The Ham Arundel News





Providing Fellowship and Community Service through Amateur Radio Since 1951

November 2019

The Prez Sez

Keith Miller, AE3D

Its November. Two days ago we had 4 candidates for 3 director positions. I was hopeful someone would step up and run for Secretary or Vice President. Instead one of the 4 pulled out of the race. Not what I'd hoped for. We now have just enough candidates for Director positions, and are short two officers, Vice President and

Secretary. Legally we likely can't operate as a Corporation without these officers. So someone, anyone, has to run. As you ponder whether to run (and gosh I hope you're pondering) keep in mind that the Membership Secretary is keeping the Roster now, which includes adding accounts to the web site, and making sure votes for prospective members make it into the meeting agenda. So the Secretary only keeps and types the Minutes, and handles correspondence. This is not the job it used to be. And while the Vice President's duty is to find "presenters" and "presentations" for our club meetings, it is far from overwhelming. Consider that at least 5 of the 23 meetings are already spoken for, and there are ham organizations like the ARRL, the QSL Bureau, AMSAT, NCDXA, PVRC, T-MARC, and so on that can typically provide speakers. So please re-consider running. We could use your help and good judgment. We could also use a chairperson for the Holiday Party, and looking ahead, for Winter Field Dav too. We seem to have lots of Indians, just no chiefs. On a brighter note, I have a tentative "Yes" from someone as Field Day Chairman for 2020, but I can't make that appointment official unless you re-elect me. Hint-hint.

At this point we must look ahead. November means adding new members from the Fall Technician Class, finalizing the Nominations, the ARRL Sweepstakes, and presentations on "Able Archer 83" and "Beekeeping". December is busy with elections, and the holidays. So with that spoken for, we need to be thinking ahead into 2020.

The Rules Committee will hit the ground running in January, tackling updated contest rules for the Maryland DC QSO Party. The Board can vote to accept them mid-February and details can be sent to N1MM and N3FJP, giving them 5 months to update software. With these new rules we hope to increase participation, create more winners, and more effectively reward effort and skill on the part of the participants. Once that is out of the way, the Rules Committee will turn its efforts toward updating the Bylaws, and creation of the Policy Book, which will contain 41st Year of Publication

Rules, Policies and Procedures; and clearly define which is which. This will allow us to effective pass on our collective wisdom to the AARC members of the future. Think of it as a resource not a rule book.

One of my major goals for this year was to complete construction of the Ham Shack, and have it be completely operational by January 1, 2020. So far I have not succeeded. But we are gettin' close. We still need to create a master "headphone/Morse key" control panel for each station keeping users out of the back of the transceivers, and we must complete networking of the logging software. So I'll take the blame for running behind, but only if I can take credit if it's all running by Winter Field Day.

If you remember a year ago, I outlined 3 goals for the Ham Shack Project. It was to be an educational tool, a fun place for members to make contacts, and a good place to participate in events like the Maryland DC QSO Party, and Winter Field Day. We came up with a shack plan to reach those goals, and assembled it. But as you know, a ham radio station is only as good as it's antenna or antennas. Recently we tightened tower bolts and replaced our defective tri-band beam and rotor. The new antenna even has a 40 meter rotating dipole attached. Lest you think all the news is good, one of the OCF dipoles quit working in the wind storm a couple weeks ago. So we can basically only outfit two stations with antennas at this time. We need to fix that ASAP.

Looking forward we have plans to obtain a second tri-band beam with 40 meter rotating dipole by mid-November. A new rotor and log-periodic antenna will be operational shortly on the West Tower giving us 6m through 1296 MHz access. The log periodic is temporary. Our goal here is to have 4 separate high gain antennas for 6m, 2m, 1 1/4m and 70cm. We have two of those and are actively seeking the others. We will use the log periodic until we have them ready to go up.

As you know there are 3 types of interference; spurious emissions, harmonics and front end overload. Most spurious signals are created by one radio, and cause interference to another. The only way to fix this is to swap rigs, and long term we can do that if we have to. Harmonics are very difficult to remove completely, but a single band filter on all transmitted signals can help, plus we can work around the problem. But the big issue for multiple stations in proximity is front end overload. For instance, if you are trying to receive 80 meters and a 40 meter transmitter is on a nearby antenna, the front end filter of your radio is likely to be overloaded, causing the AGC to jump with the offending signal. For Field Day, we correct this problem by putting single band 100 watt filters on all transceivers. These filters attenuate out of band signals, and also lower the level of harmonic output. Thus it helps with two problems not just one.

Now consider our problem. We are going to have transmitters on all bands between 70cm and 160 meters. Any one of those can suffer from front end overload from any other, and the closer in frequency likely the more this will happen. So we need to do two things. First, we need to keep antennas as far apart as possible, and end-to-end or at right angles rather than parallel with one another. Second we need to make as many antennas as possible, single band antennas. Any antenna that is designed for multiple bands will likely receive out of band signals overly well. Thus in the long term, use of an OCF dipole is not recommended. But, we can't take the OCF's down till we have replacements up.

So your antenna committee is working toward two things. First, we need to create antennas for 160m, 80m, 60m, 40m, 30m, 17m and 12m. Then we need to attach all antennas via single band filters, and multi-band antennas like the beams will need multiple switchable filters.

The fly in the ointment is that we own a 600 watt amplifier. Couple that with the fact that higher powers filters are more expensive to build or buy, and be aware we don't just have to build one 600 watt filter, we need to build them all for 600 watts. So though we have received some filters from Ed Wetherholt, who was a master at making them, they are not built for 600 watt use. I suspect since such filters can be over \$100 each, that we may want to learn to build our own, a useful skill for any ham.

One of my goals for 2020 is to create, install and render operational, antennas for 160m, 80m, 60m and 40m plus put separate 6m, 2m, 1.25m and 70cm beams on the West Tower. We will also have to install a tower at the Pedestal for use with our second 20m-15m-10m beam with 40 meter dipole attached. With luck we can create additional antennas for 30m, 17m and 12m completing our antenna system.

So 2020 is going to be a busy year. But... it will be plenty worth it.

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IARU Region 3 Provides for Satellite Uplinks on 15 Meters

IARU Region 3 Provides for Satellite Uplinks on 15 Meters International Amateur Radio Union Region 3 (Asia, Pacific) has approved a modified interim band plan that provides Amateur Satellite uplink frequencies between 21.125 -21.450 MHz. The IARU Region 1 and 2 band plans do not provide for Amateur Satellite usage. "In all cases of conflict between a band plan and the national regulations of a country, the latter shall prevail," the band plan states. "However, it is not recommended to use frequencies outside of the band plan for the Amateur Satellite Service, and it should be noted that the IARU cannot coordinate Amateur Satellite usage of frequencies outside of the band plan." The Region 3 directors met in Tokyo on September 2 - 3. -- Thanks to AMSAT Used with permission The ARRL Letter Oct 3, 2019

Slate of Proposed AARC Club Officers for 2020

As prescribed by the AARC bylaws, and as chairman of the nominating committee for 2020 officers, it is my duty to inform you of the slate of proposed officers and directors for the 2020 board of directors:

