




The Wave Bender

May-June 2018

AWARD WINNING NEWSLETTER

PRESIDENTS MAY REPORT

The next few months are important ones since they will determine the extent of involvement of our membership in special events like the marathons and field day. The more that participate the better it is for WRARC.

The Canfield road cleanup had a very nice turnout of 15 members. We had twenty-one members attend our monthly club meeting. Thirty-five Hams checked in on the Friday night net and the biweekly breakfast attracts 10 to 15 members each time. We continue to have an active club and are encouraging members to attend the Youngstown Marathon on June 3. Some of the clubs officers will meet this Wednesday to finalize plans with those from the Marathon. Maureen will keep you updated. We hope as many of you as possible can participate on June 3. 

73, Brian, AB8BL
WRARC/President



USE YOUR LICENSE TO SERVE THE COMMUNITY - VOLUNTEER



The Youngstown Marathon presented by Chemical Bank & Second Sole drives to support the community by bringing runners from Ohio, Pennsylvania, and West Virginia, in addition to professional runners from around the country together in beautiful Youngstown, Ohio

The Chemical Bank & Braking Point Recovery Center Youngstown Marathon is projected to have an economic impact of over a million dollars for businesses within the city and the surrounding areas of tourism. A portion of the proceeds of the race will go to various charities in the community.

WRARC is providing public service radio coverage as we did last year. This race is on Sun., June 3, 2018. We will need to be at our stations before the start time for the race 7:00 A.M. We will be gathering in the parking lot of Fellows Riverside Gardens in Mill Creek Park at about 6:30 A.M., or earlier, to get our assignments.

If you have not already signed up, please consider doing so. Thank you so much to all who have signed up so far. Please reply to this e-mail or to my direct e-mail at mfstein@zoominternet.net, or to my phone at 330-398-1303. I know we will have a good event!

73 Maureen. KD8NXS

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 kd8jif@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:

June, 12, 2018, 7:00 P.M. At Eat 'n Park,
 Austintown, Eat 'n Park,
 5451 Mahoning Ave
 All members welcome

Members Meeting:

June 19, Davidson's
 3636 Canfield Rd., Cornersburgh
Speaker: Frank Sole, WB8YHD
Topic: the YSU Amateur Radio Club



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

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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)>

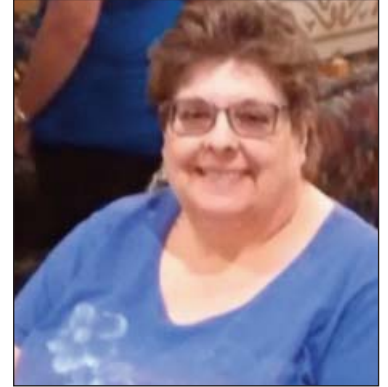
ANTENNA HEIGHT ABOVE AVERAGE TERRAIN (HAAT) CALCULATOR

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

FROM OUR VP

Hi, all. Here we are at the start of summer and we are into our busy season as a group. First off, though, we had to very recently say goodbye to our founders, Al, AB8AA, and Jane, K8JAA, Avnet. You are missed and thank you for all you did to get us up and running. We are all glad you had a good trip out to Missouri and we all wish you well. It is nice to hear you check in by echo-link on Friday nights. Don't forget to come back and visit sometime.

June will be a busy month. At the beginning, on Sun., June 3, we have the first of our major public service events- the Youngstown Marathon. We will be providing our services as we did last year. We will have operators stationed at various points on the race route(s) and a person stationed with the personnel at each of the seven medical tents set up at certain points. The race organizers want us to have someone at each of these.



One thing that will be a little different this year, is the involvement of the EMA who will have a tent set up near the finish line. They want to work with us. Their presence at the event is at the wishes of the race organizers and exactly how we will interface with them is still being determined. As of my writing this article, we have another meeting or two to establish that. As we find out more information, we will pass it along.

The day of the event, we will be meeting very early in the morning at about 6:30 A.M. or earlier as the race begins at 7 A.M.. We will meet at the back parking lot area of Fellows Riverside Gardens of Mill Creek Park where our net control operates from. There are four parts to the race-the full marathon, the Half Marathon, the 5K, and the Kid's Run. The longest part will be the Full Marathon and the last of these runners are expected to come in at about 1:30 P.M. and that will conclude the event. We still need more people to sign up. If you can help, please contact me at mfstein@zoominternet.net or at 330-398-1303. Thank you to all who are planning to help.

At the end of the month, we have Field Day on June 23-24. If you are planning to camp out or bring your HF equipment to operate, please contact Steve KC8SOY to coordinate where you will set up on the grounds at Youngstown Elser Metro Airport on Sharrot Rd. in North Lima. As usual, we will have our Sat. evening picnic meal at about 6 P.M.. The club will provide hamburgers and hot dogs. Everyone attending is to bring a favorite side dish to share. The food sign up sheet will go around again at the June general meeting or you can contact me at the e-mail address or phone number given above. Hope to see you all there.

