



The Wave Bender

September 2015



WRARC PREZ SEZ

2015 Officers:

President: Roy Haren, KD8IJF kd8ijf@wrarc.net
VP: Joe Wojtowicz W0JO w0jo@wrarc.net
Secretary: Kevin Stein, KD8NXR kd8nrx@wrarc.net
Treasurer: Maureen Stein, KD8NXS kd8nxs@wrarc.net
Past President: Allan Avnet AB8AA ab8aa@wrarc.net

Trustees:

Chris Monske, WF8U wf8u@wrarc.net
Harry Harker, KD8PQK kd8pqk@wrarc.net
Russ Williams NR8W nr8w@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
Nominating Charman: Al Avnet ab8aa@wrarc.net
Newsletter/Web: Jane Avnet K8JAA k8jaa@wrarc.net
Facebook/Badges/logo Design:
John Fabry, KC8SPF kc8spf@wrarc.net
Historian: Terri Mitzel, KD8YYE kd8yye@wrarc.net

Officer's Meeting:

September 8, 7:00 P.M. At Eat 'n Park, 8051 Market St.
Boardman - All members welcome

Regular Meeting:

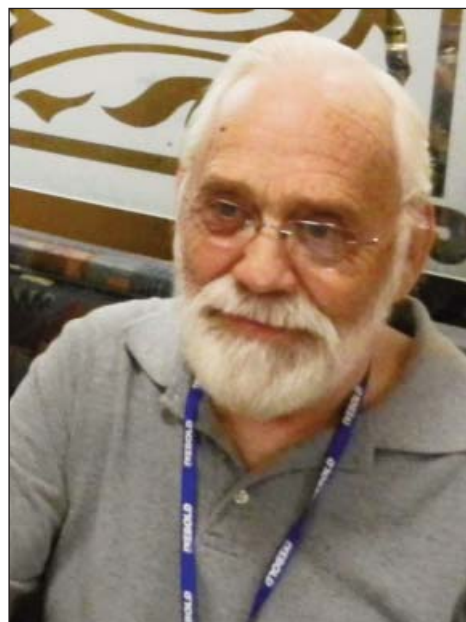
September 15, 7:00 P.M. at Davidson's,
3636 Canfield Rd. Cornersburgh

Join us for Dinner before the meeting 6:00 P.M.

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

Hi Everyone,

If you missed the August meeting, you missed a great presentation by our own Russ, NR8W, on Grounding: How to Be Safe! There was lots of good information and hints on grounding your house, towers, and radios.



Al AB8AA announced that elections are coming up. If you want to run for one of the positions that are opening up, see Al to be on the nomination's list. We will have nominations starting in September and October at the meetings, so you can nominate any member that you want. Officer positions to be elected are: President, Vice-President, Secretary, Treasurer, and one trustee. Elections will be held at the November meeting. There will also be sign up sheets at the meetings for our upcoming events.

Now that August is over with its hot and dry weather, things will be cooler and more comfortable, so get outside and enjoy the weather before you know what! Come out to our events and participate and have some fun at the same time. We will be promoting our club and amateur radio at all our events.



Thanks everyone,
73, Roy, KD8IJF
President, WRARC

A WORD FROM OUR VP

As I write this article for our September issue of Wave Bender, we just completed our "dry-run" for the Panerathon 2015 and the event will be this weekend. Here's hoping the weather will be good next Sunday and everything goes well.

Your officers and trustees are very grateful to all of you who volunteered to work the Panerathon and appreciate your support. As of our last count, we had 28 of our members who volunteered and that is a tremendous response. This is the largest community fund-raising event in the area and one of the largest events our relatively new amateur radio club will work. I'm very proud to be a member of our club and more proud of our members who have stepped up to help.



That said, we have a very busy September and October coming up with the monthly meetings, Ohio State Parks on The Air (OSPOTA), Boardman Park QSO Party, Club picnic, Road Clean-Up, Halloween Hay Rides and both the Alzheimer's and Diabetes Walk. This along with a new Tech class at ITT Tech starting in September.

