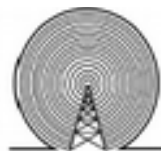


# THE HAM ARUNDEL NEWS



Providing Fellowship and Community Service through Amateur Radio Since 1951

January 2020

HAPPY NEW YEAR

41<sup>st</sup> Year of Publication



Keith Miller, AE3D

## The Prez Sez

As I write this, it's not January 2020 yet, but rather December 16, 2019 the morning after the Holiday Party. A year ago I was writing this column for the first time, and I was all excited about the prospects for the future.

I knew we needed to split our Committee structure into a system of committees and teams, with committee's being run roughly by Roberts Rules, and the Teams operating more like the military, with a leader in charge, and perhaps even an assistant leader. We did that. It was easy.

We needed a standing Rules Committee to start working on a Policy and Procedure Document to contain collective club wisdom, and retain information on long standing Board decisions. We did that too. In 2019 Chuck Tanner's Rules Committee created the Policy for the Trustee covering approved use of the W3VPR call sign.

The committee also set out to revamp the procedure, and rules for the annual Maryland DC QSO Party. The new procedure worked incredibly well. After several years of being months late on determining the winners, it too just over a month in 2019. Thank you Jim Wallace (N3ADF). Meanwhile rules changes are on the agenda this month.

Our Ham Shack project was well underway, thanks to my predecessor Richard Grace (KB3ZYO) but it was still rough around the edges. By that, I mean networking was not completely operational. Logging computers weren't installed, and the front edges of the tables weren't even there. We needed

rotor controls, a way to access the logging PC's remotely, another *Signalink USB* and a system of jacks for access to key input and headphone output, to keep

users from every having to 'go behind the rig and touch the cables'. We had no way to train people to operate our Shack, nor did we have a plan to administer it, or any sort of group to do so. We only achieved parts of that in 2019, the work continues.

Outside we hadn't really started. We needed an



almost all new system of antennas to provide 160m through 70cm capability, and we had no plan in place either. Plus before we could start, we needed repairs to both club house towers, one having no antenna, the other needing antenna repair work. We got one tower fixed, and a plan in place to pour a base around the other. Plus the beam was replaced with a Cushcraft A3S instead of being repaired. The Ham Shack Antenna Committee headed by Bernie Coletta (NK3PS) may have a plan in place as soon as later this month.

Meanwhile the big surprise of 2019 was not that the Fox Hunt failed to materialize. (I can't win them all.) The surprise was a person, Board Member Eric Berman (KC3GDV). Eric had his own agenda. I knew when he ran for the Board he would be quite an asset, but when he took over the job of Facilities Team Leader, wow! Everyone just got out of his way.

Eric formed the Wrecking Crew, a group of members, who show up at the club house Tuesday mornings ready to work. Eric reorganized Field Day storage, and created a workshop in Storage Room #1 that just keeps getting better. He reorganize the club house, arranged a sale of excess antenna making materials, made agreements with the Eagle Scouts to build us stairs, clear the area around the pedestal for placement of a new tower, pour concrete around the west tower's base, and create a small movable podium for the club house. Several of those are still under way. Then, when the opportunity struck Eric picked up a larger, movable podium, and a series of tables that can convert our club house into a class room. And speaking of such, Eric volunteered the AARC to help with South River High School's STEM program. Their kids spent 4 days with us this past fall, for which Eric arranged teachers which included a number of club members plus Rol Anders (K3RA) and Frank Donovan (W3LPL).

I mention all of the work done in 2019, because its the kinds of things I thought I'd be thinking about during the Holiday Party. But I was wrong. I was late already when asked to pick up the meat at the deli, so I was even later. I had been working on our paperwork since 7:30am and in my rush printed an older version of one document that turned out to be critical. I was plenty grumpy, and want to apologize to anyone I talked to in the first few minutes. But after that I stopped worrying about all the paperwork I was going to have to fix later, and looked around. And then I smiled. All I could think was, gosh I have a lot of friends in this room. Everywhere I looked I saw people who had been part of one of my Technician or General license classes. Three of them are on the Board

[illegible]

## Winter Field Day

MDC SECTION - One MONTH before Amateur Radio Winter Field Day -

Winter Field Day is a 24-hour long event, from **Saturday, January 25th, 2019, 2pm EST (1900 UTC) to Sunday, January 26th, 2019, 2pm EST (1900 UTC).**

All bands may be used, except 12, 17, 30 and 60 meters which prohibit contesting.