At the June meeting, our presenter will be Frank Sole, WB8YHD, who will speak to us about the YSU Amateur Radio Club.

73 Maureen, KD8NXS
VP/WRARC



**The Dayton Hamvention was May 18-20 at the
Greene County Fairgrounds and Expo Center in Xenia, Ohio.
It was the largest annual Amateur Radio gathering in the US this year was
sanctioned as the 2018 ARRL Great Lakes Division Convention.**

Did you attend? if so, please tell us about what you experienced.



WHAT'S COMING UP?

May 13	Mother's Day
May 19	Armed Forces Day
May 27	Memorial Day
June 03	Youngstown Marathon
June 12	Board Meeting - Austintown Eat 'n Park
	Ham Community Breakfast - Boardman Eat 'n Park
June 17	Father's Day
June 19	Members meeting
June 23 & 24	Field Day
June 26	Ham Community Breakfast - Boardman Eat 'n Park
Aug. 26	Panerathon
Sept. DTBD	Fall Road Clean up
Oct. 21	Youngstown Peace Race

CONTACT WRARC ELMERS WITH YOUR QUESTIONS - QUESTIONS@WRARC.NET

Avnet, Allan AB8AA

Antennas, radio setup, mobile,
grounding, classes, anything
anythingab8aa@arrl.netBeatty, Dave KC8WY
Fabry, Steve KC8SOY
Haren, Roy KD8IJF
Williams, Russ NR8W
Wojtowicz, Joe W0JOYaesu FT8900, FT8800, Mobile
???
Electrician, tele-data, Amateur Extra
ICOM radios, D-Starkc8wy@zoominternet.net
kc8soy@yahoo.com
harens@juno.com
rwiliams@neo.rr.com
w0jo@arrl.net

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He who is afraid of asking, is afraid of learning

Articles from members for the Wave Bender are encouraged. They must be received by the editor on the 20th each month. Please send your articles to: k8jaa@arrl.net, and put WRARC on the subject line of your email. You may also send your articles to the editor: Jane Avnet, 2050 E. South Range Rd., New Springfield, OH 44443

Join us for the WRARC Friday night Net 9:00 P.M.

KD8DWV - 145.270, PL -110.9

Upcoming Net Control Operators

May 18	Bob, KE8HHH
May 25	Mike, KC8WUX
June 01	This Could be You
June 08	Rose, KD8TII
June 15	Roy, KD8IJF
June 22	Field Day weekend Bill, KD8HCQ
June 29	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.

ARRL FIELD DAY 2018 IS JUNE 23-24

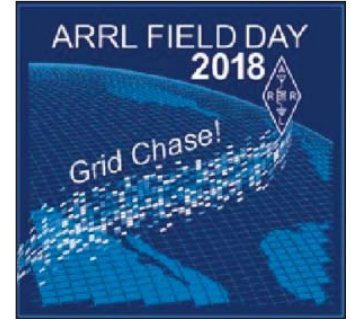
Field Day is coming up very fast, it's just around the corner - June 23 & 24. I reserved the tent for Field Day this past Friday. As of this time, we have eight people camping at our site we still have a lot of room for camping. Bob, AB8OP, is bringing his big generator and a portable tower to our site.

I will be ordering Dave's, KC8WY, Ham Shack, A port a john this week. We will be having different things going on at Field Day this year. With the help of other Elmer's we will have demonstrations in cross band port a repeat programming, the proper way to wire your Mobil radios, and HF set up tuners and operating - Maybe a fox Hunt. So, if you wish to learn more about your hobby, be there. We will be starting to bring in campers on Thursday, June 21.

I may be asking for some extra help this year with set up as I should have a new job and not knowing if I can be there at all times. So with that, ask a friend to visit our Field Day site. For any Questions on any thing, You may call me or text 330 774 6346.

73, Steve, KC8SOY

Field Day Test Session will be held Saturday June 23 2018 at 10 am. at our Field day site at Elser Airport
For information contact Bob Mitzel , N8RCM, CVE at 575-910-1456

**WHAT IS FIELD DAY?**

This year, many groups and participants may choose to combine 2018 Field Day with our year long operating event - 2018 ARRL International Grid Chase (IGC) - working stations in as many grid squares as possible and uploading log data to ARRL's Logbook of The World (LoTW).

For 2018 Field Day and the IGC, the standard event exchange of Field Day Class and Section is still what is sent over the air. After Field Day is where your logs can count for the IGC, but you must be sure when uploading your Field Day logs to LoTW that your TQSL Station Location includes your Grid Square - then LoTW takes care of the rest. Check out the Monthly ongoing results on the IGC Leader board.

ARRL Field Day is the single most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June of each year, more than 35,000 Radio Amateurs gather with their clubs, groups or simply with friends to operate from remote locations. Field Day is a picnic, a camp out, practice for emergencies, an informal contest and, most of all, it's FUN! It is a time where many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, other groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate Amateur Radio to the organizations that Amateur Radio might serve in an emergency, as well as the general public.

