

# The Ham Arundel News



Providing Fellowship and Community Service through  
Amateur Radio since 1951



October 2020

42nd Year of Publication



Keith Miller, AE3D

**Prez**

**Sez**

The further I get into 2020, the further behind I get. I am now beginning to see myself in the role of poster child for the over-extended. But in doing so, I've learned a few things about myself. For instance one is, that I need to apologize to a lot of you for promising results a bit faster than I can deliver. I hope you realize I mean well, I just can't keep up. Plus my memory isn't as near a steel trap as I wish. So please excuse me if I sound a bit 'poor pitiful Prez' here, and read on. This is actually funny in a lot of ways.

One of the things slowing me down this month was the Maryland DC QSO Party. Out of our 260 members, 3 people were all that volunteered to help handle the results. I used to wonder why it took months to do. Not any more! I can't thank Jim Wallace, N3ADF our Maryland DC QSO Party Team Leader, and Huey Treadwell, AB3GS enough. I know the President should not be the one figuring out who all the winners were. But do I think he should be the one who makes sure in the end, the AARC comes out looking good. Amazing what logic I must use to convince myself to do this crazy stuff.

Speaking of amazing, you'd be amazed how poorly some folks fill out their entry forms. I found at least 10 people who worked W3VPR but didn't check the box to claim credit. And there were those who used the online form, but didn't think checking all the boxes for counties, states and provinces were important. Did you know you can't multiply by Null? So when the software computed their scores, they got a blank line. Of course, I had to fix it so they didn't look down on the AARC for mishandling the contest. This resulted in me downloading the Cabrillo file, and doing exactly what the entrants did not do, check all the right boxes. Does my shirt have "SAP" written on it? Don't answer that.

But then just to prove it's really my problem, not yours, I listened to Tim Nagel, KB3YQK and Chuck Tanner K3ACT at our Rules Committee meeting, and I am now in process of creating a database that can do most of what I did by hand with spreadsheets this past month, using the automation of a database.

So you have a clue what this has to do, first you fix all the errors in the entry data. Then you compute everyone's score, divide them up into 8 in-state categories, and 6 out-of state, for a total of 14. Then you rank each group from 1 to whatever, and change those rankings to ordinals, like Winner, 2<sup>nd</sup>, 3<sup>rd</sup>, etc. Now you put all the in-states in one spreadsheet, and all the out-of-states in another. You can then divide those two up into two more groups each, those who were Top 10 and those who weren't. For the Top 10s you print mailing labels and do a mail merge to print the Certificates and edit the results by hand before printing. For 11-plus you print a different kind of Certificate, after

creating a watermark that includes the background and the border. After another edit job, you create another mail merge that gets printed to .pdf one at a time, and gets emailed to the contestants one at a time. I'm exhausted just typing this.

Did I forget to mention I had to set up a new email address to send these from? Oh and I forgot, you have to figure out which categories had 5 or more entries, then arrange for the Winners to get Certificates. Jim Wallace, did that one, after figuring out that our local G&S engraver is not the same G&S engraver who prints the plaques for us in Pennsylvania. Good work Jim! Who knew?

Now of course the database won't do the mail merging, or label printing, or print out the PDF Certificates to be emailed. But it will pretty much automate the rest, something that took about 4 days with spreadsheets. Excuse me while I kick myself.

But I don't have much time, because the Fall Technician Class starts October 10. Plus in case you are wondering I have yet to really get going on the clubs logbooks for Field Day. A big "I'm Sorry" to Dick Maio, WW3R to whom I still owe paperwork.

I am not complaining. As Super Chicken, of George of the Jungle fame, always said, "You knew what the job was when you took it Fred." I wouldn't do this job any other way. Am I nuts. Of course. I want things to run right, and happen in an orderly fashion. Yes. I do get a kick out of making a computer actually do what I want it to do. So I do actually enjoy doing some of this. But please, don't anyone put a "Kick Me Hard" sign on my back, no matter how much I deserve it. Really!

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## **First Element of ARISS Next-Generation Radio System Installed and Operating on ISS**

The initial element of the Amateur Radio on the International Space Station (ARISS) next-generation radio system has been installed onboard the ISS, and amateur radio operations using the new gear are now under way.

The first element, dubbed the InterOperable Radio System (IORS), was installed in the ISS Columbus module. The IORS replaces the Ericsson radio system and packet module that were originally certified for spaceflight in mid-2000.