All modes are available. MDC Section Winter Field Day groups: Prince George's County, Maryland ARES/RACES (<https://www.pgares.org/>) and Anne Arundel County Amateur Radio (<https://www.w3vpr.org/node/362>). More info about Winter Field Day at <https://www.winterfieldday.com/>

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AA

## Fine-tuning your radio skills and station is easy with the

### ARRL W1AW Operating Schedule

(in this issue)

Code, Digital, Voice.

Also available via W1AW

Conference Server "W1AWBDCT"

<http://www.arrl.org/echolink-irlp>

<http://www.arrl.org/w1aw-operating-schedule>

AA

## Take A Brief Survey



ARRL is inviting listeners of the **So Now What?** podcast for amateur radio newcomers to **take a brief survey** about the bi-weekly podcast. The survey

will close on December 13. -- Thanks to Michelle Patnode, W3MVP, ARRL Communications Content Producer

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AA



## NOAA/NASA Panel Concurs that Solar Cycle 25 will Peak in July 2025

The NOAA/NASA-co-chaired international Solar Cycle Prediction Panel has released its [latest forecast](#) for the coming Solar Cycle 25. The panel's consensus calls for a peak in July 2025 ( $\pm 8$  months), with a smoothed sunspot number of 115. The panel agreed that Cycle 25 will be of average intensity and similar to Cycle 24. The panel additionally concurred that the solar minimum between Cycles 24 and 25 will occur in April 2020 ( $\pm 6$  months). If the solar minimum prediction is correct, this would make Solar Cycle 24 the seventh longest on record at 11.4

years. In its preliminary forecast

released last April, the

scientists on the panel

forecast that Solar Cycle

25 would likely be

weak, much like the current Cycle 24.

"Solar Cycle 25 may have a slow start, but is anticipated to peak with solar maximum occurring between 2023 and 2026, and a sunspot range of 95 to 130. This is well below the average number of sunspots," the panel said last spring, adding with "high confidence" that Cycle 25 "should break the trend of weakening solar activity seen over the past four cycles." The panel said the expectation that Cycle 25 would be comparable in size to Cycle 24 suggests that the steady decline in solar cycle amplitude seen from Cycle 21 through Cycle 24 has ended and that there is no indication of an approaching "Maunder-type" minimum. Cycle 24 peaked in April 2014 with an average sunspot number of 82.

The Solar Cycle Prediction Panel forecasts the number of sunspots expected for solar maximum, along with the timing of the peak and minimum solar activity levels for the cycle. It is comprised of scientists representing NOAA, NASA, the International Space Environment Services, and other US and international scientists.

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AA

## Net Control Radio Operators

**ARE NEEDED for the HOLLY NET**

during the work-weekdays -

from 0700 to 0900 am.

**Contact: Jim Wallace, N3ADF**



## On The Air Magazine in January

ARRL is launching a new magazine, *On the Air*, in January 2020. To be published on a bimonthly basis, *On the Air* will offer new and beginner-to-intermediate-level radio amateurs a fresh approach to exploring radio communication. Each issue will include advice and insights on topics from the variety of Amateur Radio interests and activities: radio technology, operating, equipment, project building, and emergency communication. The goal of this new magazine is to be a vital resource in helping new and newer radio amateurs get active and involved in radio communications.

<http://www.arrl.org/news/arrl-to-launch-new-on-the-air-magazine-in-january>

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[illegible]

## Everything Should Be Made As Simple As Possible, But Not Simpler

By Dan Romanchik, KB6NU

"Everything should be made as simple as possible, but not simpler" is a quote attributed to Albert Einstein (<https://quotationcelebration.wordpress.com/2017/01/07/everything-should-be-made-as-simple-as-possible-but-not-simpler-albert-einstein/comment-page-1/>). Here's one way to apply this principle in amateur radio, specifically to code practice oscillators.

A week ago, my friend, Paul emailed me:

"I am planning on teaching a two-hour introduction to Morse code to 14 girls ages 8 to 9 [[Paul's granddaughter is a Girl Scout.]]. I plan on having the girls build a code practice device. I need your help in selecting a low cost buzzer and battery holder. Please take a look around and see would you can find. I would like to limit the power to one or two AA batteries."

I replied that I'd be happy to help him with the demonstration, and offered the following advice:

“A while back, I built the QRPGuys’ K7QO Code Practice Oscillator (<https://qrpguys.com/k7qo-code-practice-oscillator>). It uses a CR2032 coin battery.