Slate Of Proposed Officers And Directors For The 2020 Board Of Directors

President Vice President Secretary Treasurer	Keith Miller, AE3D vacant vacant Willian W. Muzlera- Mooney, KA3UQQ
Director	Jim Wallace, N3ADF
Director	Bernard Coletta
	NK3PS
Director	Eric Berman, KC3GDV

Here's a copy of the bylaws to remind us what comes next:

By no later than the last Thursday in October of every year, the Nominating Committee shall present a slate of proposed Officers and At-Large Directors to the Board of Directors, and shall present such a slate to the Membership at the November business meeting and through the Corporation's newsletter. Additional nominations may be made by Members at the November business meeting. Nominations will be closed at the end of the November business meeting. The November newsletter shall be distributed to Members after the November business meeting, and no later than November 15. The President shall notify all Members not less than ten (10) days before the Annual Meeting for the names of the candidates, the date, time and location of the meeting

73 Chuck Tanner, K3ACT Chairman of the Nominations Committee

The Weather Channel Cites "Old School Tech" Amateur Radio as Storm Resource

Julio Ripoll, WD4R, Amateur Radio Assistant Coordinator of <u>WX4NHC</u> at the National Hurricane Center (<u>NHC</u>) <u>explained</u> Amateur Radio's role during severe weather situations to interviewers from The Weather Channel (<u>TWC</u>). In a September 16 segment headlined, "Using Old School Tech During a Storm," Ripoll -- seated at WX4NHC -- told Weather Channel interviewers Rick Knabb and Mike Bettes, that information NHC forecasters receive via Amateur Radio volunteers and spotters "sometimes fills in gaps they can't get from satellites or reconnaissance."

Knabb recounted an occasion when he was trying to pin down information about a storm system in Central America. "The only way I was able to accurately document what happened with that system in Central America was because of data through the ham radio operators that relayed it," he told Ripoll.

Ripoll cited the WX4NHC volunteer staff of approximately 30 radio amateurs who gather and



essentially screen information gathered via Amateur Radio for weather data that may be of use to forecasters.

Over the weekend, Ripoll expressed appreciation to WX4NHC, Hurricane Watch Net, and VoIP Hurricane Net

volunteers for the time they donate during hurricanes and the reports they send to WX4NHC.

"Sometimes, we sit for hours listening to static. Sometimes, we receive many reports that are unremarkable. Sometimes, we receive very few reports. But then there are those times that one or two reports make a difference," Ripoll said. He noted that NHC Hurricane Specialist Stacy Stewart cited Amateur Radio in a Hurricane Humberto <u>advisory</u>.

The advisory noted, "An Amateur Radio operator at Ports Island near the southern end of Bermuda reported a sustained wind of 75 MPH and a gust to 104 MPH during the past hour. An Amateur Radio operator in Somerset Village recently reported a sustained wind of 70 MPH and a gust to 89 MPH." -- Thanks to Julio Ripoll, WD4R

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ARRL Creates New Online Groups for Members to Communicate with Leadership

ARRL's Committee on Communication with ARRL Members has opened new online forums where all radio amateurs — ARRL members and non-members alike can discuss issues and topics in two-way conversation with ARRL leadership. The new groups are aimed at enhancing communication among ARRL leadership, staff, members, and prospective members, in a manner that enables timely updates and collegial discussion.

This project was based on the success over the past several years of the ARRL-LoTW (Logbook of The World) Group in responding to Amateur Radio operators' questions and generating discussion on ways to improve that program. "The LoTW initiative has clearly demonstrated the effectiveness of online Groups as a means of achieving the desired interaction," ARRL said in announcing the new groups.

ARRL has added three online groups:

• <u>ARRL-Contesting</u> — moderated by ARRL Contest Advisory Committee Chairman Dennis Egan, W1UE.

 <u>ARRL-Awards</u> — moderated by ARRL Radiosport and Field Services Manager Bart Jahnke, W9JJ.

• <u>ARRL-IARU</u> — moderated by IARU Secretary Dave Sumner, K1ZZ.

The existing <u>ARRL-LOTW</u> group, which has about 4,750 members, remains hosted by Groups.io but has moved.

Everyone who subscribes to an ARRL Group is also automatically subscribed to the "ARRL Groups" group. This administrative feature will allow ARRL to convey routine announcements relevant to subscribers of all ARRL groups.

ARRL IT Manager Michael Keane, K1MK, worked with Groups io to set up the new groups. Since these new groups are hosted on a Groups io platform, those wishing to subscribe must use a Groups io username and password, if they have one, or create a Groups io account if they don't.

In the months ahead, the Committee envisions creating more online groups to support two-way communication focusing on areas of additional interest to radio amateurs, including ARRL activities, services, initiatives, and policies.

ARRL currently hosts members-only online forums that include Awards and Contesting. While these forums will continue to operate, participants will be encouraged to post new threads in the appropriate new groups.

Participants will be expected to adhere to some basic ground rules:

• All questions are welcome, no matter how many times they have already been asked and answered, or how obvious the answers might be in the documentation.

• Neither personal attacks nor foul language will be tolerated. Violators will immediately be placed on "moderated" status, meaning their subsequent posts will require Moderator approval until the Moderator's trust has been regained.

• Individuals posting are reminded that these forums are open to everyone, including prospective hams and operators who are not ARRL members but may be thinking about joining. Civility and courtesy are expected, even when you may take issue with a post or thread topic.

The Committee on Communication with Members

believes that providing more opportunities for two-way discussion between ARRL leadership and the broader Amateur Radio community will assist the organization in truly serving the needs of this community.

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Report Causes Concern and Confusion in California's Amateur Radio Ranks

By all credible and reliable accounts, the State of California has *not* turned its back on Amateur Radio as an emergency communication resource nor have established repeater owners been asked to remove their equipment from state-owned sites unless they pay sizeable fees. The California controversy, inflamed by a viral YouTube video, stemmed from a California Department of Forestry and



Fire Protection (CAL FIRE) communication telling a repeater owner or group that Amateur Radio equipment would have to be removed from a state-

owned site or "vault" if the owner(s) determined the cost was too great to proceed with a formal application to keep it there.

"I do understand and appreciate all of the service you have provided in the past," CAL FIRE's Lorina Pisi, told the unknown repeater owner(s) or group(s) last month. "However, with constantly changing technological advances, there is no longer the same benefit to State as previously provided. Therefore, the Department no longer financially supports HAM operators [sic] radios or tenancy. If you desire to enter into a formal agreement to operate and maintain said equipment, you must complete and submit attached collocation application along with fee as outlined on page one of application. There is cost associated with getting an agreement in place."

It's not clear to whom Pisi's memo was addressed, since any name or names were redacted from the version of the memo that is being circulated. ARRL reached out to Pisi this week but has not heard back.

After receiving a <u>lengthy communication</u> from attorney Nathan Zeliff, K6DPS, of Shingletown, California, citing Pisi's letter, Shasta County Sheriff Tom Bosenko did some asking around of his own. He reported that Jim Price, the Communications Center Operation Officer for the State Office of Emergency Services, explained to him that the matter is not a new one, and the issue of repeater equipment in state radio vaults has been going on for 5 years or longer.

