

The Ham Arundel News



Providing Fellowship and Community Service through Amateur Radio Since 1951

October 2018

40th Year of Publication



AARC Club Officer Nominations

The reputation and success of the AARC depends upon its leadership, and the time is fast approaching when the club chooses and endorses the leadership for the coming year, 2019. At this moment, it appears that there will be a few officers/directors who are willing

to continue on the board, but there will also be several vacancies which will need to be filled.

I encourage each member to think carefully about the need for willing and able leadership for AARC, and if you feel called to offer your time and efforts as a club officer, you have several choices. You can fill in the online [AARC Nominating Questionnaire for Club Officers](#) form, which will automatically send the results to me. Or you can download and fill out the [nomination form](#) and email it to me at K3ACT@verizon.net. Or you can send it to me by US Postal Service if you prefer to the AARC Post Office Box.

If you would like to recommend some other member to be considered for one of the leadership positions, please email me your thoughts about that person and what job you think he/she would be suited for, and the nominating committee will consider presenting that person as a nominee.

The nominating committee is bound by our Bylaws to present a slate of nominees to the board of directors no later than the last Thursday of October. Additional nominations can be made from the floor at the meeting on November 1. Assuming the Ham Arundel News goes out as scheduled between November 2nd and November 5th with the required notice of the Annual Meeting included, the election of officers will be held at the meeting on November 15, 2018.

So please consider becoming an officer/director for 2019, and if you decide to do so, please submit or forward the form to me as soon as possible. And the nominating committee will be glad to provide you more information about the duties and responsibilities of an officer/director if you request it.

Thanks!

Chuck Tanner, K3ACT

The Islands on the Air (IOTA)

The Islands on the Air (IOTA) program is reviewing its list of valid island groups and is seeking proposed additions.

"This time, IOTA management has decided to bring forward the review to give a chance for any new groups announced to be activated in 2019, the target year," said Roger Balister, G3KMA, in an August 31 announcement. IOTA typically reviews the list every 5 years. He continued, "The review process is scheduled to start with an announcement of some additions at this year's [Radio Society of Great Britain] Convention, and may possibly finish with a top-up at next year's Friedrichshafen HAM Radio event." Balister said IOTA anticipates that only five to 10 new groups will be proposed, adding that additions to the Europe list are unlikely because the continent "is already generously covered." Only proposals that meet the criteria at Sections B and C of the [IOTA Programme Structure](#) chapter (2018 *Directory*) will be considered. [Submit](#) proposals for consideration to Balister by October 1, with a brief justification in terms of the program criteria. --
Thanks to Roger Balister, G3KMA, via IOTA

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Successful Candidates for Ham License on Sept. 2018

Here are the FCC results of the last exam.

Stott, John W -- KC3LZX -- New Technician
Witt Jr, William R -- KC3LKV -- Upgrade to General
Zamora, Marc Adrian G -- KC3DWE -- Upgrade to General
Canonizado, Rey A -- KC3LZW -- New Technician
DAKIN JR, DENNIS L -- KC3MAA -- New Technician
RASCHE, JONATHAN D -- KC3MAB -- New Technician

73,
Rick Steer, AB3XJ
VE Team

2018 AARC Annual Picnic

September 22, 2018



Left to Right Rich Grace, KB3ZY0; Mark Bova, W2PAW; Charles Gross KC3jqw



Tom Hogevoll, K3TH; Mark bova, W2PAW, Rich Grace, KB3ZY0; and Jon Binstock, NK3D



Jamison Phipps, W3KNH



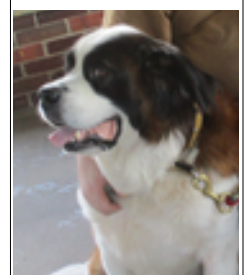
Left to Right Ham Unknown; XYL Unknown; Mark Bova W2PAW; Jon Binstock, NK3D



Daniel Kim K3KTW



Facing Left to Right Rich Grace , KB3ZY0; Mark Bova, W2PAW; Ham now known



St. John Moses Browning "Brouning"

Emergency Preparedness Takes Center Stage for 2018 Simulated Emergency Test

The 2018 ARRL Simulated Emergency Test (SET) is just ahead. The primary ARRL-sponsored national emergency exercise is designed to assess the skills and preparedness of Amateur Radio Emergency Service® (ARES®) volunteers as well as those affiliated with other organizations involved with emergency and disaster response. Although the main SET weekend this year is October 6 - 7, local and Section-wide exercises may take place throughout the fall. Those who already take part in public service and emergency activities are getting ready for the annual SET, a dress rehearsal, next month. But, the 2018 ARRL SET is an open casting call for all radio amateurs interested in expanding their emergency preparedness knowledge and skill.

The annual SET encourages maximum participation by all Amateur Radio operators, partner organizations, and national, state, and local officials who typically engage in emergency or disaster response.

In addition to ARES volunteers, radio amateurs active in the National Traffic System, Radio Amateur Civil Emergency Service (RACES), SKYWARN™, Community Emergency Response Team (CERT), Salvation Army Team Emergency Radio Network (SATERN), and a variety of other allied groups and public service-oriented radio amateurs are needed to fulfill important roles in this nationwide exercise.

The SET allows volunteers to test equipment, modes, and skills under simulated emergency conditions and scenarios. Individuals can use the time to update a "go-kit" for use during deployments and to ensure their home station's operational capability in an emergency or disaster.

At the national level, ARRL has established formal working relationships with partner organizations and agencies, such as the Federal Emergency Management Agency (FEMA), the American National Red Cross, the Salvation Army, the National Weather Service, the National Communications System, the Association of Public-Safety Communications Officials- International (APCO-International), Citizen Corps, National Voluntary Organizations Active in Disaster (NVOAD), REACT International, Society of Broadcast Engineers (SBE), United States Power Squadron, and Boy Scouts of America. [Details](#) on these organizations and how they work with ARRL and Amateur Radio operators are on the ARRL website.

