HE HAM ARUNDEL NEW







Providing Fellowship and Community Service through Amateur Radio Since 1951

December 2018

40th Year of Publication

New CEO Wants ARRL to Serve All Ages and Amateur Radio Interests

Newly elected ARRL CEO Howard Michel, WB2ITX, is still on the uphill side of the learning curve as he acquaints himself with ARRL Headquarters and the nearly 90 staffers who work there. The New Jersey native arrived at HQ on October 15 and has spent much of his time since meeting with department managers and others to get his bearings, with an eye toward building consensus and aligning people, programs, and services in the same direction.



New ARRL CEO Howard Michel, WB2ITX (left), meets with ARRL Development Manager Lauren Clarke, KB1YDD. [Michelle Patnode, W3MVP, photo]

"I'm still trying to understand what working and where the challenges are," Michel said. "Once I understand where the challenges Ι need are. understand why. Before I make any changes in what we're doing, I need to make sure the change is a step in the right direction and for the right reasons, and not kind of a random process."

Michel would like to see ARRL focus on the future of Amateur Radio and not become the redoubt of a particular generation of radio amateur or interest group. He said, "Ham radio shouldn't abandon the old guardians of the hobby, but at the same time, it needs to have new things that appeal to people who have different interests and different passions."

Ham radio appears currently entrenched with opposition often expressed to FT8 and other digital modes and protocols that bend Amateur Radio traditions and conventions, Michel observed. However, as he sees it, technology for the whole of Amateur Radio has been changing, and detractors to advances have always been present. He'd like ARRL to encourage more technological diversity without creating controversy.

"My kick is seeing the technology advance," the former IEEE president and CEO said. "I want to see hams embrace the new technology -- as long as we do that in a way that those who don't adopt the new technology won't feel abandoned." In his view, the real reason behind the continued enthusiasm for CW "is not the technology; it's the legacy."

At the same time, resources should reflect usage and interest, with respect to the spectrum and with respect to how many pages QST devotes to a particular interest area. "Everything should reflect the growth and change, without abandoning the legacy interests."

Acknowledging the incessant push to get more young people into Amateur Radio, Michel wants to explore ways "to morph some of the League's processes and services and products into something that would appeal to the newer generation of hams."

"Young people in general don't join organizations, but they join causes," he said. "With that kind of attitude, how do we develop the same kind of ability for people interested in Amateur Radio to self-organize around

causes? And if we can design the infrastructure around that, they'll see value in ARRL and become a new type of member -- not one who necessarily comes to ham club meetings once a month but finds the League can facilitate what they want to do."

Michel said he's modifying it, and repairing it, and then making it do



always enjoyed tinkering New CEO Howard Michel, WB2ITX, takes with ham gear, building it, W1AW for a spin. [Michelle Patnode, W3MVP, photo]

something new or different. He concedes that while he has not had an opportunity to do much hamming as he's moved around with the military and for academic and business pursuits, he'd like to become more active, and he is presently exploring his options as an apartment dweller. As for FT8, he'd like to try it, if for no other reason than the novelty.

Michel said he definitely wants to encourage partnerships with other organizations with which ARRL might share some common ground, including IEEE.

"We can't do everything ourselves. We have to find partnerships," he said. Some IEEE operating units would be applicable to Amateur Radio, and he's already heard from two unit heads that are both hams.

Michel also feels that radio amateurs need to extend their gaze beyond the everyday nuts and bolts of Amateur Radio operating. "What we need to do is protect the spectrum from competition, develop interest in the various facets of Amateur Radio, and not try to pick fights 'in house," he said. "Spectrum is the gold of the 21st century."

Used with permission: The ARRL Letter for November 1, 2018

ANNE ARUNDEL RADIO CLUB Officers for 2019

President: Keith Miller, AE3D

Vice Pres: Tim Nagel, KB3YQK

Secretary: Steve Grimaud, (W3SWG)

Treasurer: William W Muzlera-Mooney, (KA3UQQ)

Directors:

Eric Berman, (KC3GDV)

Larry Booth, (AA3AU)

Bernard Coletta, (KC3KFD)

"The 2018 Board of Directors would like to thank all the candidates, members of the Nominating Committee, tellers and special thanks to Chuck Tanner (K3ACT) who both chaired the Nominating Committee and acted as Election Supervisor." Keith Miller AE3D, Secretary

ARRL Executive Committee Recommends Small Addition to Articles of Association

At its October 20 meeting, the ARRL Executive Committee voted to recommend to the full Board of Directors an addition to Article 1 of the Articles of Association of ARRL, per requirements of the Connecticut Secretary of the State. The minor addition is necessary to bring the Articles into alignment with Connecticut state statutes.

The requirement would add the sentence, "The



Corporation is nonprofit and shall not have or issue shares of stock or make distributions," at the full ARRL Board of

Committee's **Directors** adopts the Executive recommendation at its January 18 - 19, 2019, meeting, Article 1 of the ARRL Articles of Association would then read:

Article 1: The name of our corporation shall be The American Radio Relay League, Incorporated. It may be informally referred to as ARRL, the national association for Amateur Radio. Our corporation commenced its corporate existence as The American Radio Relay League. Incorporated, when its Articles of Association were approved by the Secretary of the State of Connecticut on January 29, 1915. The original Articles of Association were subscribed by Hiram Percy Maxim, Clarence D. Tuska, and Lawrence A. Howard. The affairs of the corporation have since that time been continuously governed by a Board of Directors selected by the membership. The Corporation is nonprofit and shall not have or issue shares of stock or make distributions.

Used with permission The ARRL Letter for November 15, 2018

ARRL Contests Landing Page Offers Additional Enhanced and **Expanded Content**

The new ARRL Contests page continues to develop with the addition of enhanced and expanded contest reporting. The Contests page will soon include complete 2018 results, including full results articles from QST, expanded results, line scores, log-checking reports, soapbox forums, and database searches.



Contests are listed -- and linked -- in the lefthand column of the page and as tabs at the top of the page for categories of log submissions, logs received. certificates. and

clubs. When users select an event from the left-hand

column, the page will display activity links that include rules, logs received, results articles, and other contests (which returns the user to the Contests home page). Selecting "Results Articles" takes the user to the "Full Results" articles list, hyperlinked by year.

The previous Contest Results Articles page, which offers current and historical results dating back some 20 or more years, will be known as the "legacy site" going forward.

Used with permission The ARRL Letter for November 8, 2018

December is Youngsters on the Air (YOTA) Month

December is Youngsters on the Air (YOTA) Month. Listen for stations on the air with YOTA as the call sign suffix. YOTA stations are, in general, operated by individuals 25 or younger.

The operating event takes place for the entire month of December UTC.

"The idea for this is to show the Amateur Radio hobby to young people and to encourage youngsters to be active on the amateur bands," said Tomi Varro, HA9T.

"This is a great moment to show Amateur Radio to the world and to invite newcomers. "YOTA is primarily an International Amateur Radio Union (IARU) Region 1 (Europe and Africa) activity, but youngsters from the US in Region 2 (the Americas) have attended YOTA summer camps, which are held in a different country each year. Varro said both licensed and unlicensed youth will be making contacts.

