



The  
**Wave Bender**

September 2018

AWARD WINNING NEWSLETTER



**WRARC PREZ SEZ**

Next month we will accept nominations for the open Trustee position at our club. If you would like to be considered, please contact our nominating committee, Roy, KD8IJF, Steve, KD8SOY, or Darrin, N8DMC. It's an enjoyable position which gives you input to decisions that affect the future of wrarc.

Also, there will be the Fall road Cleanup in Canfield on Rt 446 on the second Saturday of September. The third Saturday will be the rain date. More details will be coming. It's hard to believe that we are taking about the Fall Season. It feels like we just finished Spring are heading into Summer. How time flies.

73 Brian, AB8BL.  
President/WRARC



**WRARC ELECTION PROCESS STARTING NEXT MONTH  
WITH NOMINATIONS**

**THIS YEAR WE NEED TO ELECT  
ONE TRUSTEE IN NOVEMBER**

**INTERESTED IN RUNNING?**

**CONTACT THE NOMINATING COMMITTEE  
Roy, KD8IJF, Steve, KD8SOY or Darrin, N8DMC**

**NOT TOO EARLY TO START THINKING ABOUT RUNNING**

IN THIS ISSUE

**2018 Officers:**

**President:** Brian Lewis, AB8BL ab8bl@wrarc.net  
**VP:** Maureen Stein, KD8NXS kd8nxs@wrarc.net  
**Secretary:** Stan Adamski, KB3WPD kb3wpd@wrarc  
**Treasurer:** Rose Marko, KD8TII kd8tii@wrarc.net  
**Past President:** Bob Mitzel, N8RCM n8rcm@wrarc.net

**Trustees:**

Darrin Cannon, N8DMC n8dmc@wrarc.net  
 Roy Haren, KD8IJF kd8ijf@wrarc.net  
 Steve Fabry, KC8SOY kc8soy@wrarc.net

**Appointed Positions:**

Social: Maureen Stein, KD8NXS kd8nxs@wrarc.net  
 Publicity: Joe Wojtowicz, W0JO w0jo@wrarc.net  
 Nets: Steve Fabry, KC8SOY kc8soy@wrarc.net  
 Classes/Testing: Bob Mitzel, N8RCM n8rcm@wrarc.net  
 Newsletter/Web: Jane Avnet K8JAA k8jaa@wrarc.net  
 Historian: Rose Marko, KD8TII kd8tii@wrarc.net  
 Badges: Steve Fabry, KC8SOY kc8soy@wrarc.net

**Officer's Meeting:**

September 11, 2018, 7:00 P.M. At Eat 'n Park,  
 Austintown, Eat 'n Park,  
 5451 Mahoning Ave  
 All members welcome

**Members Meeting:**

September 18, Davidson's  
 3636 Canfield Rd., Cornersburgh  
**Speaker:** Bruce Manning NJ3K, retired EMA director  
 from McKean County, Pa.

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**OTHER IMPORTANT WEB SITES**

**THE ARRL EXAM SEARCH PAGE**

<[HTTP://WWW.ARRL.ORG/FIND-AN-AMATEUR-RADIO-LICENSE-EXAM-SESSION](http://www.arrl.org/find-an-amateur-radio-license-exam-session)>

**OHIO SINGLE SIDEBAND NET**

<[HTTP://WWW.OSSBN.ORG/INDEX.HTML](http://www.ossbn.org/index.html)>

**ANTENNA HEIGHT ABOVE AVERAGE TERRAIN (HAAT) CALCULATOR**

[HTTPS://WWW.FCC.GOV/MEDIA/RADIO/HAAT-CALCULATOR](https://www.fcc.gov/media/radio/haat-calculator)



<http://www.wrarc.net/>

FROM OUR VP

Hello, All. This will be a short article this month too. We are still away, although on our way back to Youngstown. The summer is quickly passing by and some of our club events are behind us with a few more events to come to lead us into the fall. As I write this article, the Panerathon will take place in a few days and will be behind us to by the time you read this. I am sure it will all go well. I want to give a big shout-out and thank you to Joe, W0JO, for handling this while I was gone.



Our next activity to look forward to is the Sept. 5 Family Fun Day at Boardman Park. This is a fun activity that puts kids “on the air”- simplex - with our people and provides education to the public through our radio set up and static display. Come on out and join the fun and see some of the other interesting displays that are there. Our fall road clean up will take place in either September or October, I do not have the date yet, but we will pass it on when we have it. October brings us two activities. The 4H Haunted Hayride will occur on Fridays and Saturdays of three weekends in October. Contact Bill Egan, KD8HCQ, if you can help out with your handhelds. This is another fun activity. Lastly, mark your calendars for the Peace Race on Sunday, October 26 in Mill Creek Park. We’ll need lots of help for this one too. It is a long course for this race.

In closing, I just wanted to pass on a thought about how communications have changed over time. As we were checking out of a hotel this morning, I noticed a very interesting item in the lobby. It was a very old-style switch board sitting there as an antique display. It was a very primitive and early one. What a contrast in seeing all those plugs that a human operator had to plug and unplug to get simple telephone calls completed then with today’s high speed electronics for all of our phones - and radios too. Communications have been completely revolutionized in a century and a half. That leads us into our topic for this month’s speaker, Mr. Bruce Manning, who is a ham and a former EMA director in Pennsylvania. He will give a presentation on how communication has progressed from the early days of telegraph ‘till now. Take care, everyone. See you all soon,

73, Maureen, KD8NXS  
VP/WRARC



**RUN FOR TRUSTEE**

Are you interested in serving as an officer for WRARC? If so, please let your interest be known to the nominating Committee - Roy, KD8IJF, Steve, KD8SOY, or Darrin, N8DMC.



