

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



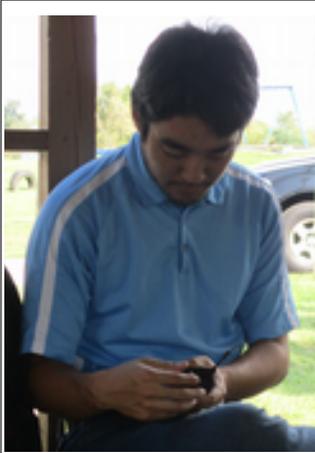
Tom Hogevoll, K3TH; Mark bova, W2PAW, Rich Grace, KB3ZY0; and Jon Binstock, NK3D



Jamison Phipps, W3KNH



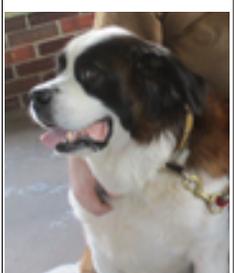
Left to Right Ham Unknown; XYL Unknown; Mark Bova W2PAW; Jon Binstock, NK3D



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*

Used with permission The ARRL Letter for September 20, 2018

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.



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

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

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.]

Used with permission The ARES E-Letter for September 19, 2018

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.



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.

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.

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](#). 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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AA

It's Different for a YL

One YL operator I spoke with recently shared some of her experiences in becoming a contester. 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 contester" 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 contesters 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.

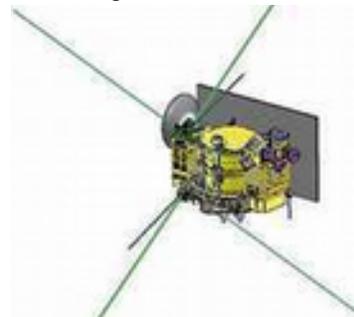
That's all for this time. Remember to send contesting related stories, book reviews, tips, techniques, press releases, errata, schematics, club information, pictures, stories, blog links, and predictions to contest-update@arrl.org

73, Brian N9ADG

Used with permission The ARRL Contest Update for September 19, 2018
AA

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 microsattellites -- 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. [CASC image]

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.

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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*

Used with permission. The ARRL Letter for September 13, 2018

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.

Used with permission The ARRL Letter for September 27, 2018

**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**

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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)

(Next Meeting will be October 21, 2018)
**Maryland-DC Section
TRAFFIC MANAGER'S REPORT**

MDC NTS NETS:

MEPN 1808 W3YVQ QND/31 QNI/412 QTC/47 MINS/795
BTN 1808 AB3WG QND/31 QNI/360 QTC/42 MINS/536
MDD 1808 AA3SB QND/62 QNI/357 QTC/99 MINS/652
MSN 1808 W8CPG QND/31 QNI/132 QTC/24 MINS/531
PSHR: KB3LFG 148, W3YVQ 145, KK3F 140, WB3FTQ
140, K3IN 120, W3CB 117, AA3SB 100, N3JET 100, NI2W
87, WB4FDT 80, AB3WG 65;

TFC: KK3F 1740, K3IN 169, WB4FDT 125, W3YVQ 123,
AA3SB 66, WB3FTQ 60, N3JET 46, W3CB 30, AB3WG 24,
NI2W 22, KB3LFG 1

HF PROPAGATION

MEPN: Propagation was functional throughout AUG 2018. Conditions on MEPN between 1730L and 1800L are now typical of early fall with poor signal strengths some days until after 1800L due to high daytime sun angles. The NVIS prop MUF was remaining above 80M all night many nights. On 40M the prop beyond about 500 miles remained functional all night.

Propagation on MDD early and late was functional throughout AUG 2018.

Sunspot activity continued to decline with numerous spotless days. The sunspot activity was very low. Daytime absorption on HF reached typical summer high levels. Most disturbances to propagation were the result of solar wind from solar coronal holes or simply lack of flux to keep the ionosphere charged. Numerous E layer formations were noted with openings world-wide on the higher bands including 6 Meters.

BTN LOCAL NTS TRAFFIC AND TRAINING NET
The BTN continues to meet on 145.33/R (no tone) daily at 6:30PM local time and continues to welcome new amateurs. The availability of an active directed traffic net of the NTS on VHF is exactly why the BTN was established, providing a welcoming place for newcomers to the Amateur Service. Thanks to all the BTN stations checking into the MEPN via EchoLink.

MEPN ECHOLINK

MEPN representatives check for EchoLink check-ins starting at net call daily via the WB3GXW-L link node (or *WASH_DC* conference node backup if the -L node is not available). A number of BTN and MEPN members, as well as stations outside the area, have used EchoLink to check in when HF is not available to them. Thanks to all.

MSN CW TRAINING

Remember that the MSN provides CW training daily for newcomers to the mode, or those wishing to refresh their skills, daily at 7:30 PM on 3563 kHz. Each trainee works

with an assigned instructor off the net frequency to receive radiograms containing training information. Instructors work with each student at their own desired speed and check-in schedule. All are encouraged to master the art of CW via this net or personal training to support and join the ranks of our MDD Section CW net. Robin, AA3SB, MDD NM, and the veteran staff, will be glad to help you advance to the evening CW full Cycle 4 of the NTS.

Thanks to all the Section traffic net NCS stations, DTN/RR1 and WL2K stations, liaisons, and traffic handlers for the continuing effort to keep the nets running and traffic moving.

Thank you for your continued support of MDC integrated ARES(r) and NTS operations.

73,
Al Nollmeyer
W3YVQ,
MDC ASM, STM
w3yvq@arrl.net
w3yvq@winlink.org from WL2K

Used with permission MDC Section News, September 19, 2018

**UPCOMING HAMFESTS &
SPECIAL RADIO EVENTS**

This is a list of Hamfests in the Maryland-DC Section and nearby Pennsylvania, northern Virginia, West Virginia and Delaware as a courtesy to our neighboring Section Managers.

Also listed are radio events for communication enthusiasts.

For this month our MDC SM adds On-Air Events. For our section members interested in other types of RF communication, events and activities related to the RF spectrum. Please send your suggestions and comments to ARRLMDC@gmail.com

You may view upcoming Hamfests which are being held in the MDC Section and nearby in Pennsylvania, Delaware, West Virginia and northern Virginia area by clicking on either: <http://www.arrl-mdc.net/hamfest.htm> or the ARRL's Hamfest and Convention Calendar at: <http://www.arrl.org/hamfests-and-conventions-calendar>

I, as the MDC Section Manager, Marty Pittinger, KB3MXM, and/or a designated ARRL representative(s) will plan to attend all Hamfests in the ARRL Maryland-DC Section.

We hope to see you there and bring a fellow Ham and friends.

6th Annual TailgateFest

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://drmna.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

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
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**

AA

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

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 ([VoIPWX](#)) on EchoLink Conference WX-Talk, node 7203 or IRLP 9219.

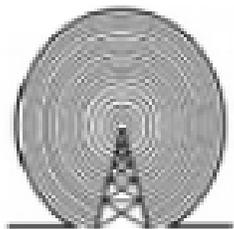
While the storm was still out in the Atlantic, ARRL shipped [Ham Aid](#) kits to the affected region -- the same ones that ARRL volunteers took to Puerto Rico a year ago to assist with disaster communications following Hurricane Maria. The ARRL Headquarters Emergency Response team activated on September 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

**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 1928The Radio Amateur's Code