"Be helpful on the bands — maybe these young operators are just making their first ever contacts," he advised. As part of YOTA month, Bob Johnson, W9XY, and Ken Clear-out, K4ZW, will travel to Ethiopia to team up with the club at the Addis Ababa University, Institute of Technology and club station ET3AA. For more updates, visit YOTA's Facebook page and https://www.hamvota.com/

Used with permission MDC Section News, November 15, 2018

EchoLink

Find EchoLink App and Nodes in your area at EchoLink.org

Everyone is encouraged to join in and give any updates on what is happening in your part of the ARRL Maryland-DC Section. If you do not have EchoLink on your Computer, Tablet or Smartphone, you may download the free software from: http://echolink.org/register_data.jsp or your App Store online.

As always, we thank John Creel, WB3GXW, for making the *WASH_DC* EchoLink server and his WB3GXW-R repeater available for the EchoLink nets.

Used with permission MDC Section News. November 15, 2018 ^^^^^^

News, Press Releases, And General Interest For Contesters

Contests.arrl.org is the new place for everything about ARRL Radio Contests! The new website will organize the information by contest, with single click access to a particular event's rules, results, lists of logs received, and so on. According to *The ARRL Letter*, "... the previous Contest Results Articles web page, which offers current and historical results dating back some 20 or more years, will be known as the "legacy site" going forward."

N1MM Logger+ users: Please upgrade to the latest version if you intend to use the program in the upcoming Phone ARRL Sweepstakes. According to Tom, N1MM: "There is a new version available with improved Sweepstakes parsing." See more information on using N1MM Logger+ in Sweepstakes in the Operating Tip below, and be aware that additional updates to N1MM Logger+ may occur between now and the contest.

The Society of Midwest Contesters has announced the 2019 North American Collegiate Championship. In 2018, this contest-within-a-contest ran concurrently with the Phone North American QSO Party (NAQP Phone). New for 2019 is the addition of a RTTY contest, coincident with the 2019 NAQP RTTY. While only college and university stations can compete in the NACC, contacts with them are worth points to NAQP competitors. During the contest NACC competitors will be sending their scores to an online scoreboard, so you can cheer for your favorite. ICOM is the principal sponsor of NACC awards.

Release Candidate "RC4" of WSJT-X is available, see the announcement here. The developers urge anyone upgrading to the new version to read the release notes thoroughly, since the upgrade requires operator settings changes and may not work "out of the box" when upgrading from previous versions. This latest version of WSJT-X removes compatibility with earlier versions of the software in certain circumstances.

Coinciding with the release of WSJT-X RC4, the WSJT-X development team is having a practice session to help operators become familiar with the software and identify operational issues. From the release notes: "A one-hour FT8 mock contest will be held next week: November 20, 0200-0300 UTC (that's Monday evening, November 19, NA time). Watch for a separate announcement with more details."

Jose, CT1BOH tweeted a block diagram of the station setup he'll be using for CQWW CW later this month. Operating as D41CV from the D4C contest station, Jose will be practicing his 2BSIQ (Two Band Synchronized Interleaved QSOs) technique in the contest. If conditions improve, could 3BSIQ be a possibility?

Though this furniture is not targeted towards Amateur Radio Operators that build or repair things, when I saw these I thought that they could go a long way to keeping small parts organized. There are some good ideas here, pending some changes to incorporate tools and test equipment. Add a nice rug and it could really tie the ham shack together.

Teletype machines, those oil-drinking, paperbreathing beasts of Baudot, originally had green-colored keys, and required occasional mechanical as well as electronic maintenance. Thirty years ago's computers mostly made the mechanical devices obsolete, but the sounds and smells of the old machines live on in some basements, and discussion of state-of-the-lost-art continues on the greenkeys email reflector. Now these oil-electric hybrids have a new yearly event as Jeff, WK6I, announces "Green Key Night" to run concurrently with Straight Key Night, January 1, 0000 to 2359 UTC. See the official announcement for more details.

Well-known contester and CQ Contest Hall of Fame member Paul, W0AlH, passed away on October 31. NCJ Editor, Scott, K0MD, penned a tribute to Paul, describing his life and touching on why there's been such an outpouring of emotion from the Amateur Radio and contesting community about his passing.

Scott, KA9FOX, has spearheaded an effort to establish a W0AIH Memorial Scholarship fund (to be administered by the ARRL Foundation). According to the GoFundMe page: "On October 31, 2018, the amateur radio world lost one of its best ambassadors, Rev. Paul Bittner, WØAIH, at age 84. Licensed for nearly 70 years, Paul built one of the largest ham radio stations in the world, and for decades, opened it up for others to use and operate. Over the years, Paul also helped countless hams to get on the air, or to improve their stations, by installing their towers and antennas. Paul never passed up an opportunity to help a fellow ham. As a remembrance to this great, giving man, we would like to establish The Rev. Paul E. Bittner, WØAIH, Memorial Scholarship via the ARRL Foundation. This will be a permanent award, with a \$1,000 scholarship awarded each year to a deserving young amateur radio operator pursuing higher education (to be used for tuition, books, fees and other educational expenses)." It's not necessary to use the GoFundMe website if you're interested in contributing, instructions are on the website for those that prefer to send a check.

Jan, SM3CER is convalescing after a September accident. Consequently the <u>SM3CER Contest Calendar</u> is not current with contest information while Jan focuses on his recovery.

Ronnie Bolton, WU4G, writes: "The <u>Central Virginia Contest Club</u> (CVCC) has obtained the club call of W4MYA to honor our long time member, friend, and contester extraordinaire - Bob Morris, who, as you may know, became a SK in August. We hope to continue his legacy of "Run 'em Dude". Bob and his station were instrumental in CVCC's Local Club category successes for many years. His contribution to contesting will be sorely missed." Ronnie is the CVCC President.

Used with permission The ARRL Contest Update for November 14, 2018

N3FJP ARRL RTTY Roundup Contest Logging Software Update

Scott, N3FJP, has upgraded his ARRL RTTY Roundup Contest Logging software to <u>version 3.5.</u> New in this version is the "ability to separate RTTY from other digital modes in the Cabrillo submittal file."

Used with permission The ARRL Contest Update for November 28, 2018

Anne Arundel Radio Club NEWS

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

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

Editor: Milford Craig / N3WYG

Send newsletter articles, questions and information to Milford at newsletter@w3vpr.org

Deadline for submissions – The Saturday after the 3rd Thursday of the month

Mailing Address:

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

Meetings:

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

Dues:

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

World Wide Web: www.w3vpr.org

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

^^^^^^^

Free Money for AARC! ARRL Membership Reminder

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

Clubs retain \$15 for each new membership OR lapsed membership (of two years or more).
Clubs retain \$2 for each renewal,
A RENEWING MEMBER can renew at any time, even before their current membership expires.