The WRARC office which need to be filled is one three year Trustee. If you like a challenge, run for Trustee, because you never know what job will come your way. Contact the nominating Committee if you want to run. No nominations will be accepted if the person nominated is not willing to run. Nominations will be taken from the floor at the September and October meetings. Remember our elections are in November and the new Trustee will take office in January.

Taken from the SOP posted on the WRARC website <<http://www.wrarc.net/>> - Duties and Responsibilities of Trustees - TRUSTEE: *The Trustees shall be responsible for all club equipment. They should be able to tell the board and membership where and who has what. They are to take on any special task asked of them.*

WHAT'S COMING UP?

- Sept. 08 Fall 446 Road Clean up - Please Volunteer
- Sept. 11 Board Meeting - Austintown Eat 'n Park Members welcome  
Ham Community Breakfast - Boardman Eat 'n Park
- Sept. 18 Members meeting 7:00 P.M. Nominations open  
Speaker: Bruce Manning NJ3K, retired EMA director from  
McKean County, Pa.  
Topic: how early radio and telegraph changed communication.
- Sept. 15 Family Fun Day at Boardman Park - Please Volunteer
- Sept. 25 Ham Community Breakfast - Boardman Eat 'n Park
- Oct. 09 Board Meeting - Austintown Eat 'n Park Members welcome  
Ham Community Breakfast - Boardman Eat 'n Park
- Oct. 16 Members meeting 7:00 P.M. - Run for an office
- Oct. 21 Youngstown Peace Race - Please Volunteer
- Oct.19 - 20 Haunted Hayride - Please Volunteer
- Oct.26 - 27 Haunted Hayride - Please Volunteer
- Nov. 03 YL Breakfast - Place ?
- Nov. 13 Board Meeting - Austintown Eat 'n Park Members welcome  
Ham Community Breakfast - Boardman Eat 'n Park
- Nov. 20 Members meeting 7:00 P.M. - ELECTIONS
- Dec. 01 YL Breakfast - Place ?
- Dec. 11 Board Meeting - Austintown Eat 'n Park Members welcome  
Ham Community Breakfast - Boardman Eat 'n Park
- Dec. 18 Members meeting 7:00 P.M.



CONTACT WRARC ELMERS WITH YOUR QUESTIONS - [QUESTIONS@WRARC.NET](mailto:QUESTIONS@WRARC.NET)



Beatty, Dave KC8WY  
 Fabry, Steve KC8SOY  
 Haren, Roy KD8IJF  
 Williams, Russ NR8W  
 Wojtowicz, Joe W0JO

anything  
 Yaesu FT8900, FT8800, Mobile  
 ???  
 Electrician, tele-data, Amateur Extra  
 ICOM radios, D-Star

kc8wy@zoominternet.net  
 kc8soy@yahoo.com  
 harens@juno.com  
 rwiliams@neo.rr.com  
 w0jo@arrl.net

**He who is afraid of asking, is afraid of learning**

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Articles from members for the Wave Bender are encouraged. They must be received by the editor by the 20th each month. Please send your articles to: [k8jaa@arrl.net](mailto:k8jaa@arrl.net), and put WRARC on the subject line of your email. You may also send your articles to the editor: Jane Avnet, 1440 Skyhawk Pl., Wright City, MO 63390

Join us for the WRARC Friday night Net 9:00 P.M.  
 KD8DWV - 145.270, PL -110.9  
 Upcoming Net Control Operators

September This could be you

If your name has never been on this list  
 Contact Steve, KC8SOY to take a turn at Net Control  
 330-774-6346



WRARC Simplex Frequency 146.565

**Mahoning County ARES® Nets**

1st Monday 8.40 PM ET W8QLY Repeater - 146.745 (PL 110.9)

&

3rd Monday 8.40 PM ET W8QLY Repeater - 146.745 (PL 110.9)

ARES thanks MVARA for the use of their repeater



W8SGT is facilitating The Ohio HF net every Tuesday - 7:00 PM

The net is run from the State of Ohio EOC on the

Ohio ARES Admin frequency 3875 kHz LSB

moves to 7240 Khz after 20-min.

All are welcome to check in.

The Ohio ARES/OES Digital Emergency Net held every Tuesday at 8:00PM.  
 held on 3585 kHz USB.

Please note all digital communications are Upper Side Band.

<http://www.http://ohden.org/> for net details. Net Manager Gary NJ8BB

**COLUMBIANA COUNTY DIGITAL NET**

Wednesdays 8:30 pm - 9:30 pm

145.510 MHZ SIMPLEX

First Wednesday of the Month Mahoning County Skywarn Net  
 is held on the W8QLY repeater 146.745 (-) at 8:30P.M.

Thanks & 73

All of our members (and others) look forward (hopefully) to getting this newsletter every month, so keep sending those articles, jokes, and suggestions!

Thanks goes out to this month's contributors; N8SY, W5YI, the ARRL and the World-Wide Web.



