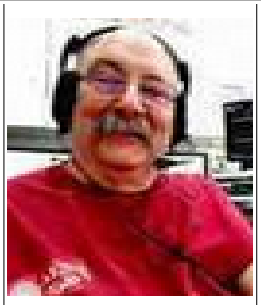
The Ham Arundel News

Providing Fellowship and Community Service through Amateur Radio Since 1951

February 2020 **41st Year of Publication**



Keith Miller, AE3D

The Prez Sez

Over the last two weekends of February, we had a good chance to determine the readiness of our Ham Shack for real operation. In short, it is not even close!

The contests, however, were far from being a failure. We made decent numbers of contacts in both the ARRL January VHF contest, and Winter Field Day. Everyone who wanted to operate had a chance to do so, and a host of other hams dropped by to visit, a few of whom were checking to see if we were the kind of club they'd like to be part of. Socially these were two great weekends for the Anne Arundel Radio Club. If you showed up, likely you had a good time, which is what really counts.

In the stuff of lesser import, we fell flat in two places. First we had persistent logging problems. N1MM Logger+ was getting locked in digital mode, and the only way to return to phone, was to stop and restart the program requiring a password only known to our Networking Team, who then must be present to enter it.

Further there was some confusion as to modes allowed in the ARRL January VHF event. The rules said as a Single Op station you could either enter using *FM* only, or use a combination of *SSB, CW and Digital*. But we weren't Single Op, we were Limited Multioperator, so we expected to use all 4 modes. However N1MM would only allow us to choose between *FM* or *SSB, CW and Digital*, so we couldn't use any of our FM contacts. The end result is that I emailed the ARRL to get some rule clarification, and I doubt we will hear back in time to make a legal entry. Oh well. It was fun.

By the following weekend and Winter Field Day we knew of the problems with N1MM and getting back into phone mode, but assumed it was just in the ARRL January VHF configuration. I was wrong. Not the last time I'll bet.

Please let me interject here that our Networking Team Leader has a day job, and I have many other club duties to attend to. I tried to work on it some Tuesday but that was it.

So we went into Winter Field Day knowing we might have a problem, and we did. For the January VHF Contest we were limited to one station because we had only one VHF/UHF antenna. This time we were going to enter Winter Field Day with 4 HF stations, but only 2 working antennas. The Ham Shack Antenna Committee is working on new permanent antennas, not on temporary antennas, and the Winter Field Day committee was working on the proper paperwork, not antennas. And my time to fix Networking issues was split between those things and a host of other club business.

As a result, I spent Friday and Saturday morning trying to rush build a 9:1 balun so they could put up a 3rd HF antenna temporarily for the contest. I spent some of my time Saturday between several other issues and had little time to fix Networking and software. When Winter Field Day started, logging was an instant mess. I was at the club 10am till almost 6pm Saturday with essentially nothing to show for it. Sunday after the Hamfest I returned and tried to replace N1MM with N3FJP for the duration of the contest. Another 6 hours and we still had no working contest logging software. But Network Guru Ted Rudie (KC3LMV) kept working after I left. Where would we be without him?

Meanwhile Jim Wallace (N3ADF) and David Rawley (N3AT) constructed a temporary antenna and got the second OCF dipole working again. The OCF seemed to work OK, however the long wire results were less than exciting. Oh well. A yeoman effort for building an antenna 2 hours before a contest.

The bottom line is that, everyone had a great time. We played with ham radio and made some contacts. (OK, everyone but we made contacts.) The food was good and plentiful, and it was well worth the effort.

But, we need to get these problems fixed before we try another Ham Shack event. In the next month or two we should figure out the networking and software issues and have that part operational. 'Should' being the key word. While Networking fixes things, the Ham Shack Antenna Committee needs to draw and approve plan for a permanent antenna system. Then we need a PE to sign off on the plan, then permission and maybe permits from the County to erect another tower. I can't see us doing all this before July. But wait! Then we need coax bought and buried, antennas created and erected, and everything tested. So the sad news is, even if we rush, we will not be ready for the Maryland DC QSO Party this year. Sorry to be the bearer of bad news.

More and better temporary antennas need to be in place and tested before the Maryland DC QSO Party, and we will need everyone pulling the same direction if we want to be ready for November Sweeps from the club house. But we can do this! We are, after all, the Anne Arundel Radio Club!

73

Keith , AE3D

President

ARRL's New *On the Air* Magazine On Its Way to Members

The premiere issue of ARRL's *On the Air* magazine has left the printer and is on its way to member subscribers. The magazine should be in mailboxes within the next 10 days.

ARRL Emergency Preparedness Assistant Sabrina Jackson, KC1JMW, is featured on the cover of the premiere issue of On the Air magazine.

On the Air is the newest ARRL member benefit to help new licensees and beginner-to-intermediate radio communicators navigate the world of amateur radio. Eligible US-based members can elect to receive *On the Air* or *QST* magazine in print when they join or when they renew their ARRL membership.

Delivered six times a year, the magazine will present articles and tips on selecting equipment, building projects, and getting involved in emergency communication. *On the Air* will also spotlight the experiences of those involved in public service communication and casual operating.

All members will be able to access digital editions of *On the Air* magazine. The first digital issue of *On the Air* will be available beginning January 14, supported by a new version of ARRL's digital magazine app. With one app, members will be able to access *On the Air* and *QST*.