"He said this gets down to a local level, if the local officials feel there is a need to have the ham radio repeaters in vaults in their area," Bosenko told Zeliff. "As such, this gets down to authorization for vault space, clearances and authorization to access equipment in the vaults and contract agreements for the equipment to be in the vaults. The matter of cost and who will bear the cost for contracts and vault space has also been an issue for years."

ARRL officials who have also looked into the situation agree that it's been blown out of proportion by parties with their own agendas.

"The State of California has not made any determination we can find 'that Ham Radio [is] no longer a benefit," Pacific Division Director Jim Tiemstra, K6JAT, is quoted on the <u>Sacramento Valley Section website</u>. "What happened is that CAL FIRE has transferred responsibility for its communications sites to its property

management department. That department has the task of evaluating each site, its condition, use, and tenants. If a repeater not known to be associated with the emergency management function of a local jurisdiction is found in a CAL FIRE vault, the default action is to move it out or subject it to commercial rental rates." "Our contact in the

"Our contact in the California Office of Emergency Services suggests that, if any



affected repeater is in any way involved with local emergency or government support activity, they should ask that agency to engage with CAL FIRE concerning the repeater. If the agency makes the case, there is a good chance that the repeater will be unaffected," Tiemstra added.

ARRL Southwestern Division Director Dick Norton, N6AA, has been responding to inquiries with the same message.

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ARRL to Launch New On the Air Magazine

ARRL is launching a new magazine, *On the Air*, in January 2020. To be published on a bimonthly basis, *On the Air* will offer new and beginner-to-intermediate-level radio amateurs a fresh approach to exploring radio



communication. Each issue will include advice and insights on topics from the variety of Amateur Radio interests and activities: radio technology, operating, equipment, project building, and emergency communication. The goal

of this new magazine is to be a vital resource in helping new and newer radio amateurs get active and involved in radio communications. "On the Air responds to the brand-new and not-sobrand-new radio amateur seeking ideas and answers," said QST Managing Editor Becky Schoenfeld, W1BXY. Schoenfeld is part of the ARRL staff team that developed the new magazine. The planning included an extensive national-level study of new Amateur Radio licensees, identifying their motivations for getting licensed and their experiences of getting started. A focus group responded positively to a trial sample edition of the magazine.

"Too many new licensees never take the next step," says Schoenfeld. "We're excited to introduce a new Amateur Radio magazine for this audience, aimed at getting them active, getting them involved, and getting them on the air."

The first issue of *On the Air* will be published in January 2020 (January/February issue) and will be introduced as a new ARRL membership benefit. Effective November 1, when eligible US radio amateurs join ARRL or renew their memberships, they will be prompted to select the print magazine of their choice -- *On the Air* or *QST*. Current members receiving the print edition of *QST*, upon renewal, may choose to continue receiving the print edition of *QST* (monthly) or the print edition of *On the Air* (bimonthly).

All ARRL members, including international members, will be able to access digital editions of both *QST* and *On the Air*. Members who already access *QST* on the web or from the mobile app will be able to access *QST* and *On the Air* starting in January.

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How To Get "Plugged In" To The Amateur Radio Community

By Dan Romanchik, KB6NU

This morning, I found this email in my inbox:

Thank you for your website and great content. I passed the Tech and General tests on Saturday, and I will be taking the Extra exam in November. Your "No Nonsense" guides were very helpful.

I do have a question, though. How do I stay current on what's happening in the ham world?For example the CQ WW SSB contest was this weekend. How do newbies know this kind of thing? How do we find local or regional hamfests and other events?

This is a great question. Like any special interest, it can seem daunting to get plugged in (pun intended) to the community. Here are a few of my suggestions:

Join the ARRL (http://arrl.org/). The American Radio Relay League (ARRL) is really the place to start for information related to amateur radio.*QST*, the ARRL's monthly magazine, includes news about upcoming contests and ARRL-sanctioned hamfests. It also reviews new amateur radio products and provides a wealth of technical information.

In addition to QST, the ARRL publishes many

email newsletters that members can subscribe to. For example, *Contest Update* is a biweekly newsletter that not only lists upcoming contests, but also includes tips on operating contests. The *ARES E-Letter* is a monthly public service and emergency communications newsletters. There are also email newsletters for ham radio instructors, those interested in DX, legislative matters, and satellite operation.

Join your local club. While the ARRL will help you keep abreast of amateur radio news and events nationally and internationally, if you want to know what going on in amateur radio in your area, you should join your local club. To find clubs near you, go to http://www.arrl.org/find-a-club.

Visit the WA7BNM Contest Calendar (https://www.contestcalendar.com/). This contest calendar has become my go-to resource for any and all contest information. This site provides detailed information about amateur radio contests throughout the world, including their scheduled dates/times, rules summaries, log submission information and links to the official rules as published by the contest sponsors. Its features include an 8-Day calendar, a 12-Month calendar, and separate calendars for state QSO parties, CW contests, and QRP contests. You can also get a weekly e-mail of contests taking place in an 8-day period (Monday through Monday), as well as a list of contests scheduled for the next week and a list of log submission information for recent contests.

Ham radio blogs. Blogs are also a good way to keep up with what's going on in amateur radio. I like to think that I do a good job of covering what's going on in amateur radio, but, of course, I can't do it all. That being the case, you might also want read other blogs. Other amateur radio blogs that you might want to check out include:

The K0NR Radio Site

(http://www.k0nr.com/wordpress/)

• QRP-When you care to send the very least (https://w2lj.blogspot.com/)

Everything Ham Radio

(https://www.everythinghamradio.com/)

There are a bunch of other good ones out there. Find the ones you like and subscribe to them, so that you get a notification when new items are posted.

Mailing lists. Mailing lists are kind of old school, but if you have a special interest, chances are that there is a mailing list for it. For example, I own an Elecraft KX-3, so I subscribe to the Elecraft KX User Group mailing list (https://groups.io/g/Elecraft-KX/). Many amateur radio mailing lists are migrating to the Groups.io. To find a list, just click on the "Find or Create a Group" link at the top of the page. I just did a search for "amateur radio" and found 910 different amateur radio mailing lists.

Podcasts and videocasts. Podcasts are also another great way to stay up with amateur radio. I'm partial to theICQPodcast (http://icqpodcast.com/) because I am on the panel once a month. The podcast not only includes a discussion of what's new in amateur radio, but also a feature, which digs a little deeper into a particular topic. Other great podcasts are Ham Radio Workbench (https://www.hamradioworkbench.com/), and Linux in the Ham Shack (https://lhspodcast.info/). Internet video shows that are worth checking out are Ham Radio 2.0 (https://www.livefromthehamshack.tv/), Ham Radio Now (https://www.hamradionow.tv/home), and Ham Nation (https://twit.tv/shows/ham-nation).

This is by no means an exhaustive list. If you have an amateur radio information resource that you find particular helpful, please let me know.Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the ICQPodcast (icqpodcast.com). When he's not trying to keep up with ham radio, he likes to build stuff and operate CW on the HF bands.

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Belarus Team Dominates 16th IARU High-Speed Telegraphy World Championship

The team from Belarus dominated the 16th High-Speed Telegraphy (HST) World Championship in mid-September, sponsored by the International Amateur Radio Union (IARU). Belarus came away with

more than two-thirds of the medals, with several other countries' sharing the teams rest. Representatives of 19 countries participated in the championship, which took place in Albena, Bulgaria, sponsored Bulgarian by the Federation of Radio Amateurs.