A NOTE FROM OUR TREASURER

Hello everyone - This month I will be talking about elections for a new Trustee. The elections will start in October. Darrin, N8DMC, is in his last term as Trustee, he is the one that will be replaced by one of our WRARC members. If you are interested and have any questions regarding this position, you can contact Darrin, N8DMC, Roy, KD8IJF, or Steve, KC8SOY and they will be more than happy to assist you.



This month is our annual Fall Road Cleanup, September 8. We can always use volunteers for that day. The job is easy, and we have a lot of fun doing it. There are guidelines for this event posted in this month's Wave Bender. They let you know what you need to do and what will be done for you.

The Panerathon Race was exciting to watch and to be a part of. By participating as volunteers, we were able to assist in reporting any emergencies that had arisen to the appropriate organizers and first responders who were in charge of the race.

Our next big event is the Youngstown Peace Race which will be held Sunday, October 21. There are thousands of people who participate in the race every year. Our assistance as volunteers is needed again. We would like to see more than the usual 20 or so volunteers to make this a success for WRARC, and for all Amateur Radio Operators.

If you are not sure of what to do as a volunteer or if this will be your first event, you can request a ride along with one of our WRARC members to see how the task is done, and then be ready to volunteer on your own to help in next years' events. That is the best way to get started and it's not hard to do. You don't have to be part of a club. The only thing you need is a Ham Radio License to participate. We really can use your help. In last month's Wave Bender, the General Communications Guidelines for our WRARC public service events were listed on pages 11 & 12. They are there to guide you through any events we participate in.

Next up ladies, is our monthly YL breakfasts which will start the first Saturday of each month beginning November 3. If anyone has an idea for a new place to go this year, you can email me at: kd8tii@zoominternet.net and I will add it to my list of past places we have gone. I hope to see some new faces at the breakfasts. There will be more information in October's Wave Bender.

Lastly, I will start collecting dues for 2019 this month and up until January 31, 2019. We have 52 members this year, 2018, and I hope we can top this total for next year. You can pay your dues in cash, check or money order at the monthly general meetings or through the mail. Please make checks or money orders out to WRARC. I hope to see many new faces at all our general meetings, at the road cleanup and at the Peace Race in October.

73 Rose, KD8TII  
Treasurer/WRARC



21P & Heart And Soul Nebula -8/17

A GREEN COMET APPROACHES EARTH:

Beautiful green comet 21P/Giacobini-Zinner is approaching Earth for a 58 million km close encounter in early September (September 10) when it is expected to approach naked-eye visibility.

This small but active comet is the parent of the annual Draconid meteor shower, a bursty display that typically peaks on October 8th, less than a month after the comet's 2018 flyby. Visit Spaceweather.com for more information about 21P and where to point your telescope as it approaches.



**Youngstown Peace Race 10K & 2 mile Run**  
**Oct 21, 2018 9:30 AM EDT**  
**Mill Creek Park**



The Peace Race is not your ordinary Midwest road race. The Peace Race has attracted runners from all corners of the globe since its inception in 1975. The Peace Race is a USATF certified course.

**The Location:**



Enjoy the fabulous fall scenery at the setting of the Peace Race's course in Beautiful Mill Creek Park.

**Peace Race Charities:**

Proceeds from the Youngstown Peace Race benefit several area charities, including:

- Akron Childrens Hospital
- St. Vincent DE Paul Society
- Rescue Mission of the Mahoning Valley
- YMCA's Partner in Youth Program
- Farhaven School/Special Olympics
- The Beatitude House



## USE YOUR LICENSE TO SERVE THE COMMUNITY - VOLUNTEER

### 4H HAUNTED HAYRIDE COMING IN OCTOBER



OK, it is now time to start thinking about getting out the long-johns, and the HTs out of their boxes, check and charge those batteries, and go out into the woods. No, we are not going hunting for deer or rabbit. We are going out after creepy people. Now these creepy people will be hiding in Boardman Park. Yes, in Boardman Park! They are there after the little kids that go out on those October weekends to have fun in the woods by scarring people while on the Haunted Hay Ride.

The Haunted Hay Ride is a fund riser for the 4H kids in Mahoning County. This year it will be **October 19 - 20 and October 26 - 27**. ( One night there'll also be pumpkin carving contest for the kids). **NEVER ON SUNDAY!**

We usually meet at the log cabin at 6:00 p.m. - at that time we see where , in the woods, volunteers will be stationed. Now if we have a lot of volunteers, then you can be with someone. If you want - YOU can scare the riders along with the kids.

I hope that people will volunteer and join the fun. Yes, we do have fun, even if it's cold. (Nice thought !)