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ARRL *On the Air* Podcast Premieres January 16

ARRL's new *On the Air* podcast for those just getting started on their amateur radio journey will debut this Thursday, January 16, with a new episode posted each month. The podcast is a companion to the new bimonthly *On the Air* magazine, which is already on its way to member subscribers. *On the Air* magazine's Editorial Director Becky Schoenfeld, W1BXY, will be the host of the new podcast. Both the podcast and the magazine are aimed at offering new and beginner-to-intermediate-level radio amateurs a fresh approach to exploring radio communication.

Listeners can find the *On the Air* podcast at Blubrry, Apple iTunes (or by using your iPhone or iPad podcast app -- search for *On the Air*), and Stitcher (or through the free Stitcher app for iOS, Kindle, or Android devices). Episodes will be archived on the ARRL website.

Each *On the Air* podcast will take a deeper dive into the articles and issues raised in the magazine, including advice and insight on topics covering the range of amateur radio interests and activities: radio technology, operating, equipment, project building, and emergency communication.

Supplementing *On the Air* will be a new Facebook page for those who share a love of radio communication and are looking to learn and explore more about their interests.

The biweekly *Eclectic Tech* podcast for experienced radio amateurs will launch on February 13. Hosted by *QST* Editor Steve Ford, WB8IMY, *Eclectic Tech* will highlight topics involving amateur and non-amateur technology, offer brief interviews with individuals involved in projects of interest to amateurs, and include practical information of immediate benefit to today's hams. *Eclectic Tech* will be available via iTunes and Stitcher.

The *ARRL Mags* apps including *QST* and *On the Air* are now live on Apple iTunes and Google Play. The digital edition of *On the Air* magazine is also live and linked from the *On the Air* page on the ARRL website.

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Net Control Radio Operators

ARE NEEDED for the HOLLY NET

during the work-weekdays -

from 0700 to 0900 am.

Contact: Jim Wallace, N3ADF

Strong Earthquake Shakes Puerto Rico; Generating Capacity Severely Compromised

ARRL Puerto Rico Section Manager Oscar Resto, KP4RF, says small tremors continue on the island in the wake of the 6.4 magnitude earthquake that struck the southwestern part of the island on January 7. A magnitude 5.8 quake struck a day earlier. The Puerto Rico Electric Power Authority (PREPA) reported widespread power outages after generating plants automatically activated protective shutdown systems following the earthquake. But Resto told ARRL this week that considerable generating capacity was lost due to

earthquake damage, and that it will take at least several days before replacement units can be brought back on line. Only about 20% of the island has electric power at this point, he estimated.

"We have a shortage of about 1,100 megawatts of power," Resto told ARRL. "We normally need about 2,000 megawatts for the island."

Resto cited the largely operational telecommunications network as the reason why no Amateur Radio Emergency Service (ARES) activations have been necessary. "We have cell phones all over the island working," he said. Resto told ARRL that he's been working up a list of ready and resilient amateur radio volunteers who would be able to muster if needed to assist the American Red Cross, with which Puerto Rico ARES has a memorandum of understanding. "We are in continuous communication with the ARC in case we're needed."

Resto stressed that he wants to avoid situations where volunteers activate only to be told they're not needed.

The worst-impacted cities were Guayanilla, Peñuelas, Yauco, and Guánica. Resto said engineers have determined that 80% of the houses in the earthquake's impact zone are uninhabitable. Residents are sleeping outdoors, Resto said.

Puerto Rico Section Public Information Officer Angel Santana, WP3GW, told ARRL that VHF and UHF repeaters with emergency power have carried reports of power and water outages, the continuing aftershocks, and other information on an informal basis. Bottled water and canned food have been in high demand, he said. Santana said the PREMA Emergency Operations Center (EOC) has been activated.

Resto earlier this week called the situation "scary, with houses, schools, and roads collapsing." At least one death has resulted from the earthquake. He said the earthquake disaster definitely was a setback for the US territory as it continues its long recovery from severe hurricane damage in 2017. But, he added, the restored telecommunications infrastructure is more robust, to minimize damage in future disasters.

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Puerto Rico Volunteers Deployed to Red Cross, ARRL Sending Equipment

Puerto Rico Section Manager Oscar Resto, KP4RF, reports that several Amateur Radio Emergency Service (ARES) volunteers have been deployed to earthquake-ravaged regions of the island at the request of the American Red Cross. Initial operations got under way in the town of Yauco, where the Red Cross has a central warehouse for the earthquake relief effort. Operations are on VHF and UHF, although commercial telecommunication services remain in operation for the most part. A station has also been activated at the Red Cross Headquarters in the capital of San Juan, which is not in the earthquake zone. Aftershocks continue on the island. A magnitude 5.9 tremor struck over the weekend.

“The stations are operating as a backbone, in case a new or stronger earthquake hits the region,” Resto explained. “HF equipment is stored in Pelican Cases for protection from a larger catastrophic event, if communications fail.” Power has been re-established over more than 90% of Puerto Rico, and water service is operational in most places, Resto added.

ARRL is shipping six VHF/UHF base/repeater antennas and six 50-foot rolls of LMR-400 coax, through the **Ham Aid Fund**.

Since January 12, the ARES Zone 5 amateur radio volunteers have been handling health-and-welfare traffic from the earthquake zone, reports Yauco ARES District Emergency Coordinator Heriberto Perez, WP4ZZ, who said internet service has been slow. He said the Red Cross has been providing food and drinks for the volunteers. Operations are running from 9 AM until 5 PM each day.

“Today was a bit of a rough day,” Perez said on Saturday. “Many quakes during the day. It feels like you’re in a simulator.” He said the three-person team is using UHF for direct contact with San Juan, with a backup support frequency on VHF, and communication has been solid.

