [testing@w3vpr.org](mailto:testing@w3vpr.org)**

**Weekly AARC 2-Meter Net** on 147.105 (Typically linked to 147.075 and 444.400 with CTCSS tone of 107.2 Hz ) every Wednesday at 8 PM - All Welcome

**2 meter "HOLLY NET"** on 147.105 (Typically linked to 147.075 and 444.400 with CTCSS tone of 107.2 Hz) every morning 7:00 am to 9:00 am. All hams are welcome.

## EVENT SCHEDULE

Saturday, June 1 8:30am

AARC - General License Class

Thursday, June 6 7:30pm

AARC - Club meeting, newcomers always welcome.

Saturday, June 8 8:30am

AARC - General License Class

12:00pm AARC - Free License Exams

Thursday, June 13 7:30pm

AARC - board meeting

Sunday, June 16 1:00pm

AARC - Mesh Networking group, Every 3rd Sunday, 1 to 4 PM at the clubhouse

Thursday, June 20 7:30pm

AARC - Club meeting, newcomers always welcome.

Friday, June 21 8:00am

**Field Day Setup**

Saturday, June 22 2:00pm

**Field Day**

8:00am Field Day Setup

Sunday, June 23 » 2:00pm

**Field Day**

1:00pm Open Shack Hours

2:00pm Field Day Teardown

Sunday, June 30 1:00pm

AARC Kit-building, troubleshooting and repair, at 1 to 4 PM at the clubhouse





## SECTION TRAFFIC MANAGER'S REPORT

### MDC NTS NETS:

MEPN 1904 W3YVQ QND/30 QNI/357 QTC/51 MINS/631  
BTN 1904 AB3WG QND/30 QNI/363 QTC/39 MINS/533  
MDD 1904 AA3SB QND/59 QNI/274 QTC/87 MINS/498  
MSN 1904 W8CPG NO REPORT

PSHR: KK3F 140, W3CB 136, W3YVQ 135, K3IN 110,  
N3JET 100, WB3FTQ 100, AA3SB 99, NI2W 96, AB3WG  
77, TFC: KK3F 2900, K3IN 219, W3YVQ 98, AA3SB 75,  
N3JET 61, WB3FTQ 43, NI2W 36, W3CB 31, AB3WG 30,

### HF PROPAGATION:

MEPN: The net NVIS propagation was functional throughout APR, 2019, with good signals. Outbound traffic to MDD may be routed via the Digital Traffic Net if it is anticipated that MDD may not be able to conduct a net, a tricky prediction at best; or may be carried by the MDD liaison to an MDD EchoLink session, if held, for DTN; or outbound traffic may be sent to one of the MDC DTS stations via WL2K (as advised by the MDD NM) if MDD or 3RN/C4 fails.

MDD: NVIS propagation for local MDC stations on MDD early and late, and on RRI/3RN/C4 nets, was greatly improved. As April progressed the higher sun angle allowed the MUF to remain above the net frequency on most nights. Outbound traffic may be posted via WL2K to one of the MDC DTS stations as advised by the MDD NM if the net fails. If 3RN fails and the MDD rep cannot go to RRIE, the outbound traffic may be posted with one of the MDC DTS stations as advised by the MDD NM. In May we should continue to experience good NVIS on all four Cycle 4 CW nets barring any unusual solar flare or CME activity.

### CW OPERATORS NEEDED:

Additional CW operators are needed for liaison to MDD and to the higher nets, and Net Control Stations are also needed on MDD and 3RN/C4. The evening NTS and RRI nets in Cycle-4 nation-wide are conducted on CW, a very efficient mode for traffic handling. Grab your key, join in on MSN to help sharpen your skills, have some fun QSOs to help build confidence, and come participate in the evening nets.

### MEPN/MDD/3RN ECHOLINK:

MEPN (Maryland Emergency Phone Net) representatives check for EchoLink check-ins starting at net call daily via the WB3GXW-L link node (or \*WASH\_DC\* conference node backup if the -L node is not available). WB3GXW has kindly given permission for the MDD and 3RN operators to coordinate message handling on the WB3GXW-L conference bridge as needed during this solar minimum period.