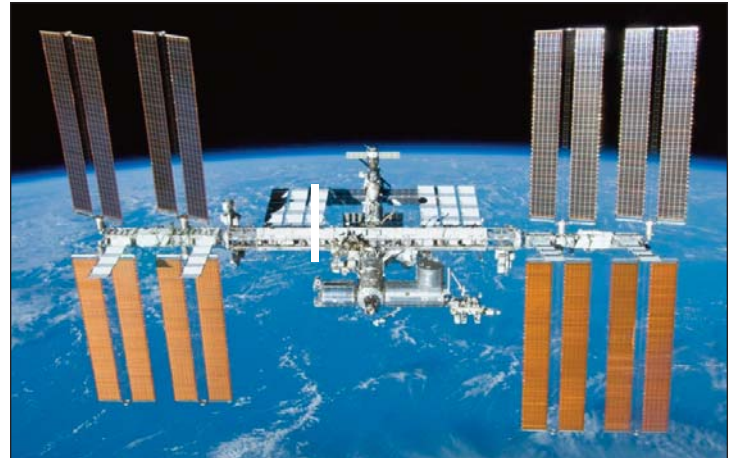


73 to all,  
 Bill Egan, KD8HCQ  
 330 565-4342

HAM ASTRONAUTS

HAM-ASTRONAUTS AMONG FIRST NINE ASTRONAUTS SCHEDULED TO FLY ON COMMERCIAL SPACECRAFT  
08/15/2018

Three radio amateurs are among the initial nine NASA astronauts scheduled to fly on commercial spacecraft to the International Space Station. Others in the group are studying for their ham licensing exams in order to take part in Amateur Radio on the International Space Station (ARISS) school radio contacts, or because they have expressed interest in supporting ARISS events. The women and men chosen will be the first to fly the SpaceX Crew Dragon or Boeing CST-100 Starliner.



SpaceX plans to fly a two-person crew — Robert Behnken, KE5GGX, and Doug Hurley — in Crew Dragon atop a Falcon 9 rocket from Kennedy Space Center. Boeing aims to launch a CST-100 Starliner capsule on an Atlas V vehicle from Cape Canaveral. It would carry a three-person crew — Eric Boe, Chris Ferguson, and Nicole Aunapa Mann, who attended an ARISS introductory talk at Johnson Space Center (JSC) and voiced interest in doing ARISS contacts in the future. At this point, however, her crew training will be stepped up to a more intense level.

Boe and Ferguson, along with Josh Cassada, Victor Glover, Michael Hopkins, KF5LJG, and Sunita Williams, KD5PLB, will also be on the commercial spacecraft on later trips following the first test flights.

Behnken earned his license with help from the ARISS team at JSC in 2005. Hopkins got his license in 2011 and made ARISS school contacts in early 2014. Within the Amateur Radio community, however, he may be best known for installing the ARISS Ham Video system in 2014, shortly before wrapping up his ISS duty tour. He transmitted live images of himself in the ISS as the system was being commissioned, in coordination with the ground-based ARISS-Europe team that’s responsible for the equipment.

Glover has been studying for his ham radio license at Johnson Space Center with a little mentoring from ARISS team member Kenneth Ransom, N5VHO. Cassada spoke in person to students taking part in an ARISS contact at an ISS education conference in 2016, at the time telling the ARISS team that he wanted to get his ham radio license.

Williams has supported a large number of ARISS contacts on the ISS throughout her career, and Ransom said that Williams “is already looking forward to talking to kids through ARISS during her tour of duty.”

“The men and women we assign to these first flights are at the forefront of this exciting new time for human spaceflight,” JSC Director Mark Geyer said. “It will be thrilling to see our astronauts lift off from American soil, and we can’t wait to see them aboard the International Space Station.”



COULD THIS BE YOU?



Could this be YOU? This is the Wave Bender YOUR Newsletter. We have plenty of room for YOUR article(s)! If something is of interest to you, odds are that we all will enjoy your thoughts and activities! Have a favorite radio? Have some reminiscing to do? Maybe you have a question for one of our Elmers. OR, a Tip or Trick you learned that would help one of YOUR WRARC friends. You are warmly invited to contribute! Don’t worry about writing or formality - we can help you with that. Your article could go in this spot, or one larger, next month!!





COMMUNITY SERVICE EVENT - THIS MONTH

The road cleanup on Route 446 our adopted highway in Canfield will be September 8, Rt 446 goes from Rt 442 in Canfield to RT 46 near the Fair grounds We usually meet at the Bob Evans on Rt 224 at 8:30 A.M. for breakfast. We then meet, around 10:00, across from the fairgrounds where 46 and 446 meet to get our vests and bags. Will need 8 to 9 volunteers. Our cleanup area is just short of 2-miles.

Guide-lines for Highway Cleanup

What to wear

1. Dress for the weather
2. light colored clothes
3. a safety vest (supplied by ODOT)
4. work type shoes
5. heavy gloves
6. hat & long sleeved shirt
7. bring a bottle of drinking water
8. if you have a pick up device, bring it



Parking your car:

1. a least 10 feet from traveled surface, we also can park inside the fair grounds.
2. cars along side highway should leave their 4 way flashers on.

Safety:

1. work facing traffic
2. work daylight hours only
3. before starting be sure signs are posted correctly
4. do not wear headset radios, iphones, or tape players
5. do not pick up items from traveled portion of highway
6. do not pick up heavy objects
7. do not pick up roadkill

Other:

1. ODOT will provide trash bags
2. ODOT will provide safety vests (which must be returned)
3. ODOT will pick up filled trash bag after we are done

A complete copy of the Safety briefings will be available to each of you on Saturday.. See you at Canfield Bob Evans that morning. This will be a good event for our environment, and will be fun for all. We should be finished around 11:00 AM. The Rain Date is September 15, to Volunteer, contact Brian, AB8BL.



CALIFORNIA FIRES RESPONSES

California Fires Responses -- ARES operators were involved with communications service as record-breaking catastrophic wildfires struck California. Volunteers from multiple ARRL Sections in the state served. ARRL Sacramento Valley Section Emergency Coordinator (SEC) Greg Kruckewitt, KG6SJT, said American Red Cross shelter communicators worked for 10 days of support. Initially, there were four shelters in Redding.