“During the course of the day, we began to handle health-and-welfare traffic from nearby victims,” he said. “We are now reaching out to affected communities asking for tents for the community [as well as] diapers or medicine, and many other requests. We also initiated food collection in our community.”

Perez said an HF radio was to be on site for backup on 20 and 40 meters. Power to the distribution center is 40% from the power utility and 60% from generators.

Resto said over the weekend that he’d been told that the Red Cross was relocating the disaster relief operation to Mayagüez, which is a much closer site to the initial impact area, and ARES will provide communication support at the new site.

“A personal comment,” Resto added. “[It] is very difficult to sleep with so many earthquakes — more than 3,000 from December 28 — shaking your house. I hope that my house survives these intense seismic events.”

A 6.4 magnitude earthquake struck the southwestern part of Puerto Rico on January 7, fast on the heels of a magnitude 5.8 tremor the day before. The worst-impacted cities were Guayanilla, Peñuelas, Yauco, and Guánica, where, Resto said, engineers have determined that 80% of the houses in the earthquake’s impact zone are uninhabitable.

Resto told ARRL last week that the earthquake disaster has definitely been a setback for the US territory as it continues its long recovery from severe hurricane damage in 2017.

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Puerto Rico Earthquake Relief Effort Continues, with Help from Ham Radio

In Puerto Rico, Amateur Radio Emergency Service (ARES) volunteers continue to operate from the American Red Cross distribution center in Yauco -- one of the towns hit the hardest by the recent earthquakes and ongoing aftershocks on the island. The Red Cross requested assistance last week to identify undeclared refugee camps and to report on closed or damaged roadways and bridges. ARES District 5.

Volunteers Eduardo Hernandez, WP4RAF (left), and Herb Perez, WP4ZZ. [Photo courtesy of Oscar Resto, KP4RF]

Emergency Coordinator Herb Perez, WP4ZZ, who is among those volunteering for the Red Cross at Yauco, reported on January 14 that he, Melvin Velazquez, WP4RAP, and Yolanda Garcia, WP4QZF, were on duty there.

"Today, we were able to occupy our space with no major incident other than the usual shaking of the entire structure. More than 10 per hour," Perez said. "One of our members, Jared Martinez, KP4LCO, was able to search near his hometown of Lajas and was able to locate more than 10 unidentified campsites around the area." Perez said such reports enable the Red Cross to provide necessary assistance to those left homeless as a result of the earthquakes.

Perez said volunteers were able to collect food from a church-run food pantry in Sabana Grande for isolated communities in the mountain region. He said local members of the General Mobile Radio Service (GMRS) and Citizens Band radio communities have been pitching in.

Puerto Rico Section Manager Oscar Resto, KP4RF, installs an antenna at Red Cross Headquarters in San Juan.

Operations from Yauco have been on VHF and UHF, although commercial telecommunication services remain in operation for the most part. Another station has been established at the Red Cross Headquarters in the capital of San Juan, which is not in the earthquake zone. Puerto Rico Section Manager Oscar Resto, KP4RF, said the stations are operating as a backbone, in the event of new or stronger earthquakes. HF equipment has been safely stowed if communications fail, Resto said. Most of Puerto Rico now has power and water.

ARRL is shipping six VHF/UHF base/repeater antennas and six 50-foot rolls of LMR-400 coax through the Ham Aid Fund. Resto said a new Red Cross warehouse will be placed in Mayagüez, where he will install a third station for backbone communication. "That is the reason for the new antennas," he said. "We already have the radios. In case we need to escalate to HF, we are ready with ARRL go-kits from Hurricane Maria."

A lot of seismic activity was reported on January 15. "Many more or less 3.1 quakes were felt during the day," Perez said. That included a magnitude 5.1 temblor that shook the facilities.

The ARES team in Yauco has also been handling health-and-welfare traffic from the earthquake zone. Operations are running from 9 AM until 5 PM each day.

A magnitude 6.4 earthquake struck the southwestern part of Puerto Rico on January 7, fast on the heels of a magnitude 5.8 tremor the day before. The worst-impacted cities were Guayanilla, Peñuelas, Yauco, and Guánica, where most homes are no longer habitable.

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The ARRL Events App

The ARRL Events app is available to use with Apple iOS and Android devices. A web-browser version, optimized for most browsers and other types of mobile devices, is also available. ARRL Events will be featured at Orlando HamCation 2020, February 7 - 9, which has been sanctioned as the 2020 ARRL Northern Florida Section Convention.

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The Perseverance DX Group VP8PJ

The Perseverance DX Group VP8PJ DXpedition to South Orkney has received permission from the National Science Foundation to land and camp on the Antarctic island. Receipt of the Antarctic Conservation Act Permit culminates a months-long approval process involving several governmental agencies. VP8PJ is expected to commence operation on February 20 and continue until March 5. The DXpedition's equipment container arrived by sea in Punta Arenas, Chile, on January 13, and the MV *Braveheart* will transport the operating team and the gear from there to the South Orkneys and back. Set-up on the island is expected to take 2 days. Contact the DXpedition for more information.

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Club Sale & Auction	Ike Lawton / W3IKE club.sale@w3vpr.org	
Club Picnic	Jim Myrick / W3JLM picnic@w3vpr.org	
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Field Day	Brian Mary / K3HMX field.day@w3vpr.org	
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Newsletter	Milford Craig / N3WYG newsletter@w3vpr.org	301 218 8867
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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

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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 Creel, 301-572-5124

Fourth Tuesday of each month – 6PM – MMARC – Mike Montrose / KA2JAI 443-310-4907 web site is 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 .