Belarus team member Stanislau Haurylenka, EW8GS, ran up a score of 291,597 points, to top the old world record of 288,671 in the Stanislau Haurylenka, male *RufzXP* category. The top speed **EW8GS**. achieved during the attempt was 943

characters/minute or 195 WPM.

Teodora Karastoyanova, LZ2CWW, set a new female record in the same event, with 293,877 points and a



Teodora Karastovanova, LZ2CWW.

maximum speed of 943 characters/minute or 195 WPM. Last May, she set an official female record in the Romanian Championships with 286.944 points.

In all, 60 male and 30 female competitors took part in the events. which included of five reception letter/figure/mixed groups for a period of 1 minute according to the software provided, transmission of five letter/figure/mixed groups for a

period of 1 minute, and "radio amateur practicing tests," using RufzXP software for call sign receiving, and Morse Runner software for pileup receiving.

The HST competition also includes entry categories for "young" males and females (age 16 and younger) and "junior" males and females (up to age 21). Official results as well as the world record list are available online.

The 17th IARU HST World Championship will take place in 2020 in Ulaanbaatar, Mongolia. -- Thanks to IARU Reaion 1

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Lynyrd Skynyrd Founding Member Larry Junstrom, K4EB, SK

Southern Rocker Larry "LJ" Junstrom, K4EB, died on October 6. He was reported to be 70. Junstrom was a founding member and bassist of Lynyrd Skynyrd, although he left the group before it recorded its first album. He's better known as a member of another Southern Rock band, 38 Special, with which he performed from 1977 until retiring in 2014.

"The Big Man on the Big Bass has left us," a statement on the 38 Special website said. "He rocked arenas all over the world and succeeded in living his dream. He was truly one of a kind, a congne who crossed his path."

Licensed in 1962 as WN2LKF. later becoming WA4LKF. he was a regular attendee of Orlando HamCation. Junstrom was inactive in Amateur Radio during his busy years on the road but picked up the hobby again in 1990



and became an avid DXer with 347 entities in mixed DXCC. He was a frequent check-in to the Musicians' Net on 40 meters.

After retiring, Junstrom worked in real estate in north central Florida.

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Happy Birthday **Radio Corporation of America**

The legendary Radio Corporation of America (RCA) incorporated on this date, October

17, in 1919. RCA negotiated patent crosslicensing agreements with other industry leaders, paving the way for the explosive development of American radio in the early 1920s. In 1921. WCC in Chatham. Massachusetts, became the first RCA coastal station equipped with tube sets offering 2 kW on 600 and 2200 meters. The WCC Amateur Radio Association (WCCARA) continues its



year-long celebration of the RCA centennial as WA1WCC/ 100RCA. -- Thanks to Ed Moxon, K1GGI, trustee, WCC commemorative station WA1WCC

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AARC STAFF - 2019 Officers

President	Keith Miller / AE3D president@w3vpr.org	240 758 0423
Vice President	Tim Nagel / KB3YQK vice.president@w3vpr.or	g
Secretary	Steve Grimaud / W3SW0 secretary@w3vpr.org	3
Treasurer	Bill Mooney / KA3UQQ treasurer@3vpr.org	
Director A	Eric Berman / KC3GDV eric.board19@w3vpr.opr	g
Director B	Larry Booth / AA3AU larry.board19@w3vpr.org	I
Director C	Bernie Coletta / NK3PS bernie.board19@w3vpr.c	org
S	Support Staff	
Membership Secretary		
Information Officer	Ed Santilli / KB3YMU info.officer@w3vpr.org	
Safety	John Bowes / KB3YLY safety@w3vpr.org	443 760 1666
Security	Tom Provenza / N3HLD security@w3vpr.org	
Re	presentatives	
ARES/RACES	John Bowes / KB3YLY	
DFRC Rep	ares.races@w3vpr.org Milford Craig / N3WYG	301 218 8867
FAR	dfrc.rep@w3vpr.org Ed Brown / AA3EB	301 856 3317
Fox Hunt	far.rep@w3vpr.org Jim Wallace / N3ADF	
Joint 440 Comm	Gordon Davids / WJ3K	410 647 2956
MD Slow Net	joint440@w3vpr.org (T B A)	
MDC Section Manager	Marty Pittinger / KB3MXM	Л
Public Relations	arrl.sec.mgr@w3vpr.org Ed Santilli / KB3YMU	301 261 7561
Resident Agent	pr@w3vpr.org Justin Leishman / KC3BJ ra@w3vpr.org	т
Trustee	Dick Mayo / WW3R trustee@w3vpr.org	
	Committees	
Club Sale & Auction	Ike Lawton / W3IKE	
Digital Networking	club.sale@w3vpr.org Ted Ruddy	
Facilities	Eric Berman / KC3GDV	
Field Day	facilities@w3vpr.org (TBD)	
Station Manager	field.day@w3vpr.org (TBD)	

(TBD)

Station Manager

Holly Net	Jim Wallace / N3ADF	
HSMM-MESH	holly.net@w3vpr.org (TBD)	
	hsmm.mesh@w3vpr.org	
Kit building & Repair	'Raven' Weiland / KB3MU	/ 203 948 5369
MDC QSO Party	kit@w3vpr.org Jim Wallace / N3ADF	301 538 6233
Newsletter	mdcqsop@w3vpr.org Milford Craig / N3WYG	301 218 8867
Packet Radio	newsletter@w3vpr.org Jonathon Grafe / AE2JG	240 426 2664
Program	packet@w3vpr.org Tim Nagel / KB3YQK	
Public Service	vice.president@w3vpr.org Erick Graves / WA3G public.service@w3vpr.org	410 987 7670
Repeater Ops	John Williams / K8JW repeaters@w3vpr.org	410 647 7406
Rules	Chuch Tanner / K3ACT rules@w3vpr.org	301 464 2667
Service Hours	Jim Wallace / N3ADF service.hours@w3vpr.org	301 538 6233
Tower	(TBD)	
Training	tower@w3vpr.org Keith Miller / AE3D training@w3vpr.org	240 758 0423
VE Team	David Rawley / N3AT testing@w3vpr.org	
Webmaster	Mark Bova / W2PAW	240 274 6294
Wed. Nite Net	webmaster@w3vpr.org Jamison Phipps / W3KNH	
Winter Field Day	wednesday.night.net@w3v Rick Steer / AB3XJ	
	winter.field.day@w3vpr.org	
	Groups	
Board of Directors		
	board19@w3vpr.org	
Kit Building Committee	kitbuilding@w3vpr.org	
Rules Committee	rules.com@w3vpr.org	
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	VE Teating C	a ka dula
Ju Zu La Har	VE Testing S	
	Second Saturday of	each month on – AARC –
David	Rawley, N3AT testing(
Third Saturday of eac	:h month – 9AM – Lau	rel 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 ٠
- Social Security Number or FCC Registration • Number (FRN)
- ٠ **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

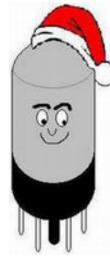
Certificates of Successful Completion of Examination-CSCE)

Fourth Annual American Legion PGCERA

"SantaFest"