"Finally! It's been a scramble the last few days with coordination over the weekend and yesterday with astronaut Chris Cassidy, KF5KDR," ARISS-US Delegate for ARRL Rosalie White, K1STO, said. "But the new ARISS radio system is now installed, set up, and functioning. What a long road we've traveled over the past 5 years!"

Initial operation of the new radio system is in FM cross-band repeater mode using an uplink of 145.99 MHz (CTCSS 67 Hz) and a downlink of 437.800 MHz. System activation was first observed at 01:02 UTC on September 2. Special operations will continue to be announced, ARISS said.

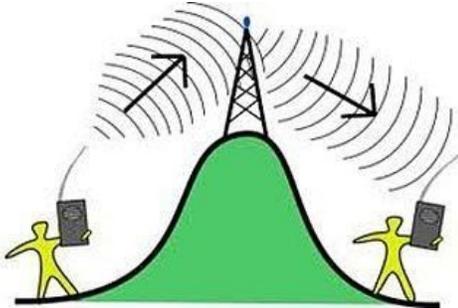
The IORS was launched from Kennedy Space Center last March onboard the SpaceX CRS-20 resupply mission. It consists of a special, "space-modified" JVC-Kenwood D710GA transceiver, an ARISS-developed multi-voltage power supply, and interconnecting cables. The design, development, fabrication, testing, and launch of the first IORS was the culmination of a 5-year engineering effort by the ARISS hardware team of volunteers.

ARISS says the system "will enable new, exciting capabilities for ham radio operators, students, and the general public." Capabilities include a higher-power radio, voice repeater, digital packet radio (APRS) capabilities, and a Kenwood VC-H1 slow-scan television (SSTV) system.

reprinted from ARRL *Space Bulletin 005*, September 2, 2020

# REPEATER FREQUENCIES

|                      |                     |                    |                  |
|----------------------|---------------------|--------------------|------------------|
| <b>Davidsonville</b> | <b>Millersville</b> | <b>Glen Burnie</b> | <b>Annapolis</b> |
| <b>147.105+</b>      |                     | <b>147.075+</b>    |                  |
| <b>223.880-</b>      | <b>224.560-</b>     |                    |                  |
| <b>444.400+</b>      |                     |                    | <b>442.300+</b>  |



**PL 107.2 is active for all repeaters**

**The 147.105, 147.075 and 444.400 repeaters are usually linked. Please allow 2-3 seconds after the courtesy beep to allow for the link to reset.**

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

## NETS



**The “Holly Net” - Weekdays - 7-9 am**  
**Wednesday Night Talk Net - Wednesday - 8 pm**  
**Both on the 147.105, 147.075 and 443.400 repeaters**

### Other Amateur Radio Nets

| Name                         | Frequency             | Day        | Time          |
|------------------------------|-----------------------|------------|---------------|
| AA County ARES Net           | 147.805- MHz PL 107.2 | Sunday     | 2200          |
| BaltimoreTraffic Net         | 146.670- MHz          | Daily      | 1830          |
| Maryland Emergency Phone Net | 3.820 MHz             | Daily      | 1800          |
| MD-DC-DE Traffic Net         | 3.557 MHz             | Daily      | 1900 and 2200 |
| Maryland Mobileers Net       | 146.805 MHz PL 107.2  | Monday     | 1930          |
| Maryland Slow Net            | 3.563 MHz             | Daily      | 1930          |
| REACT Net                    | 442.300+ MHz PL 107   | 1st Sunday | 1930          |

**The Ham Arundel News is the official  
publication of  
The Anne Arundel Radio Club  
(ARRL Club No.0484)**

**Mailing Address:**  
Anne Arundel Radio Club  
Post Office Box 308  
Davidsonville, MD 21035-0308

**Editor: Phil Nelson / NO3N**  
Send newsletter articles, information and  
questions to: [newsletter@w3vpr.org](mailto:newsletter@w3vpr.org)

**Mailing Address:**  
Anne Arundel Radio Club  
Post Office Box 308  
Davidsonville, MD 21035-0308

**Meetings:**  
Business Meeting 1st Thursday at 7:30 PM  
Program/Activity 3rd at 7:30 PM  
Board Meeting - see calendar

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

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

AARC supports the Maryland Slow Net:  
3.563 MHz CW 7:30 PM

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**The Anne Arundel Radio Club**