To get involved, contact your local ARRL Emergency Coordinator or Net Manager. Check on upcoming planned activities through local, state, or Section-wide nets. If you don't know already, find out who the Emergency Coordinator is and where the nearest [ARES](#)



[group](#) meets. Your ARRL Section Manager should be able to assist.

Additional background on the annual SET appears in the article, "2017 Simulated Emergency Test Results," in the July 2018 issue of QST. Guidelines and specific [SET reporting forms](#) for ARRL Section and Field Organization leaders are posted on the ARRL website for use by Emergency Coordinators and Net Managers, or by Section leaders in charge of reporting this year's SET activity. -- *Thanks to Steve Ewald, WV1X*

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Ohio Operators Active for Storms, Exercises: Lessons Learned

Northeast Ohio ARES operators were busy as they responded to an activation for damage assessment, and participated in two major exercises all on Wednesday, August 15, 2018.

The Youngstown area was hit by weekend storms beginning Friday, August 11. ARES District EC Dennis Conklin, AI8P, was notified by Mahoning EC David Brett, KD8NZF, that the county needed help in performing damage assessment for a large area. While Conklin made his way to Youngstown, Ohio SEC Stan Broadway, N8BHL, put out a call for volunteers from District 5 and District 10, which covered the

majority of northeast Ohio counties. More than a dozen ARES operators responded along with a contingent of CERT volunteers from a neighboring county. The volunteers held a short briefing, then began the long task of going door to door to inquire about damages. The surveys continued Thursday, with a morning crew made up

of CERT and VOAD volunteers, and an afternoon crew of all ARES volunteers. The assessment was expected to continue.

That call came when other northeast Ohio counties were already involved in two major exercises - one at the Cleveland Burke Lakefront Airport where six ARES volunteers assumed the task of tracking patient transport in a multi-casualty drill. The other involved nearby Lake, Geauga and Ashtabula counties as the state conducted an exercise involving the Perry Nuclear Power Plant. More than two dozen amateurs there and five at the Ohio state EOC's station, W8SGT, followed the day long exercise. Primarily an EOC exercise, each of the counties dispatched ARES members to different locations as part of the drill.

The Ohio EMA confirmed later that the Ohio ARES volunteers helped assess 416 homes, four of which were totally destroyed, one had major damage and the other 411 homes sustained minor damage. Minor damage is considered anything with two feet of water or less in the



Ohio ARES members are briefed by emergency managers at the EOC on damage assessment tasking. (photo courtesy N8SY)

basement, or first floor if it is a home without a basement. There were 74 city streets surveyed for damage.

ARRL Ohio Section Manager Scott Yonally, N8SY,



said "It just shows how ARES groups can work together and help our local government agencies with manpower, even when it's not primarily a communications event."

On August 20, Mahoning County EMA Director Dennis O'Hara

wrote to the county ARES group volunteers: "I would like to thank you for assisting and coordinating with the ARES volunteers to conduct [the] damage assessment . . . We were able to make positive contact with over 400 homes and businesses on 70 plus streets in the affected areas." O'Hara wrote "I am proud of the coordination between the EMA and ARES. I look forward to working with ARES and continuing to foster the relationship between the organizations. . ."

Lessons Learned

Two important aspects came to light from this busy day. First, particularly in the middle of a work day, resources were scarce locally. More often we need to approach events on a regional basis. This applies to large events, or activity in counties with smaller ARES population. District EC's must keep up on their area plans! The second is that activations may come nearly instantly- there was no time to plan in advance. This means we must stay ready to go literally on a moment's notice! -- Stan Broadway, N8BHL, Ohio Section Emergency Coordinator

[There is a FEMA Independent Study course, IS-1160 Damage Assessment Operations Training, available [here](#). -- ed.]

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Hurricane Watch Net Manager: September is Gearing Up to be an Active Month

While the Hurricane Watch Net (HWN) on September 5 formally secured operations initiated ahead of Tropical Storm Gordon, which had been forecast to become a Category 1 hurricane, the HWN is keeping close watch on Hurricane Florence, currently a Category 3 storm still out in the Atlantic.

"Computer models are all over the place, but the people of Bermuda should closely monitor the progress of Florence," HWN Manager Bobby Graves, KB5HAV, told ARRL. "Since 2014, the island has been hit by four



storms." Graves said the net could soon find itself tracking Helene (now called Invest 92L) and a developing system that could become Isaac.

"Bottom line, September is gearing up to be an active month. I'm just praying these storms remain away from land," Graves said.

As of mid-week, Hurricane Florence was some 1,060 miles east-northeast of the northern Leeward Islands, and about 1,170 miles east-southeast of Bermuda, with maximum sustained winds of 115 MPH. The storm was moving to the northwest at 12 MPH. The National Hurricane Center predicted Florence would turn back toward the northwest early next week. Although it weakened somewhat this week, the storm was predicted to remain a strong hurricane into next week.



On September 6, Hurricane Florence was still some distance from landfall. [NOAA graphic]

The HWN had activated on September 4, while Gordon was still a tropical storm. "The net rarely activates for tropical storms, unless they are forecast to become hurricanes prior to landfall or at the request of the forecasters at the National Hurricane Center," Graves explained. Gordon had been forecast to become a Category 1 hurricane

prior to landfall. Some Gulf Coast ARES teams activated briefly prior to Gordon's landfall on the Gulf Coast on the evening of September 4 near the Mississippi-Alabama state line. A child was reported to have died as a result of the storm, which is generating flood-causing rainfall as it progresses into Mississippi. The storm also knocked out power for tens of thousands in the region.