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



Mark Your Calendars

REGULAR ACTIVITIES

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

Free License Exams every 2nd Saturday of the Month - Check in at Noon, Exams at 1PM - At the clubhouse - Contact Rick Steer AB3XJ, testing@w3vpr.org

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

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

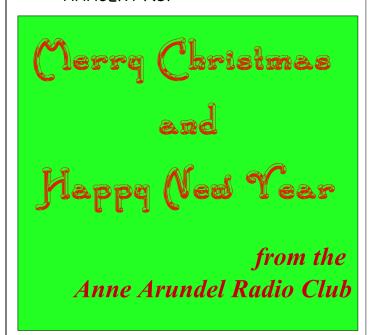
EVENT SCHEDULE

Friday, December 14 5:30pm

AARC Holiday Party, Ford Hall, DFRC

Tuesday, December 18 7:30pm

AAACFRT Net



Operating Tip:

N1MM Logger

Tom, N1MM, CQ Contest Hall of Fame member and the N1MM in *N1MM Logger*+, <u>provided some logging tips just before the now past ARRL CW Sweepstakes</u>. With a few changes, they're also valid for the upcoming ARRL SSB Sweepstakes:

- Verify that you're using the latest version of software, as there may <u>changes relevant to your</u> contest.
- 2. Make sure you use the correct exchange. Look up your precedence according to Sweepstakes rules.
- 3. You don't need to send a signal report, so make sure you're not using 59 in any contest messages.
- 4. Practice entering the Sweepstakes exchange in your logging program. Make sure you know how your logging program interprets the serial number portion of the exchange versus the check. Know how to use the keyboard keys to move between entry fields. N1MM Logger+ specific: the exchange textbox will parse the exchange for you and MAKE ASSUMPTIONS about which number is the number and which is the check. There is ambiguity with one and two digit numbers, so as a precaution, always enter in couplets, for example 12A or 77CT. If a number is attached to a precedence, it will ALWAYS be interpreted as a serial number. If attached to a section, it will ALWAYS be interpreted as a check.
- 5. *N1MM Logger*+ specific: The frame above the exchange tells you how the program interpreted what you typed.
- N1MM Logger+ specific: You may enter the exchange data multiple times. The last data entered is used. Watch the frame to see this work. 123A 55CT 56CT will be interpreted as 123A 56CT.
- 7. N1MM Logger+ specific: You may enter a call sign in the exchange textbox and it will override what is in the call sign textbox. Just press space and type the correct call.
- 8. Always log what you copy. Use pre-filled information only if it's correct. N1MM Logger+ specific: Call history will fill in only the check and section. Make sure they are correct. If they don't need to be reentered, you can just type the serial number and precedence. For example, using a pre-fill database, typing N1MM<space> might fill the exchange textbox with "61 CT ", after which you can type the serial number and precedence. If N1MM actually sends 61 CT, you can just hit return to log the contact. If you copy a different year and section just type those in, it will override the "61 CT ". Watch the exchange frame to see how it works.
- 9. Practice well before the contest, not at 2050 UTC. Used with permission The ARRL Contest Update for November 14, 2018

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

Southern New Jersey ARES Team Assists in Missing-Person Search

Ocean County, New Jersey, Amateur Radio Emergency Service (ARES®) volunteers recently assisted search groups looking for a man with dementia who was reported missing on November 2 from a nursing home in Stafford Township. Searches concentrating on neighborhoods around the nursing home had been unsuccessful. The missing man's family organized a search on November 10, and Ocean County ARES was invited to participate.

Ocean County **ARES** EC Bob Murdock, WX2NJ, had been informed that the search would focus on a wooded area. Tim Tonnesen, NJ2N, was instrumental in contacting the local authorities and working with the family search teams after communications



with the family and search teams to organize a search plan, while Murdock looked Murdock, WX2NJ, listen during the search briefing. [Photo courtesy of Tom Preiser, N2XW]

technical side and personnel. Temperatures had dropped overnight to around 32 °F, and it had rained considerably the night before.

ARES established a net control station at a nearby park, where power, shelter, and rest facilities were available. The search teams were made up of volunteers from the community -- more than 140 in all -- and the ARES team agreed to coordinate communication among search groups. Ocean County ARES supplied nine radio operators. A VHF repeater proved unreliable for use with handheld transceivers, and communication ultimately took place using a UHF repeater in Toms River, maintained by Ocean County ARES members.

Topographical maps were used to plot out the search areas. ARES members assisted in making sure all volunteers had been accounted for. The search continued that afternoon, without success, and volunteers returned to the rallying point.

As of mid-week, the missing man had not been located. Read <u>more</u>. -- Thanks to ARRL Southern New Jersey Section Emergency Coordinator Tom Preiser, N2XW

Used with permission The ARRL Letter for November 15, 2018





W1AW 2018 Winter Operating Schedule

Morning Schedule:

Time	Mode	Days
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST) 1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)

(Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

Afternoon/Evening Schedule:

2100 U	TC (4 PM EST)	CWf	Mon, Wed, Fri
2100 "	ıi .	CWs	Tue, Thu
2200 "	(5 PM EST)	CWb	Daily
2300 "	(6 PM EST)	DIGITAL	Daily
0000 "	(7 PM EST)	CWs	Mon, Wed, Fri
0000 "	"	CWf	Tue, Thu
0100 "	(8 PM EST)	CWb	Daily
0200 "	(9 PM EST)	DIGITAL	Daily
0245 "	(9:45 PM EST)	VOICE	Daily
0300 "	(10 PM EST)	CWf	Mon, Wed, Fri
0300 "	"	CWs	Tue, Thu
0400 "	(11 PM EST)	CWb	Daily

Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975

21.0675 28.0675 50.350 147.555

DIGITAL: 3.5975 7.095 14.095 18.1025 21.095

28.095 50.350 147.555

VOICE: 1.855 3.990 7.290 14.290 18.160 21.390

28.590 50.350 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM

CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM

CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to w1aw@arrl.org.

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

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

The W1AW Operating Schedule may also be found on page 94 in the November 2018 issue of QST or on the web at, http://www.arrl.org/w1aw-operating-schedule.

Used with permission Bulletin 17 ARLB017 November 6, 2018

HELP WANTED—Net Control Operators for the **Holly Net**. 7:00 – 9:00 am ANY Work Day Morning. No experience necessary. Experienced gathered will be very valuable. Please contact Jim, N3ADF (n3adf@verizon.net) for full job description.



Hamvention to Host 2019 ARRL National Convention

<u>Hamvention</u>® will host the 2019 ARRL National Convention May 17 – 19 in Xenia, Ohio. Hamvention, the largest annual Amateur Radio gathering in the US, and the ARRL National Convention will share the joint theme of "Mentoring the Next Generation" of Amateur Radio operators.

As host of the 2019 ARRL National Convention, Hamvention will feature dozens of forums covering a variety of Amateur Radio topics in the areas of technology, public service, on-air operating, training, and learning. A track of presentations will be organized to build on the mentorship theme, encouraging more individuals and radio clubs to lead new and inexperienced radio amateurs to become more active, involved, and engaged.

Special event station W8BI will operate from the fairgrounds, and conventioneers will have an opportunity to get on the air from Hamvention.

The National Convention will feature ARRL EXPO
— a large assembly of exhibits, activities, and representatives for ARRL programs and services. Details will be posted as these become available.

Hamvention2019 will be the third held at the Greene County Fairgrounds and Expo Center in Xenia since the event relocated from Dayton. In 2018, Hamvention recorded its third-largest attendance ever with 28,417. Hamvention is a traditional meeting place for radio amateurs from all over, and the event attracts many

international attendees each spring.



Since 1952, Hamventionhas been sponsored by the Dayton Amateur Radio Association® (DARA), an ARRL-affiliated club, and is supported by volunteers from radio clubs throughout the country. In past years, Hamvention has regularly served as the ARRL Great Lakes Division Convention. Hamvention hosted the ARRL National Convention most recently in 2005 and 2009.

The new Hamvention venue features multiple buildings of indoor vendor exhibits, an outdoor flea market, and many food trucks and concession stands, with free parking onsite and at nearby remote lots served by free shuttles.