For many clubs, ARRL Field Day is one of the highlights of their annual calendar. The contest part is simply to contact as many other stations as possible and to learn to operate our radio gear in abnormal situations and less than optimal conditions. We use these same skills when we help with events such as marathons and bike-a-thons; fund-raisers such as walk-a-thons; celebrations such as parades; and exhibits at fairs, malls and museums — these are all large, preplanned, non-emergency activities. But despite the development of very complex, modern communications systems — or maybe because they ARE so complex — Ham Radio has been called into action again and again to provide communications in crises when it really matters. Amateur Radio People (also called "Hams") are well known for our communications support in real disaster and post-disaster situations. For More Information visit: www.arrl.org

Updated: 2/2018

WHAT IS THE ARRL?

The American Radio Relay League is the national association for Amateur Radio in the USA, representing over 170,000 FCC-licensed Amateurs. The ARRL is the primary source of information about what is going on in Ham Radio. It provides books, news, support and information for individuals and clubs, special events, continuing education classes and other benefits for its members.. For More Information visit: www.arrl.org / Updated: 2/2018

HAMS HELPING HAMS

Dave KC8WY and I took a road trip to Stan's, KB3WPD, house in New Castle, PA back in April to look at his antenna to find out why he was having a hard time getting into the KD8DWV repeater. Dave and I saw that half the antenna was below the roof line of Stan's house, and the elevation at his location, it needed to be much higher. We told Stan that we will be back when the weather was better, to get on his roof. Well, it took till Saturday, May 12, That morning turned out to be a very nice sunny day for an antenna party. I called Dave, KC8WY, Roy, KD8JMO, Noah, N3DZH, and Darrin, N8DMC, to come and help. Noah wanted to come and participate, but he had to work.

Darrin and I stopped at Lowes, in New Castle, and picked up two 10 ft sections of EMT pipe 1.5 and 1.25. The 1.25 pipe slides into the 1.5 inch pipe. With this idea, we were able to raise his antenna about 12 feet above the roof of his house. Roy, Stan, Darrin and I took his old set up down and replaced it with the new pipe. I used self tapping bolts to hold the pipe together as one slid into the other. We assembled the new pipe to the antenna on the roof then erected it back into position, bolt it in place. Roy, Stan, Darrin and I climbed the ladder and secured the top portion of the pipe to the house. This plan worked every well in getting his antenna much higher.

KC8WY was ground control and safety watch and supervisor. Watching to see if anyone fell off the roof. Darrin took pictures from inside the bathroom - the toilet cam. Dave, Darrin, and Stan went into Stan's Radio shack to check Stan's radio, it was tripping the repeater full quieting. Job well done! I talked to Stan later that day, he was great into the repeater.

These are some of the Elmers of WRARC, we are there to help Ham Radio Operators get on the air, because the hobby is using your radio.

73 Steve, KC8SOY
WRARC/Field Day Captian



Photos by N8DMC

THANKS TO THE ELMERS

Special thanks to the Western Reserve Amateur Radio Club Elmers who came out to my house last Saturday to raise the height of my dual band Tram 1481 antenna. Team leader Steve KC8SOY organized the project with Roy KD8JMO and Darrin N8DMC assisting. Dave KC8WY was there to generally supervise and instruct me on radio basics.

When I first put up my antenna a few years ago, it was a solo operation carried out by a novice Ham without guidance or experience. After already installed, an experienced Ham immediately noticed it was least 6 feet too short to be maximally effective especially with my location in a valley. However there was no way I would be able to handle a fix by myself. On a good day I could reach the club-sanctioned repeater (145.270 minus offset PL 110.9, Thank You Liz & Dave) but rarely enjoyed a loud & clear connection. Lately I had been able to hear, sometimes with difficulty, weekly Friday night Nets, but no one else could hear me. After a while it gets discouraging.

Fortunately the WRARC Elmers came to the rescue. They arrived midmorning with appropriate parts and tools, set right to work sizing up the situation, then efficiently replaced the shorter mast with a longer one capable of transmitting above my own and neighboring rooftops. This entire project was wrapped up hours before rain and stormy bad weather swept through, as promised by the weatherman. Better yet, the antenna easily survived that storm, a few subsequent storms as well, and still looks good and feels solid to this day.

I am looking forward to being able to check in on Friday nights and actually communicate with other Hams. I think this story illustrates one of the many benefits of membership in the Western Reserve Amateur Radio Club, i.e., the spirit of co-operation and assistance offered to inexperienced Hams from a community of wide practical expertise. It's nice to know that now I can both hear and be heard in the world of Ham, thanks to the Elmers.