On August 5, the Shasta-Tehama ARES team was able to take its communications trailer to Trinity County to support a shelter in Weaverville opened for Carr Fire evacuees. "This relieved the Sacramento County ARES volunteers who had been up there for several days," Kruckewitt said. "For mutual assistance to Weaverville, it is a 4.5- to 5.5-hour drive for the Sacramento Valley Section people who helped out. Communications at the shelter were important, as power and cell phone coverage was often spotty, with power going off for hours at a time." At one point, more than a dozen ARES volunteers from Shasta, Sacramento, Butte, Placer, and El Dorado counties were working at shelters opened for the Carr Fire.

Sacramento Valley ARES member Michael Joseph, KK6ZGB, is the liaison at the Red Cross Gold County Region Disaster Operations Center (DOC) in Sacramento and had been in the DOC since the fire started: "When the fire in Sonora started, we scrambled to get some ARES members to that location to see what communications the shelter needed."

Kruckewitt said Winlink continued to be the go-to mode, as fire damaged several repeaters and no repeater path exists to the Gold County Region of the Red Cross in Sacramento.

"One difficulty we ran into this weekend was that the Red Cross needed [ARES Emergency Coordinator and SEC] contact information for various counties that were also experiencing fires and having to open shelters," he said. Completing that task involved lots of phone calls. "We encourage all ARES members to get to know their neighboring ARES groups and check into their nets."

Demand for ARES communicators rose as the fires grew. One problem in deploying volunteers were closed roads. In the San Francisco Section, Section Manager Bill Hillendahl, KH6GJV, said the four-county repeater was destroyed by wildfires a couple of years ago. Power has just been restored to that location, and Hillendahl said that with fires crossing county lines, his Section was considering getting the repeater back in service. A key node for the Carla system of linked repeaters was destroyed by fire, further hampering intrastate communication for ARES teams. -- adapted from ARRL News, Rick Lindquist, WW1ME

The ARRL 2017 Annual Report, which highlights the League's efforts and activities throughout 2017, is now available. Starting with the cover photo, Amateur Radio's response to the Atlantic hurricane season figures prominently in the report. Puerto Rico was especially hard hit by Hurricane Maria, and the cover depicts an October 4 message from the Mayor Carlos Mendez of Aguadilla, Puerto Rico, calling for an Amateur Radio operator to support communication between his town and the capital city of San Juan.



THANK YOU FROM YE ED

Just a sort note thanking those of you, who took the time to write an article this month, or take a picture. You are what makes your newsletter a winner, and my job so much easier. Now that I'm not there to participate in all the fun things happening so I can tell you all what a good time I had doing them. I have to rely on all of you to tell those fun stories. Please don't be shy. Those stories are more important than ever. Thanks in advance.



73, Jane K8JAA  
WRARC / NL Editor

FROM THE PIC



The Voice of Aladdin Hamfest in Columbus a few weeks ago yielded a lot of great stories and good news!!! First, the winners of the 2018 Ohio Section Newsletter Contest were announced and WOW what a contest this year! We had a little math problem with the contest though. Normally there are three winners and an honorable mention...so for those four categories we had seven winners! Using a slide rule, an abacus and a 1970 Radio Shack calculator we finally came up with the winning formula...adding another "place" and doubling up on a couple of categories. It all worked and was all necessary because there were a lot of quality newsletters and the decisions were very difficult. We also had a first for the contest...a printed newsletter and a digital web-based newsletter tied for second place! It's great to see mixed media competing on the same level...all to the benefit of amateur radio.

I told Ohio Section Manager Scott Yonally it was a good day to be a journalist and a ham...and I'm continually impressed with the all of the newsletters. We communicate on air, on line and in print...a Trifecta of Perfection! Don't forget entries for the 2019 Ohio Section Newsletter contest begin in December...just four months away! Congratulations to the winners and to all the writers and editors. In case you missed the final results...here they are:

- First Place The RADIOGRAM...Portage County Amateur Radio Service – Tom Parkinson, KB8UUZ editor
- Second Place-Tie (first time a printed newsletter and on-line newsletter have shared an award)  
The Spirit of '76 & '88...Lake Erie Amateur Radio Association – Ken Kane, KG8DN editor  
Delaware Amateur Radio Association – Stan Broadway, N8BHL editor
- Third Place Quarter Century Wireless Association...Cleveland Chapter Newsletter – Bob Winston, W2THU editor
- Fourth Place The Exchange...SouthWest Ohio DX Association – Bill Salyers, AJ8B editor
- Honorable Mention – Tie CARA COMMUNICATOR...Cambridge Amateur Radio Association – Lyn Alfman, N8IMW editor  
The Voice Coil...Mahoning Valley Amateur Radio Association – Mark Haverstock, K8MSH editor.

From the Public Information Coordinator  
John Ross, KD8IDJ - PIC  
john.ross3@worldnet.att.net

**The Wave Bender Wants to congratulate the winners of this year's newsletter contest. Especially our close freeway neighbors Parky, KB8UUZ, and Mark, K8MSH - ed**



Amateur Radio Operator "Amateur means we're simply professional volunteers" ARRL reflector



**KC8UNR     Mike Cibella**  
**K8NVY     Ray Lashure**



## NATIONAL NEWS

(from ARRL bulletins)

ARRL Comments in “Strong Opposition” to Part 15 Modification Petition Affecting 5 GHz

ARRL has commented in “strong opposition” to a Petition for Rulemaking by RADWIN Ltd. that seeks to amend certain Part 15 rules to permit point-to -multipoint (P2MP) communication services in portions of the 5 GHz band, at power levels now permitted only for point-to -point unlicensed systems. ARRL has focused its concern on proposed high-power P2MP operation in the band 5.725 – 5.850 GHz, but points out that the entire 5.650 – 5.925 GHz allocation has been “subjected to a continuing series of overlays domestically” for more than 2 decades. Amateur Radio is secondary to military radars on the band.