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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The Lagunaria DX Group

The Lagunaria DX Group is planning a "large-scale DXpedition" to Timor-Leste (4W) in the October/November 2020 timeframe.

"We currently have one team member in Timor-Leste negotiating with different ministries, companies, and accommodation facilities," said team member Chris Janssen, DL1MGB. "Right now, we have positive feedback from all. We even already have a confirmed reservation for two close-by lodges to have enough space to host up to 10 stations." Janssen said the team will consist of 18 operators and will participate seriously in both CQ World Wide DX contests this fall. Additional details will be available soon on the DXpedition website. Timor-Leste is the 67th most-wanted DXCC entity, according to Club Log. -- *Thanks to* The Daily DX
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Massachusetts Club Offers Support to Arecibo Observatory Following Earthquakes

Although not in the hardest-hit earthquake zone, Puerto Rico's Arecibo Observatory nonetheless has been affected by the recent spate of earthquakes and aftershocks. The landmark Arecibo radio telescope and ionospheric radar facility was a victim of the devastation wrought by Hurricane Maria in 2017.

Members of the Nashoba Valley Amateur Radio Club (NVARC) have stepped up to assist in support and recovery efforts for the Arecibo Observatory radio telescope and ionospheric radar facility. NVARC members Phil Erickson, W1PJE; Rod Hersh, WA1TAC, and Jim Wilber, AB1WQ, participated in daily scheduled radio contacts with Arecibo's lead telescope operator and spectrum manager, Angel Vazquez, WP3R. Other NVARC members volunteered to serve as back-up stations.

"All AO staff members are safe, and our technical teams have completed preliminary visual analysis of the primary structure and have found no immediate damage/issues, however a more detailed inspection needs to be completed once the aftershocks subside," said Francisco Córdova, Arecibo Observatory's director, at the University of Central Florida.

Site operations were suspended and access was limited to essential personnel, according to the latest information available from the Arecibo Observatory website.

Over several days, when commercial power and water were not available near Arecibo, club members inquired about potential assistance. Although conditions are slowly improving on the northern portion of the island where the observatory is located, Vazquez noted that thousands of people displaced from their homes in the hard-hit southern part of the island had to camp outside, due to extensive structural damage and ongoing aftershocks.

NVARC members were also able to provide messages of support from MIT's Haystack Observatory in Westford, Massachusetts, and from program officers at the National Science Foundation (NSF) Geospace Facilities Division in Washington, DC. NSF funds the observation programs and scientific research at Arecibo Observatory. NVARC said the radio contacts would continue as the recovery proceeds.

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Winlink Development Team Members Awarded Tennessee Military Department Patriot Medals

In a recent ceremony, two Winlink development team members were awarded the Military Department of Tennessee Adjutant General's Distinguished Patriot Medal. Steve Waterman, K4CJX, was awarded the Medal "for his distinguished patriotic service as the Winlink Network Administrator," citing his "vision, hard work, and dedication to emergency communication contributed significantly to the disaster readiness and communications interoperability of the emergency responders across the United States and the world." The citation concluded with "His efforts reflect great credit upon himself, the Amateur Radio Safety Foundation, and the State of Tennessee."

Waterman (second from left) and Sherrod (third from left), receive their medals from the Military Department of Tennessee. (photo courtesy K4CJX)

Phil Sherrod, W4PHS, was awarded the Medal "for his distinguished patriotic service as the lead developer for Winlink," with "technical skill, hard work, and dedication to emergency communication contributed significantly to the disaster readiness and communications interoperability of the emergency responders across the United States and the world."

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Australian Bushfires Causing Major Telecommunication Outages, Hams on Duty

Wireless Institute of Australia (WIA) President Greg Kelly, VK2GPK, says the bushfires in Australia have caused significant disruption of telecommunication services in the states of Victoria and New South Wales. Radio amateurs are supporting relief operations and communication.

WICEN (Wireless Institute Civil Emergency Network) in New South Wales reports it has been active assisting in a number of multi-agency activities during the bushfire emergency, in its role as a support squad of the NSW Volunteer Rescue Association (VRA) operations center in Bega. WICEN teams in NSW and in the Australian Capital Territory (ACT) have sent a team to Bega to help re-establish radio

communication services, disrupted by fire activity.

WICEN and other VRA squads continue to support the Rural Fire Service (RFS) at various Fire Control Centers and the Bushfire Information Line. Other WICEN members remain active with the RFS and the State Emergency Service.

Kelley has asked radio amateurs in International Amateur Radio Union (IARU) Region 3 to monitor the emergency communications frequencies, per the IARU Region 3 band plan, whenever possible, as well as repeaters. "Amateurs seeking to establish emergency communication should use these EMCOMM frequencies in the first instance, or repeaters if available," he said in a statement posted on the IARU Region 3 website.

"Radio amateurs who are volunteers for [WICEN and other emergency communication organizations] should keep themselves updated," Kelley advised. "Emergency communication is one of the main reasons radio amateurs have access to RF spectrum. Please assist if and when you can."

The IARU Region 3 emergency "center of activity" frequencies are 3.600, 7.110, 14.300, 18.160, and 21.360 MHz. These are not net frequencies, but they are recommended as starting points for emergency traffic, and activity may extend 5 kHz above or below the designated center frequency.