December 7, 2019 Remember the Lives Lost in Pearl Harbor







Tables are \$20.00 Each (Includes one Admission per Table)

Tailgating \$15.00 Per Space (Includes one Admission per Space)

Information, Table and/or Tailgate Space Contact: "selbynet@hotmail.com"

> Admission is \$6.00 SantaFest 8:30 AM to 12:00 PM American Legion Youth Camp 9201 Surratts Road Cheltenham MD 20623

VE EXAMS 0900 Hours to 1100 Hours Walk-In Must Sign In No Later Than 1030 Hours SantaFest will take place regardless of the weather. Talk-In K3ERA Repeater 145.230 PL 110.9 Set-Up Starts at 7:00 AM

Pitcairn Island VP6R DXpedition Proving Popular; Injured Operator Evacuated

At mid-week, the Pitcairn Island <u>VP6R</u> DXpedition reported some 35,000 contacts in the log, including what team leader Glenn Johnson, W0GJ, called "a lot of activity" on 12 and 10 meters. VP6R also has been taking advantage of FT8 digital protocol, operating in fox/hound (F/H) mode. The team arrived at the South Pacific island on October 17 and at the home of Andy Christian, where

the DXpedition's equipment had shipped been well in advance. The team is down to 12 operators after one individual fell suffered and several



fractures. "Our evacuated team member has made it to the hospital in Papeete, French Polynesia," Johnson said in a mid-week update. "DXpeditions to remote places are not without risk, and medical care is quite limited at best," he pointed out in an earlier report. The injured operator is not being identified for privacy reasons.



By Saturday, the DXpedition team had settled into its operating routine from two sites -- one at Christian's home and the other at an old radio station site that is serving as VP6R's primary low-band site. "Pitcairn has power from 8 AM until 10 PM," Johnson explained. "After 10 PM, we switch to generators until morning. The 'radio site' is 100% generator powered."

Johnson stressed that those attempting to work VP6R on FT8 in F/H mode must use a frequency above 1,000 Hz; the DXpedition is transmitting somewhere below

500 Hz. "The software will move your transmit frequency down automatically when your turn comes up in the queue, if you have F/H mode set up properly." he said. "If you see your FT8 contact confirmed with



'RR73,' you can be assured that you are in the log."

VP6R is active around the clock on 20 meters on more than one mode. The DXpedition team will be on all bands during the <u>CQ World Wide DX</u> phone contest, October 25 - 26. The VP6R logs are periodically uploaded to <u>Club Log</u>.

Third-graders at Dorothy Grant Elementary School in Fontana, California, and their teacher Bev Matheson, WA6BK, are following the Pitcairn Island DXpedition teams travels and amateur radio operation, using the school's club station, K6DGE. They will talk with DXpedition team members and learn about Pitcairn Island, some geography, a bit about early explorers, navigation, the oceans, ecology, different customs and heritages, and communication skills. "We are thrilled to have these kids following us and expanding their world through amateur radio," the VP6R team said on its website.

Used with permission The ARRL Letter for October 24, 2019

Australian Regulator Reinstates US Amateur Radio License Reciprocity

Australian Regulator Reinstates US Amateur Radio License Reciprocity The Wireless Institute of Australia (WIA) reports Australia's communications regulator, the Australian



Communications and Media Authority (ACMA) is reinstating the reciprocal arrangement for US Amateur Radio license holders. "The reinstatement follows a period of suspension of reciprocity precipitated by a complainant objecting to the granting of [Australian] licenses," a WIA statement read. "The WIA believes that irrespective of the motivations of the complainant to raise their objections, the impact of the suspension was only to increase barriers to entry to Amateur Radio in Australia, and was most unhelpful." The WIA expressed its pleasure that the restriction was lifted. A reciprocal license is valid only for 12 months from the date of issue and cannot be renewed or extended unless the holder passes the local regulations examination.

Used with permission The ARRL Letter Oct 3, 2019

Net Control Radio Operators

ARE NEEDED

during the work-weekdays -

from 0700 to 0900 am.

Contact: Jim Wallace, N3ADF

W1AW 2019 Spring/Summer Operating Schedule

Morning Schedule:

Time	Mode	Days
1300 UTC (9 AM ET)	CWs	Wed, Fri
1300 UTC (9 AM ET) 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:

0000				0144	Man Mad Eni
2000	010	(4 PM	EI)	CWf	Mon, Wed, Fri
2000	"	"		CWs	Tue, Thu
2100	"	(5 PM		CWb	Daily
2200	"	(6 PM		DIGITAL	Daily
2300	"	(7 PM	ET)	CWs	Mon, Wed, Fri
2300	"		"	CWf	Tue, Thu
0000	"	(8 PM		CWb	Daily
0100	"	(9 PM	ET)	DIGITAL	Daily
0145	"	(9:45 l	PM ET)	VOICE	Daily
0200	"	(10 PN	IET)	CWf	Mon, Wed, Fri
0200	"		"	CWs	Tue, Thu
0300	"	(11 PI	M 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@arrl.org.

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

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 93 in the March 2019 issue of QST or on the web at, <u>http://www.arrl.org/w1aw-operating-</u> schedule

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The International Lighthouse/Lightship Weekend

The International Lighthouse/Lightship Weekend (<u>ILLW</u>) will hold its 23rd annual operating event in 2020 a week later than



usual. The event is usually held on the third full weekend in August, but this year, that date coincides with the 75th anniversary of the cessation of hostilities in the Pacific during World War II. "The organizers of the event have decided it would be inappropriate to hold the ILLW event on the third full weekend of August next year, as many stations will be involved in commemorating the important

anniversary of VP day, especially those bordering and within the Pacific Rim," said ILLW Organizer and Webmaster Kevin Mulcahy, VK2CE. "We trust this temporary move to August 22 - 23 will not inconvenience anyone." Mulcahy said this year's 22nd annual event "was again very successful," with 426 stations in 50 countries, plus others who did not register participating. "Several new countries and lighthouses were listed this year," he reported.

Used with permission The ARRL Letter Oct 3, 2019

AMSAT Goal: "Amateur Radio in Every CubeSat"

AMSAT wants to see Amateur Radio in every CubeSat, and it's partnering with non-Amateur Radio partners to make that happen. In the "Apogee View"



editorial for the September/October issue of *The AMSAT Journal*, Executive Vice President Paul Stoetzer, N8HM, wrote,

"[W]e continue to support a stream of LEO satellites. RadFxSat-2/Fox-1E is ready for launch no earlier than December 1, 2019, on the ELaNa XX mission. The linear transponder and telemetry system carried aboard Fox-1E was designed for use in different CubeSats by merely adding an interface adapter for connection to the host bus."

Stoetzer said CubeSat programs interested in launching Amateur Radio an payload may partner with AMSAT to carry a Fox-1E module on their spacecraft. "By providing Amateur Radio capability, the CubeSat program gets а worldwide ground station network to receive their telemetry and experiment data while the Amateur Radio community gets a



AMSAT Executive Vice President Paul Stoetzer, N8HM.

transponder to use in orbit," he pointed out.