In November, we'll have our election of officers and trustees. If you haven't held an office yet, we encourage you to talk to your club officers about running for one of the available positions. Our next monthly club meeting will be Tuesday, September 15, 2015, at Davidson's Restaurant, 3636 Canfield Road, Canfield, OH 44406 starting at 6:00pm EDT for dinner and our regular meeting starting at 7:00pm EDT. As of this writing, I'm still waiting for confirmation from our scheduled speaker. We'll have more information on this and the other events as we get closer to those dates. Until then . . .

73, Joe, W0JO, VP



BOARDMAN PARK OUTDOOR FAMILY FUN DAY SEPTEMBER 12

Hi to all Club Members

The Club still has a lot of fun events coming up this year. As with all the other events we do, please wear your club shirt and/or ID badge.

I hope that everyone has their radios programed. If you are having a problem programming please see one of the club's Elmer's. They always are willing to help you with your programming and just about any thing else.



The upcoming event, Boardman Park Outdoor Family fun day, on September 12, 2015, set up at 9:00A.M. Our club will be setting up outdoors this year for this event. If you have a pop-up tent, bring it out for our operators to have some shelter. Operators please bring your table and chairs for your station, there maybe some picnic tables for your use. I am asking all members to come out and enjoy entertaining the families that come to the park. Bring your HT. We will be on simplex helping children talk to other children around the park. I would like to see some operators bring their two meter radios as well as your HF radios, and operate. Our club is there to demonstrate Ham Radio, after all, isn't that the reason you all have a license, to play with your radios?



For any questions please call me at 330 774 6346
73, Steve Fabry KC8SOY

WHAT'S COMMING UP?

Sept. 8	Board meeting at Eat 'N Park, Boardman, 6:00 P.M.
Sept. 12	Boardman Park's Outdoor Family Day,, Contact Steve to help. OSPOTA
Sept. 15	Meeting at Davidson's 7:00 P.M. Start the election process - run for an office
Sept. 16	Technician Class starts
Sept. 19	Club Picnic - contact Maureen with the number in your party, and what you'll be bringing.
Sept. 26	Road Clean-up semi-annual Community Service Event
Oct. 3	Road Clean-up rain date
Oct. 10	2015 Walk to End Alzheimer's
Oct, 15	Board meeting at Eat 'N Park, Boardman, 6:00 P.M.
Oct. 17	Step Out to STOP Diabetes
Oct. 20	Meeting at Davidson's 7:00 P.M. Nominations still open - run for an office
Oct. 21	Testing at ITT
Oct. 16 & 17	Haunted Hay Ride
Oct. 23 & 24	Haunted Hay Ride
Oct. 30 & 31	Haunted Hay Ride - Halloween night
Nov. 4	General Class starts
Nov. 10	Board meeting at Eat 'N Park, Boardman, 6:00 P.M
Nov. 17	Meeting at Davidson's 7:00 P.M. Elections
Dec. 16	Testing at ITT



**If you Can't change the wind,
adjust your sails**

ORIGIN OF JURY-RIG

Jury-rig is based on one word "jury" which is a nautical sense meaning 'makeshift; temporary' and one word "rig" referring to a ship's sails and masts. The first known example of this "jury" is the compound jury-mast, 'a temporary mast put up to replace one that has been broken or lost', attested since the early seventeenth century. A jury-rig, then, is 'a temporary or makeshift rigging', and the verb is used figuratively in the sense 'to assemble or arrange hastily in a makeshift manner'. The origin of this word "jury" is not certain, but some scholars identify it with iuwere, a late Middle English word meaning 'help; aid', borrowed from the Old French ajurie

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

Avnet, Allan AB8AA

Antennas, radio setup, mobile,
grounding, classes, anything
anything

ab8aa@arrl.net

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

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



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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 one week before the end of the 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.

