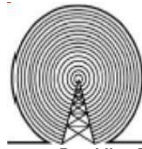


The Ham Arundel News



Providing Fellowship and Community Service through Amateur Radio since 1951



June 2020

41st Year of Publication



Keith Miller, AE3D

Prez Sez

As 2020 started I had this concept in mind that we'd be finishing the ham shack, and putting up a tower that would enable us to use it on all bands 160m through 70cm. I wasn't sure we'd get all the new antennas up but I thought maybe some would be operational by year's end. I had a Field Day Team Leader in place in whom I had, and still have, great confidence, and was looking forward to June and all the fun we'd have.

What a difference a pandemic makes. When faced with the possibility that not all of us might be here to see 2021 priorities change, and fast. It reminds us that keeping everyone safe really is, and always has been, 'job one'.

With adversity comes ingenuity. We've adapted. Projects we had in mind for 2020 are now on the back burner. Health and COVID-19 protection have jumped to the foreground. Field Day plans have been modified, and modified again. Testing has been halted, and likely soon will be restarted soon with a whole new set of rules to keep us all safe. And we didn't stop training new hams or holding meetings. We found Zoom, and made it standard for our meetings and classes. We are hams after all. We adapt to use new technologies all the time. It is who we are. We are constantly a work in progress.

Some of this has even led to permanent improvements that will last well beyond our current health crisis. We are already working to hybridize future meetings, making them attendable either in person or online. And the ability to record meetings, classes, presentations and such opens new avenues for us. It appears we radio types have a lot more to learn about using video, but we are headed down the right road.

As the Governor's plan for re-opening Maryland is already underway, and as we proceed toward restarting VE Testing and holding a Field Day event at the DFRC there are a few things we need to consider.

But for a minute, let's consider considering. When I need to make a decision the first thing I do is study up on the subject. Research is a good thing. I also tend to ask the opinions of those I feel have some expertise in the topic. Opinions aren't facts, so before I consider them, I tend to first evaluate 1) the sources for my information, 2) their relative expertise on the topic, and 3) their personal stake in the outcome. So when it comes to a medical

problem, like COVID-19, I rely on the medical community, rather than the political community for my information. Simply put, I trust doctors more than politicians of any party. Clearly they have more expertise in medical matters. Plus their stake in the game seems a lot more about people staying alive than about a myriad of other concerns. Doctors have a bigger job than keeping 51% of us happy once every few years.

Every doctor I've seen on TV tells me the same few things. First, not everyone who has been infected with the COVID-19 virus shows any symptoms. Ever! Some people's immune systems seem to successfully ward off the virus, and then a few weeks later produce antibodies for it, just as if they had been sick. Using contact tracing techniques it does appear that these people are contagious for some period, but how long and when is not easy to determine.

Second, we are told that for a few days prior to a person showing symptoms of COVID-19 they appear to be able to spread the virus, though not as effectively as someone who is actively sneezing and coughing. And we, for sure, know they can spread the virus after they start showing those symptoms, plus others like chills, muscle pains, sore throat, loss of taste or smell, shortness of breath, and fever.

Third we are told by the medical community that those with symptoms like trouble breathing, persistent pain or pressure in the chest, new confusion, inability to wake or stay awake, and bluish lips or face, should seek medical care immediately.

Armed with this knowledge, many places have begun using IR thermometers, which run under \$100. They quickly determine if anyone has a fever, without any physical touching of the person being tested. Folks who have fevers are not admitted and sent home. While this is not a sure fire method of determining if someone has an active COVID-19 infection, it is a tool worth using. I have therefore asked the Board to vote by email on a Motion to purchase such a device for the club. We can then use it to screen participants for both Field Day and all VE Testing, until the pandemic is over. Again this will not insure us that no one who is infected gets in, but it will warn us of those who are most likely to be infected.

I would also ask anyone who plans to attend either Field Day or a VE Testing session be aware of the symptoms listed above, and know when to stay home.

Next I would like to remind all our members, that face masks are to be worn during Field Day and its setup and teardown sessions. This will also be the case at all

VE Testing for the foreseeable future. We may make exceptions for microphone use, assuming we can't find microphones that can go inside your mask.

We will also have a lot of hand washing, Clorox wiping and equipment disinfecting going on whenever we are at the DFRC. We will enlist your aid as needed, and can only hope to have sufficient volunteers to keep things clean and sanitized.