73 Stan, KB3WPD-5/15/2018

WRARC/Secretary



ARLX008 NATIONAL HURRICANE CENTER'S WX4NHC WILL BE ON THE AIR FOR ANNUAL STATION TEST

From ARRL Headquarters
To all Radio Amateurs

National Hurricane Center's WX4NHC will be On the Air for Annual Station Test

WX4NHC - <http://wx4nhc.org> - the Amateur Radio station at the National Hurricane Center (NHC) in Miami, will be on the air for the annual station test on Saturday, May 26, from 1300 until 2100 UTC. This will be the station's 38th year of public service at the NHC.



The purpose of the annual event is to test Amateur Radio station equipment, antennas, and computers in advance of the Atlantic Hurricane season that runs from June 1 through November 30.

"This event is good practice for ham radio operators worldwide as well as for National Weather Service (NWS) staff to become familiar with the Amateur Radio communications available during times of severe weather," said WX4NHC Assistant Coordinator Julio Ripoll, WD4R.

"We will be making brief contacts on many frequencies and modes, exchanging signal reports and basic weather data exchange (sunny, rain, etc.) with any station in any location." WX4NHC will be on the air on HF, VHF, UHF, 2- and 30-meter APRS and WinLink. The subject line must contain "//WL2K."

The Hurricane Watch Net frequency of 14.325 MHz will be primary for WX4NHC. Operation also will take place on the VoIP Hurricane Net from 2000 to 2100 UTC on IRLP node 9219 and EchoLink WX-TALK Conference node 7203. Florida Statewide SARNET and local VHF and UHF repeaters will be contacted.

QSLs are available via WD4R, with an S.A.S.E.
NNNN



A NOTE FROM ROSE

Here it is, the start of our summer scheduled events, starting with our Spring Road Cleanup which took place Saturday, May 5 with an alternate date of Saturday, May 12. Thanks to Mother Nature, we were able to do it May 5. We had 13 volunteers for that event and were able to do a good cleanup job. Thanks to all who helped out and hope to see all of you plus a few more doing our next cleanup in September. We will need lots of volunteers to be available for the upcoming three main events. They are: Sunday, June 3, the Youngstown Marathon, Sunday, August 26, the Panerathon Race and Sunday, October 21, the Youngstown Peace Race. We have been asked back to help out from the promoters of these events, because we have done such a good job in the past and they appreciate the good work we do.

Also, Field Day is fast approaching. It will be happening Saturday, June 23, and Sunday, June 24 at Elser Airport in North Lima. We will not need volunteers for this event, but people interested in seeing and learning about ham radio and what you can do with it are welcome to come. People from all walks of life are invited. You don't have to have a ham license to come observe all the activities that go on. Just come and see how much fun we have. We will have a potluck dinner Saturday evening and we always have good food for that. There will be testing Saturday morning for those of you interested in getting your technical license, general license, or extra license. Those of you who would like to become a member of our club or would like to renew your membership, I will be accepting dues payments that Saturday. Please, come out, take a look, and see if it would be something you would be interested in doing. You won't be sorry.



Saturday, April 7, was our last YL Saturday morning breakfast for the Fall, Winter and Spring seasons. We met at the Eat n Park Restaurant in Austintown. There were six ladies present. They were: Betsy Kramer, Shirley Boles, KD8SSB, Maureen Stein, KD8NXS, Liz Beatty, KD8DWV, Janet Egan, Donna Haren, and Rose, KD8TII. We all had a great time and are already looking forward to October when we will start them up again.

That's all I have to say for now, except I hope to see many of you at all our events and Field Day. 🐼

73 Rose, KD8TII
WRARC/Treasurer

2018 SPRING ROAD CLEAN UP

On Saturday, May 5, we did our spring road clean up on Rte. 446 in Canfield. The weather was perfect for it and it all went well. We had breakfast at Bob Evans Canfield beforehand and that was pleasant too. We had a good turn out with the following club members: Mark Stein KD8YMK, Donna Haren, Roy Haren KD8IJF, Ted Filmer KD8IJE, Brian Lewis AB8BL, Dennis Marko KA8DJM, Rosemary Marko KD8TII, Russ Williams NR8W, Steve Fabry KC8SOY, Darrin Cannon N8DMC, Stan Adamski KB3WPD, Liz Beatty KD8DWV, and Maureen Stein KD8NXS. We were joined by Mark's friend and fraternity brother, Dan Raver. Both young men were a big help. Rose KD8TII and Dennis KA8DJM took some good pictures as well. Everyone's hard work was very much appreciated. Job well done!

These clean ups always turn up some interesting things on the side of the road, and this one was no different. If any of these tossed-off items could talk, they'd have some interesting stories to tell, no doubt. This time Mark KD8YMK and Dan found nine or ten empty bottles of Crown Royal, all with the same purchase by date on them (likely to be bought together). It must have been a heck of a party for sure - LOL. We can only imagine the set of circumstances under which those empty bottles ended up there all in their own little pile on the side of the road.