145.270, PL -110.9

Upcoming Net Control Operators

Sept. 4	Frank, KD8YZC
Sept. 11	Mike, KC8WUX
Sept. 18	Dennis, KA8DJM
Sept. 25	Joe, W0JO
Oct. 2	Stan, WB3WPD

**All Dates for the rest of the
year are OPEN.**



**Contact Steve, KC8SOY to take a turn at Net Control
330-774-6346**

WRARC Simplex Frequency 146.565

Mahoning County ARES® Nets

1st Monday 8.30 PM ET W8QLY Repeater - 146.745 (PL 110.9)

&

3rd Monday 8.30 PM ET W8QLY Repeater - 146.745 (PL 110.9)

We thank 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

**NBEMS/FLDIGI is being used training on message handling
capabilities of FLDIGI/FLMSG. Start with BPSK-125 other modes may be used for testing**

**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; KC8WY, N8SY, KA8DJM, KD8YYE, KD8YMK, KC8SOY, KD8NXS, KB3KQY, AB8AA, W6UMH, KD8IJF, W0JO, KD8YYE, W5YI, the ARRL and the World-Wide Web.

RUN FOR AN OFFICE

Are you interested in serving as an officer for WRARC? If so, please let your interest be known to the nominating Committee.

Thank you
Nominating Committee
Al Avnet, AB8AA ab8aa@arrl.net

WRARC offices which need to be filled are: President, VP, Secretary, Treasurer, and one Trustee. Do you have ideas on how the club can be run more effectively? Run for President. Do you have ideas for some interesting speakers? Run for VP. If you like to keep meeting notes, run for secretary. If you are interested in finances, run for Treasurer. If you like a challenge, run for Trustee because you never know what job will come your way.

Our current officers have done a great job, but if you have some better ideas, run for an office. Contact the nominating Committee above 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 officers take office in January.

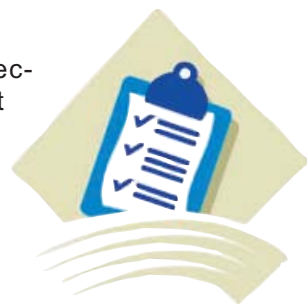


Taken from the **Constitution** posted on the WRARC website <<http://www.wrarc.net/>>
Duties and Responsibilities of the **President**: The President shall preside at all meetings, and conduct them according to the rules adopted. He/she shall enforce due observance of this Constitution and By-Laws; decide all questions of order; sign all official documents adopted by the organization, and perform all other duties pertaining to the office of President. The President shall preside over the board, which will consist of the elected officers, the three (3) trustees and the immediate Past President, which shall meet to discuss and conduct any relevant business of the organization, and to report its actions to the membership at the next regular meeting. .

Taken from the **SOP** posted on the WRARC website <<http://www.wrarc.net/>> - Duties and Responsibilities of these positions:

PRESIDENT

The President shall appoint, dissolve or change any/all committees as he/she deems necessary. He/she shall set the date and time for the Board meetings. The past President will be a voting board member until he is superseded by the current President. The past President will maintain the WRARC Standard Operating Procedures (SOP) manual.

**VICE PRESIDENT**

The Vice President is the chairman of the program committee. He/She will have a speaker or program at each monthly meeting. Excluding the picnic and winter party. They do not have to be Ham related, but it should be something of interest to Amateur Radio.

SECRETARY

The Secretary shall work with the Newsletter editor, the Web Page manager, and Membership committee to make sure all pertinent information is given to each person. The Secretary will be the Data Base Manager and keep all the members' names and addresses in a workable order. He/she will be responsible to add and delete members as required to this list.

TREASURER

The Treasurer shall take care of all banking and tax issues. He/she should file the IRS 990 form each year in March. He/she should keep books that can be reviewed by any member when asked. The Treasurer shall present the books to the board at each December meeting for its review by the Trustees.

TRUSTEES

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.



WORTH PRINTING AGAIN

Your Club is like making Bread the old fashioned way. All the parts are needed and if one is left out-No bread! A lot of us are quiet--like flour or milk. it takes lot of the quiet ones to make a good club or a loaf of bread, but that's not all. Some of us are saltier than others. A little salt is required. A lot of salt can ruin the whole thing. Then there are those of us who are really sweet - our YLs?? This too is an essential ingredient. You mix them together what happens? Nothing! You have a lump that just sits there.