"The 2018 Atlantic Basin hurricane season is still young, so please, do not drop your guard," Graves advised. "If you haven't done so already, now would be a good time to review your Family Emergency Plan and your Emergency Supply Checklist. We have links to download both, found in the middle of our website [homepage](#)."

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Philippine Amateur Radio Association Activates HERO for Typhoon Mangkhut

With Typhoon Mangkhut (locally Ompong) threatening, the Philippine Amateur Radio Association (PARA) activated its Ham Emergency Radio Operations (HERO) at a Code Yellow level on September 12, per a declaration from PARA Chief Operating Officer Roberto Vicencio, DU1VHY. At Code Yellow, stations are advised to ensure that all equipment is operational, check backup power sources, and take any necessary precautionary measures. For the first time ever, the Philippines National Telecommunications Commission (NTC) had authorized PARA/HERO volunteers to communicate directly with NTC's regional offices during the pending emergency, rather than through the NTC headquarters.

In the Philippines, volunteers Tonyo Casuga, DV1XND, and Aurell Rabena, DV1YMK, immediately activated

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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
Morning Commuter Net	147.105+ PL 107.2	Weekdays	0600
AARC Talk Net	147.105+ PL 107.2	Wednesday	2000
AA County ARES Net	146.805- PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670-	Daily	1830
Boating Net	146.805- PL 107.2	Wednesday	1930
Maryland Emergency Phone Net	3.920	Daily	1800
Maryland-DC-Delaware Traffic Net	3.643	Daily	1900 and 2200
<u>Maryland Slow Net</u>	3.563	Daily	1930
React Net	442.300+ PL 107.2	1st Sunday	1930

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

Digital Mobile Radio Hotspots May Be Interfering with Satellite Uplinks, AMSAT Reports

This week, AMSAT News Service (ANS) cited an August 27 report from AMSAT Vice President-Operations Drew Glasbrenner, KO4MA, saying that a digital mobile radio (DMR) signal has been interfering with the AO-92 (Fox-1D) satellite's 435.35 MHz uplink frequency.



Glasbrenner said hotspots, repeaters, terrestrial simplex, and "anything not satellite" should never transmit in the segments 145.8 - 146.0 MHz or 435 - 438 MHz by international band plan.

Well-known satellite enthusiast Patrick Stoddard, WD9EWK/VA7EWK, told ARRL

that one DMR hotspot operating on the AO-92 uplink frequency in the St. Louis area has shifted to another frequency. But, he added, "I think there are still issues, since not all hotspots will report their frequencies and positions to websites such as [BrandMeister](#) or via APRS, where they appear on other sites such as <http://aprs.fi>."

"There are others surely operating near satellite uplinks," Stoddard added. "For many, the 435 - 438 MHz satellite subband is a big piece of quiet real estate in a busy part of the 70-centimeter band for weak-signal work, repeater links, amateur TV, and other possible uses."

Stoddard points out that FCC Part 97 addresses Amateur Radio operation in these segments, although regulations in many other countries may not be as detailed. §97.3(a)(7) defines auxiliary stations as, "an amateur station, other than in a message forwarding system, that is transmitting



Patrick Stoddard, WD9EWK, does a satellite demonstration at the Palm Springs Hamfest in 2017.

communications point-to-point within a system of cooperating amateur stations."

Stoddard said this would include remote bases, EchoLink and IRLP nodes, and hotspots used for digital voice modes, as well as stations using these hotspots and nodes. Auxiliary stations may not transmit in the 145.8 - 146.0 and 435 - 438 MHz satellite subbands (among others in the 2-meter and 70-centimeter amateur bands), per §97.201(b). Further:

- §97.3(a)(40) defines a repeater as, "an amateur station that simultaneously retransmits the transmission of another amateur station on a different channel or channels." Stoddard said that because most hotspots operate on a discrete frequency, they would not qualify as repeaters, even if they operate like a repeater, per §97.205(b).

- §97.101(a) stipulates, "In all respects not specifically covered by FCC Rules, each amateur station must be operated in accordance with good

engineering and good amateur practice." Stoddard remarked, "Whether the hotspot is interfering with a satellite downlink in a particular area, or it is interfering with the satellite uplink affecting a much larger area, this would not be good amateur practice."

- In addition to subbands where hotspots are not permitted, Stoddard said, §97.101(b) is also relevant. It states, "Each station licensee and each control operator must cooperate in selecting transmitting channels and in making the most effective use of the Amateur Service frequencies. No frequency will be assigned for the exclusive use of any station."

Stoddard noted that frequencies used by satellites are usually incapable of being changed and are coordinated in advance of launch, while hotspots typically are frequency agile, and the frequencies used by those systems can be changed to avoid potential interference to satellites and other stations. -- *Thanks to AMSAT News Service, Patrick Stoddard, WD9EWK/VA7EWK*

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DXCC Most Wanted

Club Log's [DXCC Most Wanted](#) entities list has been updated as of August 28. The list includes 340 entities, and the Democratic People's Republic of Korea (DPRK), or North Korea, is the #1 most-wanted DXCC entity, as it has been for quite a few years. The other top 10 most-wanted entities, listed in descending order, are: 3Y/B Bouvet Island; FT5/W Crozet Island; BS7H Scarborough Reef; CE0X San Felix Islands; BV9P Pratas Island; KH7K Kure Island; KH3 Johnston Island; VK0M Macquarie Island, and FT5/X Kerguelen Island.


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Radio City, Inc. is Closing

Amateur Radio retailer [Radio City, Inc.](#) of Mounds View, Minnesota, has announced it is closing. "It's been



a wonderful 36 years for us at Radio City, and we have decided to retire and close," owners Dan, KB0XC, and Maline Fish said in a message on the retailer's website.