I suspect you don't need to be reminded but, the wearing of a mask is not a political statement. It is not even primarily a way to protect yourself from COVID-19. It is a way to prevent others from getting COVID-19 from you, should you have it, and perhaps not know it. So please protect your fellow hams and in doing so their families and loved ones. I urge you to wear a mask when at the DFRC until further notice. Protective gloves may also be a requirement at times for various things like test handling. If the VE Team Leader or Field Day authority ask you to wear protective gloves, please humor them and just do it. Your help will be greatly appreciated.

Thanks in advance.

73!

Keith, AE3D

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Social Distancing Exam Sessions Demonstrate Pent-Up Demand for Testing

A recent in-person "social-distancing" amateur radio exam session in Indiana and a "drive-in" session in California are representative of those that are relieving some of the pent-up demand for testing. As the COVID-19 pandemic continues, in-person exam sessions have begun to resume across the US and elsewhere in the world.

"With in-person sessions starting up again around the country, we are hearing the same story from volunteer examiner (VE) teams everywhere," said ARRL Volunteer Examiner Coordinator (VEC) Maria Somma, AB1FM. "Large numbers of candidates who have been waiting to test are contacting teams and are thankful for the



opportunity to sit for an exam. So far, we've heard mostly positive results. Candidates are very prepared, as they've had extra time to study. VE teams and candidates are following CDC and

state guidelines for social distancing."

[Anderson \(IN\) Repeater Club](#) VE Team Liaison

Steve Riley, WA9CWE, told ARRL earlier this month that his club has been conducting test sessions every month since 2011, typically serving four or five candidates each session, but the May 19 session attracted 14 individuals.

"We were unable to test in April, but were able to get back in for the May session," Riley said. "Several candidates were from Central Indiana, and we had a fellow drive down from Chicago, a couple from the Dayton, Ohio, area, and also from Fort Wayne, Indiana." The team limited participation until it could conduct the trial run.

VEs and examinees alike wore face masks, and the test room was configured to accommodate the necessary spacing between individuals. "We questioned everyone entering with the usual health questions," he added.

"Our VE paperwork became a serial flow for grading instead of our prior 'huddle' of the three VEs over the answer sheet," Riley recounted. "As a result, things were a bit slower than in the past. The tables, pencils, and pens were disinfected."

The result for the session was 11 new radio amateurs and three upgrades. "All went well, although we identified a couple improvements in paperwork flow for next month's test," Riley added.

"There is quite a pent-up demand for new amateur licenses and upgrades as a result of the number of test sessions that have been canceled," he continued. "I hope that as sessions resume, they have the success that we had." Riley said he's already been contacted by six people who plan to sit for the exam in June.

In California, VE Larry Loomer, KI6LNB, told the ARRL VEC that his team conducted a successful drive-in license testing session on May 16 at the Concord Bay Area Rapid Transit Station.

Loomer explained that candidates fill out their paperwork in their cars. "I have circled in pencil all of the boxes on [Form] 605, the answer sheet, and the CSCE (Certificate of Successful Completion of Exam) that the candidates need to fill in, to minimize the face-to-face time." Once paperwork is completed, candidates take a test booklet and answer sheet on a clipboard and sit in a chair in front of their cars, taking the test in front of the VEs.

Completed tests go into a box on the VE table, and candidates back their cars into a holding area, to let other cars park by the testing chairs. Once a test is scored and signed, the CSCE goes to the waiting candidate, who may then drive away.

"I'm seeing videos of remote test-taking sessions, and they still look labor intensive to me," Loomer said. "We are sticking with the drive-in format for the present time."

Somma said, "Our VE teams are doing a great job! I'm impressed with their attention to safety, their professionalism, and their innovative tactics."

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Temporary Rule Waivers Announced for 2020 ARRL Field Day

With one month to go before 2020 [ARRL Field Day](#), June 27 - 28, the ARRL Programs and Services Committee (PSC) has adopted two temporary rule waivers for the event:

- 1) For Field Day 2020 only, Class D stations



may work all other Field Day stations, including other Class D stations, for points.

Field Day rule 4.6 defines Class D stations as "Home stations," including stations operating from permanent or licensed station locations using commercial power. Class D stations ordinarily may only count contacts made with Class A, B, C, E, and F Field Day stations, but the temporary rule waiver for 2020 allows Class D stations to count contacts with other Class D stations for QSO credit.