What is missing?? The yeast, when you mix the yeast into the lump, the lump wants to sit there lumpishly but the yeast has that enthusiasm. "Rise, Get up, get up" the yeast cries out kicking and hollering. Very reluctantly, the lump starts to rise. Then it gets punched down, but the yeast won't quit. Spurred on by the sugar, the yeast multiplies, and soon the loaf rises. Into the oven it goes and shortly thereafter and the people are fed. It doesn't matter which part you play as long as you play a part. Just lookout, the yeast will get you! Come on up, UP!!!! Let's all pitch in 2015 and we will make the best bread/club in the county.

73, Cam KI6WK

Originally printed in WCARC newsletter in 2011

FROM THE HISTORY CORNER

What a great club we have! Each Month I am going to submit pictures from throughout the years of the club.

Do you remember what year these pictures were taken? These are from 2010. Can you tell what the events were? Let me know, send me your answers.

If anyone has any newspaper clippings, handouts of interest, or pictures of the club from any event, Please let me know so we can add them to the Club history.

If you need a flash drive to transfer the articles, pictures etc., Please let me know, I will get one to you. You can contact me at kd8yye@wrarc.net, or call or text me at 575-914-0466

73, Terri Mitzel, KD8YYE, Club Historian



ORIGIN OF HI HI

"hi hi" is the Morse equivalent of a laugh as in Morse it sounds like someone chuckling ("hehhehhehheh hehheh"). That is ditditditdit dit dit --- or dot dot dot dot dot dot. You really have to listen to it sent in Morse to appreciate its laugh like sound. It is most commonly used in CW (Morse Code), but has carried over to voice as well. Many CW expressions have carried over to voice -- such as 73 (Best Regards) and 88 (love and Kisses), etc. The origin probably dates back before radio to the telegraph days. And since Hams used Morse long before voice became practical-- the sound of the Morse characters HI HI was used to resemble a laugh sound. In some sense it is equivalent of a smiley. It's onomatopoeic -- that is the naming of a thing or action by a vocal imitation of the sound associated with it (as buzz, hiss) The definitive answer might be found in the "Dodge's The Telegraph Instructor Manual" circa 1850 to 1900. However, I have never been able to find a copy of this document. Wish I could as it would help to see the transitions from telegraph to radio usage. So that is my best guess -- based on what old time telegraphers have told me.

Ed Note: Another use of HI HI is sending a greeting to a fellow Ham when vehicles pass -- four short horn beeps followed by two short horn beeps. Since many Hams have Ham License plates -- a fellow Ham is easily spotted as well as the seeing the mobile antennas.

WRARC SPUDGUN BUILD



While we were on vacation WRARC had a workshop, which was held at ITT. Russ Williams, NR8W, taught members how to build a Spudgun. Those who came out: Harry, KD8PQK; Steve, KC8SOY; Maureen, KD8NXS; and Mark, KD8YMK. Mark wrote the following article and took all the pictures, THANKS!

Ham Radio Spud-gun Workshop

On Saturday, August 8th, the Western Reserve Amateur Radio Club met up at ITT technical college for a spud-gun workshop. When my mom had told me about it days prior, she said it would be a "class" and thoughts of boring lectures and difficulty staying awake were what came rushing to my mind. Imagine my surprise when I saw that we would be outside and BUILDING our own spud-gun!

The "class" was taught by none other than our own Russ, NR8W. He made it both educational and enjoyable. After giving us some basic safety instructions, he handed us the parts of our spud-gun and we got straight to work. The total cost of the parts came up to around \$40. We finished in about two and a half hours. After the class had finished, Russ then demonstrated the range of the guns we had built by firing off a few rounds with one of his own. One of them made it all the way across the school's parking lot, or about $\frac{3}{4}$ of a football field.

We all laughed and joked, and enjoyed being there with each other (especially when we stirred up looks from the students inside the building after Russ's demonstration, who were probably wondering "What on earth are they doing out there?") We left the class feeling satisfied and with a handy new toy.