ARRL said the Amateur Radio national “weak-signal” calling frequency of 5.760.1 GHz already has experienced a “very substantial” rise in ambient noise in many areas that has significantly affected Amateur Radio operation in the 200 kHz centered on that frequency, where extremely weak received signal levels are typical. Only low-density usage and the low-power levels permitted for unlicensed national information infrastructure (U-NII) devices have sustained “a good deal of compatibility” between Amateur Radio and U-NII devices at 5 GHz, ARRL said.

“It is quite obvious that RADWIN’s proposal for simultaneous point-to -multipoint transmission, with higher input power and [effective isotropic radiated power (EIRP)], using an electronic steerable antenna system, presents an exceptionally high interference potential to ongoing, weak-signal Amateur Radio Service communications,” ARRL said in its comments filed on July 30. With users located “at all points of the compass from the distribution point,” ARRL said, the potential for interference to Amateur Radio “is much greater.” Greater yet, ARRL noted, is the potential of interference to users of RADWIN’s system.

ARRL said the FCC “has no idea at all” about aggregate noise levels in the 5 GHz band in general, while Amateur Radio and Amateur Satellite users have reported increased ambient noise levels in the band, especially near 5.760 GHz. “Both the Petition and the technical statement accompanying the Petition are silent on potential interaction between P2MP simultaneous transmission systems operating at high power, and any Amateur Radio facility,” ARRL said. “As a result, the petition is fatally flawed and should be dismissed, relative to the 5.725 – 5.850 GHz band.”

ARRL asserted that the FCC lacks jurisdiction to authorize Part 15 device operation by rule, “absent a specific finding that the device will not predictably cause interference.” Unlicensed, very low-power Part 15 devices may not cause interference to licensed services and must accept any interference caused by a licensed station and must shut down if notified by the FCC that the device is causing harmful interference.

ARRL said RADWIN’s Petition not only is flawed but fails to address the issue of compatibility between the proposed high-power P2MP Part 15 operation and individual stations in incumbent primary and secondary services. “It is long past time that petitioners such as RADWIN provide in their rulemaking petitions dealing with Part 15 rules enough data to allow the Commission to make an evaluation that fulfills its obligation under the Communications Act,” ARRL concluded. “RADWIN’s Petition must be dismissed as one which fails to provide an adequate justification for the relief requested.”



**“If you want to find the secrets of the universe, think in terms of energy, frequency and vibration.”**

— Nikola Tesla



## WWV-WWVH SHUT DOWN PROPOSAL

Concern Rising within Amateur Radio Community over WWV-WWVH Shut Down Proposal - 08/21/2018

ARRL members and Amateur Radio clubs are expressing increased concern over the inclusion of WWV and WWVH on a list of proposed cuts in the White House's National Institute of Standards and Technology (NIST) Fiscal Year 2019 budget request. The proposed cuts also would include the Atomic Clock signal from WWVB used to synchronize specially equipped clocks and watches. Online petitions soliciting signatures include one established by Tom Kelly II, W7NSS, of Portland, Oregon, who would like to see funding for the stations maintained. At this point, the budget item is only a proposal, not a final decision. That would be up to the Congress to decide.



ARRL is among those worried over the possible loss of WWV, WWVH, and WWVB and is suggesting that members of the Amateur Radio community who value the stations for their precise time and frequency signals and other information sign Kelly's petition and/or contact their members of Congress promptly, explaining how the stations are important to them, beyond government and military use.

Kelly's petition, which may be signed by US residents, notes that WWV is among the oldest radio stations in the US, having been established in 1920. "The station has transmitted the official US time for nearly 100 years, and is an instrumental part in the telecommunications field, ranging from broadcasting to scientific research and education," his petition says. "Additionally, these stations transmit marine storm warnings from the National Weather Service, GPS satellite health reports, and specific information concerning current solar activity and radio propagation conditions. These broadcasts are an essential resource to the worldwide communications industry."

NIST's full Fiscal Year (FY) 2019 budget request to Congress calls for the agency to "discontinue the dissemination of the US time and frequency via the NIST radio stations in Hawaii and Fort Collins, Colorado." The agency noted, "These radio stations transmit signals that are used to synchronize consumer electronic products like wall clocks, clock radios, and wristwatches, and may be used in other applications like appliances, cameras, and irrigation controllers." The specific cut, which would come from the NIST Fundamental Measurement, Quantum Science, and Measurement Dissemination budget, would amount to \$6.3 million.

In its budget request, NIST said that it plans to consolidate and focus work on its efforts in quantum science while maintaining essential core capabilities in measurement science research and measurement dissemination, as well as eliminate "efforts that have been replaced by newer technologies, measurement science research that lies outside NIST's core mission space, and programs that can no longer be supported due to facility deterioration."