“Unfortunately, they don’t sell it anymore, but the assembly manual is still online ([https://qrpguys.com/wp-content/uploads/2017/03/cpo\\_assy\\_012616.pdf](https://qrpguys.com/wp-content/uploads/2017/03/cpo_assy_012616.pdf)). The assembly manual doesn’t call out specific parts, but here are some Amazon SKUs:

- B00J4BK0NS, Black 3V Electromagnetic Type Piezo Buzzer, 20 pcs/\$6.58
- B06XF3K4NP, Coin Cell Button Battery Holder, 30 pcs/\$9
- B008SNZUYC, 3 Pin PCB Mount Female 3.5mm Stereo Jack, 10 pcs/\$5.40
- B071RMD6FD, 1/8" 3.5mm Stereo Male Connector, 10 pcs/\$7

"Batteries are available at the dollar store for about 30 cents each. So, you could do the whole thing for less than \$5 for sure, even with a printed circuit board, which I would suggest that we do. Heck, if you ask nicely, the

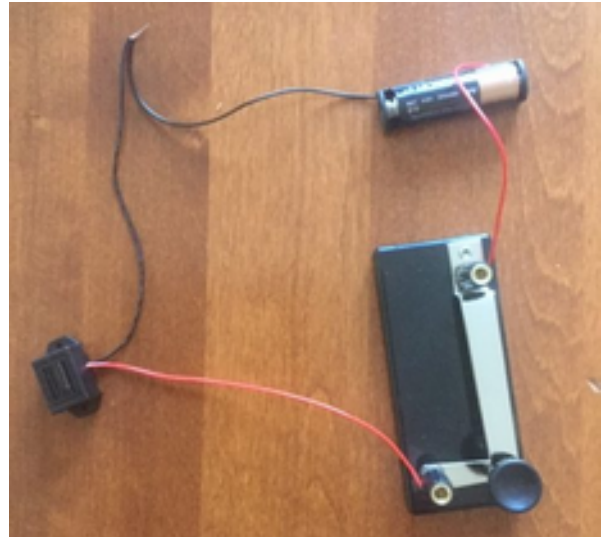
QRPGuys might even give us the artwork, or even better, have some boards still in stock. Even if they have neither, you should be able to get the boards in plenty of time."

Later that day, Paul replied:

Thanks, Dan, for the information and making yourself available to help. I am just going to use a buzzer, key, and battery. The buzzer has a frequency of 400 Hz.

- <https://www.xump.com/science/Buzzer>  
-Leads15V.cfm
- <https://www.xump.com/science/ContactKeySwitch.cfm>
  - <https://www.xump.com/science/Single-AA-Battery-Holder.cfm>

And this morning, he sent me this photo, noting, "FYI. Also sounds great."



I think that this is as good an example of "Everything should be made as simple as possible, but not simpler" as there can be. I've volunteered to help Paul with his class. That will be fun, too.

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the ICQPodcast (icqpodcast.com). When he's not trying to keep things as simple as possible, but not simpler, he likes to build stuff and operate CW on the HF bands.

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[illegible]

## Massachusetts Rule For Mobiles

**Massachusetts has settled on a one-hand-on-the-wheel rule for mobiles.** The Bay State's two ARRL Section Managers report they have received confirmation



that the Commonwealth's distracted driving law does not apply to two-way mobile radio operation. The new law "permits use of a federally licensed two-way radio, provided that one hand remains on the steering wheel at all times," except as provided in sections 8M, 12A, and

13B of the law. -- Thanks to Western Massachusetts SM  
Ray Lajoie, KB1LRL, and ARRL Eastern Massachusetts  
SM Tom Walsh, K1TW

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[illegible]

## AARC STAFF – 2020 Officers

<b>President</b>	Keith Miller / AE3D president@w3vpr.org	240 758 0423
<b>Vice President</b>	Jim Wallace, (N3ADF) vice.president@w3vpr.org	
<b>Secretary</b>	Bernie Coletta / NK3PS secretary@w3vpr.org	
<b>Treasurer</b>	Bill Mooney / KA3UQQ treasurer@3vpr.org	
<b>Director A</b>	Eric Berman / KC3GDV eric.board19@w3vpr.org	
<b>Director B</b>	Doug Ellmore, (NA1DX) TBA	
<b>Director C</b>	Scott DeMatteo, (W3GTR) TBA	