We can always use a few more hands with these activities, so those who haven't yet come out for one of these, please think about doing the next one in the fall. "Many hands make light work" for sure. 🐼

73 to all.
Maureen, KD8NXS

LOSS OF FRIENDS

ARLX007 Former Orange Section Manager, Veteran ARRL Volunteer Sandi Heyn, WA6WZN (SK)

Well-known ARRL stalwart and former Orange Section Manager Sandra Mae "Sandi" Heyn, WA6WZN, of Costa Mesa, California, died on April 28 after a lengthy illness. An ARRL Life Member, she was 75. Sandi Heyn was the wife of ARRL Honorary Vice President and past ARRL Southwestern Division Director Fried Heyn, WA6WZO.



In addition to her service as Orange SM from 1983 until 1985, Sandi Heyn served as a member of the ARRL Planning Committee, was Orange Section Emergency Coordinator, and president of the Young Ladies Radio League in 1983. She was Orange Section ARRL Affiliated Club Coordinator from 1987 until 2003, and she chaired the Orange County Council of Amateur Radio Organizations in 1991 and the Los Angeles Area Council of Amateur Radio Clubs in 1992. Sandi Heyn received the ARRL Southwestern Division Meritorious Service Award in 2001.



She also was an US Army Military Affiliate Radio Service (MARS) volunteer, a member of several Amateur Radio clubs in California, and was a QCWA Life Member. She regularly volunteered at the ARRL booth and in the Amateur Radio reception during the annual National Association of Broadcasters conventions in Las Vegas. She played a significant role in organizing the 1992 ARRL National Convention in Los Angeles.



WHAT IS AMATEUR RADIO?

Often called "Ham Radio," the Amateur Radio Service has been around for a century. In that time, it's grown into a worldwide community of licensed operators using the airwaves with every conceivable means of communications technology. Its people range in age from youngsters to grandparents. Even rocket scientists and a rock star or two are in the Ham ranks. Most, however, are just normal folks like you and me who enjoy learning and being able to transmit voice, data and pictures through the air to unusual places, both near and far, without depending on commercial systems. The Amateur Radio frequencies are the last remaining place in the usable Radio spectrum where you as an individual can develop and experiment with wireless communications. Hams not only can make and modify their equipment, but can create whole new ways to do things.

For More Information visit: www.arrl.org

Updated: 2/2018



OHIO SECTION NEWS



Hey Gang...

Things were busy once again for me this past week. Working on getting things ready for Dayton. As well as working with my partner in Tennessee on the Annual Section Manager's Conference that's held right before Hamvention, not to mention meeting with the folks in Columbus for the Columbus Hamfest / Ohio Section Conference as well.

How's your training going? Let me know if you have any new course certificates, we'll want them for the statewide database. And, it doesn't always have to be about the NIMS training either. Don't forget that having Basic First Aid and CPR training is very valuable in the field as well. Also, don't forget about the newest training out there, "Stop the Bleed..." This one is really good, and it's something that you can use no matter where you are. These courses are not only useful for you in the field, but you'd be surprised how they can help you around

the house as well. Remember, most accidents happen within 25 miles of you home! And YES, my accident last year happened within that 25-mile radius. You need to be prepared! Things have slowed down a bit for the Ohio Section website for now, but thanks to John, KA8LVZ, for pointing out that in our preamble for the Ohio Section DMR Net that the counties weren't in alphabetical order. They are now. I've updated Preamble so that all of the counties are now alphabetical order per District. These are the things that make us great! Everyone working together as a TEAM. Ok, I to want to update you on the NIMS count. We now have 694 persons registered in our NIMS database. That's only away from hitting that 700 mark and giving away another ARRL ARES Vest! Let's get the 700th person registered BEFORE Dayton!!

Have you gotten your courses in yet? How about it, I know that there's still a lot of you out there that have not taken the NIMS classes yet. C'mon, what have you got to lose? Here's a link to get you started on your way: <http://arrl-ohio.org/SEC/training.html> That's going to do it this time around... I'll catch you on down the log for sure, and stay warm my friends, remember the Dayton Hamvention is just 10 more days away!!!!

Scott, N8SY...

Back Issues of the PostScript and Ohio Section Journal (OSJ)

Hey, did you know that PostScript and Ohio Section Journal (OSJ) are archived on the web-site? You can go back and look at any edition simply by clicking: <http://arrl-ohio.org/news/index.html>



MAYBE THIS IS YOU?

Could YOU be the one I'm looking for? This is the editor of 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 bigger, next month!!



ARLS004 THREE CUBE SATS WITH AMATEUR RADIO PAYLOADS DEPLOYED FROM ISS

From ARRL Headquarters
To all radio amateurs

ARLS004 Three CubeSats with Amateur Radio Payloads Deployed from ISS

The Japan Aerospace Exploration Agency (JAXA) has announced that three CubeSats carrying Amateur Radio payloads, including one with a V/U linear transponder, were deployed from the International Space Station (ISS) on May 11 at around 1030 UTC.