 "We are so thankful for the many years of support, and we have enjoyed working with you, our customers. The technical, intelligent, and polite conversations plus advice have been invigorating, thus making this decision extremely difficult for us."

The Fishes said they will shut down by year's end, "or a bit sooner, as we empty our shelves of new and used materials." Their last stop on a "final goodbye tour" will be Fallfest in Carlton, Minnesota, on September 29. A goodbye party is set for October 6 at the store.

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[illegible]

San Francisco's 2-Meter FM QSO Party: A Model for the Rest of Us

The *San Francisco 2 Meter FM QSO Party* is a contest sponsored by the San Francisco Radio Club (W6PW) and designed to give 2 meter operators -- both beginner and veteran alike -- the chance to participate in a fun radio contest that helps them learn their radios and the skills necessary to operate them for more demanding situations such as emergencies, disaster responses and public events support. The QSO Party takes place every summer and this year it was run on Saturday, August 25th, from 10 AM to 2 PM Pacific Time (1700-2100 UTC). Contacts are limited to FM simplex on the 2 meter band, and at least one end of the QSO must be within San Francisco. There are three exchange items: call sign, operator's first name, and Zip code. There are three power levels: QRP - 10 watts or less (handheld); Low - 10-100 watts; and High - 100 watts or more.

There are two entry categories: Fixed and Mobile. If a station gives out more than one Zip code during the contest, that station is automatically designated Mobile. A Fixed station means that the participant will operate from one fixed location during the entire contest, possibly from a remote location. A Mobile station may operate from more than one location. Recommended frequencies are between 146.415 MHz and 146.550 MHz, with a PL tone of 100 Hz.

Participants are advised to listen before transmitting, making sure the frequency is not in use, and move to an open frequency if it is in use.

A log sheet is available, and Joe Humphreys, WA3TSP, has written a logging program for computers running Windows: www.sfsunset.com/logger.

Each station worked is worth one point. A Fixed station may be worked only once, while a Mobile station may be worked more than once if it has moved to a different Zip code. The multiplier is the number of different Zip codes worked.

[San Francisco club members have a great idea in this contest: it helps operators gain experience with the kind of disciplined operating that is necessary for potential emergency and disaster response, and network with other like-minded amateurs who would potentially be team members in such responses. The contest can also help new and veteran operators to learn of ARES leaders in their areas. For more information: check the San Francisco Radio Club (W6PW) website [here](http://www.sfsunset.com). The San Francisco Radio Club was established in 1916! -- Thanks to Duane Mariotti, WB9RER, for suggesting the FM Simplex contest as worthy of national attention; it is a good model for other groups and clubs to consider in their areas. -- ed.]

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It's Different for a YL

One YL operator I spoke with recently shared some of her experiences in becoming a tester. She relates that after she'd become an Amateur and expressed her contesting interest at a local radio club meeting, she was told that "she didn't want to be a tester" by more than a

small number of crusty been-there done-that types, in various ways verbally and non-verbally.

Thankfully, she's persistent, confident, and has skills that enable her to reach her goals, and also met some testers that encouraged her interest. It turns out she's a good operator, and not infrequently makes more contacts than anyone else when she participates in multi-op groups.

When she does a multi-op, she has different on the air experiences than her male team members. She has not infrequently received comments on the order of "I hate when women do contests, I can't understand their accent." After calling "CQ Contest," callers will often uncomfortably draw out the contact, and stray from the contest format with creepy requests for non-exchange related personal information.

If tolerance for this type of behavior continues as part of Amateur Radio, then we should expect continued declining numbers and lack of diversity in our hobby. The next time you hear a female-sounding voice during a contest, you should assume that person is on the air to make a lot of contacts, just like you. If you hear someone stopping to comment on a voice or request non-relevant personal details, not only are they delaying her, they're slowing down everyone else in the pile up... including you.

That's all for this time. Remember to send contesting related stories, book reviews, tips, techniques, press releases, errata, schematics, club information, pictures, stories, blog links, and predictions to contest-update@arrl.org

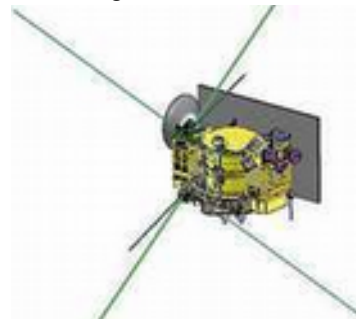
73, Brian N9ADG

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Radio Amateurs Receive Images from Chinese Lunar Satellite

Some earthbound radio amateurs and sky watchers have received images from a tiny Chinese satellite now orbiting the moon. In May, China launched the DSLWP-A and DSLWP-B microsatellites -- also known as *Longjiang-1* and *Longjiang-2* -- into a lunar transfer orbit, although *Longjiang-1* was apparently lost in the process and likely remains in deep Earth orbit. They were deployed as secondary payloads with the *Queqiao* relay satellite as part of the Chang'e 4 mission to the far side of the moon. DSLWP stands for "Discovering the Sky at Longest Wavelengths Pathfinder." The satellite will test low-



frequency radio astronomy and space-based interferometry, and while it carries Amateur Radio and educational payloads, no transponder is aboard. The Chang'e 4 mission will be the first-ever attempt at a soft landing on the far side of the moon. The Chang'e-4 lander and

rover are scheduled to launch in December. The Harbin Institute of Technology (BY2HIT) developed and built the

DSLWP spacecraft and is overseeing that mission. The microsat also carries optical cameras from Saudi Arabia.

An open telecommand protocol allows radio amateurs to take and download images. The spacecraft transmits on 70 centimeters (435.400/436.400 MHz), with 250/500 bps GMSK using 10 kHz wide FM single-channel data, with concatenated codes or JT4G. JT4 uses four-tone FSK, with a keying rate of 4.375 baud; the JT4G sub-mode uses 315 Hz tone spacing and 1,260 Hz total bandwidth.