**Is a registered 501(c)(3)  
Organization**

**We appreciate any contribution  
Over your dues**

**Former FEMA Administrator Advocates  
Using Mesh Networks for Disasters**



Former Federal  
Emergency  
Management  
Administration (FEMA)  
Administrator Craig  
Fugate, KK4INZ,  
encouraged the use of  
mesh networking to  
help empower  
volunteers during  
natural disasters, such  
as hurricanes and  
wildfires. During a

keynote at the International Wireless  
Communications Expo's (IWCE) Virtual Event,  
Fugate noted "By building these types of networks,  
you can put people back into communication and  
put people to work where they're needed." He  
encouraged public safety agencies to work with  
local amateur radio groups and commercial  
providers to create solutions that can build these  
mesh networks when the main network goes down.  
[See the August 2020 issue of the *ARES Letter* for  
a story on how mesh networking is gaining traction  
in Ohio - Ed.] -- *FEMA Disaster Emergency  
Communications News Clippings and Topics of  
Interest Vol. 9 Issue 16, August 16-31,*

reprinted from *ARES Newsletter*, September 16, 2020

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**NOTICE**

The deadline for the November  
2020 issue of the newsletter will be  
Saturday, October 24. If you have  
something you wish to share email  
[newsletter@w3vpr.org](mailto:newsletter@w3vpr.org)

## AARC Staff - 2020

### Officers

|                       |                                                   |              |
|-----------------------|---------------------------------------------------|--------------|
| <b>President</b>      | Keith Miller / AE3D<br>president@w3vpr.org        | 240-758-0423 |
| <b>Vice President</b> | Jim Wallace / N3ADF<br>vice.president@w3vpr.org   |              |
| <b>Secretary</b>      | Bernarr Colleta / NK3PS<br>secretary@w3vpr.org    |              |
| <b>Treasurer</b>      | Will Mooney / KA3UQQ<br>treasurer@w3vpr.org       |              |
| <b>Director A</b>     | Eric Berman / KC3GOV<br>eric.board20@w3vpr.org    |              |
| <b>Director B</b>     | Doug Ellmore / NA1DX<br>doug.board20@w3vpr.org    |              |
| <b>Director C</b>     | Scott DeMatteo / W3GTR<br>scott.board20@w3vpr.org |              |

### Support Staff

|                             |                                                |              |
|-----------------------------|------------------------------------------------|--------------|
| <b>Membership Secretary</b> | Mike Watterson / K3MAW<br>ms@w3vpr.org         |              |
| <b>Information Orricer</b>  | Ed Santilli / KB3YMU<br>info.officer@w3vpr.org |              |
| <b>Safety</b>               | John Bowes / KB3YLY<br>safety@w3vpr.org        | 443-760-1066 |
| <b>Security</b>             | Tom Provenze / N3HLD<br>security@w3vpn.org     |              |

### Representatives

|                         |                                                     |              |
|-------------------------|-----------------------------------------------------|--------------|
| <b>ARES/RACES</b>       | John Bowes / KB3YLY<br>ares.races@w3vpr.org         |              |
| <b>DFRC Rep</b>         | Milford Craig / N3WYB<br>dfrc.rep@w3vpr.org         | 391-218-8867 |
| <b>Fox Hunt</b>         | Jim Wallace / N3ADF<br>fox.hunt@w3vpr.org           |              |
| <b>Joint 440 Comm</b>   | Gordon Davids / WJ3K<br>joint440@w3vpr.org          | 410-647-2956 |
| <b>MD Slow Net</b>      | (TBA)                                               |              |
| <b>MDC Section Mgr</b>  | Martin Pittenger / KB3MXM<br>arrl.sec.mgr@w3vpr.org |              |
| <b>Public Relations</b> | Ed Santilli / KB3YMU<br>pr@w3vpr.org                | 301-261-6551 |
| <b>Resident Agent</b>   | Will Mulzera-Mooney / KA3UQQ<br>ra@w3vpr.org        |              |
| <b>Trustee</b>          | Dick Mayo / WW3R<br>trustee@w3vpr.org               |              |