WWV and WWVH broadcast time and frequency information 24/7, including time announcements, standard time intervals, standard frequencies, UT1 time corrections, a BCD time code, geophysical alerts, and marine storm warnings. Transmissions are broadcast from separate transmitters on 5, 10, 15, and 20 MHz. An experimental 25 MHz signal is also currently on the air. WWVB transmits standard Coordinated Universal Time (UTC) signals on 60 kHz to appropriately equipped timekeeping devices.

NIST Public Relations Director Gail Porter told Tom Witherspoon, K4SWL — editor of The SWLing Post, which has been tracking developments — that NIST "is proud of the time and frequency services we provide through our radio stations, and understands that these services are important to many people."

NIST Director Walter Copan has supported the overall budget request. "This budget request ensures that NIST can continue to work at the frontiers of measurement science by preserving investment in core metrology research," Copan said. "Through its constitutionally mandated role, NIST performs work that only the government can do, and produces enormous return on US taxpayers' investment. Translating measurements into technically sound standards across all industries enables effective international trade and US competitiveness."

from the ARRL Letter for August 22, 2018

DISASTERS HAPPEN. PREPARE NOW. LEARN HOW. SEPTEMBER IS NATIONAL PREPAREDNESS MONTH



Columbus, OH – This September for National Preparedness Month (NPM), the Ready campaign’s theme is: Disasters Happen. Prepare Now. Learn How. Preparedness is important. Everyone can take actions now to plan and prepare for disasters. Being prepared now allows individuals and neighborhoods the knowledge to be sustainable until first responders can arrive.

NPM is designed to raise awareness and to encourage everyone to prepare themselves for emergencies that could impact their homes, their businesses, their schools and communities.

“There is no better time than now to be prepared,” said Sima Merick, Executive Director of the Ohio Emergency Management Agency. “Emergencies and disasters can happen at any time, often without any warning. Knowing what hazards or severe weather events could impact your area; practicing your emergency plans; updating your disaster supply kits – these are just some things everyone can do to be self-sufficient and to enhance community resilience.”

Additional NPM Actions to Prepare Now:

- Organize disaster supply kits for your home and vehicles. A supply kit is a collection of basic items your household may need, in the event of an emergency. Most items in a basic kit are inexpensive and easy to find. And you might already have a lot of the items in your home. After a disaster happens, you may need to survive on your own for several days. Your disaster kits should have enough food, water, and other essential items to sustain everyone in your home (including pets) for at least three days.
- Take time to learn life-saving skills – actions you can take to prepare for and protect against disasters and severe weather events. Install smoke, carbon monoxide and natural gas detectors and test them monthly. Know how to turn off utilities, like water and gas. Talk to your landlord or building manager about evacuation routes and fire safety. Know two ways out of your home in case of a fire and practice evacuation plans.
- Check your insurance policies and coverage for the hazards that might impact your home or community, such as flooding, tornadoes or home fires.
- Consider the costs associated with disasters. Consider saving money in an emergency savings account that could be used in any crisis. Keep a small amount of cash at home in a safe place. Have small bills on hand because ATMs and credit cards may not work after a disaster when you may need to purchase necessary supplies, fuel or food.

In coordination with FEMA’s Ready campaign, Ohio EMA and ReadyOhio encourage households, local emergency management agencies, businesses, schools, and places of worship to Prepare Now and Learn How by participating in NPM’s weekly themes for 2018:

|                    |                               |
|--------------------|-------------------------------|
| Week 1: Sept 1-8   | Make and Practice Your Plan   |
| Week 2: Sept 9-15  | Learn Life-Saving Skills      |
| Week 3: Sept 16-22 | Check Your Insurance Coverage |
| Week 4: Sept 23-29 | Save for an Emergency         |

Scott Yonally, N8SY  
Section Manager - Ohio  
from The Ohio Section News Update - The August 27th Edition



### **Eleventh Annual Ohio State Parks On The Air – Amateur Radio Contest**

Make sure to mark your calendar for the 2018 Ohio State Parks On The Air (OSPOTA) contest – September 8, 2018. The contest is always held on the first Saturday following the Labor Day holiday. Each year this event has grown, and we anticipate another year of growth with even more participating Amateur Radio Operators.

Let me remind you that the OSPOTA contest was conceived with three main goals in mind:

1. To promote public awareness of amateur radio and Ohio's beautiful state parks system
2. To contribute to the recognition that Ohio has a very diverse and wonderful ecology
3. To promote camaraderie within the ranks of Ohio's Amateur Radio Operators

Your participation has allowed these goals to be achieved. We agree it is a lot of fun to get out in a natural setting with your radio and see how well you can do at working operators in the beautiful Ohio State Parks. This will be the eleventh annual OSPOTA – Make plans now to be active in OSPOTA 2018.

The 2018 files are now being posted both on the OSPOTA web site and the OSPOTA Yahoo Group site. Don't forget – we have an OSPOTA Yahoo Group located at: [groups.yahoo.com/neo/groups/OSPOTA/info](http://groups.yahoo.com/neo/groups/OSPOTA/info) The OSPOTA Yahoo Group page is used for messaging and sharing of information about OSPOTA for all the fans and participants in the OSPOTA contest. The Yahoo Group is where the action is. Also, since we do allow spotting to encourage more contacts during OSPOTA, Facebook is being used before and during the contest for instant updates and to share stories and photos.