According to an [article](#) in *GBTimes*, *Longjiang-2* (DSLWP-B) used its own propulsion system to slow down and enter lunar orbit, while the relay satellite "continued past the moon to its special destination." *Longjiang-2* has used a student-developed camera to take images of the moon, Mars, the sun, and other celestial objects. Data and images have been downloaded by hams and satellite-tracking enthusiasts around the world, including the US, [Brazil](#), China, the [Netherlands](#), and [Italy](#).

The Harbin Institute of Technology team also operates [LilacSat-1](#), a 2U Amateur Radio CubeSat launched as part of the European QB50 initiative, and [LilacSat-2](#) (CAS-3H), an Amateur Radio and technology test satellite.

The *Queqiao* communications relay satellite is required for the lunar far-side landing to facilitate communication with a not-yet-launched lander and rover because the moon's far side never faces Earth, and some significant scientific measurements from the dark side of the moon require real-time contact with Earth. *Queqiao* was developed by the China Academy of Space Technology (CAST).

The Harbin Institute of Technology Amateur Radio Club has invited more radio amateurs to get involved with the DSLWP mission, and QSL cards have been designed for different flight phases for amateurs who successfully receive telemetry or make contact.



The *Queqiao* communications relay satellite. [CASC image]

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Ducie Island VP6D DXpedition, Other Pacific Operations on Target



The VP6D Ducie Island DXpedition is set to get under way October 20 and continue until November 3. According to Jacky Calvo, ZL3CW, the equipment, already en route, has been [loaded](#) aboard the M/V *Braveheart* in New Zealand. The *Braveheart* sets sail for Tahiti in late September,

and the team of operators will catch up with the gear in Tahiti to begin their voyage to Ducie Island.

Elsewhere, from September 29 until October 6, Martin Wennergren, A65DC, and friends will operate from Christmas Island as [VK9XT](#). They plan to be on 160 through 10 meters, excluding 60 meters, kicking things off with the CQ World Wide RTTY Contest for the first 48 hours, with SSB and CW on non-contest bands, then CW, SSB, and RTTY on HF, using FT8 "only when no other operation is happening or on bands that are opening or closing," they've said. VK9XT logs will go to LoTW and Club Log.

Stan Vatev, LZ1GC, is heading to Samoa and will be on the air by September 28 as 5W0GC. He'll meet other operators for the YJ0GC operation from Vanuatu, set to begin on October 15. Logs will be uploaded to LoTW. HF operation will concentrate on 160 and 80 meters. [More details](#) are on the 5W0GC/YJ0GC website. -- [Thanks to The Daily DX](#)

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The [VP6D Ducie Island 2018 DXpedition](#) October 20 through November 3 will use [DXA](#) to post contacts on a near real-time basis. "Bob Schmieder, KK6EK, of Cordell Expeditions, offered the use of DXA, and we gladly accepted," the DXpedition said in a news update this week. "Within 60 seconds of your contact with VP6D, the browser page is automatically updated to show your call sign; this confirms that your contact is in the log (DXA reads the VP6D log). This process eliminates the need for duplicate contacts on the same band/mode and minimizes the confusion caused by pirates or other DXpeditions operating at the same time." The DXpedition leaders said they performed an end-to-end test of the DXA system, and expressed confidence that DXA "will significantly reduce, or eliminate, the hundreds of emails asking for 'log checks.' If you see your call sign on DXA, you're in the log." The VP6D Ducie Island 2018 DXpedition will continue through November 3. The VP6D team also plans to put Ducie Island on 6-meter moonbounce for the first time ever. Operation will be on 50.200 MHz using JT65.

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**Technician License classes start
Oct 6, 2018 at 8:30 am
At the Anne Arundel Radio Club
Davidsonville Family Recreation Center,
Davidsonville MD.
Registration on line or contact
Keith Miller, AE3D
AE3D@w3vpr.org**

AARC STAFF – 2018

OFFICERS

President:
Rich Grace, KB3ZY0 410-500-1092
yamahaturbo83@gmail.com

Vice Pres:
David Rawley, AE5Z 410-925-8767
ddrawley@hotmail.com

Secretary:
Keith Miller, AE3D 240-758-0423
ae3d@graykitty.net

Treasurer:
Justin Leishman / KC3BJT
kc3bjt@icloud.com

Directors:
Timothy Nagel / KB3YQK
kb3yqk+AARC@gmail.com
Mark Bova / W2PAW 240-274-6294
w2paw@markbova.com
Jim Wallace, N3ADF 301-464-0661
n3adf@arrl.net