A spud-gun can help you to launch dipole wires into tree branches and other high places to provide a good primary or backup antenna for your HF equipment. It especially makes it easy to set up a mobile antenna, for when you're away from home and want to get on the air. If you have any questions or would like to build a spud-gun of your own, contact Russ at any of our events and meetings or by email <nr8w@wrarc.net>.

73, Mark, KD8YMK



THE US DEPARTMENT OF HOMELAND SECURITY (DHS) ANNOUNCED IN JULY THAT MORE THAN 1200 NATIONAL, REGIONAL, STATE AND LOCAL BUSINESSES AND ORGANIZATIONS -- INCLUDING SEVERAL AMATEUR RADIO GROUPS -- HAVE PLEDGED THEIR SUPPORT AND JOINED THE 2008 NATIONAL PREPAREDNESS MONTH COALITION. SPONSORED BY THE DEPARTMENT'S READY CAMPAIGN, NATIONAL PREPAREDNESS MONTH HELPS TO RAISE AWARENESS AND PROMOTE ACTION BY AMERICANS, BUSINESSES AND COMMUNITIES ON EMERGENCY PREPAREDNESS.

[HTTP://WWW.ARRRL.ORG/NEWS/FIFTH-ANNUAL-NATIONAL-PREPAREDNESS-MONTH-COMING-IN-SEPTEMBER](http://www.arrrl.org/news/fifth-annual-national-preparedness-month-coming-in-september)

CLUB PICNIC SATURDAY, SEPT. 19



Here it is - almost time for the club picnic on Sat., Sept. 19 from 1:00 P.M. to 5:00 P. M. at Western Reserve United Methodist Church on Canfield Rd. Please be sure to contact me at 330-757-4963 with what dish you will bring and how many are in your party. It really makes it much easier to prepare for the event if we know these things ahead. We are planning to have fresh corn depending on availability by the middle of the month. As always, the club will provide hamburgers and hot dogs. Come ready to socialize and have a good time.

Thus far we are planning for radio set ups for 2 meters and HF to give anyone who would like to try it out a chance to do so with the mentoring help of those who have had more experience. It is fun to do this and since it is away from any contesting time, it is much less stressful way to gain some practice. You never know who you might contact and what kind of interesting or fun conversation you might have! It's also a good idea to bring your log book or even a spiral notebook that can serve as a log for you to get started with. Remember, we are supposed to be logging our radio contacts and time on the air anyway. We're still open for any other ideas for activities as well. Just let us know if you think of anything else you would like to do.

We'll hope for good weather, but the picnic area is under a nice portico if the rain should come anyway. All club members and families are encouraged to come. This is a fun time and we hope to see as many of you all there as possible. Also, remember we still have our regular meeting night at Davidson's on Sept. 15 and family fun day at Boardman Park on Sat., Sept. 12, as well. Hope to see you at all the events we have coming up.



73, Maureen, KD8NXS

TO ALL MEMBERS

Do you need a Club Badge? Are you a new member, OR do you just need a new one.

Please email me your full name and call sign ASAP!

KC8SPF@WRARC.NET - REF: Club Badge

Johnny Jukebox John E. Fabry 330-482-9537

AUGUST TEST SESSION



August 19 we had two testing one for Tech and one for Extra. Bob Mitzel, KD8YYH, is now an Extra. Congratulations Bob!

Those VEs who came to help with W5YI testing, Al Avnet, AB8AA, contact VE; Darrin Cannon, N8DMC; Dave Beatty, KC8WY; Pete Finamore, N8XOE; Roy Haren, KD8IJF, and Jane Avnet, K8JAA. Thanks for your help.



2015 WALK TO END ALZHEIMER'S - MAHONING VALLEY, OH

Date: October 10, 2015**Location:** WATT Center at Youngstown State University
651 Elm Street**Youngstown , OH****Schedule:** Registration at 8:30am | Opening Ceremony at 9:30am**Route Length:** 2 miles**Contact Joe, W0JO to volunteer****ABOUT WALK**

The Alzheimer's Association Walk to End Alzheimer's® is the world's largest event to raise awareness and funds for Alzheimer's care, support and research. Held annually in more than 600 communities nationwide, this inspiring event calls on participants of all ages and abilities to reclaim the future for millions. Together, we can end Alzheimer's disease, the nation's sixth-leading cause of death.