The Hamvention <u>website</u> will include details on how to obtain convention tickets as well as information about forums, exhibits (including vendor and flea market accommodations), travel, and preferred hotels with special rates. Convention tickets are \$22 in advance or \$27 at the gate. Tickets cover admission for all three days. Electric scooter rental information can also be found at the Hamvention website. Onsite RV camping is managed by the Greene County Fairgrounds.

Ham radio operators are encouraged to bring family and friends, and extend their convention trip by visiting nearby popular attractions. The National Museum of the US Air Force — the oldest and largest military aviation museum in the world — is located at Wright-Patterson Air Force Base in Dayton. The region also boasts many parks, museums, shopping, entertainment, and dining options.

All major airlines serve the minutes-away Dayton International Airport (DAY), and there are the additional options at the Columbus and Cincinnati, Ohio, airports. Plan your trip to Hamvention® at www.greenecountyohio.org and www.daytoncvb.com.

Used with permission The ARRL Letter for November 1, 2018

India Now Has Access to 3 New Bands

Radio amateurs in India now have access to three new bands. India's Ministry of Communications' Department of Telecommunications has published an

updated National Frequency Allocation Plan, effective on October 25, which lists the new bands at 5 MHz (60 meters), 472 kHz (630 meters), and 136 kHz (2300 meters).

5 Hz

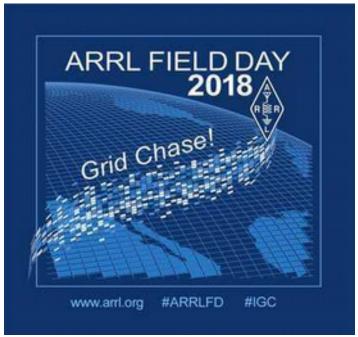
All allocations are on a secondary basis. On 60 meters, hams now have

access to 5,351.5 - 5,366.5 kHz at 15 W EIRP; on 630 meters, 472 - 479 kHz at 1 W EIRP, and on 2300 meters, 135.7 - 137.8 kHz at 1 W EIRP. Radio amateurs in Italy and France have been allocated a slice of spectrum at 60 meters.

They now have access to 5.351.5 MHz - 5.366.5 MHz on a secondary basis with a maximum equivalent isotropic power (EIRP) of 15 W, in line with amateur allocations in other European countries. Sweden's IARU member-society SSA reports that radio amateurs there gained routine secondary access to 5,351.5 - 5,366.5 kHz, also at 15 W EIRP, effective on November 1.

Temporary permission has been available since 2016, by application. -- Thanks to Paul Gaskell, G4MWO, Editor, The 5 MHz Newsletter; SSA

Used with permission The ARRL Letter for November 8, 2018



W3VPR Results For The 2018 ARRL Field Day

The listing of the scores are grouped by the number of transmitters in simultaneous operation and their entry class. OK! What does this mean? Each station or group has a specific number of transmitters that they said were on the air simultaneously. This gives the numeric part of the designation. The alpha designator determines The make up of the group and how the transmitters were powered.. For example, W3VPR listed 5 transmitters on at any one time and that those transmitters were part of a "club or group, portable with 3 or more participants". Hence, W3VPR is in the 5A group.

There were 6 classes of site configurations:

Class A 43.2% of the participants—are clubs or groups portable with 3 or more participants.

Class B 12.1% of the participants—are stations portable with 1 0r 2 participants. (When there are 2 operators, the second operator's call sign is listed in parenthesis, if it was supplied.

Class C 1.5% of the participants—are mobiles.

Class D 36.7% of the participants with included with Class *E*—are home stations using commercial power.

Class E are home stations using emergency power.

Class F 6.4% of the participants are Emergency

Operations Center stations.

good The above class figures gives a representation of the spread of the locations used by all

The score listing for AARC shows

The score listing for AANO shows	
1. Club/Group Name w/ Call Sign	W3VPR
2. Total Number of QSOs	616
3. Number indicating Power Output	2
5 < 5 watts	
2 < 150 Watts	
1 > 150 Watts	

4. Number of Participants 5. Total Score Including Bonus Points 3390

6. ARRL Section MDC

Therefore, W3VPR is 34th in the 5A Section. However, W3VPR is 1st MDC Section in the 5A Section.

Some interesting facts: Reported entries showed more than 35,250 participants this Field Day. According to the record keepers this shows that the participants were down by about 6% and the number of QSOs were down by about 9% to those reported in 2017.

The Top Ten claimed scored are:

	p		
Call	Score	Class	Name (if known)
W3AO	33,942	15A	Potomac Valley Radio Club
W4EZ	31,646	9AB	Orange County Radio Assoc + Durham FM
			Assoc
K6EI	19,720	14AB	West Valley ARA
W4IY	16,988	9A	Woodbridge Wireless
K4BFT	16,946	4A	Huntsville ARA
K2AA	15.964	7a	S. Jersey Radio Assoc.
W1NVT	14,732	2A	Radio Amateurs of N. Vermont
K4JJ	14.562	3A	North Fulton ARL
N4FR	14,290	5F	Williamson Co. TN ARES
W1LY	13,928	2A	Newport Co RC Sakonnet 49ers

Overall stats for 2018 Field Day are as follows:

Number of participants	35,264
Total Entries	2,903
Checkofs	22
CW QSOs	501,223
Digital QSOs	56,532
Phone QSOs	622,351
total QSOs	1,180,106

"As far as future ARRL Field Days are concerned, in a world with cell phones and the internet, Amateur Radio is now one of many technologies attracting participants. Aside from assisting after disasters or emergencieswhere Amateur Radio may be one of a handful of potential life lines to the world—it is only through in-person demonstration, mentoring, outreach, and publicity that we hope to grow interest in our exciting hobby. Field Day brings focused ham radio education to participants when and where they're most interested.:

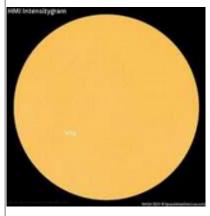
"ARRL Field Day often brings with it an audience of licensed hams and inquisitive visitors. Many groups this year sought out the Educational Activity Bonus. While short training programs were the most popular, some groups offered license classes, license exams, antenna building, coax cutting, installations of connectors, and station accessory assembly and testing."

"Looking ahead to ARRL Field Day 2019, groups are already reserving their public sites, setting goals, for their stations, bands, modes, activities and bonuses; making plans and assigning tasks within their group, and preparing for the day they may be called upon to utilize Amateur Radio in an emergency."

Quotes and tabular information are from QST, December 2018, page 71 "2018 ARRL Field Day Results" by Bart Johnke, W9JJ

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FT8 – Tipping Point for Ham Radio?



This is a view from NASA of the sun today, October 9, 2018, and I am making 10m DX contacts one after another. Zero sunspots but working DX on FT8! FT8 creating ls point" "tipping for amateur radio at the very bottom of the solar cycle?

Several years ago I was captivated by

a book written by Malcolm Gladwell called, *The Tipping Point: How Little Things Can Make a Big Difference*. Merriam-Webster defines tipping point as, "the critical point in a situation, process, or system beyond which a significant and often unstoppable effect or change takes place." In his book, Gladwell describes how, "The tipping point is that magic moment when an idea, trend, or social behavior crosses a threshold, tips, and spreads like wildfire."