### Committees

|                                |                                              |  |
|--------------------------------|----------------------------------------------|--|
| <b>APRS</b>                    | Jon Graefe / AE3JG<br>aprs@w3vpr.org         |  |
| <b>Beverage Supply</b>         | Jim Myrick / W3JLM<br>beverage@w3vpr.org     |  |
| <b>Club Sale &amp; Auction</b> | Ike Lawton / W3IKE<br>club.sale@w3vpr.org    |  |
| <b>Club Picnic</b>             | Jim Myrick / W3JLM<br>picnic@w3vpr.org       |  |
| <b>Digital Networking</b>      | Ted Rudie / KC3LMV<br>net.leader@w3vpr.org   |  |
| <b>Facilities</b>              | Eric Berman / KC3GDV<br>facilities@w3vpr.org |  |

|                         |                                                        |              |
|-------------------------|--------------------------------------------------------|--------------|
| <b>Field Day</b>        | Brian Mary / K3HMX<br>field.day@w3vpr.org              |              |
| <b>Station Manager</b>  | (TBA)<br>station.manager@w3vpr.org                     |              |
| <b>Holly Net</b>        | Bill Ryan / N3RY<br>holly.net@w3vpr.org                |              |
| <b>HSMM-MESH</b>        | (TBA)<br>hamm.mesh@w3vpr.org                           |              |
| <b>Kit Building</b>     | 'Raven' Weiland / KB3MUV<br>kit@w3vpr.org              | 203 948 5369 |
| <b>MDC QSO Party</b>    | Jim Wallace / N3ADF<br>mdcqsop@w3vpr.org               | 301 538 6233 |
| <b>Newsletter</b>       | Phil Nelson / NO3N<br>newsletter@w3vpr.org             |              |
| <b>Photography</b>      | Ed Santilli / KB3YMU<br>photo@w3vpr.org                |              |
| <b>Presentation</b>     | Jim Wallace / N3ADF<br>presentation@w3vpr.org          |              |
| <b>Public Service</b>   | Erick Graves / WA3G<br>public.service@w3vpr.org        | 410 987 7670 |
| <b>Repeater Ops</b>     | John Williams / K8JW<br>repeater@w3vpr.org             | 410 647 7406 |
| <b>Rules</b>            | Chuck Tanner / K3ACT<br>rules.chair@w3vpr.org          | 301 464 2667 |
| <b>Service Hours</b>    | Jim Wallace / N3ADF<br>service.hours@w3vpr.org         | 301 538 6233 |
| <b>Tower</b>            | (TBA)<br>tower@w3vpr.org                               |              |
| <b>Training</b>         | Keith Miller / AE3D<br>learn@w3vpr.org                 | 240-758-0423 |
| <b>VE Team</b>          | David Rawley / N3AT<br>ve.team.leader@w3vpr.org        |              |
| <b>Video</b>            | Ed Santilli / KB3YMU<br>video@w3vpr.org                |              |
| <b>Webmaster</b>        | Mike Bova / W2PAW<br>webmaster@w3vpr.org               | 240 274 6294 |
| <b>Wed. Nite Net</b>    | Mike Waterson / K3MAW<br>wednesday.night.net@w3vpr.org |              |
| <b>Winter Field Day</b> | Rick Steer / AB3XJ<br>winter.field.day@w3vpr.org       |              |
| <b>Workshop</b>         | (TBA)<br>workshop@w3vpr.org                            |              |

### Groups

|                               |                       |
|-------------------------------|-----------------------|
| <b>Board of Directors</b>     | board20@w3vpr.org     |
| <b>Kit Building Committee</b> | kitbuilding@w3vpr.org |
| <b>Rules</b>                  | rules@w3vpr.org       |



## MARS Communications Exercise to Involve Amateur Radio Community



Military Auxiliary Radio System (MARS) volunteers will take part in the Department of Defense (DOD) Communications Exercise 20-4, starting on October 3 and concluding on October 26. The MARS focus is interoperability with

ARRL and the amateur radio community.

"Throughout the month of October, MARS members will interoperate with various amateur radio organizations that will be conducting their annual simulated emergency tests with state, county, and local emergency management personnel," said MARS Chief Paul English, WD8DBY. "MARS members will send a DOD-approved message to the amateur radio organizations recognizing this cooperative interoperability effort."

MARS members will also train with the ARRL National Traffic System (NTS) and Radio Relay International (RRI) to send [ICS 213](#) general messages to numerous amateur radio leaders across the US.