South of NSW in the state of Victoria, WICEN VIC reports that the amateur repeater network is largely off the air, possibly due to a lack of power. "Some sites may have been directly affected by fire," WICEN VIC said on January 4. "It could be some weeks until the sites can be reached for inspection."

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FEMA Updates Community Emergency Response Team Training

FEMA conducted a webinar on January 8 on the release of the updated Community Emergency Response Team (CERT) Basic training curriculum. Presenters shared the reasons for the changes, highlighted best practices, and shared impacts of the updated training. Participants learned how trainers can deliver the updated training and how to order materials. This was the second of two webinars about the updated CERT Basic training curriculum, though the webinars presented similar information. Recordings of the webinars can be found here.

The Community Emergency Response Team (CERT) program educates volunteers about disaster preparedness for the hazards that may impact their area and trains them in basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. CERT offers a consistent, nationwide approach to volunteer training and organization that professional responders can rely on during disaster situations, allowing them to focus on more complex tasks.

The updated CERT Basic Training can be found here. It features a revised Disaster Medical Operations section, updated Terrorism and CERT section, and new hazard-specific annexes. Find the new curriculum materials online and order free copies from the FEMA publications warehouse beginning January 8, 2020. The CERT Basic Training includes research-validated guidance for CERT programs to teach members what to do before, during, and after the hazards their communities may face. The materials in the training include instructor guides, participant manuals, and hazard annex slide decks. The FEMA Independent Study IS-317: Introduction to CERT can be taken online before or during training.

[ARRL is an affiliate under the Department of Homeland Security's Citizen Corps programs--Neighborhood Watch, Volunteers in Police Service, Community Emergency Response Teams and Medical Reserve Corps. The mission is public preparedness and safety. In other words, neighborhood and community volunteers serve as the "help until the help arrives." Radio amateurs are ideal candidates for the CERT program owing to their unique ability to communicate within their neighborhoods and communities for local emergency communications, but also when the need exists for communications with the outside world. Find your local CERT group and get connected. - *ed.*]

Used with permission The ARES E-Letter for January 15, 2020

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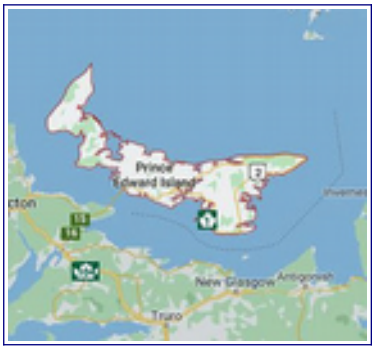
Radio Amateurs of Canada Announces a New Section

The number of Sections needed for a clean sweep in the ARRL November Sweepstakes (SS) will rise to 84 in 2020, with the addition of a new Prince Edward Island (PE) Section. Radio Amateurs of Canada (RAC) has announced that the new Section will become effective on April 1.



Prince Edward Island has been in the Maritimes (MAR) Section. RAC said its Prince Edward Island members have been working for some time to create a separate Section for RAC ARES activities there. The provinces of Nova Scotia and New Brunswick will remain in the Maritimes Section.

In addition to Field Day and Sweepstakes, the new Section in Canada will affect the ARRL 160-Meter Contest but *not* the ARRL 10-Meter Contest, which uses individual states/provinces for US and Canadian multipliers. The change will mean that logging software developers will have to update their software to include the PE Section as a valid exchange element for any affected operating events.

RAC also announced an adjustment in two of its Ontario Sections. Effective April 1, radio amateurs in the City of Hamilton and in the Regional Municipality of Niagara will shift to the Greater Toronto Area (GTA) Section from the Ontario South (ONS) Section.

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The Ham Strings Net – Connecting Musicians and Amateur Operators

Mission:

Globally unite and connect musicians and amateur radio operators.

History:

In April of 2019 I was having a round-table QSO with a few other amateur radio operators on 40 meters 7.223 MHz After a few minutes of discussion, another radio operator had asked me about my vanity call sign, W3GTR. I had explained the GTR represented "Guitar" as I am a guitarist and guitar collector. After more discussion, we learned the entire group of us were musicians in one form or another, which I thought was interestingly coincidental.

We began to meet frequently—a few times a week on the same frequency and the number of musicians or those who had a deep appreciation for music grew. I decided I'd like to create a NET for this gathering. Most nets on ham radio focus on making contacts for awards, weather reporting, or are ham radio related. I wanted to create a net where musicians could meet, share their experiences, talk gear and rigs, offer tips, discuss latest gear and how it worked for them, and discuss latest concerts they had attended.

We kicked around a few possible names for the net and it was W8EDW Edward Whitney's wife who had suggested the name **The Ham Strings**. We all agreed it was a great name and ran with it. Ham Strings Net went live beginning of May of 2019. In January of 2020, Scott W3GTR was interviewed by Amateur Radio Newsline and the story/podcast went live on Friday, January 24, 2020 and can be located here: https://www.arnewsline.org/news/2020/1/23/amateur-radio-newsline-report-2204-for-friday-january-24th-2020

About:

The Ham Strings Net established in May of 2019 is a group of amateur radio operators who share the love of both music and amateur radio alike. Ham Strings members are a diverse group ranging from hobby musicians, working musicians, studio session players, sound/recording engineers, instrument luthiers, music store owners, or those who just love music and attend concerts and live music events.

We often talk about the latest gears, instrument repairs and modifications or latest concerts we have attended.