## Support Staff

### Membership Secretary

<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>	Jim Wallace / N3ADF	
<b>Joint 440 Comm</b>	Gordon Davids / WJ3K joint440@w3vpr.org	410 647 2956
<b>MD Slow Net</b>	(T B A)	
<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>	Ted Ruddy	
<b>Facilities</b>	Eric Berman / KC3GDV facilities@w3vpr.org	
<b>Field Day</b>	(TBD)	
	field.day@w3vpr.org	
<b>Station Manager</b>	(TBD)	

<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 mdqsop@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.chair@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 / N3AT 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="mailto:rules@w3vpr.org">rules@w3vpr.org</a>

AA



## VE Testing Schedule

**Second Saturday of each month  
– Noon – AARC –**

David Rawley, N3AT [testing@w3vpr.org](mailto:testing@w3vpr.org)

**Third Saturday of each month – 9AM – Laurel ARC –**  
John Creel, 301-572-5124

**Fourth 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)

## W1AW 2019/2020 Winter Operating Schedule

**Morning Schedule:**

Time	Mode	Days
------	------	------

1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

## Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST)  
1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)

(Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 " "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	DIGITAL	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 " "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	DIGITAL	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 " "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

## Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975  
21.0675 28.0675 50.350 147.555  
DIGITAL: - 3.5975 7.095 14.095 18.1025  
21.095 28.095 50.350 147.555  
VOICE: 1.855 3.990 7.290 14.290 18.160  
21.390 28.590 50.350 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM  
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM  
 CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to [w1aw@arrl.org](mailto:w1aw@arrl.org).

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

The W1AW Operating Schedule may also be found on page 100 in the November 2019 issue of QST or on the web at:

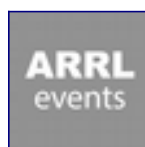
<http://www.arrl.org/w1aw-operating-schedule>


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[illegible]

**Orlando HamCation® 2020**

**Orlando HamCation<sup>®</sup> 2020 visitors in February** will be able to navigate the convention with ARRL's free mobile event app, **ARRL Events**. First introduced for the **Dayton Hamvention<sup>®</sup>** in May 2019, the app received



 extremely positive reviews from users. ARRL has partnered with Orlando HamCation and Dayton Hamvention to re-introduce the app for these 2020 events. "The user-friendly event app will help convention-goers find exhibits and forums, follow prize drawings, and connect with other attendees," said ARRL Convention and Event Coordinator Eric Casey, KC2ERC, who has been working with Orlando HamCation Committee members to help ready the app for the 2020 event. The free *ARRL Events* app will be available in late December for both Apple iOS and Android devices, along with a web-browser version. Orlando HamCation 2020 takes place February 7 - 9 and has been sanctioned as the 2020 ARRL Northern Florida Section Convention. [Visit](#) the HamCation website to purchase tickets.

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[illegible]



## The Sun's Magnetic Field Flips for Cycle 25 –

The switch happens around the peak of solar activity or solar maximum and marks the sound-half beginning of the Solar Cycle.

The appearance of Sunspot marks the beginning of the next Solar Cycle but what occurs before the beginning of the Sunspots? The change in the Sun's yearly average total irradiance during an 11-year cycle is on the order of 0.1 percent or 1.4 watts per square meter. But is this measurement good-enough to predict the onset of the next Solar Cycle?

Irradiance (also called insolation) is a measure of the amount of sunlight power that falls upon one square meter of exposed surface, usually measured at the 'top' of Earth's atmosphere. This energy increases and decreases with the season and with your latitude on Earth, being lower in the winter and higher in the summer, and also lower at the poles and higher at the equator. But the sun's energy output also changes during the sunspot cycle!

The first sunspot appearance sun's hemisphere will herald in the beginning of a new 11-year solar cycle, researchers say. Here on Earth, it's not obvious what that means to our everyday life but Solar activate of current Cycle 24 - nearing the lowest point of 11-yr means Solar Cycle-25 is forecasted to peak soon; ending by 2030.

See-

<http://www.arl.org/w1aw-bulletins-archive-propagation>  
<http://www.arl.org/propagation-of-rf-signals>

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## ARESMAT Zoom Conferencing

ARESMAT Zoom conferencing, initiated and continued through the dedication of Ken KG4USN MDC ASM PIC/EA will now shift leadership to Steven KC3DSO, AEC and continue the collaboration with our adjacent Sections. Next Video Conference will be schedule with participants.