As the contest draws near, we'll be posting on the OSPOTA Yahoo Group page the anticipated 'who's going to be at what Ohio State Park' or 'Planned Park' list as we have in past years. Send your planned park activation information to [PlannedParks@ospota.org](mailto:PlannedParks@ospota.org). Please, include the call sign that will be used and the Ohio State Park you plan to be at. If your plans change, just let us know and we'll update the list

Notes: Lake White State Park was still out of full opening as of February 17, 2018. We'll keep an eye out and see if it will be re-opened in 2019. Even with all the repair work that has been accomplished, they are still having problems with water levels. Additionally, some Ohio State Parks are now being managed by local park systems, but they are still listed and considered to be Ohio State Parks according to ODNR (Quail Hollow & Tinkers Creek). OSPOTA Questions?

Email: [INFO@ospota.org](mailto:INFO@ospota.org) When the OSPOTA contest is over, send Logs and Summary Sheets to: [Logs@ospota.org](mailto:Logs@ospota.org). <http://www.ospota.org/ospota/index.php>

Scott Yonally, N8SY  
from Section Manager - Ohio  
from The Ohio Section News Update - The August 27th Edition

TAKE TIME TO LAUGH FOR IT'S THE MUSIC OF THE SOUL -- FROM AN OLD ENGLISH PRAYER

THE HANDYMAN HUSBAND\*

1. \*On a cold winter morning, wife texts husband:\*
2. \*"WINDOWS FROZEN, WON'T OPEN"\*
3. \*Husband texts back:\*
4. \*"POUR SOME LUKEWARM WATER OVER IT AND TAP"\*
5. \*GENTLY ALONG THE EDGES WITH A HAMMER"\*
6. \*Five minutes later wife texts husband:\*
7. \*"COMPUTER REALLY SCREWED UP NOW"\*



**My doctor said now that I'm older  
I need to install a bar in the shower**



**Monthly  
Ham Community  
Breakfast  
Second and Fourth  
Tuesdays  
9:00 A.M.  
at Boardman  
Eat'n Park  
Join Us!**



THANK YOU



**MAHONING COUNTY  
EMERGENCY MANAGEMENT AGENCY**

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*Board of Mahoning County Commissioners*

*Dennis O'Hara, Director*

*Anthony Traficanti  
Carol Rimedio-Righetti  
David Ditzler*

*700 Industrial Road  
Youngstown, OH 44509  
Phone: 330-740-2200 Fax: 330-270-7779*

August 20, 2018

Mr. Dave Brett  
Mahoning County ARES

Mr. Brett,

I would like to thank you for assisting and coordinating with ARES volunteers to conduct damage assessment in the Boardman, Struthers, Poland areas last week. We were able to make positive contact with over four hundred homes and businesses on seventy plus streets in these affected areas.

I am proud of the coordination between the EMA and ARES. I look forward to working with ARES and continuing to foster the relationship between the organizations. I will be in touch in the next few weeks to schedule an after action review (AAR) so that we can critique our response and implement any improvements. Once again thank you for all of your assistance and please pass along this message to all of the ARES volunteers that assisted.

Respectfully,

Dennis O'Hara  
Director

Scott Yonally, N8SY  
Section Manager - Ohio  
from The Ohio Section News Update - The August 27th Edition

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**The latest survey shows that  
three out of four people make  
up 75% of the population.**

# September 2018

PREPAREDNESS LEADS TO READINESS - MATT W8DEC



| Sunday                 | Monday   | Tuesday  | Wednesday | Thursday                             | Friday   | Saturday                                  |
|------------------------|--|--|-----------|--------------------------------------|--|---|
|                        |  |  |           |                                      | WRARC Net<br>9:00PM<br>145.270<br>Swap n'<br>Shop<br>Ask the<br>Elmers       | 1<br>No Rhyme<br>or Reason<br>Day         |
| 2                      | 3<br>Labor Day   | 4  | 5         | 6<br>National<br>Cheese<br>Pizza Day | 7<br>WRARC Net<br>9:00PM<br>145.270<br>Swap n'<br>Shop<br>Ask the<br>Elmers  | 8   |
| 9<br>Teddy Bear<br>Day | 10<br>Ham Breakfast<br>Eat'n Park<br>Boardman<br>8:30 A.M.<br><br>Board Meeting<br>Eat'n Park<br>Austintown<br>7:00 P.M. | 11<br>SEPTEMBER 11, 2001   | 12        | 13<br>National<br>Peanut Day         | 14<br>WRARC Net<br>9:00PM<br>145.270<br>Swap n'<br>Shop<br>Ask the<br>Elmers | 15  |
| 16                     | 17<br>ARES Net<br>8:30 PM<br>146.745<br>PL 110.9   | 18<br>WRARC<br>Meeting<br>7:00 P.M.  | 19        | 20<br>WaveBender<br>Input Due        | 21<br>WRARC Net<br>9:00PM<br>145.270<br>Swap n'<br>Shop<br>Ask the<br>Elmers | 22<br>FALL<br>EQUINOX<br>9:54 P.M EDT<br> |
| 23<br>                 | 24   | 25<br>Eat'n Park<br>Boardman<br>8:30 A.M.<br>Ham<br>Community<br>Breakfast | 26        | 27                                   | 28<br>WRARC Net<br>9:00PM<br>145.270<br>Swap n'<br>Shop<br>Ask the<br>Elmers | 29  |
| 30                     |  |  |           |                                      |  |   |