2) In addition, for 2020 only, an aggregate club score will be published, which will be the sum of all individual entries indicating a specific club (similar to the aggregate score totals used in ARRL affiliated club competitions).

Ordinarily, club names are only published in the results for Class A and Class F entries, but the temporary rule waiver for 2020 allows participants from any Class to optionally include a single club name with their submitted results following Field Day.



For example, if Podunk Hollow Radio Club members Becky, W1BXY, and Hiram, W1AW, both participate in 2020 Field Day -- Hiram from his Class D home station, and Becky from her Class C mobile station -- both can include the radio club's name when reporting their individual results. The published results listing will include individual scores for Hiram and Becky, plus a combined score for all entries identified as Podunk Hollow Radio Club.

The temporary rule waivers were adopted by the PSC on May 27, 2020.

ARRL Field Day is one of the biggest events on the amateur radio calendar, with over 36,000 participants in 2019, including entries from 3,113 radio clubs and emergency operations centers. In most years, Field Day is also the largest annual demonstration of ham radio, because many radio clubs organize their participation in public places such as parks and schools.

Due to the COVID-19 pandemic, many radio clubs have made decisions to cancel their group participation in ARRL Field Day this year due to public health recommendations and/or requirements, or to significantly modify their participation for safe social distancing practices. The temporary rule waivers allow greater flexibility in recognizing the value of individual and club participation regardless of entry class.

ARRL is contacting logging program developers about the temporary rule waivers so developers can release updated versions of their software prior to Field Day weekend.

Participants are reminded that the preferred method of submitting entries after Field Day is via the [web applet](#). The ARRL Field Day rules include instructions for [submitting entries](#) after the event. Entries must be submitted or postmarked by Tuesday, July 28, 2020.

The ARRL Field Day [web page](#) includes a series of articles with ideas and advice for adapting participation this year.

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What is that signal I just heard?
SIGNALWIKI
Here is a site that has cataloged various transmissions and attempts to identify them. There are recording and waterfall signature that you can use to compare.

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Emergency Ventilator Designed and Constructed by Hams Going to FDA

Radio amateurs have succeeded in providing a complete, working ventilator system to University of Florida researchers who are in the process of applying to the Food and Drug Administration for an Emergency Use Authorization (EUA).

A successful submission would blaze the way for volunteers and manufacturers around the world to create low-cost, highly functional Intensive Care Unit



Airway components of the emergency ventilator. [Photo courtesy of Gordon Gibby, KX4Z]

(ICU) or anesthesia-care ventilators that offer many of the features of modern ventilators at a fraction of the typical cost. Dr. Gordon Gibby, KX4Z, who is associated with the project, said efforts to further improve the device are ongoing.

"We made a stunning improvement in accuracy of the system and measuring volumes last night at about 1 AM," he told ARRL. "Accuracy of that particular alarm measurement went from about 300%, down to about 10%. The FDA submission is being readied, but we keep making engineering improvements."

Gibby credited some of the primary volunteers. "Bob Benedict, KD8CGH, has provided incredible volunteer testing, now exceeding 1.6 million cycles on one crucial valve and 300,000 on another. Jack Purdum, W8TEE, is the main 'code-cleaner' for one of multiple teams building software, following the initial lead of Marcelo Varanda, VA3MVV. Ashhar Farhan, VU2ESE, not only created the ventilator controller schematic but the printed circuit board layout that will be part of an expected University of Florida submission." Farhan was among the founding code writers of what we now know as Voice over Internet Protocol (VoIP).

Other hams worked on mechanical designs for

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Club Picnic	Jim Myrick / W3JLM picnic@w3vpr.org
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Newsletter	Milford Craig / N3WYG newsletter@w3vpr.org	301 218 8867
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Wed. Nite Net	Mike Waterson / K3MAW wednesday.night.net@w3vpr.org	
Winter Field Day	Rick Steer / AB3XJ winter.field.day@w3vpr.org	
Workshop	(TBD) workshop@w3vpr.org	

Groups

Board of Directors	board20@w3vpr.org
Kit Building Committee	kitbuilding@w3vpr.org
Rules Committee	rules@w3vpr.org



VE Testing Schedule

Second Saturday of each month

– Noon – AARC –

David Rawley, N3AT testing@w3vpr.org

Third Saturday of each month –

9AM – Laurel ARC – John Creech 301-572-5124

Fourth Tuesday of each month – 9PM – MMARC –

Mike Montrose / KA2JAJ 441-10-4907 www.mmarc.org

tinyurl.com/mayorapshirts

To all exams bring:

- Photo 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)**

Please check W3VPR.ORG for VE Testing Schedule

Amateur Radio Gearing Up for Predicted "Above Average" Atlantic Hurricane Season

Long-range forecasts for the 2020 Atlantic Basin hurricane season, which begins on June 1 and extends until November 30, anticipate above-normal activity. The National Hurricane Center (NHC) 2020 outlook calls for a season about 140% more active than average, with four Category 3 to Category 5 hurricanes. The 2019 season saw three major hurricanes (out of six).