Contact Steven KC3DSO MDC ASEC [kc3dso@gmail.com](mailto:kc3dso@gmail.com) to participate and learn more about ARESMAT Amateur Radio Mutual-Aid. The next ARESMAT Video Conference Call is in January 2020. Contact our ASEC Steven KC3DSO to be included.

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## Theme For The 2020 Dayton Hamvention®

The theme for the 2020 [Dayton Hamvention®](#) will be "Amateur Radio, The Future." Hamvention General Chair Jack Gerbs, WB8SCT, invited Hamvention attendees to celebrate amateur radio's past, present, and future. "As amateur radio operators, we enjoy many modes of operating," Gerbs said. "We also enjoy challenges such as satellite



communications, moonbounce, meteor scatter, and more. What truly excites me about our hobby is the diversity of these modes and the fact that, as we move to the future, we still enjoy the technologies of the past." Gerbs noted that Hamvention has long been a place to find vintage parts and gear and to see the latest technology. "The theme acknowledges the role that amateur radio has always played and will continue to play in future communication developments," Hamvention said, acknowledging the contributions of the many hams who actively work on new ideas, equipment designs, and software to improve electronic communication. Hamvention 2020 takes place May 15 - 17 at the Greene County Fairgrounds and Expo Center in Xenia, Ohio

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## MDC SECTION HAMFEST :

### Sunday, January 26

Post-Holiday Hamfest at Odenton Volunteer Fire Department, 1425 Annapolis Road (Rt. 175) Odenton MD Maryland Mobileers Amateur Radio Club

Opens: 7:30 AM until Noon

VE Exam: 9AM and pre-registration is preferred & walk-ins are welcome

Card Checking: QSL Card checking will be available on site

Talk-In: 146.805 MHz PL107.2)

Public Contact: Bruce AB3AC

Phone: 410-456-2500 / Email:

[bmcpherson73@verizon.net](mailto:bmcpherson73@verizon.net)

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## Event To Honor Beethoven

A year-long special event will honor Beethoven. German special event station [DL250BTHVN](#) will be active between December 16, 2019, and December



17, 2020, to honor the 250th anniversary of the birth of famed composer Ludwig van Beethoven. The Beethoven anniversary year will take place under the auspices of Germany's Federal President Frank-Walter

Steinmeier. Beethoven was born in December 1770 in Bonn, Germany, and lived there for the first 22 years of his life. The anniversary event is aimed in part at highlighting Beethoven's extensive oeuvre as a composer and to boost Bonn's reputation as a "Beethoven city." QSL via direct or by the bureau.

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Additional CW operators are needed for liaison from MEPN and BTN 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 nationwide are conducted on CW.



# CONGRATULATIONS

RHODES, BRAD E -- KG4COS	-- Upgrade to Amateur Extra
Rudie, James T -- KC3LMV	-- Upgrade to Amateur Extra
Cherry, Denise M -- KC3OIA	-- Upgrade to General
Ehrenreich, John M -- K3DDT	-- Upgrade to Amateur Extra
Laur, Matthew J -- KC3OOB	-- New Technician
Beck Jr, Robert W -- KC3OOC -	-- New Technician
Robson, Christopher L -- KC3OOD	-- 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  
December 2019*

[illegible][illegible]

**We are pleased to receive any donations over your yearly dues.**

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**

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**

**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**

Thursday, January 2, 2020 7:30pm  
Membership Meeting

Thursday, January 9, 2020 7:30pm  
Board Meeting

Thursday, January 16, 2020 7:30pm  
Membership Meeting

Saturday, January 18, 2020 2:00pm  
ARRL VHF Contest

Sunday, January 19, 2020 » 11:00pm  
ARRL VHF Contest

Thursday, January 23, 2020 7:30pm  
Rules Meeting

Saturday, January 25, 2020 2:00pm  
Winter Field Day

Sunday, January 26, 2020 » 2:00pm  
Winter Field Day



## 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
Maryland Slow Net	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.*

## REPEATER FREQUENCIES

Davidsonville	Millersville	Glen Burnie	Annapolis
147.105+		147.075+	
223.880-	224.560-		
444.400+			442.300+

### 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

# 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.

*- adapted from the original Amateur's Code, written by Paul M. Segal, W9EEA, in 1928*  
*The Radio Amateur's Code*