Stoetzer said the first such partnership will be with the Husky Satellite Lab at the University of Washington. Its 3U CubeSat -- HuskySat-1 -- is set to launch on the ELaNa XXV mission from Wallops Island, Virginia, no sooner than November 2. A Northrop Grumman *Cygnus* spacecraft will carry HuskySat-1 to the International Space Station, and after completing its mission there, *Cygnus* will continue to an orbit of approximately 500 kilometers (310 miles) to deploy HuskySat-1.



"After a 30-day mission to complete tests of its experimental payloads -a pulsed plasma thruster, and a K-band (24 GHz) communications system -the satellite will be turned over to AMSAT, and the linear transponder will be

made available to the Amateur Radio community," Stoetzer said.

AMSAT will celebrate its 50th anniversary at its 2019 Board of Directors meeting and AMSAT Space Symposium October 18 - 20 in Arlington, Virginia. --Thanks to AMSAT News Service

Used with permission The ARRL Letter for October 17, 2019

US Coast Guard Airs Proposal to End MF Navigational Telex (NAVTEX) Broadcasts

The US Coast Guard is seeking comments on a proposal that it may stop broadcasting medium-frequency (MF) Navigational Telex (NAVTEX). The service says it first will ensure that the information contained in NAVTEX broadcasts is available via International Maritime Organization-recognized satellite services. Interested parties may submit comments online by November 12. The proposal is docket USCG-2019-0702. Comments should include the docket number, specific section of the document to which each comment applies, and a reason

for each suggestion or recommendation. Comments may be anonymous.

"Current MF NAVTEX equipment is need dire of in replacement. The equipment is antiguated. and essential replacement parts are difficult to find and expensive, placing



overall operation of MF NATEX at risk," the Coast Guard said. "Any approved GMDSS satellite terminal will be able to receive this information."

NAVTEX is an international automated service for radio delivery of navigational and meteorological warnings and forecasts, as well as urgent maritime safety information. It provides a low-cost means of broadcasting this information to ships out to approximately 100 nautical miles offshore. NAVTEX is part of the Global Maritime Distress and Safety System (GMDSS) which has been incorporated into the Safety of Life at Sea (SOLAS) treaty, to which the US is a party. The US Coast Guard operates the system nationwide.

System coverage is reasonably continuous in the east, west, and Gulf coasts of the US, as well as the area around Kodiak, Alaska; Guam, and Puerto Rico. The US has no coverage in the Great Lakes, although coverage of much of the Lakes is provided by the Canadian Coast Guard. The US Coast Guard originally only installed NAVTEX at sites where Morse code messages had been previously transmitted, and some coverage gaps exist.

"We believe the transition from terrestrial broadcast to satellite will provide for more reliable delivery of NAVTEX information and allow better, more costeffective products in the future," the Coast Guard said.

Used with permission The ARRL Newsletter, Oct 10, 2019



NASA Spacecraft Launches on Mission to Explore Frontier of Space

NASA's lonospheric Connection Explorer (ICON) spacecraft is in orbit for a first-of-its-kind mission to study a region of space where changes can disrupt communications and satellite orbits, and even increase radiation risks to astronauts. ICON was launched on October 11 after a Stargazer L-1011 aircraft from Cape Canaveral Air Force Station in Florida carried it to about 39,000 feet. Then, a *Pegasus* rocket fired the roughly refrigerator-sized ICON into space.



An artist's rendering of NASA's ICON spacecraft, which was launched into space last week at 39,000 feet from a L-1011 Stargazer aircraft. [NASA image]

The spacecraft's solar panels successfully deployed. indicating it has power with all systems operating, NASA reported. ICON will start sending back its first science data in November. **ICON**

will study changes in the

ionosphere, where, in addition to affecting radio signal propagation, space weather can prematurely decay spacecraft orbits and expose astronauts to radiation-borne health risks. "Historically, this critical region of near-Earth space has been difficult to observe," NASA explained. "Spacecraft can't travel through the low parts of the ionosphere and balloons can't travel high enough." ICON's orbit around Earth places it at a 27° inclination at an altitude of about 360 miles, from which it can observe the ionosphere around the equator.

Nicola Fox, Director for Heliophysics at NASA Headquarters in Washington, said that ICON will be the first mission to simultaneously track what's happening in Earth's upper atmosphere and in space to see how the two interact, causing the kinds of changes that can disrupt radio communication. ICON will employ four instruments to explore the connections between the neutral atmosphere and the electrically charged ionosphere. Three of these rely on the phenomenon called airglow, which is created by a process similar to that which causes aurora -- gas is excited by radiation from the sun and emits light. By way of airglow, ICON can observe how particles throughout the upper atmosphere are moving. ICON's fourth instrument provides direct measurements of the ionosphere around it.

Amateur Radio on the International Space Station (<u>ARISS</u>) veteran Will Marchant, KW4WZ (ex-KC6ROL), is part of the ICON team.

Used with permission The ARRL Letter for October 17, 2019

PACTOR Developer SCS Announces Monitoring Software

SCS, the company that created PACTOR, has <u>unveiled software</u> that offers the ability to monitor the content of PACTOR 1, 2, and 3 transmissions over the air. The free *PMON* software runs under the Linux operating system. A software version to monitor PACTOR 4 is scheduled to become available next year. *PMON* will offer "thorough observation and documentation of all presently available PACTOR 1, 2, and 3 transmissions," SCS said.



"PMON covers all PACTOR levels with the appropriate speed levels and packet variations," SCS said. "PMON will

read in parallel PACTOR 2 and PACTOR 1. The very wide receiving range (frequency offset ±200 Hz), as well as automatic sideband recognition, ease routine operation of *PMON* with PACTOR 2 and PACTOR 3 considerably."

According to SCS, only minimal hardware is required to use *PMON*. The equipment complement includes a Raspberry Pi 3 Model B+ (minimum) computer and a USB sound device. SCS noted in an October 11 news release that all SCS PACTOR hardware modems include a command to allow PACTOR monitoring on the fly. The German company says *PMON* now makes this possible *without* a modem and adds the ability to decode B2F/LZHUF-compressed messages -- Winlink email and others.

"This exciting new software development for Raspberry Pi complements and surpasses previously released SCS software that leveraged PACTOR modems' ability to monitor PACTOR to read Winlink for meaning," SCS said. The company also said the new software permits modem-less monitoring of all kinds, something that would be useful for monitoring Winlink email traffic.

The Winlink Development Team called the new software a "welcome contribution to the Amateur Radio community."

The issue of message encryption arose in recent months with respect to renewed attention to ARRL's socalled "symbol rate" petition for rulemaking (<u>RM-11708</u>) and the accommodation of automatically controlled digital stations (ACDS) -- many of which employ Winlink. Some commenters on ARRL's petition expressed concerns that PACTOR message encryption was a violation of FCC Amateur Service rules.