The Ham Strings Net congregates on 40 meters 7.223 MHz +/- on Monday evenings from 8:30pm to 10:00pm EST (01:30 - 03:00 UTC / Zulu time). The Ham Strings Net utilizes Netlogger to both keep us organized in a round-table format with check-ins as we reach the bottom of the list with each go-around. Netlogger can be downloaded from https://www.netlogger.org/ No membership is required but I do issue Ham Strings member numbers (on the air only) should a radio operator like to join the group. We look forward to welcoming all licensed radio amateurs who have a deep love and appreciation for music.

For additional information on the Ham Strings Net, radio amateurs with a call sign may request access to our Facebook group located at:
https://www.facebook.com/groups/TheHamStringsNet/

Scott DeMatteo
W3GTR

^^

The Trustee and W3VPR

FYI: Each and every person who is a Control Operator during a contest event at the Anne Arundel Radio Club needs to be authorized by the Trustee to use the W3VPR call sign during that contest event. You are a Control Operator if you operate any station within the bounds of your class of license. This authorization should be in writing, stating the period for which the authorization is granted.

Since Dick Maio, our Trustee, can not be present at every event to know who shows up to operate, he appoints Primary Control Operators, to grant such authorizations on his behalf.

So during any Ham Shack operating session, where the call sign W3VPR is used, we need to know who provided the authorization for each Control Operator to use the call sign of W3VPR.

Non-hams or under-licensed hams may still Operate a station under the direct supervision of any Control Operator. In that case the Control Operator should be logged-on, and should list the names (and calls if applicable) of those who actually operated the station in supplemental paperwork.

Therefore any time you are operating using the call sign W3VPR and you are within the bounds of your class of amateur radio license, you are a Control Operator, requiring authorization from the Trustee, Dick Maio (WW3R) or a Primary Control Operator appointed by that Trustee. You must also sign on to the station's log as Control Operator. If you fail to do so you are operating illegally.

Finally if you wish to operate above your class of license, and you can locate an individual who has been authorized as a Control Operator using the W3VPR call sign, who is above your class of license, and who is willing to act as Control Operator of the station you plan to operate, and to remain present and supervise your transmissions, then you may operate up to the level of that Control Operator's license provided they log on to that station as Control Operator.

73
Keith, AE3D
President

^^

Intergovernmental Advisory Committee to the FCC Files Recommendation, Reports on Amateur Radio Disaster Communications Capability

The Intergovernmental Advisory Committee to the FCC filed Advisory Recommendation No: 2019-3 in the *Matter of Intergovernmental Disaster Response Coordination*, which included a discussion of the Amateur Radio service. [See below for excerpts]. The mission of the Intergovernmental Advisory Committee is to provide aid to the Commission on the many telecommunications issues affecting local, state and Tribal governments that are within the jurisdiction of the FCC. The IAC is composed of elected officials of municipal, county, state, and Tribal governments.

From the filing: "One of the mainstays for many decades in disaster communications in a recovery has been the use of amateur radio operators, often referred to as ham operators. Ham radio's ability to operate when other telecommunications systems cannot is critical to understand in this discussion . . . Generally, amateur radio operators assist when other means of communications are down or overloaded. Ham radio resources are available for emergency communications support to any public service agency and can bridge interoperability gaps between agencies on a local, Tribal, and/or state level. Potential ham deployment locations include, but are not limited to, auxiliary command posts, emergency operations centers, emergency shelters, evacuation sites, fire stations, medical facilities, mobile disaster vehicles, police stations, public works sites, and volunteer intake centers. They can also be deployed to provide links to: Create communications links between similar agencies across political boundaries, especially where there are misalignments in frequency bands and modes; Establish communications in locations outside the existing coverage areas of public service and commercial communications systems; "Shadow" critical public officials and emergency management personnel to facilitate constant and rapid contact; Monitor critical infrastructure (such as highways and bridges) and provide periodic situation reports; Staff operation posts (river levels, flooding, damaged areas) and provide periodic situation reports; Every hospital has a ham radio station on premises and there are volunteer hams ready to operate (they are generally not hospital employees). These systems are tested on a very regular basis. A typical emergency activity might be identifying which hospitals have the available capacity to accept the injured after an event.

"Another overlooked ham application is continuing communications support after an event. An example of this would be after a hurricane has blown through and fires are out etc. There is still no power or phone service. Hams have provided on-going coordination to families outside the disaster area.

"As a communications provider, ham radio falls under the Emergency Support Function #2 umbrella. Planning for a 'when all else fails' communications scenario is essential for all jurisdictions."

[View the entire report at https://docs.fcc.gov/public/attachments/DOC-360696A4.pdf. It's worth your time. - ed.]

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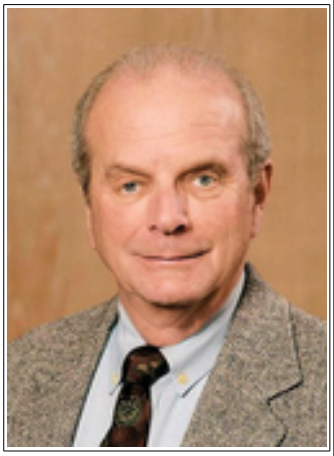
Volunteer Monitor Program Coordinator Looks Forward to a Positive 2020

In a holiday season message to ARRL leadership and to members of the new ARRL Volunteer Monitor (VM) program, its coordinator, Riley Hollingsworth, K4ZDH, expressed his gratitude to all involved for their contributions to getting the program off to a solid start in January.