"This exercise will culminate with MARS Auxiliaries sending a number of summary messages in support of a larger DOD communications exercise taking place October 20 - 26," English added. Throughout the month of October, MARS stations will operate on 60 meters, and WWV/WWVH will broadcast messages to the amateur radio community. English assures no disruption to communications throughout the month-long series of training events.

Reprinted from *The ARRL Letter*, Sept. 24, 2020

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## The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: Up until September 23, we saw 32 consecutive days with no sunspots. Then new sunspot group AR2773 came into view, with a magnetic signature indicating that

it's part of new Solar Cycle 25. According to [Spaceweather.com](#), AR2773 is a weak sunspot group and may not persist for long. The daily sunspot number for September 23 was 13, indicating three sunspots visible in that group.

Average daily solar flux rose from 69.2 to 71.1 over the reporting week of September 17 - 23. Geomagnetic indicators were about the same, with average daily planetary A index declining from 5.3 to 5.1.

Predicted solar flux for the next 45 days is 73 on September 24 - October 1, and 70 on October 2 - November 2.

Predicted planetary A index is 12, 15, 12, 25, and 15 on September 24 - 28; 8 on September 29 - 30; 5 on October 1 - 10; 10 on October 11; 5 on October 12 - 19; 10, 12, 16, 28, 18, and 10 on October 20 - 25; 5 on October 26 - November 6, and 10 on November 7.

Reprinted from *The ARRL Letter*, Sept. 24, 2020

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## RES teams went on alert in other Sections in the region.

The Federal Emergency Management Agency (FEMA) announced on Tuesday that two 60-meter channels had been made available for interoperability between US government stations and US amateur radio stations involved in emergency communications related to the wildland firefighting response in California, Oregon, and Washington, as well as to Hurricane Sally. The interoperability channels will remain active until the need for them no longer exists:

- Channel 1 – primary voice traffic 5332 kHz channel center, 5330.5 kHz USB voice
- Channel 2 – digital traffic 5348 kHz channel center, 5346.5 kHz USB with 1.5 kHz offset to center of digital waveform

Frequencies may be modified or added to by FEMA Region 10 for their area or operations due to existing 5 MHz/60-meter interoperability plans for their region.

Reprinted from *The ARRL Letter*, Sept. 17, 2020



# Calendar

## AARC

Due to social distancing requirements, club meetings are being held on Zoom and there have been some changes. The meeting schedule for October-January is:

October 1 - Membership Meeting, 7:30 PM,  
Agenda: Annual Budget scheduled for vote

October 10 - Fall Technician Class, 9:00 AM.  
Zoom information will be set to registered students.

October 15 - Membership (Presentation) Meeting,  
7:30 PM

November 5 - Membership Meeting, 7:30 PM,  
Agenda: Nominations for 2021 Board

November 19 - Membership (Presentation)  
Meeting, 7:30 PM

December 3 - Membership Meeting, 7:30 PM,  
Agenda: Election of Board

January 7 - Membership Meeting, 7:30 PM

January 21 - Membership Meeting, 7:30 PM

Invitations to the membership meetings will be emailed to the membership before the meetings. You must request meeting information from the [president@w3vpr.org](mailto:president@w3vpr.org) for Board meetings; the [rules@w3vpr.org](mailto:rules@w3vpr.org) for the Rules committee meeting; or [secretary@w3vpr.org](mailto:secretary@w3vpr.org) for the Ham Shack Antenna Committee.

## SkyWarn Online Basic Classes

November 2, 7-9 pm, Washington County

Registration:

<https://www.eventbrite.com/e/skywarn-basics-washington-county-md-tickets-119829666759>

November 3, 6-8 pm, Calvert County, MD

Registration:

<https://www.eventbrite.com/e/skywarn-basics-calvert-county-md-tickets-118396235327>

November 16, 6-8 pm, Warren County, VA

Registration:

<https://www.eventbrite.com/e/skywarn-basics-warren-county-va-tickets-118395828109>

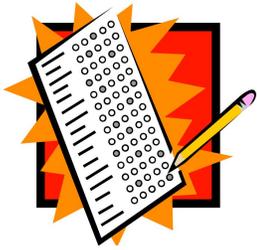


Classes are open to all interested persons regardless of residents.

# Calendar

(continued)

## VE Testing



October 10 - Anne Arundel Radio Club, Davidsonville Family Recreation Center at the Shack, 3789 Queen Anne Bridge Rd, Davidsonville, MD. Registration starts at noon; testing at 1:00 PM.