Used with permission The ARRL Letter for October 17, 2019



SECTION TRAFFIC MANAGER'S REPORT

MDC NTS NETS:

 MEPN
 1909
 W3YVQ
 QND/30
 QNI/365
 QTC/30
 MINS/611

 BTN
 1909
 AB3WG
 QND/30
 QNI/309
 QTC/18
 MINS/470

 MDD
 1909
 AA3SB
 QND/59
 QNI/239
 QTC/78
 MINS/472

 MSN
 1909
 N3AEA
 QND/28
 QNI/120
 QTC/103

 MINS/540

PSHR: KK3F 150, KB3LFG 143, W3YVQ 135, K3IN 110, N3JET 100, AA3SB 100, WB3FTQ 100, NI2W 85, AB3WG 67;

TFC: KK3F 1221, K3IN 259, WB3FTQ 70, W3YVQ 58, AA3SB 51, N3JET 46, NI2W 20, AB3WG 17

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HF PROPAGATION

MEPN: The net NVIS propagation was functional throughout September, 2019, with good signals after 1800L most evenings. Due to the low solar activity, the afternoon propagation suffered with less effective NVIS propagation between 1730L and 1800L, often with the residual E layer from the daytime sun angle obscuring the F1-F2 layers overhead, although this effect is diminishing as the days grow shorter. Signals tended to improve after 1800L. The MEPN DTS stations continue to also provide liaison with the national digital messaging services including DTN and Winlink.

MDD: September NVIS propagation for local MDC stations on MDD early was good but we experienced a few late sessions suffering from low MUFs. As September progressed, the reducing sun angle allowed the MUF to drop close to, or below, the frequency for the late session a trend continuing into OCT. This is early to be seeing this, and no doubt represents the very low solar activity. It will be an interesting winter. John, WB3GXW-L, continues to make that EchoLink resource available for MDD use on nights when propagation fails.

CW OPERATORS NEEDED

Additional CW operators are needed for liaison to MDD and to the higher nets, and Net Control Stations are also needed on MDD and 3RN/C4. The evening NTS and RRI nets in Cycle-4 nation-wide are conducted on CW.

MEPN/MDD/3RN ECHOLINK

MEPN representatives check for EchoLink checkins starting at net call daily via the WB3GXW-L link node (or *WASH_DC* conference node backup if the -L node is not available).

MSN CW TRAINING

The MSN net continues to operate and serve nightly at 1930L on 3563 kHz. Ron, N3AEA, is stepping up to fill the Net Manager's role. Thanks, Ron. Show your support by checking in even if you do not take training. MSN needs NCS stations and liaison stations to early and late MDD. Ron could use your help.

BTN LOCAL NTS TRAFFIC AND TRAINING NET

The BTN continues to meet on 145.33/R (no tone) daily at 6:30PM local time. The BTN was established to provide a welcoming place for newcomers to the Amateur

Service, and their first exposure to directed traffic nets and message handling. The NM, AB3WG, has initiated plans for broader cooperation between BTN and MSN to foster more awareness between operators using the respective modes. Instructive message swapping and liaison duties are in effect.

Thanks to all the Section traffic net NCS stations, RRI/DTN 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), RRI, and NTS operations.

73, W3YVQ, MDC ASM, STM

w3yvq atsign arrl dot net

w3yvq atsign winlink dot org from WL2K

Used with permission MDC Section News, Thursday, October 17, 2019

AARC and South River High School STEM Program

Eric KC3GDV, MDC Section Youth Coordinator (SYC) provides excellent coordination and support for our youth programs. Most recently Scouting Troop 442 Annapolis will visit the Anne Arundel Club for a tour. Another opportunity - volunteers needed for any or all of the four days.

The ARRL Maryland DC Section and Anne Arundel Radio Club will be hosting the South River HS STEM program. The program is to expose the students to radio technology.

Each day there will be approximately 25 students and they will be divided into 5 groups.

1. Radio Operations in the AARC Ham Shack (Hands-on)

2. Space Weather (Presentation)

- 3. Soldering (Hands-on)
- 4. Basic Electronic and Ohms Law (Presentation)

5. Radio direction-finding (Hands-on)

Here are the times and days::

8:00 am to 2:00 pm. on the following dates. Wednesday, Oct, 23 and Thursday, Oct. 24 Wednesday, Nov. 13 and Thursday, Nov. 14 **Location:**

Davidsonville Family Recreation Center 3789 Queen Anne Bridge Road Davidsonville, MD 21035

73 Eric Berman

KC3GDV MDC Section Youth Coordinator (SYC)

Used with permission MDC Section News, Thursday, October 17, 2019



The Ham Arundel News is the monthly official publication of

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

Editor: Milford Craig / N3WYG Send newsletter articles, questions and information to Milford at newsletter@w3vpr.org Deadline for submissions – The Saturday after the 3rd Thursday of the month

Mailing Address:

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

Meetings:

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

Dues:

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

World Wide Web:

www.w3vpr.org

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

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Free Money for AARC! ARRL Membership Reminder

ARRL affiliated clubs receive a commission for every new ARRL membership and renewal they submit to ARRL Headquarters. Clubs retain a portion of the dues for each regular or senior membership submitted to ARRL Headquarters:

Clubs retain \$15 for each new membership OR lapsed membership (of two years or more). Clubs retain \$2 for each renewal.

A RENEWING MEMBER can renew at any time, even before their current membership expires.

Send your application and payment (made out to AARC) to the club treasurer.



Mark Your Calendars

REGULAR ACTIVITIES

Club Meetings are held on the first and third Thursdays of the month from 7:30 to 9PM at the clubhouse located at the Davidsonville Family Recreation Center in Davidsonville, MD

Free License Exams every 2nd Saturday of the Month - Check in at Noon, Exams at 1PM - At the clubhouse - Contact David Rawley / AE5Z, testing@w3vpr.org

Weekly AARC 2-Meter Net on 147.105 (Typically linked to 147.075 and 444.400 with CTCSS tone of 107.2 Hz) every Wednesday at 8 PM - All Welcome

2 meter "HOLLY NET" on 147.105 (Typically linked to 147.075 and 444.400 with CTCSS tone of 107.2 Hz) every morning 7:00 am to 9:00 am. All hams are welcome.

EVENT SCHEDULE

Saturday, November 2, 8:30am Teaching the Technician Class

Saturday, November 9, Able Archer 83 8:30am, Technician Class

Sunday, November 10, Able Archer 83

Sunday, November 24 ,1:00pm AARC Kit-building, troubleshooting and repair, at 1 to 4 PM at the clubhouse

"Able Archer 83"

November 7th walt KB3SBC will present "Operation Able Archer 83, A world on the brink", all about a NATO exercise that almost ended the world as we know it. And our DFRC site was right in the middle of it. Learn all about it on the 7th and then a few days later, come celebrate with a Special Events Station complete with 1983 era military equipment.

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Bee Keeping

On November 21st, Jack Estevez, KB3WUM will have the place buzzing. Luckily its only figuratively, as he tells us all about Bee Sense, a summary of honey bee rescue and hobby beekeeping. Jack is a frequent checkin on the Holly Net from his lofty perch as a crane operator in DC. Amazing what being up 10 stories can do for an HT's signal.

Hawaii Contest Station and Winlink Leveraged for 2019 Simulated Emergency Test

ARES volunteers in Hawaii took the opportunity of the 2019 Simulated Emergency Test (SET) on October 6 (UTC) to test <u>Winlink</u> radio messaging to the US mainland, using the <u>KH6YY</u> (KH6J) contest station on O'ahu. One of the premier contest stations in the middle of the Pacific Ocean, KH6YY offers a commanding propagation path over an expanse of saltwater.

"You have to start with digital modes somewhere," ARRL Pacific Section Manager Joe Speroni, AH0A, said.