"It will be a good year," Hollingsworth said. "We will have fun, you will enjoy it more than you probably think, and -- thanks to the talent and generosity of one of our VMs -- a computer program will make your reporting *much* easier (there will be no need for bi-monthly reports!)," he wrote. "This is our opportunity to help amateur radio last another hundred years and to pay forward this wonderful avocation that joyfully occupies our lives. This could be our legacy if we do it with all the energy and devotion that characterized the Official Observer (OO) program for decades."



Hollingsworth said the success of the OO program convinced the FCC to trust ARRL with the responsibilities now to be taken up by the Volunteer Monitor program. "Those of you who are former OOs have an extra reason to be proud, and amateur radio is grateful to you more than you will ever know," Hollingsworth concluded. "Thank you. It will be a privilege to work with you this new year."

Approved by the ARRL Board of Directors in 2018, the Volunteer Monitor program supplants the venerable OO program. The VM program represents a formal agreement between the FCC and ARRL in which volunteers trained and vetted by ARRL will monitor the airwaves and collect evidence that can be used to correct misconduct. The program also will recognize exemplary on-air operation, something not done during the OO program. Cases of flagrant violations will be referred to the FCC by ARRL for action in accordance with FCC guidelines.

The FCC proposed the new program in the wake of several FCC regional office closures and a reduction in field staff. It will give enforcement priority to cases developed by the Volunteer Monitor program without ARRL's having to refer cases through the FCC online complaint process.

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ARISS Next-Generation Radio System Ready for Launch to Space Station

Amateur Radio on the International Space Station (ARISS) reports that its first Interoperable Radio System (IORS) flight unit -- serial number 1001 -- has been delivered to NASA's Johnson Space Center for launch in early March. The IORS represents the first major upgrade in ARISS equipment on the International Space Station since Amateur Radio gained a permanent presence onboard the ISS in 2000. In December, ARISS received approval from NASA Safety to launch the IORS on SpaceX CRS-20 and stow the radio system on the ISS for future installation.

"The IORS is a foundational element of the ARISS next-generation radio system and is an incredible engineering achievement by the ARISS hardware team," ARISS International President Frank Bauer, KA3HDO, said. "This first element delivery will support easier radio mode transitions and enable new, exciting capabilities for hams, students, and the general public."

The new system includes a higher-power radio, an enhanced voice repeater, and updated digital packet radio (APRS) and slow-scan television (SSTV) capabilities for both the US and Russian space station segments. The IORS consists of a custom-modified JVC Kenwood TM-D710GA transceiver, an AMSAT-developed multi-voltage power supply, and interconnecting cables.

The IORS set to launch in March will be installed in the ISS *Columbus* module; a second flight unit is expected to be launched later this year for installation in the Russian *Service* module. The ARISS hardware team will assemble four flight units -- and 10 IORS units in all -- to support onboard flight operations, training, operations planning, and hardware testing.

ARISS International President Frank Bauer, KA3HDO.

"Future upgrades and enhancements to the next-generation system are in various stages of design and development," Bauer said. "These include a repaired Ham Video system -- currently planned for launch in mid-to-late 2020, L-band (uplink) repeater, ground command operations capability, LimeSDR signal reception, a microwave 'Ham Communicator,' and Lunar Gateway prototype experiment."

Bauer said a lot of "heavy lifting" remains to prepare the IORS for operation on the space station. "ARISS has 92 engineering requirements and our operations Phase III safety review to complete," he explained. "The space agencies take a position of 'trust, but verify.' Thus, these engineering and safety 'verifications' all need to be closed out before the IORS can be unstowed and turned on. This will be the ARISS hardware team's focus over the next few months."

Bauer reminded that ARISS is almost entirely run by volunteers and encouraged donations for next-generation hardware developments, operations, education, and administrative functions.

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US Air Force Space Fence Nearing Operational Acceptance

According to NASA's most recent *Orbital Debris Quarterly News*, the space agency calculates about 17.6 million pounds of objects are in earth orbit, a number that will grow as launches proliferate -- including thousands of small satellites -- presenting a huge problem. The US Air Force Space Fence -- a second-generation space surveillance system now nearing completion -- is expected to play a crucial role.

Space Fence is located on Kwajalein Atoll in the Marshall Islands. [US Army photo]

Using advanced solid-state S-band radar technology, Space Fence is located on Kwajalein Atoll in the Marshall Islands. Such critical space-based technologies as weather forecasting, banking, global communications, and GPS navigation are under threat from space junk orbiting Earth. Collisions already are frequent, and defunct satellites and rocket boosters have increased the amount of space debris.

The Air Force Space Surveillance Network tracks about 25,000 objects. When Space Fence comes online, the catalog will expand considerably, and when fully operational, it will be the world's largest and most advanced radar system, offering unprecedented space situational awareness. Beyond cataloging objects, Space Fence will detect closely spaced objects, breakups, maneuvers, launches, and more.

Contractor Lockheed Martin reported last spring that Space Fence was able to detect debris from a microsatellite destroyed by India as part of an anti-satellite test. It then was able to determine the orbit of the remnants and predict when the space junk would pass through the fence again.