Contact David Rawley/AE5Z by e-mail ([testing@w3vpr.org](mailto:testing@w3vpr.org)) for more information and to pre-register

October 17 - Laurel Amateur Radio Club, Women's Club of Laurel building, 384 Main St., Laurel, MD. Registration at 9:00 AM. Contact John Creel (WB3GXW) at 301-572-5124.

October 27 - Maryland Mobileers, National Electronics Museum, 1745 West Nursery Rd, Linthicum, MD, 6:00 PM. Arrive **no earlier** than 5:45 PM. contact Mike Montrose / KA2JAI 443-310-4907 web site is [tinyurl.com/marylandmobileers](http://tinyurl.com/marylandmobileers)

Summary of what to bring to your exam session:

- 1) A government-issued photo ID.
- 2) FRN if you have one, or SSN if you do not. FRN must be used if you have one.
- 3) Valid CSCE issued at a previous exam session if the exam results have not been processed by the FCC yet.
- 4) Acceptable material if claiming exam credit.

**Please check current testing status due to social distancing restrictions or closures.**

## Contesting

October 3 - FISTS Fall Slow Speed Sprint; info: [fistsna.org](http://fistsna.org)

October 7 – VHF-UHF FT8 Activity Contest; info: [ft8activity.eu/index.php/en](http://ft8activity.eu/index.php/en)

October 10 – ARRL EME Contest; info: [arrl.org/eme-contest](http://arrl.org/eme-contest)

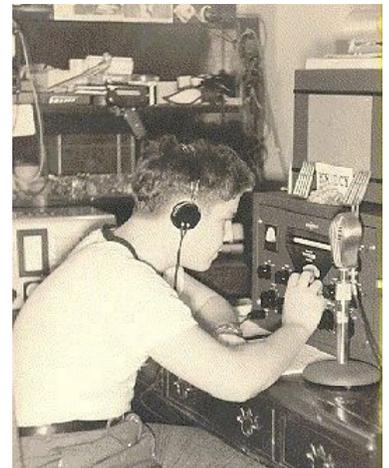
October 24 – CQ Worldwide DX Contest, SSB; info: [www.cqww.com/rules.htm](http://www.cqww.com/rules.htm)

November 7-9 - ARRL November CW Sweeps; info to follow in next newsletter \*

November 21-23 - ARRL November Phone Sweeps; info to follow in next newsletter \*

November 28-29 - CW Worldwide CW; info to follow in next newsletter

\*- Sweeps: 100+ contacts by an operator qualifies him/her to receive a pin.



*Editorial Note: It is my hope to include a calendar of contests for each monthly issue. If you have any special or particular contest to add please email [newsletter@w3vpr.org](mailto:newsletter@w3vpr.org)*

## Congratulations to New and Upgraded Licensees

Chris Mishaga, KB3IAI, General  
Neal Turett, KC3PJR, General  
Robert Mencik, KC3PZH, Technician  
William Reading, KC3PZK, Technician  
Eddie Bryant, KC3PZL, Technician

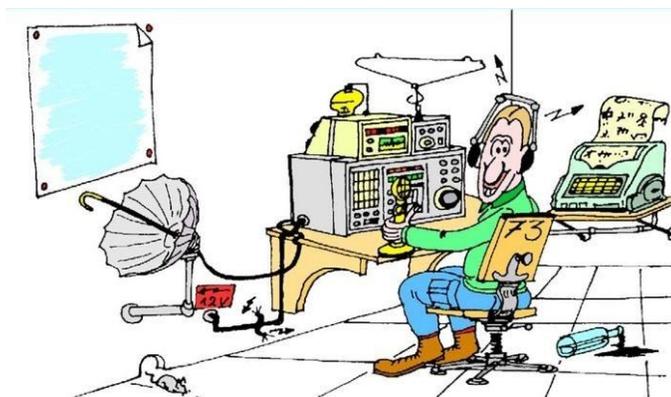
Eric Felton, KC3PZM, Technician  
Andrew Binovi, KC3PZN, Technician  
Paul Kaup, KC3PZO, Technician  
Wayne Theurer, KC3PZP, Technician  
Christine March, KC3PZQ, Technician

## Net Control Operators Needed

AARC is seeking members who are willing to volunteer to run the two premier AARC nets:

**The Holly Net** is named in memory of Holly Bevan who ran the morning net for many years. It runs from 7 - 9 am Monday thru Friday, except for holidays. Email [holly.net@w3vpr.org](mailto:holly.net@w3vpr.org) to volunteer.