Walk to End Alzheimer's unites the entire community — more than 450,000 participants that include family, friends, co-workers, social and religious groups and more --- in a display of combined strength and dedication in the fight against this devastating disease. While there is no fee to register, each participant is expected to fundraise in order to contribute to the cause and raise awareness. The Alzheimer's Association provides free, easy-to-use tools and staff support to help each participant reach their fundraising goal.

When you participate in Walk, your fundraising dollars fuel our mission-related initiatives of care, support and research. In addition, your actions, both through fundraising and participating in the event, help to change the level of Alzheimer's awareness in your community. Take the first step to a world without Alzheimer's by finding a Walk near you. Once you register, you will have access to a wide range of tools and support through your Participant Center, ensuring a successful and fulfilling experience.

Our mission

To eliminate Alzheimer's disease through the advancement of research; to provide and enhance care and support for all affected; and to reduce the risk of dementia through the promotion of brain health.

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



Step Out: Walk to Stop Diabetes is the ADA's signature fundraising walk. This event has been taking place for more than 20 years and has raised more than \$200 million to Stop Diabetes! Walk day, 10/17/2015, is a huge celebration of the fundraising efforts YOU put into this event and an amazing experience. Step Out is filled with music, food, kids activities, local entertainment and most importantly, the company of those who truly understand the impact of diabetes. Our 2015 Goal: \$70,000.00 | Raised: \$957 as of 7/16

Event Highlights:**Location:** Canfield Fairgrounds**Date:** 10/17/2015**WRARC Check-in:** 7:00 A.M.**Walkers Check-In/Registraton:** 9:00 A.M.**Celebration Ceremony:** 10:00 A.M.**Start of Walk:** 10:15 A.M.**Distance:** 2 mile or 3 mile route**Contact Joe W0JO to volunteer.**

NOTES FROM OUR SECTION MANAGER



Hey Gang,
Just have a couple of very important items to give to you. Firrst. If you have pictures from the Columbus Hamfest / Great Lakes Division Convention, please forward them over to me so that I can get them up on the website. Now, speaking of the website, I have already started a photo gallery of the pictures that I took and a few that were sent to me already. Go take a look. http://arrrl-greatlakes.org/convention_files/2015_pix/



Just wanted to pop into your emails quickly to let you all know how the Columbus Hamfest / Great Lakes Convention went. First off let me thank each and everyone one of you that attended for help make this a fantastic success!

I want to also thank Dale Williams, WA8EFK and Tom Delaney, W8WTD our Great Lakes Director/Vice Director, for all of their support and leadership in making this event happen.

Last, but certainly not least, let me thank all of those folks that help put on the Hamfest / Convention. It was great and ALL of you did a fantastic job pulling it all together. A special "thanks" goes to those folks that were asked, and came through to do the Wouff Hong. By the way, I was told at the end of the ceremony that our Wouff Hong presentation would be the very last event done on that stage. It will soon be torn down to become part of the Easton Mall complex.

And, one final note about the Wouff Hong, there were 40 people indoctrinated into the Royal Order of the Wouff Hong yesterday. That's absolutely fantastic as well. Congratulations to all who attended

The 2015 Newsletter awards.

Take it away John Ross, KD8IDJ, the Ohio Section Public Information Coordinator and Manager of the Ohio Section Newsletter Contest.

"WOW! What a time the judges had with this. I just came from one of the liveliest discussions/debates that journalists have had since Watergate!!!"

All of the talk was about the Ohio Section 2015 Newsletters. It was incredible, insightful, and unpredictable.

At the end of the night, almost simultaneously, the judges used the word . . . EVOLVE! They were surprised that, in just a year, our newsletters were changing, evolving and adapting to both their audiences and to technology. They all thought that after last year the judging would be easier . . . but our folks made it harder . . . in a good way by raising the bar and showing why Amateur Radio is what it is . . . the greatest hobby in the world!