Irazu (Costa Rica) and 1KUNS-PF (Kenya) carry beacon/telemetry in the 70-centimeter Amateur Radio band, while UBAKUSAT (Turkey) carries an Amateur Radio linear transponder for SSB and CW, in addition to CW and telemetry beacons. Irazu is a 1U CubeSat developed by students at the Costa Rica Institute of Technology, with a telemetry beacon at 436.500 MHz. 1KUNS-PF is a 3U CubeSat developed by students at the University of Nairobi, with a telemetry beacon (9.6 kbps) at 437.300 MHz.

UBAKUSAT, a 3U CubeSat developed by students at the Istanbul Technical University, has a CW beacon at 437.225 MHz, and a telemetry beacon at 437.325 MHz. The linear transponder downlink is 435.200 - 435.250 MHz; the uplink is 145.940 - 145.990 MHz.

NNNN



ENHANCING YOUR HT

(from Toby, WT8O and the Wobbly Oscillator)

Like most newly licensed Technicians, my first radio was an HT. I purchased a used Yaesu VX-5R from my Elmer, Gordon, AI8Y. After sixteen years of service, my trusty Yaesu is still operating splendidly. Gordon threw in a few accessories, including a dual band gain antenna. The gain antenna showed great improvement over the standard "rubber duck." I was able to receive signals clearly that I could not even hear with the rubber duck. I also had better success hitting repeaters with the gain antenna. Many manufacturers make these antennas. A Mag mount on a pizza pan, an HT with coax adapter, Diamond and Comet are two that I know work well. A J-pole and a HT gain antenna are pictured left to right.



Often times an amateur's signal will sound weak or scratchy. He or she may mention they are transmitting with an HT and a rubber duck. There is an easy way to significantly improve the signal. Using a better antenna on the ol' HT will really make a difference. We already mentioned the gain antenna, which will work great for portable use. Going a step further, a good mobile antenna and magnetic mount can be used at the home QTH or in a vehicle. Besides the antenna and mag mount, all that's needed is an adapter to connect the coax to an HT. A steel pizza pan, a file cabinet or the top of a refrigerator will make for a decent ground plane. In a car, one can use the roof, deck lid or hood for the mag mount. Most mag mounts come with about 15 feet of coax.

Maybe even better for stationary use, would be the use of the ever-popular J-pole antenna. A big advantage to a J-pole is that it can be built on the cheap. There are a zillion construction methods on the interweb. The J-pole in the attached picture was store bought, but home brewed versions work just as well. One of the antennas mentioned will certainly improve your signal. An old timer told me a ham is judged by the quality of his signal. The addition of an upgraded antenna will definitely improve the signal from your HT.

ARLB011 AMATEUR RADIO PARITY ACT LANGUAGE INSERTED IN NATIONAL DEFENSE AUTHORIZATION ACT

From ARRL Headquarters
To all radio amateurs

ARRL is praising the work of US Representatives Joe Courtney (D-CT), Vicky Hartzler (R-MO), and Mike Rogers (R-AL) for their successful efforts in securing language in the National Defense Authorization Act (NDAA) for Fiscal Year 2019 that aids in the survival and growth of Amateur Radio by giving radio amateurs the right to install an outdoor antenna at their residences with the approval of their homeowners associations. This language - text from the proposed Amateur Radio Parity Act (HR 555) - formed the basis for the Courtney-Hartzler-Rogers Amendment to the NDAA.



The amendment, offered by the bipartisan trio and accepted by the House Armed Services Committee by voice vote, will ensure that Amateur Radio operators will continue to play a vital role in disaster communication, when called upon. Amateur Radio has long-standing relationships with the Department of Defense through both the Military Auxiliary Radio Service (MARS) as well as spectrum sharing.

The Armed Services Committee passed the NDAA by a 60-to-1 voice vote after a 14-hour markup that ran well into the night. The bill now awaits House floor action. The Senate will begin its markup of the NDAA during the week of May 21.

Representatives Courtney and Adam Kinzinger (R-IL) spearheaded the effort to include the Parity Act language in the NDAA. Both are cosponsors of the Parity Act, which has passed the House by voice vote twice in the past 2 years.

Recognizing the long-standing relationship between Amateur Radio and the Department of Defense, Congressman Kinzinger - who served multiple tours for the USAF as a fighter pilot and is still a Major in the Air National Guard, and Courtney, who represents the House district that includes ARRL Headquarters, have been champions of the legislation in Congress.

"The steadfast support of the Amateur Radio community continually demonstrated by Congressmen Kinzinger and Courtney has been a godsend," said Hudson Director Mike Lisenco, N2YBB. "The Parity Act wouldn't be anywhere close to this stage without their strong support, and our organization is extremely grateful."

Lisenco, who serves as Chairman of the ARRL Board's Legislative Advocacy Committee, also recognized other promoters of Amateur Radio, including House Energy and Commerce Committee Chairman Greg Walden, W7EQI (R-OR), Energy and Commerce Ranking Member Frank Pallone (D-NJ), and House Armed Services Committee Chairman Mac Thornberry (R-TX). "We are deeply grateful for their continued understanding and support," Lisenco said.