[. . .] You may view the entire post at: https://www.flexradio.com/ft8-tipping-point-for-ham-radio/

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FT8 Roundup and Other Information

It may be the first contest exclusively for the FT8 mode -- the FT8 Roundup occurs December 1, 1800z to December 2, 2359z. According to the FT8 Roundup website, participants must use WSJT-X version 2.0 RC4 or later, since that version of the software supports the exchange. It's important that all participants read the rules. and also read the WSJT-X release notes for version 2.0. Entry classes include Single Operator Unlimited and Multioperator with all classes limited to 100 W. According to the rules, no entry class allows more than one signal to be transmitted simultaneously unless the software allows it and those signals are in the same audio passband. Two practice sessions before the FT8 Roundup contest will be available to make sure software is installed and working, and to gain familiarity with the newest version. The first is November 29 0200-0300z, the second December 1, 0200-0300z

FT8 users: The WSJT-X development team is urging you to update the version of your software to a version of WSJT-X v2.0 by December 10. Joe Taylor, K1JT, writes: "As soon as possible after December 10, and certainly by January 1, 2019, everyone should be using WSJT-X 2.0 or a compatible v2.0 version of derivative programs such as JTDX or MSHV. As of today, PSKreporter statistics show roughly 3,000 users of WSJT-X versions older than v1.9.1, 9500 users of v1.9.1, and 3,000 users of v2.0-rc#. Please, everyone, help us to spread the word that upgrading to v2.0 after December 10

is very important. There will be no looking back!" *WSJT-X* v2.0 RC5 is available now on the *WSJT-X* web page. Used with permission The ARRL Contest Update for November 28, 2018

Second JK Antenna Donated to W1AW

JK Antennas' Ken Garg, W3JK, has donated a second model JK402T antenna to Maxim Memorial Station W1AW.

The antenna is a two-element Yagi on a 22-foot boom with capacitive loading. The JK402T replaces the old Cushcraft XM-240 40-meter Yagi that had been used for visitor operations.

The donation included a new balun, donated via W3JK by <u>Balun Designs LLC</u>. The new antenna went up on the tower on October 30. "W1AW extends heartfelt thanks to Ken Garg, W3JK, for a second donation to W1AW," W1AW Station Manager Joe Carcia, NJ1Q, said. "Located at approximately 130 feet above ground, the new JK402T exhibits a nearly flat SWR across the entire 40-meter band.

W1AW guest operators who may be active on 40 meters with this antenna should see improved performance over the old one, which was showing signs of aging."

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Es'hail-2 Geostationary Satellite Launch Said to be Imminent

According to AMSAT-Germany (AMSAT-DL), Es'hail-2, the world's first geostationary satellite carrying Amateur Radio transponders, will go into space from Cape Canaveral in a few days. Space news outlet *Spaceflight Now* says that the SpaceX Falcon 9 launcher is set to launch on Thursday, November 15, between 2049 and 2229 UTC. Positioned at 25.5° E, the satellite will carry an Amateur Radio S-band and X-band payload capable of linking radio amateurs from Brazil to Thailand; it's unlikely that Es'hail-2 will be accessible from North America, at least not with conventional Amateur Radio satellite gear.



The recent subject of an AMSAT-UK Colloquium presentation, Es'hail-2 will carry two Phase 4 (P4-A) non-inverting Amateur Radio transponders operating in a 2.4 GHz up/10.45 GHz down configuration. This offers a

250 kHz bandwidth linear transponder intended for conventional analog operations, plus an 8 MHz bandwidth transponder for experimental digital modulation schemes and DVB amateur television.

The Qatar Amateur Radio Society and Qatar Satellite Company are cooperating on the Amateur Radio project, and AMSAT-DL is providing technical support. Es'hail will carry commercial payloads.

Several orbital maneuvers are necessary before Es'hail-2 enters its commissioning phase, which may take several months. Read <u>more</u>. -- *Thanks to* AMSAT News Service: *AMSAT-DL*

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Maritime Mobile Service Network Operators Assist Vessel with III Crew Member

Amateur Radio operators associated with the Maritime Mobile Service Network (MMSN) played a significant part in summoning medical assistance on November 9 for a crew member suffering chest pains on board the 48-foot sailing vessel *Marie Elena*, some 300 miles east of Bermuda.

"The assistance we received from the ham radio operator[s] was crucial in helping us communicate with the vessel's crew," US Coast Guard Petty Officer 1st Travis Unser said afterward. Unser was the search-and-rescue coordinator for the incident.



MMSN member Donald Plunkett, VA6FH,

heard a call for medical assistance at 1650 UTC on the net's 14.300 MHz frequency from Nick Cancro, KC2WRH, the captain of the *Marie Elena*.

Cancro reported that a crew member was experiencing severe chest pains and needed medical assistance. Fellow MMSN operator Fred Moore, W3ZU, of Inverness, Florida, had good propagation with the *Marie Elena* and contacted the vessel, linking it via a phone patch to the US Coast Guard Station in Norfolk, Virginia. The Coast Guard was able to connect the patient directly to medical personnel via the phone patch to ascertain symptoms and prescribe first aid measures prior to medical assistance arrival. Moore arranged with the *Marie Elena* to contact him at the bottom of the hour throughout the night and to call immediately if the patient's condition



The ailing crewman is lifted from the deck of the USCG cutter Spencer into a MedEvac helicopter. [USCG video]

worsened. The US Air Force also came on frequency at the Coast Guard's request to evaluate the situation and see if it could assist.

Due to the sailboat's distance offshore, the Coast Guard directed the captain to head toward Cape Hatteras, North Carolina. The Coast

Guard then redirected the cutter *Spencer*, under way near the Virginia-North Carolina border, toward the *Marie Elena*. The *Spencer* rendezvoused with the sailboat at about 1230 UTC on November 10, launching a small boat crew and transporting the man aboard the cutter. A short time later, a helicopter crew was able to hoist the man aboard from the *Spencer* and transport him to a hospital in Norfolk. Moore was assisted by a relay station Mark Strothmann Sr., KC9YRX, in Wisconsin, who provided much-needed information throughout the incident. Additional MMSN members pitched in as well.

"This was a true team effort, and I am proud of the members of this organization who train for just this type of event. They performed in an exemplary fashion," said MMSN Manager Jeff Savasta, KB4JKL.

The Coast Guard <u>noted</u> that the *Marie Elena* has activated a Personal Locater Beacon and an Emergency Position Indicating Radio Beacon (EPIRB), permitting rescue personnel to hone in on the vessel's precise location.

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New Islands on the Air Groups Announced



Islands on the Air (IOTA) General Manager Roger Balister, G3KMA, recently announced the first tranche of six new IOTA groups. Release of the new groups came in the wake of an August solicitation for possible new groups. The new groups cover a Swedish/Finnish joint

sovereignty island and groups in North America, Asia, and Oceania. All new groups have provisional numbers, which means they will need to be confirmed by an operation that takes place after October 14, 2018, and that meets the 1,000 QSO requirement, as well as other normal validation requirements. Only after confirmation of the number will credit for past operations be considered.