REPRESENTATIVES

Trustee:
Dick Mayo / WW3R 410-956-5099
ww3r.mayo@gmail.com

Resident Agent:
Bob Jeter / K3RSJ 410-315-9403
jeter904@verizon.net

DFRC Rep:
Milford Craig / N3WYG 301-218-8867
n3wyg@w3vpr.org

Public Relations:
Paul Bowling / W4ATN 410-934-1355
paul@w4atn.com

Program Chairman:
David Rawley 410-925-8767
ddrawley@hotmail.com

ARES/RACES:
Ron Boller / N3WOF 410-956-6127
n3wof@arrl.net

Joint 440 Comm:
Gordon Davids / WJ3K 410-647-2956
g.davids@verizon.net

FAR Representative
Ed Brown / AA3EB 301-856-3317
brownmejr@comcast.net

COMMITTEE COORDINATORS

Public Service:
Erick Graves / WA3G 410-987-7670
erick.g@comcast.net

Repeater Ops:
John Williams / K8JW 410-647-7406
k8jw@verizon.net

VE Team:
Rick Steer - AB3XJ 443-871-2583
ab3xj@yahoo.com

Training:
Keith Miller / AE3D 240-758-0423
ae3d@graykitty.net

Packet Radio:
Jonathan Grafe / KB3ZVO 240-426-2664
grhear@yahoo.com

Newsletter:
Milford Craig / N3WYG 301-218-8867
newsletter@w3vpr.org

Web Page:
Mark Bova / W2PAW 240-274-6294
w2paw@markbova.com

Field Day:
Rich Grace / KB3ZY0 410-500-1092
yamahaturbo83@gmail.com

MDC QSO Party
Mike Watterson / K3MAW 301-830-2500
mwatterson@gmail.com

MD Slow Net:
Bruce Stewart / W8CPG 304-940-3076
chickenfarm9@gmail.com

ARRL MDC Section Manager :
Martin J. Pittinger / KB3MXM 410-356-7899
kb3mxm@arrl.net

AA



VE Testing Schedule

**Second Saturday of each month –
Noon – AARC – Rick Steer / AB3XJ
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 2018 Spring/Summer Operating Schedule

Morning Schedule:

Time	Mode	Days
1300 UTC (9 AM ET)	CWs	Wed, Fri
1300 UTC (9 AM ET)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1400 UTC to 1600 UTC - (10 AM to 12 PM ET)
1700 UTC to 1945 UTC - (1 PM to 3:45 PM ET)

(Station closed 1600 to 1700 UTC (12 PM to 1 PM ET))

Afternoon/Evening Schedule:

2000 UTC (4 PM ET)	CWf	Mon, Wed, Fri
2000 " "	CWs	Tue, Thu
2100 " (5 PM ET)	CWb	Daily
2200 " (6 PM ET)	DIGITAL	Daily
2300 " (7 PM ET)	CWs	Mon, Wed, Fri
2300 " "	CWf	Tue, Thu
0000 " (8 PM ET)	CWb	Daily
0100 " (9 PM ET)	DIGITAL	Daily
0145 " (9:45 PM ET)	VOICE	Daily
0200 " (10 PM ET)	CWf	Mon, Wed, Fri
0200 " "	CWs	Tue, Thu
0300 " (11 PM ET)	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 2230 UTC (6:30 PM ET), 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 0000 UTC (8 PM ET) Thursdays and 0000 UTC (8 PM ET) Fridays.

Audio from W1AW's CW code practices, and CW/digital/phone bulletins is available using **EchoLink** via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The CW/digital/phone 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@arrrl.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.

FCC licensed amateurs may operate the station from 1400 UTC to 1600 UTC (10 AM to 12 PM ET), and then from 1700 UTC to 1945 UTC (1 PM to 3:45 PM ET) Monday through Friday. Be sure to bring your current FCC amateur license or a photocopy.

The complete W1AW Operating Schedule may be found on page 90 in the March 2018 issue of QST or on the web at <http://www.arrrl.org/w1aw-operating-schedule>.

Used with permission ARRL Bulletin 8 ARLB008 March 12, 2018
AA

AARC Mesh Networking Group
1:00 to 4:00 PM monthly,
on the 3rd Sunday of the month
AARC Clubhouse, Davidsonville, MD

Date: Saturday, October 6, 2018
Location: Hollywood Volunteer Fire Dept., Bingo Hall, 24801 Three Notch Road (MD Route 235), Hollywood, MD 20636
Website: <http://www.k3hki.org/>

Sponsor: St. Mary's County Amateur Radio Association
Talk-In: 146.64(-) PL 146.2 K3HKI Repeater
Public Contact: Chuck Gantz, K3WJX
Phone: 240-925-1105
Email: k3wjx@yahoo.com

Email: selbynet@hotmail.com

Look for these fun Amateur Radio Events:

09/22/2018 | VOA 'Voice of America' Anniversary
MUSEUM EXHIBITS will be closed weekend 9/22 & 9/23
Sep 22, 1300Z-2100Z, WC8VOA, West Chester, OH. West
Chester Amateur Radio Association. 14.270. QSL. Mike
Braun, 8070 Tylersville Rd., West Chester, OH 45069. See
<http://voamuseum.org> for details and ticket price

1/02/2018 | AMSAT Space Symposium and General
Meeting
2018 AMSAT Space Symposium, Friday through Sunday,
Nov. 2, 3, & 4, 2018 at the US Space and Rocket Center,
One Tranquility Base, Huntsville, AL. Hotel
accommodations will be next door at the Marriott at the
Space & Rocket Center, 5 Tranquility Base, Huntsville, AL.
See <https://www.amsat.org/amsat-symposium/> for
Registration and tickets.

New AMSAT Facebook -
<https://www.facebook.com/groups/AMSATNA/about/>
Shortwave Radiogram via WRMI w/transmission schedule
<http://swradiogram.net/>

Something New & Interesting

Maryland Fleet Week and Air Show - 12:00 – 4:00 PM -
Baltimore with USAF Thunderbirds' jets; and other aircraft
on display at Martin State Airport (KMTN) tarmac; and
Airshow over Fort McHenry and Middle Branch on October
6 & 7 and U.S.; Canadian and British Navy vessels in Inner
Harbor, Fells Point and Locust Point throughout the week
and weekend; and Baltimore's Inner Harbor. Catch the wind
and join Historic Ships in Baltimore.

Maryland STEM Festival 2018, October 26th through
November 11th.
On Monday, November 5th festival will hold the second
Blue Collar STEM (BCS)
<http://marylandstemfestival.org/blue-collar-stem/>

Digital Radio Mondiale or DRM is a digital audio & data-
casting broadcast technologies for existing analog
commercial radio on AM, SW and FM; for higher quality
audio across a wider-bandwidth using MPEG-4 audio
coding formats. Follow the latest news and information
about DRM at: <http://drмна.info/> DRM, Digital Radio
Mondiale North America, DRMNA

The GAMUT, LP 820 kHz AM station near Frederick MD
switched to DRM (Digital Radio Mondiale) on Monday, July
16th. If you have a DRM car radio or looking to explore
DRM several radio brands are available. Enjoy the high
AM fidelity DRM brings.