ARRL will continue to press for support to enact the Amateur Radio Parity Act throughout the legislative process.
NNNN

A plane passed through a severe storm. The turbulence was awful, and things went from bad to worse
when one wing was struck by lightning.

One woman lost it completely. She stood up in the front of the plane and screamed,
'I'm too young to die!' Then she yelled, 'If I'm going to die, I want my last minutes on earth to be memorable!
Is there anyone on this plane who can make me feel like a WOMAN?'

For a moment, there was silence. Everyone stared at the desperate woman in the front of the plane.

Then the cowboy from Texas stood up in the rear of the plane.

He was handsome, tall, well built, with dark brown hair and hazel eyes. Slowly, he started to walk up the aisle, un-
buttoning his shirt as he went, one button at a time. No one moved.

He removed his shirt. Muscles rippled across his chest. She gasped...

Then, he spoke...

'Here, iron this -- and then get me a beer.'

2018 ARRL FIELD DAY IS JUNE 23-24

This year, many groups and participants may choose to combine 2018 Field Day with our yearlong operating event - 2018 ARRL International Grid Chase (IGC) - working stations in as many grid squares as possible and uploading log data to ARRL's Logbook of The World (LoTW).

For 2018 Field Day and the IGC, the standard event exchange of Field Day Class and Section is still what is sent over the air. After Field Day is where your logs can count for the IGC, but you must be sure when uploading your Field Day logs to LoTW that your TQSL Station Location includes your Grid Square - then LoTW takes care of the rest. Check out the Monthly ongoing results on the IGC Leaderboard.

Want to see what 2018 Field Day is all about? Watch our new 2018 Field Day Public Service Announcement or view what several groups uploaded to Youtube from their 2017 Field Day activities.

ARRL Field Day is the single most popular on-the-air event held annually in the US and Canada, On the fourth weekend of June of each year. More than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations. Field Day is a picnic, a campout, practice for emergencies, an informal contest and, most of all, FUN!

It is a time where many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, other groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate Amateur Radio to the organizations that Amateur Radio might serve in an emergency, as well as the general public. For many clubs, ARRL Field Day is one of the highlights of their annual calendar.

The contest part is simply to contact as many other stations as possible and to learn to operate our radio gear in abnormal situations and less than optimal conditions. We use these same skills when we help with events such as marathons and bike-a-thons; fund-raisers such as walk-a-thons; celebrations such as parades; and exhibits at fairs, malls and museums — these are all large, preplanned, non-emergency activities. But despite the development of very complex, modern communications systems — or maybe because they ARE so complex — ham radio has been called into action again and again to provide communications in crises when it really matters. Amateur Radio people (also called "hams") are well known for our communications support in real disaster and post-disaster situations. 🧑🏻🔧



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



May BIRTHDAYS

K8LEA	Stu Mulne
KE8EYE	Debbi Breen
W8LTB	Les Breen
KD8JMO	Roy Dyckman
KD8IJF	Roy Haren
K2GRG	Greg Jackson



THANK YOU

I want to thank everyone for their kind thoughts during my three hospital visits in April and May. Good news, for me, I seem to be OK now. (Keeping my fingers crossed.)

Our move to Missouri was not without some unexpected events. My last hospital visit made it impossible to keep the April 13 move date, and made it necessary to have someone move us. The beginning of May became the new move date. We used our van to move some personal items that we would need as soon as we got there, (like our car.) The van broke down in Effingham, IL, 3-hours from our new home. We got towed to an auto repair shop, which was closed, we spent that night in the Van. No place to stay close enough for me to walk. We rented a U-Haul, the next morning to take some of the things in the van, and with the ability to tow our car hauler.



The van got fixed in a couple days. We picked it up and we now have all the boxes and furniture in one place. Not settled, but everything's here. Now to unpack, think Christmas in the summer.

To send me minutes and/or articles please use k8jaa@arrl.net. For pictures please use Drop Box.



73, Jane, K8JAA
WRARC/ Editor
k8jaa@arrl.net

HOW ELECTRICITY REALLY WORKS

A sheet of paper crossed my desk the other day and as I read it, realization of a basic truth hit me. So simple! So obvious we couldn't see it! Leo Martin of Hiawatha Division had discovered how power systems work. He says that smoke is the real thing that makes power systems work because every time you let the smoke out of something electrical, it quits working! He claims to have verified this with extensive testing.

I was flabbergasted! Of course! Smoke makes all things electrical work. Remember the last time smoke escaped from a transformer? Didn't it quit working? I eat and smiled like an idiot as more of the truth dawned. I remember when I had witnessed the awful destruction of a 12 KV breaker and bus at Sunnyvale. The breaker and bus leaked out so much smoke that they actually melted and quit working,

Yes, I now know that Leo's theory is in fact truth. It's the conductor that carries the smoke from one device to another. It starts at our power plants where stuff is burned to produce smoke. The smoke we see coming from the stacks is the excess smoke the system doesn't need. The smoke is then sent down the conductors to transformers around the system. Transformers are big and require a lot of smoke to work properly. That's why the conductors are so big. If these conductors spring a leak, it lets the smoke out of everything and then nothing works!