A group of radio amateurs has developed a robust Winlink system in the Hawaiian Islands to help support communication in a natural disaster. The Amateur Radio email system is well known for its role in emergency and disaster relief communications, providing the ability for users to exchange email with attachments, photos, position reporting, weather, and information bulletins.

KH6YY sports eight antennas, most on 90-foot towers, and nine operator positions. For the SET, the station was configured to receive traffic on 7,100 kHz (dial frequency) in PACTOR, WINMOR, ARDOP, and VARA modes. The four-element 40-meter beam was aimed at Hilo. Simulating an internet outage, the setup was used to pass received traffic to a second 20-meter gateway on 14,100.5 kHz and forwarded to a mainland gateway with internet access.

Incoming message traffic on 40 meters would be automatically forwarded to the mainland on 20 meters. Most of the traffic went to gateways in Mexico and Texas for forwarding to the internet. One user reported receiving email confirmation that a message was received within minutes. Read <u>more</u>. -- *Thanks to Stacy Holbrook*, *KH6OWL*

Used with permission The ARRL Newsletter, Oct 10 2018

Tokelau Islands ZK3A DXpedition

The Tokelau Islands ZK3A DXpedition has ceased

operation early. Due to the illness of an Island resident, the ZK3A Tokelau Islands DXpedition shut down a couple of days ahead of schedule. "ALL TEAM MEMBERS ARE FINE!" said an announcement on website. "A the ZK3A person on the island is ill.



So, they have sent the boat there early to get this person medical help. The team has ceased operations and [is] packing up all equipment to get on that boat, because there will not be another boat for 10 days." As of October 8, ZK3A had logged approximately 50,000 contacts in 7 days of operation on CW, SSB, RTTY, FT8, and EME, as well as 10 contacts on slow-scan TV. The DXpedition had been set to conclude on October 11. Used with permission The ARRL Letter Oct 10, 2019

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Ohio Sheriff Observes and Participates in ARES Simulated Emergency Test

One public official in Ohio not only observed the ARES Simulated Emergency Test (SET) this month but participated in it with Greene County ARES (<u>GCARES</u>). Greene County Sheriff Gene Fischer, KX8GCS ("Greene County Sheriff"), checked in when the Resource Net Control, Bob Baker, N8ADO, called for volunteers. Although the suggested scenario called for only using simplex, GCARES employed the Xenia Amateur Radio Weather Net (XWARN) repeater to reach out for as many volunteers as possible. Volunteers then switched to a simplex tactical net to communicate with the GCARES Command Center.

Before the SET, Greene Fischer let County ARES Emergency Coordinator Henry Ruminski, W8HJR, know that he planned to participate in the SET to determine how well his handheld radio would perform in an emergency situation. While he found it okay getting into for the resource net, it was less than adequate for effective operation.



simplex Greene County Sheriff Gene Fischer, KX8GCS.

Sheriff Fischer had an intense

introduction to ham radio in the spring of 2017 when the Dayton Hamvention[®] moved to Xenia, and his department dealt with traffic control and other issues created by the influx of more than 25,000 visitors. At the urging of several hams, Fischer subsequently got his license, and his wife became relicensed. Fischer has since upgraded to General.

Ruminski said the SET was "relatively successful." Signals could have been better from some locations, but most stations were able to communicate with command, he said. Lessons learned will be used to improve future emergency communication plans.

Used with permission The ARRL Newsletter, Oct 10, 2019

AARC Mesh Networking Group

1:00 to 4:00 PM monthly, on the 3rd Sunday of the month AARC Clubhouse, Davidsonville, MD (Next Meeting will be Oct. 20, 2019.)

AARC Repeaters and Nets

2 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	147.105+	107.2	AARC Repeater with morning traffic net.
Glen Burnie	147.075+	107.2	AARC repeater Located in Northern AA County.
BrandyWine	147.150+	114.8	SMARC Repeater.
Prince Frederick	145.350-	156.7	SPARC/CARC Repeater.
Laurel	147.225+	156.7	Laurel ARC Repeater.
Millersville	146.805-	107.2	Repeater.

1.25 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	223.880-	107.2	AARC 1.25M repeater *check to see if tied into 7.105
Millersville	224.560-	107.2	AARC repeater Located in Northern AA County.

70cm Repeaters

Location	Frequency	Tone	Notes
Davidsonville	444.400+	107.2	AARC 70 cm Repeater.
Annapolis	442.300+	107.2	AARC 70 cm repeater
Laurel	442.500+	156.7	Laurel ARC 70 cm Repeater.
Millersville	449.125-	107.2	Maryland Mobileers Repeater.
Upper Marlboro	443.600+	103.5	SMARC 70 cm Repeater.

Packet Stations

Location	Frequency	Call	Notes
Davidsonville	145.050	W3VPR	AARC Club packet node running JNOS
Davidsonville	145.010	W3VPR-5	Digipeter Relay to EOC Winlink
Millersville	145.010	W3AAC-5	Digipeter Relay to EOC Winlink
Glen Burnie	145.010	W3AAC-10	EOC Winlink system and digipeter

Amateur Radio NETS

Name	Frequenc	y (in Mhz)	Day	Time
The "Holly Net"	147.105+	PL 107.2	Weekdays	0700
AARC Talk Net	147.105+	PL 107.2	Wednesday	2000
AA County ARES Net	146.805-	PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670-		Daily	1830
Boating Net	146.805-	PL 107.2	Wednesday	1930
Maryland Emergency Phone Net	3.920		Daily	1800
Maryland-DC-Delaware Traffic Net	3.643		Daily	1900 and 2200
Maryland Slow Net	3.563		Daily	1930
React Net	442.300+	PL 107.2	1st Sunday	1930

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

REPEATER FREQUENCIES

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

PL: 107.2 for all repeaters

The 147.105 and 147.075 repeaters are frequently linked. Please leave an extra second after the courtesy beep to allow the link to reset as well.

Visitors are welcome to all meetings and nets. Meetings are held in the Clubhouse at the Davidsonville Family Recreation Center, Queen Anne Bridge and Wayson Roads off MD Route 214 near Davidsonville, MD. For en-route directions,make initial contact on the 147.105 repeater.

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Wednesday Night Talk Net -- All are welcome

8PM, On the AARC Repeater 147.105

Name	Frequency		Day	Time
The "Holly Net"	147.105+Mhz PL 10	7.2	Weekdays	0700
AA County ARES Net	146.805- Mhz PL 10	7.2	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 Pl	_107.2	Monday	1930
Maryland Slow Net	3.563 MHz		Daily	1930
REACT Net	442.300+Mhz PL	107.2	1st Sunday	1930

Other Amateur Radio nets

The Radio Amateur Operator is...

CONSIDERATE

...He/[She] never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL

...He/[She] offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his/[her] country, through which Amateur Radio in his/[her] country is represented nationally and internationally.

PROGRESSIVE

...He/[She] keeps his/[her] station up to date. It is well-built and efficient. His/[Her] operating practice is above reproach.

FRIENDLY

...He/[She] operates slowly and patiently when requested; offers friendly advice and counsel to beginners; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

BALANCED

...Radio is a hobby, never interfering with duties owed to family, job, school or community.

PATRIOTIC

...His/[Her] station and skills are always ready for service to country and community.

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