- EU-192P Kataja Island, Finland/Sweden (Kataja), a split-sovereignty island located in the very north of the Gulf of Bothnia.
- OC-297P Morane Atoll, Tuamotu Islands, French Polynesia (Morane), a new "remote island" group, this was previously an outlier of the OC-113 Actaeon group.
- 3. **NA-249P** Puerto Rico Coastal Islands, Puerto Rico (Caja de Muertos, Culebra, Culebrita, Mona, Monito, Vieques), a new "coastal islands" group.
- NA-250P Yakutat County Group, Coastal Groups, US (Alaska) (Fitzgerald, Gregson, Khantaak, Knight, Kriwoi, Krutoi, Otmeloi), a new "coastal islands" group created by splitting the current NA-161 Skagway - Yakutat County group.
- AS-205P Bering Sea Coast East group, Koryanskiy Avtonomnyy Okrug, Russian Federation - Asia (Yoanna Bogoslova, Vasiliya Islands), a new "coastal islands" group, created by splitting the current AS-064 Bering Sea Coast group.
- 6. AS-204P Kuril'skiye Islands North, Sakhalinskaya Oblast, Russian Federation - Asia (Atlasov, Shumshu, Paramushir, Antsiferova, Makanrushi, Onekotan, Kharimkotan, Chirinkotan, Ekarma, Shiashkotan, Raikoke, Matua, Rasshua, Ushishir, Ketoy, Simushir), a new group created by splitting AS-025 Kuril'skiye Islands into two.

Balister said he hopes to announce a second tranche of new IOTA groups at the HAM RADIO convention in Friedrichshafen, Germany, in June 2019.

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VE Testing Schedule

Second Saturday of each month –

Noon – AARC –

Rick Steer / AB3XJ testing@w3vpr.org

Third Saturday of each month – 9AM – Laurel ARC – John Creel, 301-572-5124

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

To all exams bring:

- Picture ID
- Social Security Number or FCC Registration Number (FRN)
- ORIGINAL and a COPY of current FCC amateur radio license

ORIGINAL and a COPY of all element credits (eg., FCC letters, old licenses or unexpired Certificates of Successful Completion of Examination-CSCE)

Oregon ARES Drill Scenario Simulates Double Virus and Hypothetical Terrorist Attack

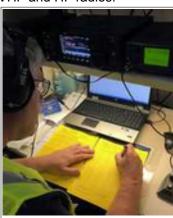
On November 8 in Oregon, the Amateur Radio Emergency Service® (ARES) emergency preparedness drill known as the Simulated Emergency Test (SET) will use an exercise scenario focusing on viruses -- biological and computer -- that wreak havoc on the state's communication systems.

The drill begins with simulated highly contagious bird flu virus that spreads to the state's overwhelming borders, hospitals and leading to mass panic. A day later, the drill moves to a simulated widespread internet shutdown owing to what's called the "stepper virus." If that weren't enough, it goes



on to include a hypothetical virus that would cause the shutdown of digital processors in wireline and cell towers.

The scenario also involves power companies and government telecommunications beina affected. Participants will be told that ham radio repeaters are on backup power or have failed and that they will have to stretch their skills accordingly. Ultimately, the exercise will simulate the introduction of biological and computer viruses by a state-sponsored terrorist organization that is trying to find vulnerabilities in the state's infrastructure. Then, exercise participants will train local officials on using VHF and HF radios.



Oregon ARES/RACES members took Rising part in the Cascadia earthquake exercise in 2016. [Photo exercise courtesy of Oregon ARES/RACES]

the exercise As continues, ARES volunteers will need to set up highpowered stations in remote areas to communicate with urban centers. After participants that prove ARES would be able to maintain telecommunication links for several days, the exercise simulated storm damage to antennas on county emergency operations centers (EOCs).

This multi-step scenario designed to encourage ARES volunteers to use their ingenuity and training

to restore communications when faced with a multifaceted disaster event. "The MacGyver[s] among you will have the opportunity to solve this problem, gain extra points, and help your county shine while teaching us all something new," said Grant County ARES Emergency Coordinator Steve Fletcher, K7AA, who described the scenario.

Oregon ARES teams will join with the Oregon

Office of Emergency Management in conducting the drill. More information is on the Oregon ARES website. Thanks to John S. Sanders, KE7JSS, Oregon Section Public Information Officer

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Florida Air Show Gives Ham Radio Some On-the-Air Exposure

The Everglades Amateur Radio Club (W4SVI) put ham radio in the spotlight during the 2018 Wings Over Homestead Air and Space Show, held in Homestead, Florida, November 2 - 4.

"We were given space on the tarmac in the STEM section which was intended [to get] kids interested in science, technology, engineering, and mathematics," said Robert Cruz, KE4MCL. "We were allowed to bring two of our field station vehicles right up to the tent and set up their free-standing masts."

The club fielded operating positions on HF through UHF, slowscan TV, and satellites for special event station W4H. "All three stations were active during the event. Since we set up early on Friday, we operated fully off solar power that day as the At the W4H special event during the Wings weekend." the Cruz explained. He arriving on offered an additional benefit. "The setup crew got to see most of the



onsite generator was over Homestead Air and Space Show, not to be fired up until Robert Cruz, KE4MCL (center), looks on as Steve Taylor, W1HQL (left), aims a satellite antenna and John Kolasinski, said KK4QKL (right), makes a contact. [Photo Friday courtesy of the Everglades Amateur Radio Club].

air show, plus some cool behind the scenes stuff, minus about 100,000 people," he quipped.

"Since this was a military airshow, I brought along a Collins R-388 and a BC-348 just for show and tell," Cruz recounted. "We had a few veterans come around and talk to us about how they used to operate one of these while [in the service]."

Cruz said a highlight of the weekend was a contact by Steve Taylor, W1HQL, with a crew member of the International Space Station. "The ISS had a scheduled school contact, and once they got out of range of the school, Steve called on a whim and the ISS responded for a quick QSO," Cruz said.

He said the club, which is headquartered in Homestead, tried something a little different at this year's air show. "Traditionally, Amateur Radio displays are filled with call signs and terminology that the general public doesn't understand," he said. "To a non-ham, a call sign looks like a license plate number, for example. We created a new banner targeted at those interested in preparedness and made sure it had plain English and not 'hamspeak' on it."

The club also created a half-page handout with the club's information and meeting time on it for visitors to take home instead of relying on having to look things up online. "We shall see if the new banner and handouts paid off at the next club meeting," Cruz said.

Other operators taking part included Alain Arocha, K4KKC; Esther Cruz, KI4OTX; Steve Taylor, W1HQL; John Kolasinski, KK4QKL; Logan Brauer, W0LAB; Frank DeCespedes, AK4FU; Luis Pinon, KI4VEY; Ivan Cholakov, NO2CW, and Tommy Cholakov, N1SPY. -- Thanks to Robert Cruz. KE4MCL

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California Fires Spark Amateur Radio Emergency Service Activations

Amateur Radio volunteers have been active or are standing by on several fronts as wildfires continue to rage in large sections of California.

Camp Fire

In Butte County, in northern California, the Camp Fire, the state's deadliest wildfire, triggered a call up of Amateur Radio Emergency Service (ARES®) members for communication support. A small wildfire that started in a mountainous area of Butte County quickly grew, due to high winds. Eventually more than 25,000 people were evacuated. As multiple shelters opened to assist evacuees, five Sacramento Valley ARES groups were called out to support communication between the Red Cross Disaster Operations Center (DOC) and the shelters.



Sacramento Valley ARES volunteer Neil Bossard, N6CNY, is among those active in Northern California. [Photo courtesy of Greg Kruckewitt, KG6SJT]

The uncontrolled wildfire eventually consumed the town of Paradise, a town of some 27,000 residents. As of November 14, the Camp Fire covered some 145,000 acres (35% contained), killed more than 40 people, and destroyed nearly 8,000 structures.

Utilizing mutual assistance, more than 20 ARES members from five ARES groups are

supporting the shelters. ARES members have also been tasked by Red Cross to shadow Red Cross delivery vehicles to provide communication in the mountain areas to the shelters.