"The above-average prediction is largely due to the hot Atlantic and Caribbean waters and lack of a substantial El Niño in the Pacific," the NHC explained,



noting that the combination of a busy hurricane season and the ongoing COVID-19 pandemic could create a nightmare scenario for affected areas. FEMA and local emergency management agencies are already issuing COVID-19 guidelines for hurricane shelters, which include face masks and social distancing.

The NHC Annual Station Test -- to check readiness of amateur radio stations and operators -- takes place on Saturday, May 30, 1300 - 2100 UTC. The NHC's [WX4NHC](#) will be on the air, marking its 40th year of public service at the NHC. Julio Ripoll, WD4R, the Assistant Amateur Radio Coordinator at the NHC, said the event offers an opportunity for radio amateurs worldwide to exercise the sorts of communications available during severe weather. "We will be making brief contacts on many frequencies and modes, exchanging signal reports and basic weather data -- sunny, rain, temperature, etc.) with any station in any location," Ripoll said.

Operation will be on HF, VHF, UHF, APRS, and Winlink. WX4NHC will center its activity on the Hurricane Watch Net (HWN) frequencies of 14.325 MHz and 7.268 MHz, depending on propagation, but will operate elsewhere as conditions dictate. WX4NHC will also operate on the [VoIP Hurricane Net](#) from 2000 until 2100 UTC.

Dr. Philip J. Klotzbach *et al* of the Colorado State University (CSU) Department of Atmospheric Science cite a variety of factors that led them to conclude this hurricane season could get serious. Pointing to the "somewhat above normal" tropical Atlantic sea-surface temperatures, the scientists estimate "about eight hurricanes," four of them major, during the 2020 season.

"I must say, I'm not liking what I'm seeing," reacted Hurricane Watch Net Manager Bobby Graves, KB5HAV, pointing to additional extended forecasts posted by Tropical Storm Risk (TSR), the University of Arizona, and



North Carolina State University. The TSR forecast calls for three major hurricanes, while the University of Arizona and North Carolina State predict between three and five major hurricanes.

"Since 2014, the Hurricane Watch Net has been very busy," Graves told ARRL. "We've had 20 net activations for 19 hurricanes and one tropical storm. Since 2015, we've worked nine major land-falling hurricanes, including four land-falling Category 5 storms."

Graves pointed out that the past six hurricane seasons not only were busy and historic but very deadly, and he's hoping the 2020 hurricane season will not turn in a repeat performance.

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A Pre-Hurricane Season Exercise Was Carried Out On May 16

A pre-hurricane season exercise was carried out on May 16 for radio amateurs and the National Weather Service (NWS) in the southeastern US. The scenario was a

Category 3 - 4 storm making landfall at Panama City on Florida's panhandle, and moving through Alabama and Georgia. The Tallahassee NWS Office asked amateur



radio operators for weather and storm damage reports. Exercise nets opened on HF and on a VHF repeater (HF turned out to be a disappointment), with stations using Winlink for reporting. Stations' weather observations were submitted to the NWS via the nets using the *NWSChat* utility. The Atlantic Hurricane Season starts on June 1. -- *Thanks to The ARRL ARES E-Letter*

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Global COVID-19 Radio Event Set for June 6 - 7

Stations bearing call signs that promote the "stay-at-home" message and the value of social distancing and isolation have sprung up during the COVID-19 pandemic,



with some 150,000 messages of support shared around the world. An [on-air gathering](#) over the June 6 - 7 weekend will offer a further opportunity for stay-at-home stations and radio amateurs to share greetings in a contest-like

framework, looking toward the day that restrictions will ease, eventually making the stay-at-home injunction obsolete. The patron of the STAYHOME radio [campaign](#) is

Finland's Foreign Minister Pekka Haavisto, and the worldwide activity has the endorsement of International Amateur Radio Union (IARU) President Tim Ellam, VE6SH/G4HUA, and the United Nations Amateur Radio Club.