Space Fence is expected to become fully operational this year. -- *Thanks to* AMSAT News Service *via* Milsat Magazine; Lockheed Martin

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CONGRATULATIONS

JAMES, MAURICE – KO4AXY	**– New Technician**
KELLY, CHRISTOPHER – KC3OIC	**– Upgrade to General**
KELLY, SELENE M – KC3ORS	**– New Technician**
KELLY, TIFFANY M – KC3ORT	**– New Technician**
ROBSON, CHRISTOPHER L – KC3OOD	**– Upgrade to General**
RYAN, WILLIAM – W3WDR	**– Upgrade to Amateur Extra**
TAYLOR, CHASE H – KC3ORW	**– New Technician**
WANACK, ALEXANDRA – KC3ORX	**– New Technician**
WILSON, ANDREW – KC3ORV	**– New General**

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
January 2020

YOTA Month Reported a Success in the Americas

For several years now, Youngsters on the Air (**YOTA**) has sponsored **YOTA Month** each December, primarily involving young radio amateurs in Europe and Africa. In December, youth-operated amateur radio stations in the Americas picked up the ball to contribute more than 12,000 contacts to the worldwide event. Eighteen operators aged 25 or younger deployed special event 1 × 1 call signs — K8**Y**, K8**O**, K8**T**, and K8**A** — to promote youth in amateur radio. Fifteen young operators across the US took turns using these call signs throughout December. They logged 10,474 contacts using those call signs on SSB, CW, digital modes, and satellites. Some operators also aired the call signs during contests. Participants in the Americas offered opinions on what made the event special for them.

YOTA Month in the Americas Coordinator Bryant Rascoll, KG5HVO, at WRTC-2018.

"Operating-wise, it was definitely the pileups…I love a good pileup," said Mason Matrazzo, KM4SII. "Apart from that, it was great getting to be part of a group of youngsters that are all into the hobby. Even though we weren't physically working together, we all got to be part of the YOTA program over the air."

Audrey McElroy, KM4BUN, also cited the on-air camaraderie. "My favorite part of YOTA month was getting the wonderful experience of talking to other youth all over the world and sharing our experiences," she said. "It gives us hope to know the future of Amateur Radio is in the hands of these great kids." Her brother Jack, KM4ZIA, also took part.

In Canada, David Samu, VE7DZO, signed VE7YOTA in December, making 458 contacts on CW. "My favorite part was seeing all the YOTA stations on the air throughout December and seeing all the high energy youth activity," he said.

Mathias Acevedo, CE2LR, activated XR2YOTA, and met another young operator from Chile, Manu Pardo, CA3MPR, through YOTA month. Between them, they put 1,535 contacts into the log on CW, SSB, and digital modes.

Bryant Rascoll, KG5HVO, coordinated the efforts of the 17 participants and the logs for the US stations. "I learned much during the month about the importance of teamwork and communication...just like baseball," Bryant said about his role as coordinator. "I think YOTA month was a great success considering the short amount of time we had to plan this all out. I had a lot of fun operating this event, but it was even more rewarding to see other youth here in the Americas make tons of QSOs during December." Bryant managed Logbook of The World accounts for the US stations and **QRZ.com** pages for all call signs, maintained an operator schedule, worked with YOTA Month Award Manager Tomi Varro, HA8RT, and reported in to the YOTA Camp Committee in the Americas.

Globally, nearly 129,000 contacts were logged using 48 call signs, all operated by hams under the age of 25 or younger. More than 2,500 operators of all ages requested and received awards based on the number of YOTA contacts they had made. **Statistics** are available.

The first Youth On The Air camp in the US will take place next June 21 – 26 at the National Voice of America Museum of Broadcasting in West Chester Township, Ohio.

For more information about YOTA in the Americas, contact YOTA Month in the Americas Coordinator **Bryant Rascoll, KG5HVO**, or YOTA in the Americas Camp Director **Neil Rapp, WB9VPG**.

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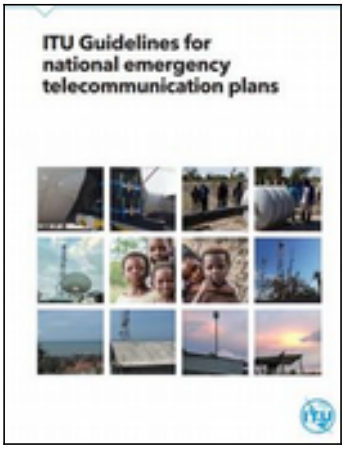
ITU Development Sector Publication Highlights Amateur Radio's Role in Emergency Communication

Amateur radio is featured in the publication *ITU Guidelines for national emergency telecommunication plans*, published by the International Telecommunication Union (ITU) Development Sector (ITU-D). The publication notes that radio amateurs have supported communication in emergency situations on a voluntary basis since the dawn of radio.



"They are experts in radio communications and have the equipment, skills, and necessary frequencies allocated by ITU to deploy networks in emergency events quickly and efficiently," the publication says. ITU-D said amateur radio support offers "great coverage due to the large number of amateur radio stations available;" training programs and exercises that have been developed for emergency communication; "qualified temporary volunteers who provide skills and experience essential for emergency telecommunications;" problem-solving skills for working with "often very limited resources," and the ability to work with alternative power sources.

Past ARRL President and IARU Secretary Rod Stafford, W6ROD, represents the International Amateur Radio Union at ITU-D meetings. -- *Thanks to* Southgate Amateur Radio News; *IARU*

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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**
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**

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

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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

Saturday, February 1 8:30am
FrostFest

Thursday, February 6 7:30pm
Membership Meeting

Thursday, February 13 7:30pm
Board Meeting

Thursday, February 20 7:30pm
Membership Meeting

Thursday, February 27 7:30pm
Rules Meeting

Saturday, February 29 8:30am
Spring Technician Class

The Anne Arundel Radio Club

is a registered 501C3 charity.

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

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	Maryland 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.

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 1928The Radio Amateur's Cod