ARES communication at the shelters has been carried out using voice, *Winlink*, and email to pass shelter counts, and tactical messages between the shelter and the Red Cross Disaster Operations Center and Cal Office of Emergency Services.

The Red Cross is supporting ARES at the shelters with hot spots and backup radios.

Working 12-hour shifts, Sacramento Valley Section District Emergency Coordinator 3 Michael Joseph, KK6ZGB, has been staffing the Red Cross radio station as net control for the DOC, passing messages and tracking

ARES personnel. Sacramento ARES members have been pitching in as needed. Joseph also has been coordinating ARES deployments as needed.

Visit the ARRL <u>Sacramento Valley Section</u>
<u>Facebook</u> page or <u>Twitter account</u> for more information. -<u>Thanks to Sacramento Valley</u> Section Emergency
Coordinator <u>Greg Kruckewitt</u>, <u>KG6SJT</u>

Woolsey Fire

The Woolsey Fire that swept through the westernmost portion of Los Angeles County, including Malibu, and the easternmost of area Ventura County in the ARRL Santa Barbara Section. required the evacuation of more than 200,000 Los Angeles County residents -- an



unprecedented number in recent decades. Evacuees included several celebrities, several of whom lost homes in the fire. More than 50 people have died in all fires, and more than 100 are still missing.

"[G]overnmental radio systems used by fire and sheriff held up well, even though cell phone and internet service went out in many fire areas because of burned utility poles," said Los Angeles Section Manager Diana Feinberg, Al6DF. "Evacuees went to areas where cell phone service was generally available."

Feinberg said Los Angeles ARES (ARES LAX) has not been activated because no county hospitals are in the affected area and no hospital outside the fire zone was in danger of losing communication. She added, though, that a sizable team of ARES LAX operators organized by LAX-Northwest District Emergency Coordinator Moabery, W1EH, did extensive logistics work over the November 10 - 11 weekend at a major drop-off site in the San Fernando Valley for evacuee supplies. ARES team members worked with other volunteers to accept nearly 10 tons of pet food, plus thousands of boxes of items such as soap, toothpaste, toothbrushes, shampoo, conditioner, razors, lotion, feminine care products, and sunscreen, as well as baby food, formula, diapers and wipes, towels and bedding, snacks, and non-perishable food items, Feinberg said.



Firefighting efforts continue in residential neighborhoods. [Photo courtesy of LA County Fire Department]

On the air for the Woolsey Fire, both the Los Angeles County Disaster Communications Service (DCS) Amateur Radio volunteers overseen by the Sheriff's Department -- and the City of Los Angeles Department Auxiliary Communication Service (ACS) operated nets

and monitored their respective frequencies. "The DCS group at Lost Hills Sheriff Station covers most of the Los

Angeles County areas affected by the Woolsey Fire and communicated with organized amateurs in the cities of Calabasas, Agoura Hills, Hidden Hills, Malibu, Westlake Village, and unincorporated mountain areas when not affected by respective mandatory evacuation orders," Feinberg said. "The City of Los Angeles' ACS group was involved when the city's West Hills neighborhood in the San Fernando Valley became the fire's northeastern front, forcing about half of the West Hills community to evacuate." Santa Barbara Section Manager John Kitchens, NS6X, told ARRL that Ventura County ACS (ARES) is supporting evacuation centers and the Red Cross, in the Santa Barbara Section.

Feinberg said ACS members have also been involved with delivering food and water supplies to LAFD firefighters and performing fire patrols. American Red Cross volunteers are reported to be using Amateur Radio in connection with some of their fire response activities, Feinberg reported. The Woolsey Fire covers nearly 100,000 acres and was reported 47% contained as of November 14. -- Thanks to Diana Feinberg, AI6DF

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<u>Fundrazr Campaign</u> For Critical Ham Radio Infrastructure Upgrades Iss

ARISS and AMSAT are supporting a FundRazr campaign to raise \$150,000 for critical ham radio infrastructure upgrades on the International Space Station (ISS). "ARISS is in critical need of infrastructure upgrades to ensure that programs such as talking to



astronauts in space using Amateur Radio can continue," ARISS International President Frank Bauer, KA3HDO, said. ARISS seeks several upgrades, including new Amateur Radio communication and experiment capabilities, such as an enhanced

voice repeater, updated digital Automatic Packet Reporting System (APRS), and slow-scan television (SSTV) with image uplinks and downlinks in both US and Russian segments. They're also looking for next-generation radio systems that will support easier mode and capability transitions, and a multi-voltage power supply to support present and future radio capabilities. Bauer points out that ARISS needs to build 10 next-generation radio systems to support the development of on-orbit operations, training, and longterm maintenance. This includes two units for on-orbit use (one unit each for the US and Russian segments), two flight spares, three units for training, one unit for testing, and two units for ground-based maintenance and troubleshooting. -- Thanks to AMSAT News Service via Frank Bauer, KA3HDO

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More Amateur Radio Resources
http://www.arrl.org/youth
http://www.arrl.org/getting-licensed

SECTION TRAFFIC MANAGER'S REPORT

FOR THE MDC WEB SITE 1810

MDC NTS NETS:

MEPN 1810 W3YVQ QND/31 QNI/444 QTC/56 MINS/774 BTN 1810 AB3WG QND/31 QNI/416 QTC/53 MINS/600 MDD 1810 AA3SB QND/53 QNI/205 QTC/60 MINS/380 MSN 1810 W8CPG QND/31 QNI/121 QTC/23 MINS/490 PSHR W3CB 150, KK3F 140, WB3FTQ 135, W3YVQ 135, NI2W 124, K3IN 110, AA3SB 100, N3JET 90, AB3WG 81, KB3LFG 36;

TFC: KK3F 1768, K3IN 165, W3YVQ 97, WB3FTQ 74, N3JET 68, AA3SB 63, W3CB 44, AB3WG 34, NI2W 24, KB3LFG 1

NOTICE OF MEPN TIME CHANGE

The MEPN will move to the winter schedule after the switch to Eastern Standard Time in early NOV. The MEPN pre-net will begin at 1630L. The formal net call will be at 1700L including the EchoLink rep.

(The WVA and DE nets will also move one hour earlier.)

The BTN and MDD net times will remain the same.

HF PROPAGATION

MEPN: Propagation was functional throughout OCT 2018, until the last few days of the month when the NVIS MUF began to fall below the net frequency by 1800L. Conditions between 1730L and 1800L were typical of fall with improved signal strengths at the cusp of the MUF. The low solar activity will lead to NVIS failure after dark hence the switch to the MEPN winter schedule after the change to EST.

Check 1920 \pm on 160m as an alternative as notified by the NM, NCS, or EchoLink liaison.

Propagation on MDD early and late was functional throughout OCT 2018, except for both early and late sessions near the end of the month. The NVIS MUF began to fall below 80m, first affecting the late session, and eventually even the early session. The low solar activity, shorter daylight, and EST will lead to NVIS failure more often in NOV on both sessions, but early data suggests that some recovery in MUF may develop for the late sessions. Check 1857 ± on 160m as an alternative as notified by the NM or NCS. EchoLink on WB3GXW-L may also be used.

Sunspot activity continued to decline with many spotless days. This is expected to continue in NOV.