I plan on spending more time with Leo on some of his other theories.

Anonymous

*JUNE BIRTHDAYS*

KD8QNY	Nancy Brett
AB8AA	Allan Avnet
AB8BL	Brian Lewis
KD8TIK	Bonny Scott
	Scott Stenglain



INFORMAL AMATEUR RADIO NETS BEING MAINTAINED IN WAKE OF VOLCANIC ERUPTIONS IN HAWAII

**The Mount Kilauea Volcano**

Two informal informational nets remain open on the island of Hawaii ("The Big Island") in the wake of recent and ongoing volcanic eruptions and seismic activity, Pacific Section Emergency Coordinator Clement Jung, KH7HO, reports. No formal traffic has been passed, but frequencies are being monitored.

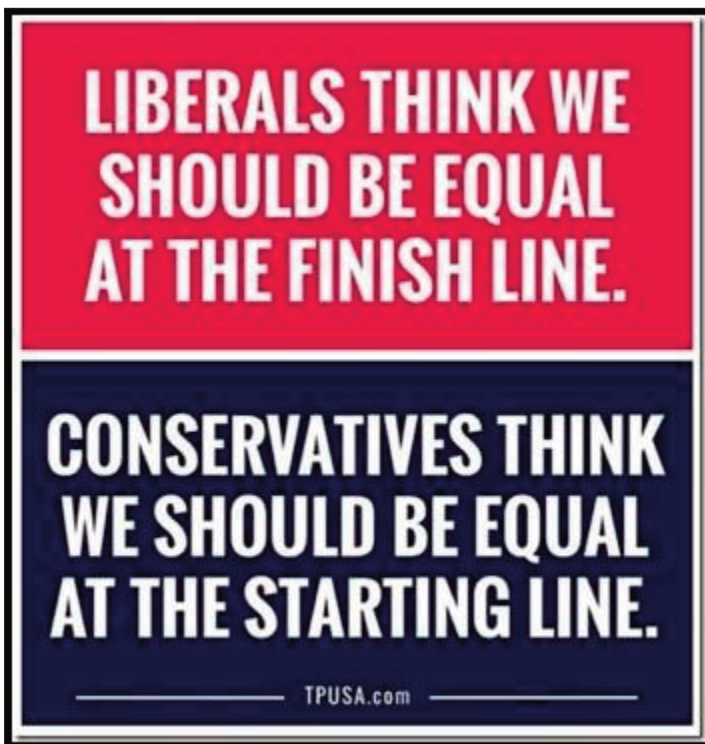
"All normal communications, such as cell, landline phones, internet, and public safety, are operational," Jung told ARRL. Fissures associated with the Kilauea volcano on The Big Island began erupting on May 3, spewing lava and venting high levels of sulfur dioxide.

An Amateur Radio net is in operation on 7.088 MHz (SSB), and the Voluntary Organizations Active in Disaster (VOAD) 146.720 MHz repeater (100 Hz tone) on Mauna Kea was activated after Hawaii's governor issued an emergency declaration. A federal disaster declaration has been approved.

The Hawaiian Volcano Observatory reports active venting of lava and hazardous fumes continues, with no end in sight. The Hawaii Volcanoes National Park closed after roads and trails were damaged. The Observatory this week increased the Aviation Color Code to RED, due to increased ash emission.

FEMA reports some 360 evacuees are staying in emergency shelters. Some 2,000 residents have been evacuated in all. "Twenty fissure vents have formed in and around the Leilani estates subdivision," the agency said in its May 17 report. "Air quality in the southeast area of Lanipuna Gardens has been rated 'condition red' (immediate danger to health) for high levels of sulfur dioxide. Volcanic-tectonic seismicity continues."

The US Geodetic Survey has warned that new lava outbreaks could happen "at any time," as well as "more energetic ash emissions."



We are all born ignorant, but one must work hard to remain stupid.
- Benjamin Franklin







Photos in this issue by KD8TII & KA8DJM

June, 2018

PREPAREDNESS LEADS TO READINESS - MATT W8DEC



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
May 27	28  Memorial Day	29	30	31 Nat'l Donut Day --->	1 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	2
3	4 Hug your cat day	5	6	7	8 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	9
10	11 ARES Net 8:30 PM 146.745 PL 110.9	12 Ham Breakfast Eat'n Park Boardman 8:30 A.M. Board Meeting Eat'n Park Auatintown 7:00 P.M.	13	14 Flag Day	15 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	16
17 Father's Day	18	19 WRARC Meeting 7:00 P.M.	20  WaveBender Articles Due	21 SUMMER SOLSTICE 	22 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	23
24	25 ARES Net 8:30 PM 146.745 PL 110.9	26 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast	27	28	29 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	30