WTWW "We Transmit World Wide" [newest U.S. Domestic
Shortwave Station] transmitters are located approximately
10 miles East Lebanon, near Rome Tennessee, along the

Red Rose Repeater Association Tailgate Fest

Date: Saturday, October 6, 2018 / 8 AM – 1 PM
Location: West Earl Community Park, 189 S State
St, Leola, PA 17540
Brownstown Exit off Rt 222, Rt 772 East through
Brownstown, cross bridge, on left
Sponsor: Red Rose Repeater Association
Website: <http://www.w3rrr.org>
Talk-In: 147.015+ (PL 118.8)
Contact: Allen Showalter, AB3NE
Phone: 717-951-6867
Email: allens011@verizon.net
Opens: 7 am; Vendors 6 am; Rain or shine / VE
Testing*: 9 - 11 AM

CARafest

Date: Sunday, October 7, 2018
Location: Howard County (Maryland) Fairgrounds
Sponsor: Columbia Amateur Radio Association
Website: <http://www.carafest.org>
Talk-In: 147.135(+) PL 156.7
Contact: Dave Prestel, W8AJR
Phone: 443-812-4403
Email: cara@columbiaara.org

Mid-Atlantic AntiqueRadio Club (MAARC) RadioFallFest

Date: Sunday, October 21, 2018 - Tailgating 8 AM,
Auction 12:30, earlier if raining
Location: Davidsonville Family Recreation Center,
3789 Queen Anne Bridge Rd
Sponsor: Mid-Atlantic Antique Radio Club
Website: <http://www.maarc.org>
Contact: Steve Hansman
Email: shans01a@comcast.net

Mason Dixon Hamfest

Date: Sunday, October 28, 2018
Location: Sportsman's Hall Roller Skating Center,
15500 Hanover Pike, Upperco, MD 21155
Sponsor: Carroll County Amateur Radio Club
Website: <https://k3pzn.net/>
Talk-In: 145.410(-) PL 114.8 K3PZN Repeater
Public Contact: Steve Beckman, N3SB,
Phone: 410-876-1482, Email: n3sb@qis.net

Third Annual SantaFest

Date: Saturday, December 8, 2018
Location: American Legion Youth Camp, 9201
Surratts Road, Cheltenham, MD
Sponsor: Prince George's County Emergency
Radio Association & American Legion
Website: <http://pgares.org/santafest/>
Talk-In: 145.230(-) PL 110.9 K3ERA Repeater
Public Contact: Charles Hallock, AA3WS
Phone: 301-535-1666

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## Anne Arundel Radio Club NEWS

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

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

**Editor: Milford Craig / N3WYG**

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

### Mailing Address:

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

### Meetings:

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

### Dues:

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

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

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

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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 Rick Steer AB3XJ, [testing@w3vpr.org](mailto:testing@w3vpr.org)**

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

**2 meter Morning Commuter Net** on 147.105 (Typically linked to 147.075 and 444.400) every morning 6:30 am to 9:00 am.

### EVENT SCHEDULE

Thursday, October 4, 7:30pm, AARC - Club meeting, newcomers are always welcome.

Saturday, October 6, 8:30am, Technician License Class

Thursday, October 11, 7:30pm, AARC - board meeting

Saturday, October 13, 8:30am, Technician License Class  
12:00pm, AARC - Free License Exams

Thursday, October 18, 7:30pm, AARC - Club meeting, newcomers always welcome.

Saturday, October 20, 8:30am, Technician License Class

Sunday, October 21, 1:00pm, AARC - Mesh Networking group, Every 3rd Sunday, 1 to 4 PM at the clubhouse

Saturday, October 27, 8:30am, Technician License Class

Sunday, October 28, 1:00pm, AARC Kit-building, troubleshooting and repair, at 1 to 4 PM at the clubhouse

1:00pm, AARC Open Shack hours





## Amateur Radio Volunteers Still Dealing with Florence's Aftermath

Conventional telecommunications are starting to return to normal in some communities affected by Hurricane Florence, but the now long-gone storm set up others for persistent and record-breaking flooding, primarily in eastern North Carolina and along several of the state's rivers. The storm, which made landfall near Wilmington, North Carolina, primarily affected the Carolinas, Georgia, and Virginia.

"Things are back to normal communication status, and demobilization is occurring for folks deployed," South Carolina Section Emergency Coordinator Billy Irwin, K9OH, said on September 19. At mid-week, the FCC reported that nearly all cellular service had been restored in South Carolina.

Over the weekend, ARES volunteers from several South Carolina counties had pitched in to support emergency communication in the face of power and telecommunication outages and heavy rainfall. ARES Richland County Emergency Coordinator Ronnie Livingston, W4RWL, said volunteers in his county staffed the county Emergency Operations Center (EOC) and Red Cross operators at the State Emergency Operations Center (SEOC) kept in contact with field volunteers in Marion and Dillon counties after conventional telecommunications failed there.

ARES District Emergency Coordinator EMEA Area 3 Earl Dean, W4ESD, said ARES deployed assets as well as personnel who coordinated with the appropriate agencies. Horry County ARES and ARRL South Carolina Section Public Information Officer (PIO) Gordon Mooneyhan, W4EGM, said radio amateurs set up and organized communication networks to assist local government and emergency agencies, as well as to handle health-and-welfare traffic for affected residents, to let their family members outside the affected area know they were all right.