**The Wednesday 2-meter Net** is conducted weekly starting at 8 pm. For information contact [wednesday.night.net@w3vpr.org](mailto:wednesday.night.net@w3vpr.org)



## Slow-Scan Television Transmissions from ISS Planned

A Moscow Aviation Institute MAI-75 slow-scan television (SSTV) experiment event is planned for Wednesday, September 30, from 1305 UTC to 1845 UTC, and Thursday, October 1, from 1230 UTC to 1745 UTC. SSTV signals will be transmitted on 145.800 MHz,  $\pm$  Doppler shift. The expected mode will be PD 120, and the call sign will be RS0ISS. Received images of reasonable quality may be posted on the **ARRL SSTV Gallery**.

*ARRL.org*, September 29, 2020

## Hams Help Find Kids by Monitoring FRS Channel

Late on the afternoon of September 16, the police department in Post Falls, Idaho, received a 911 call that two juveniles -- ages 9 and 11 -- were missing from a Post Falls residence for about an hour. According to the report, the pair had left home intending to play in the neighborhood with some Family Radio Service (FRS) radios. Several patrol cars were dispatched to the area to conduct a visual search, and detective Neil Uhrig, K7NJU, responded as officer in charge due to his training and experience with missing persons investigations. The initial search focused on a 2-mile radius from the missing kids' residence.

One officer received information from witnesses that the pair was probably using FRS Channel 1 (462.5625 MHz). An officer returned to police headquarters to retrieve some FRS radios for distribution to the patrol officers, in the event they might be able to hear the youngsters talking.

Uhrig, meanwhile, pulled out his VHF/UHF handheld with the thought of setting up FRS Channel 1 as an auxiliary frequency, but without the manual at hand, he wasn't able to execute the channel setup. ContestinBut Uhrig did hear the Northwest Traffic Net (NWTN) that had begun at 6:30 PM on the local 2-meter repeater.

Checking into the net at about 6:45 PM, Uhrig explained the missing persons situation to net control station Shannon Riley, KJ7MUA, and asked if net participants in the Post Falls area with FRS capability could listen for the youngsters talking.

A number of stations promptly checked in to say they had FRS radios and were monitoring FRS Channel 1. It was assumed that only stations located near the missing youngsters would hear them, given the limited range of FRS radios.

Not long after 7 PM, Jim Hager, KJ7OTD, reported hearing children talking on FRS Channel 1. Uhrig went to Hager's home to confirm his observation, and the patrol units were redirected to the new search vicinity. A short time later, the missing pair was found safe and returned home.

Uhrig said the most remarkable thing about the incident was that the missing youngsters turned out to be some distance from the original search area, and in the opposite direction from where they were thought to have been headed.

Net Manager Gabbee Perry, KE7ADN, said, "I'm so proud of what a superior job NWTN NCS Shannon [KJ7MUA] and all the operators did last Wednesday. It was a very unusual situation, but everyone had excellent focus and used their resourcefulness to help quickly find the missing kids." -- *Thanks to ARRL Assistant Idaho Section Manager Ed Stuckey, AI7H*

reprinted from ARRL Letter, September 24, 2020

# W1AW 2020 Spring/Summer Operating Schedule



## 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](mailto: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 91 in the March 2020 issue of QST or on the web at <http://www.arrl.org/w1aw-operating-schedule>.

Used with permission ARRL Bulletin 8

## Morning Schedule:

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

## Daily Visitor Operating Hours:

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

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

## Afternoon/Evening Schedule:

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

## Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975  
 21.0675 28.0675 50.350 147.555  
 DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095 28.095  
 50.350 147.555  
 VOICE: 1.855 3.990 7.290 14.290 18.160 21.390  
 28.590 50.350 147.555

(This schedule has not changed)

# AARC Repeaters and Nets

## 2 Meter Repeaters

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

## 1.25 Meter Repeaters

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

## 70cm Repeaters

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

## Packet Stations

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

## Amateur Radio NETS

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

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

# The Radio Amateur Operator is...

## **CONSIDERATE**

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

## **LOYAL**

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

## **PROGRESSIVE**

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

## **FRIENDLY**

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

## **BALANCED**

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

## **PATRIOTIC**

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

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