"Amateur radio operators across the world are experiencing something we have never seen before, with the current COVID-19 pandemic," Ellam said. "In times like this, on-the-air activities can benefit our communities and ourselves. Events such as this are important to improve operating skills. It is also encouraging us to get on the air and keep active, as well as promoting social distancing." Ellam expressed thanks to the national regulators in more than three dozen countries that made special stay-at-home-suffix call signs available for amateur use.

Sponsoring the event and campaign are the Finnish Amateur Radio League (SRAL), in cooperation with Araucaria DX Group (ADXG) of Brazil, and Radio Arcala (OH8X) in Finland.

UN Amateur Radio Club President James Sarte, K2QI, has said that 4U1UN will be on the air to support of the global STAY HOME movement, as will sister stations 4U1GSC (operated as 4U9STAYHOME) and 4U1A (operated as 4U2STAYHOME).

Special event station W2I/STAYHOME, helmed by Ria Jairam, N2RJ, and Peter Dougherty, W2IRT, will also be on the air, operating CW, SSB, and FT8 simultaneously. (Jairam is ARRL Hudson Division Director.)

The STAYHOME event gets under way at 1000 UTC on Saturday, June 6, concluding 24 hours later. Bands will include 80, 40, 20, 15, and 10 meters, with CW, SSB, and digital (FT4/FT8 only). Exchange is a signal report and operator age, except for FT4/FT8 reports. Awards and certificates in the various operating categories will be available. [Email](#) for more information.

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Planning Your ARRL Field Day 2020 Operation

For most of us, ARRL [Field Day](#) 2020 is going to look quite different than it has in past years. Considering the impact of social distancing due to the COVID-19 pandemic,

many radio clubs and large groups will not be gathering in their usual Field Day locations this year. Here are some tips and suggestions to help participate

in amateur radio's largest annual on-air event under these unusual circumstances.

Don't Forget 6 Meters

Field Day is a non-adjudicated operating event



and not a "full speed ahead" contest. It is also not just an HF event. All amateur radio bands above 50 MHz may be used during the event too.

This includes 6 meters, which often offers significant propagation enhancements around the time of Field Day weekend. The band is available to amateurs holding a Technician-class license or higher. If you have an HF/VHF/UHF multi-mode transceiver, try making SSB, CW, or digital contacts on 6 meters. Even a simple vertical or dipole will allow you to experience the "magic band."

Activities for Techs

One suggestion for clubs to consider in order to increase participation among their Technician-class members is to schedule specific times when these club members will monitor designated VHF and UHF simplex frequencies for Field Day activity. (Avoid published national FM simplex calling frequencies; repeaters are prohibited for Field Day contacts.) This way, members having equipment capable of VHF/UHF-only operation may be able to participate from home or a vehicle. Clubs can choose a list of frequencies and schedule times in advance.

On HF, Technician-class licensees have CW privileges on 80, 40, and 15 meters, as well as RTTY/data and SSB phone privileges on 10 meters. If you aren't a CW operator, try calling CQ on 10-meter SSB in the late afternoon and early evening on Saturday to see if conditions are favorable for long-distance communications. Try experimenting with a simple wire antenna for 10 meters. You might discover that the band can offer plenty of unexpected propagation.

Set Up for Digital Modes

You might want to explore using FT4/FT8 (or other) digital modes on 10 meters, 6 meters, or even on VHF/UHF. These modes offer an opportunity to make weak-signal contacts when band conditions often do not support voice communication. There have been reports of some great 6-meter openings in recent weeks, and these are likely to occur more frequently as summer approaches.

Setup is relatively straightforward. You'll need a computer and a digital interface to connect the radio to the computer, and you'll need to download one of the digital mode software packages, such as the free [WSJT-X](#) suite, which incorporates FT8 and FT4. Software should support the ARRL Field Day exchange ([WSJT-X](#) version 2.0 or later, for example).

ARRL [Field Day](#) rules place a premium on "developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of amateur radio." Field Day 2020 is June 27 - 28.

The Excitement of Ham Satellites

Another area to explore is satellite operation. Many hams have had success making contacts via the FM satellites with just a VHF/UHF handheld radio and a small handheld directional antenna. You'll need a multi-mode VHF/UHF transceiver for the linear (SSB and CW) satellites. To determine when a satellite will be making a

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.