In North Carolina, storm surge had caused flooding in many communities. Ham radio volunteers responded in counties along the coast, including Wilmington, Topsail Beach, Jacksonville, and Morehead City, staffing both EOCs and shelters. Farther inland, numerous ARES teams activated in the face of river flooding to address a combination of sheltering needs for local residents and evacuees. Communication throughout the state has been supplemented by neighborhood-based operators, who reported emergencies to county EOCs. The FCC reported on September 19 that nearly one-third of cell service was out in Columbus, Pender, and Onslow counties. The storm also took out several broadcast outlets in the state.

The Salvation Army Team Emergency Network ([SATERN](#)) activated on September 14 and 15. The net's

primary mission was the receipt and delivery of outbound health-and-welfare messages from affected areas.



The Hurricane Watch Net ([HWN](#)) shut down its activation for Hurricane Florence after 38 hours, shortly after the storm made landfall. The HWN operated on two frequencies simultaneously -- its "home" 20-meter frequency of 14.325 MHz and its 40-meter frequency of 7.268 MHz.

"While propagation was not good on 20 meters for the period, 40 meters afforded a fairly consistent contact with stations in the area," HWN Assistant Manager Stan Broadway, N8BHL, recounted. Broadway said nearly 200 stations checked in, and the net took in approximately twice that number of reports, funneling important information via WX4NHC at the National Hurricane Center (NHC). "Many were not at severe levels, but all 'ground truth' [reports] assist in plotting the activity of the storm," Broadway explained. WX4NHC monitored the HWN and the Voice over Internet Protocol Hurricane Net ([VolIPWX](#)) on EchoLink Conference WX-Talk, node 7203 or IRLP 9219.

While the storm was still out in the Atlantic, ARRL shipped [Ham Aid](#) kits to the affected region -- the same ones that ARRL volunteers took to Puerto Rico a year ago to assist with disaster communications following Hurricane Maria. The ARRL Headquarters Emergency Response team activated on September 12 and remained operational into the weekend. W1AW suspended its scheduled bulletin and code practice transmission on September 14.

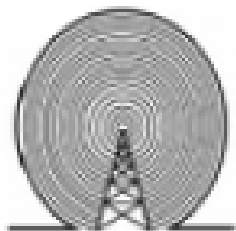
Used with permission The ARRL Letter for September 20, 2018

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**The Anne Arundel Radio Club  
is a registered 501C3 charity.  
We are pleased to receive any  
donations over your yearly dues.**



## AARC Two-Meter Net Controller Schedule — 2018



|          |        |         |          |        |         |
|----------|--------|---------|----------|--------|---------|
| 01/03/18 | KB3ZYO | Rich    | 07/04/18 | K3MAW  | Mike    |
| 01/10/18 | KB3MUV | Raven   | 07/11/18 | AA3EB  | Ed      |
| 01/17/18 | K3ACT  | Chuck   | 07/18/18 | KB3ZYO | Rich    |
| 01/24/18 | W3KNH  | Jamison | 07/25/18 | KB3MUV | Raven   |
| 01/31/18 | KB3YQK | Tim     |          |        |         |
|          |        |         | 08/01/18 | K3ACT  | Chuck   |
| 02/07/18 | K3MAW  | Mike    | 08/08/18 | W3KNH  | Jamison |
| 02/14/18 | AA3EB  | Ed      | 08/15/18 | KB3YQK | Tim     |
| 02/21/18 | KB3ZYO | Rich    | 08/22/18 | K3MAW  | Mike    |
| 02/28/18 | KB3MUV | Raven   | 08/29/18 | AA3EB  | Ed      |
|          |        |         |          |        |         |
| 03/07/18 | K3ACT  | Chuck   | 09/05/18 | KB3ZYO | Rich    |
| 03/14/18 | W3KNH  | Jamison | 09/12/18 | KB3MUV | Raven   |
| 03/21/18 | KB3YQK | Tim     | 09/19/18 | K3ACT  | Chuck   |
| 03/28/18 | K3MAW  | Mike    | 09/26/18 | W3KNH  | Jamison |
|          |        |         |          |        |         |
| 04/04/18 | AA3EB  | Ed      | 10/03/18 | KB3YQK | Tim     |
| 04/11/18 | KB3ZYO | Rich    | 10/10/18 | K3MAW  | Mike    |
| 04/18/18 | KB3MUV | Raven   | 10/17/18 | AA3EB  | Ed      |
| 04/25/18 | K3ACT  | Chuck   | 10/24/18 | KB3ZYO | Rich    |
|          |        |         | 10/31/18 | KB3MUV | Raven   |
|          |        |         |          |        |         |
| 05/02/18 | W3KNH  | Jamison | 11/07/18 | K3ACT  | Chuck   |
| 05/09/18 | KB3YQK | Tim     | 11/14/18 | W3KNH  | Jamison |
| 05/16/18 | K3MAW  | Mike    | 11/21/18 | KB3YQK | Tim     |
| 05/23/18 | AA3EB  | Ed      | 11/28/18 | K3MAW  | Mike    |
| 05/30/18 | KB3ZYO | Rich    |          |        |         |
|          |        |         |          |        |         |
| 06/06/18 | KB3MUV | Raven   | 12/05/18 | AA3EB  | Ed      |
| 06/13/18 | K3ACT  | Chuck   | 12/12/18 | KB3ZYO | Rich    |
| 06/20/18 | W3KNH  | Jamison | 12/19/18 | KB3MUV | Raven   |
| 06/27/18 | KB3YQK | Tim     | 12/26/18 | K3ACT  | Chuck   |

## 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          |
|------------------------------|-----------------------|------------|---------------|
| Morning Commuter Net         | 147.105+Mhz PL 107.2  | Weekdays   | 0600          |
| 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*