### MSN CW TRAINING:

Remember that the MSN (Maryland Slow Net) provides CW training daily for newcomers to the mode, or those wishing to refresh their skills, daily at 7:30 PM Local on 3563 kHz. Each trainee works with an assigned instructor off the net frequency to receive Radiograms containing training information. Instructors work with each student at their own desired speed and check-in schedule. All are encouraged to master the art of CW via this net or personal training in order to support and join the ranks of our MDD Section CW net. Robin, AA3SB, MDD NM, and the veteran staff, will be glad to help you advance to the evening CW full Cycle 4 RRI. By the end of March, the NVIS propagation improved enough to allow local stations to participate in MSN with good signals.

### BTN LOCAL NTS TRAFFIC AND TRAINING NET:

The BTN (Baltimore Traffic Net) continues to meet on 145.33/R (no tone) daily at 6:30PM local time and continues to welcome new amateurs. The availability of an active directed traffic net of the NTS on VHF is exactly why the BTN was established, providing a welcoming place for newcomers to the Amateur Service. Thanks to all the BTN stations checking into the MEPN via EchoLink. The NM, AB3WG, has initiated plans for broader cooperation between BTN and MSN to foster more awareness between operators using the respective modes. Instructive message swapping and liaison duties should be in effect in May 2019.

### MESSAGE TYPES:

MDC NTS and RRI handle:

- 1) The traditional Radiogram (all-cap letters, figures, and slant-bars, with spelled out punctuation);
- 2) The Hybrid Radiogram (which is formatted in the Preamble, Address, and Signature, plus any OP NOTES, the same way as the traditional Radiogram but with an email-formatted text with upper/lower case, figures, plus all the standard email punctuation symbols, permitted between the breaks in order to carry ICS and other form content - handled by RRI's Digital Traffic Network); and
- 3) Operators use the Winlink Radio-email system for transport of both types of Radiograms as well as regular email-formatted messages. FL MSG also provides for ICS form entry and export of content to facilitate handling such texts within Amateur Radio; and it also provides an attachment export which may be used to print out ICS forms on the receiving end including the form's box borders.

Please encourage newcomers in your clubs and areas to learn how to format the various message types; participate in our directed traffic nets; and become familiar with the equipment, software, and operational experience needed. These are critically important skill sets to bring to all NTS, RRI, ARES®, RACES, and NIMS/ICS support activities; and are now required in ARES® guidance. The Section's NTS staff will be glad to provide introductory and advanced training via EchoLink to help you. As mentioned





## REPEATER FREQUENCIES

<b>Davidsonville</b>	<b>Millersville</b>	<b>Glen Burnie</b>	<b>Annapolis</b>
<b>147.105+</b>		<b>147.075+</b>	
<b>223.880-</b>	<b>224.560-</b>		
<b>444.400+</b>			<b>442.300+</b>

**PL: 107.2 for all repeaters**

The 147.105 and 147.075 repeaters are frequently linked. Please leave an extra second after the courtesy beep to allow the link to reset as well.

*Visitors are welcome to all meetings and nets.*

*Meetings are held in the Clubhouse at the  
**Davidsonville Family Recreation Center,**  
 Queen Anne Bridge and Wayson Roads off  
 MD Route 214 near Davidsonville, MD.*

*For en-route directions, make initial contact on the 147.105 repeater.*

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### Wednesday Night Talk Net -- All are welcome

8PM, On the AARC Repeater 147.105

#### Other Amateur Radio nets

Name	Frequency	Day	Time
The "Holly Net"	147.105+Mhz PL 107.2	Weekdays	0700
AA County ARES Net	146.805- Mhz PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670- Mhz	Daily	1830
Maryland Emergency Phone Net	3.820Mhz	Daily	1800
MD-DC-DE Traffic Net	3.557Mhz	Daily	1900 and 2200
Maryland Mobileers Net	146.805 PL107.2	Monday	1930
Maryland Slow Net	3.563 MHz	Daily	1930
REACT Net	442.300+Mhz PL107.2	1st Sunday	1930



## May 14 FT4 Mock Contest Session Canceled, New WSJT-X Beta Version Pending

A second hour-long FT4 “practice contest” set for May 14 UTC has been cancelled, following the success of an initial mock contest held on May 9 UTC (the evening of Wednesday, May 8, in continental US time zones). The event followed [ARRL RTTY Roundup](#) rules, with everyone working everyone. *WSJT-X* program suite developer Joe Taylor, K1JT, was among those jumping into the fray. He called the exercise “very useful” and has drawn some preliminary conclusions as to how the FT4 protocol functions in a contest setting.