BTN LOCAL NTS TRAFFIC AND TRAINING NET

The BTN continues to meet on 145.33/R (no tone) daily at 6:30PM local time and continues to welcome new amateurs. The availability of an active directed traffic net of the NTS on VHF is exactly why the BTN was established, providing a welcoming place for newcomers to the

Amateur Service. Thanks to all the BTN stations checking into the MEPN via EchoLink.

MEPN ECHOLINK

MEPN representatives check for EchoLink 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). Several BTN and MEPN members, as well as stations outside the area, have used EchoLink to check in when HF is not available to them. MDD operators are also welcome. Thanks to all.

MSN CW TRAINING

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

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

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

73, W3YVQ, MDC ASM, STM w3yvq atsign arrl dot net w3yvq atsign winlink dot org from WL2K

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Sunday Night Is New Year's Eve,

This means Monday night is Straight Key Night. If you ever learned 5 WPM this is your chance to get back on CW and make a few contacts. I you go 30 WPM you're going to have the chance to learn the straight key again, and bring



those speeds down to make some contacts with those who move at a slower pace.

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FINAL COMMENTS FROM YOUR SECTION MANAGER

Lets be thankful for the many Amateur Radio Operators serving their communities and those away from home serving Disaster Survivors.

Please thank our MDC Section members, and

MDC Section Staff, our ARC Executives and club members, our deepest appreciation to our ARES® Leadership and members participating in public-service communications. Your ingenuity, experience and knowledge lead to success and satisfaction; recognized by our Served-agencies and civic leaders. Through persistence, training, practice and readiness our communities can support many worth wild civic support.

Lets show our thanks to those whose guide us and the Elmers we honor. Please give thanks to our friends and family for supporting our radio communication endeavors and allowing us to help others.

We use our voices to help others, the future of Amateur Radio is in your hands.

Lets welcome our newly elected ARRL CEO Howard Michel, WB2ITX.

Howard is still on the uphill side of the learning curve as he acquaints himself with ARRL Headquarters and the nearly 90 staffers who work there. The New Jersey native arrived at HQ on October 15 and has spent much of his time since meeting with department managers and others to get his bearings, with an eye toward building consensus and aligning people, programs, and services in the same direction.

Please continue your support and JOIN the ARES-Connect Roll Out

The new volunteer management system for the Amateur Radio Emergency Service ARES® will allow MDC Section Staff and our ECs, DECs and SEC. ARES® participants sign-up for and log hours. More about this system in the coming weeks

Your MDC Section staff needs your help - Leaders are encouraged to begin your ARES® EC or MDC Section Staff future. Contact your SM, SEC or ASM to learn how. Please email your request to KB3MXM@arrl.net

The Solar Minimum is here!

End of Solar Cycle 24 in 2019, and for the next 19 to 35 months until it peaks again.

Have you heard of the Dalton Minimum, the Gleissberg Minimum or the Modern Maximum cycles?

Have you seen the Space Weather Prediction Center (SWPC) at https://www.swpc.noaa.gov/; perhaps you're familiar with the SIDC - Solar Influences Data Analysis Center - RWC Belgium Royal Observatory of Belgium and their "SIDC Ursigram" at http://sidc.oma.be/products/meu/

Social Media is driving disaster awareness - join the trend!

Our Twitter is @MDCARRL

73, Marty, KB3MXM ARRL MDC Section Manager

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Repeaters and Nets

2 Meter Repeaters

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

1.25 Meter Repeaters

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

70cm Repeaters

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

Packet Stations

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

Amateur Radio NETS

Name	Frequenc	y (in Mhz)	Day	Time
Morning Commuter Net	147.105+	PL 107.2	Weekdays	0600
AARC Talk Net	147.105+	PL 107.2	Wednesday	2000
AA County ARES Net	146.805-	PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670-		Daily	1830
Boating Net	146.805-	PL 107.2	Wednesday	1930
Maryland Emergency Phone Net	3.920		Daily	1800
Maryland-DC-Delaware Traffic Net	3.643		Daily	1900 and 2200
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.

AARC Two-Meter Net Controller Schedule — 2018



01/03/18	KB3ZYO	Rich	07/04/18	K3MAW	Mike
01/10/18	KB3MUV	Raven	07/11/18	AA3EB	Ed
01/17/18	K3ACT	Chuck	07/18/18	KB3ZYO	Rich
01/24/18	W3KNH	Jamison	07/25/18	KB3MUV	Raven
01/31/18	KB3YQK	Tim			
			08/01/18	K3ACT	Chuck
02/07/18	K3MAW	Mike	08/08/18	W3KNH	Jamison
02/14/18	AA3EB	Ed	08/15/18	KB3YQK	Tim
02/21/18	KB3ZYO	Rich	08/22/18	K3MAW	Mike
02/28/18	KB3MUV	Raven	08/29/18	AA3EB	Ed
03/07/18	K3ACT	Chuck	09/05/18	KB3ZYO	Rich
03/14/18	W3KNH	Jamison	09/12/18	KB3MUV	Raven
03/21/18	KB3YQK	Tim	09/19/18	K3ACT	Chuck
03/28/18	K3MAW	Mike	09/26/18	W3KNH	Jamison
04/04/18	AA3EB	Ed	10/03/18	KB3YQK	Tim
04/11/18	KB3ZYO	Rich	10/10/18	K3MAW	Mike
04/18/18	KB3MUV	Raven	10/17/18	AA3EB	Ed
04/25/18	K3ACT	Chuck	10/24/18	KB3ZYO	Rich
			10/31/18	KB3MUV	Raven
05/02/18	W3KNH	Jamison			
05/09/18	KB3YQK	Tim	11/07/18	K3ACT	Chuck
05/16/18	K3MAW	Mike	11/14/18	W3KNH	Jamison
05/23/18	AA3EB	Ed	11/21/18	KB3YQK	Tim
05/30/18	KB3ZYO	Rich	11/28/18	K3MAW	Mike
06/06/18	KB3MUV	Raven	12/05/18	AA3EB	Ed
06/13/18	K3ACT	Chuck	12/12/18	KB3ZYO	Rich
06/20/18	W3KNH	Jamison	12/19/18	KB3MUV	Raven
06/27/18	KB3YQK	Tim	12/26/18	K3ACT	Chuck
30.217.13			, ,		2

REPEATER FREQUENCIES

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

PL: 107.2 for all repeaters

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

Visitors are welcome to all meetings and nets.

Meetings are held in the Clubhouse at the

Davidsonville Family Recreation Center,

Queen Anne Bridge and Wayson Roads off

MD Route 214 near Davidsonville, MD.

For en-route directions, make initial contact on the 147.105 repeater.

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Wednesday Night Talk Net -- All are welcome

8PM, On the AARC Repeater 147,105

Other Amateur Radio nets

Name	Frequency		Day	Time
Morning Commuter Net	147.105+Mhz PL 107.2		Weekdays	0600
AA County ARES Net	146.805- Mhz PL 107.2		Sunday	2000
Baltimore Traffic Net	146.670- Mhz		Daily	1830
Maryland Emergency Phone Net	3.820Mhz		Daily	1800
MD-DC-DE Traffic Net	3.557Mhz		Daily	1900 and 2200
Maryland Mobileers Net	146.805	PL107.2	Monday	1930
Maryland Slow Net	3.563 MHz		Daily	1930
REACT Net	442.300+Mhz	PL107.2	1st Sunday	1930

The Radio Amateur Operator is...

CONSIDERATE

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

LOYAL

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

PROGRESSIVE

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

FRIENDLY

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

BALANCED

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

PATRIOTIC

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

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