“FT4 works well, but — as implemented *WSJT-X* 2.1.0-rc5 — it has some rough spots and performance issues,” Taylor said in a post to the Yahoo WSJT Meteor Scatter and Weak Signal Group. “Many of these have been fixed already during this beta-testing period, and more improvements are still to come.”

Taylor said a second mock contest session using the current -rc5 “release candidate” (beta version) would not be helpful, and it’s not convenient for the developers to build and distribute -rc6 in time for a session early next week, a few days before the Dayton Hamvention. “Instead, we are aiming now to release *WSJT-X* 2.1.0-rc6 about 2 weeks later — probably in the last week of May or the first week of June,” Taylor said. “Another mock contest practice session will be scheduled soon after that release.” The current -rc5 beta version will expire automatically on June 7.

Taylor said he used a program build that was probably closer to the pending *WSJT-X* 2.1.0-rc6 beta version than to -rc5. “With my dial set at 7.090 and a 4 kHz displayed spectral window, my waterfall was mostly filled with FT4 signals from well before 0000 UTC to well after 0100,” he said. Taylor managed some 60 stations in 22 states, four Canadian provinces, and in two DXCC entities.

“Generally I found *WSJT-X* to work well in FT4 contesting mode, but I noted several behavioral oddities that still require attention,” Taylor continued. For example, he said the “TU” message need only be sent once, and if the new station needs to be called again, the leading “TU” should be stripped. He also noted that the “Call 1st” check box becomes unchecked in certain circumstances. “This was intentional, part of an attempt to defeat robo-QSOs; but there may be a better way to address this issue,” he remarked. He said the “Best S+P” button was effective, but feels its behavior can be improved. “Its selection of a ‘best’ caller should favor new multipliers, and perhaps also stronger signals,” he said. “Currently, the button only functions as desired during a reception interval.”

In a post to the [Yahoo WSJT Group](#), Rich Ferch, VE3KI, described the mock contest in one word: “chaotic.” He requested eliminating the “feature” that lets the operator continue to call a CQ-ing station, even after the station has come back to someone else. “At the very least, make it wait until the other QSO is over before calling,” he said.

Before the practice event, Taylor said the developers were “looking for feedback on what works well, what does not, and what an FT4-enabled contest might be like.”

If you took part, post your observations and comments to the [Yahoo WSJT Group](#) reflector, the [WSJT Development Group Mailing List](#), or the [RTTYDigital list](#).

The *WSJT-X* Development Group reports that it’s aware of several other anomalies in the -rc5 version of *WSJT-X* 2.1.0. In addition to unexpected program crashes, the program will reset itself to FT8 protocol after the operator accesses the Settings screen. The current build of *WSJT-X* 2.1.0-rc5 does not run correctly under macOS.

Installation packages for Windows and Linux are on the [WSJT-X page](#). A full release of *WSJT-X* version 2.1 is targeted for release in July 2019.

Used with permission The ARRL Letter, May 9, 2019

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**THE HOLLY NET**  
**Net Control Radio Operators**  
**ARE NEEDED**  
 during the work-weekdays -  
 from 0700 to 0900 am.  
 Contact: Jim Wallace, N3ADF

# The Radio Amateur Operator is...

## **CONSIDERATE**

...He/[She] never knowingly operates in such a way as to lessen the pleasure of others.

## **LOYAL**

...He/[She] offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his/[her] country, through which Amateur Radio in his/[her] country is represented nationally and internationally.

## **PROGRESSIVE**

...He/[She] keeps his/[her] station up to date. It is well-built and efficient. His/[Her] operating practice is above reproach.

## **FRIENDLY**

...He/[She] operates slowly and patiently when requested; offers friendly advice and counsel to beginners; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

## **BALANCED**

...Radio is a hobby, never interfering with duties owed to family, job, school or community.

## **PATRIOTIC**

...His/[Her] station and skills are always ready for service to country and community.