The newsletters reflect what hams do every day . . . evolve with the technology, experiment with new ideas and concepts, and push the limits of communications to new heights. It's a great explanation point for our member's efforts and a reflection of their passion and dedication.

So, here are the 2015 ARRL Ohio Section Newsletter Contest winners:

*1st Place . . . DELARA NEWS. Great graphics, easy to navigate, draws you in and easy to read.
2nd Place . . . The TM&K. Informative, unique, "smooth" graphics and easy to find special sections. One of the judges commented that if he were looking to learn more about amateur radio, the TM&K would be a great start.
3rd Place . . . a three-way tie!!! The MVARA Voice Coil, the Mount Vernon Radio Club and the PCARS Radiogram. All slick publications, well organized, great layouts and easy to read articles and information.
Honorable Mention . . . The CARA Communicator. Well thought out, well laid out and good use of BOLD headlines to separate stories and articles.*

After looking at all these newsletters, it's easy to see why the Ohio Section has the best and most talented crop of editors, writers and newsletters. There was no doubt in the judge's minds that Ohio newsletters **Continued page 11**

SECTION MANAGER - CONTINUED FROM PAGE 10

win hands down against any other section! I knew what to expect. I read every newsletter and it was hard to hide my enthusiasm and joy watching the judges actually get excited about this contest!!! That's it for me. It's been a blast and an honor to be a part of this process.

John, KD8IDJ."

Thanks John.. Now as I was the Manager of the Great Lakes Division Newsletter contest, my judges even had a harder time at picking a winner.. You see, they were judging the "Best of the Best" that the Division had. And that's a really tough job for sure. !!

I won't leave you in suspense.. The winner of the 7th Great Lakes Division Newsletter Contest was none other than . . . DELARA News from the Delaware ARA Club in Ohio. Stan Broadway, N8BHL is the editor.

As I said earlier, this was a fantastic day for all who attended, even the outside sales were great. The weather for the day was sunny and bright and warm. You couldn't have asked for a better day for a hamfest and convention. If you missed it, you really missed out on a great day for sure.

73, for now.
Scott, N8SY.

AMATEUR RADIO CLASS SET TO BEGIN SEPTEMBER 16

The Western Reserve Amateur Radio Club (WRARC) is sponsoring a Technician (Tech) Class this fall for anyone interested in obtaining his or her initial Amateur Radio license.

The course will be held at ITT Tech, 1030 N. Meridian Rd., Youngstown, OH, on Wednesday evenings 7 to 9:00 P.M., starting September 16 and will run for five-weeks, with testing October 21. Obtaining the book ahead of time and self-study is vital to you obtaining your FCC Technician License

The class will be taught by Allan Avnet, AB8AA, Registered Licensing Instructor, and EmComm Field Instructor. He and other WRARCs Elmers, will be able to mentor students on all aspects of the hobby, including setting up their own station, equipment purchases, antenna design, and so on.

Amateur Radio has changed greatly with the use of digital modes of communication. Did you know Morse code is now longer required for any license?

The entry level Tech License class, comes with all the on-the-air privileges that will enable the students to communicate with other amateur radio (Ham) operators in the area, over great distances either via the airwaves, or the internet.

Amateur Radio offers the chance to assist the community by participation in emergency communication operations and public service events. The Tech License is of particular benefit to members of the public safety forces.

There is no cost for the class, but the textbook for the class is \$22, payable prior to the class, or available online for \$20.95 plus shipping at w5yi.org. The \$15 fee for the test is payable the night of testing.

We will also have a general Class starting November 4, with Testing December 16 for anyone wishing to upgrade their License.

For more information or to purchase a book, contact Allan Avnet AB8AA at 330-549-3051 or by email ab8aa@arrl.net.

"Fate rarely calls upon us at a moment of our choosing" - Optimus Prime

THE WOUFF HONG AT HAMCON 2015

... THE MEANING OF THE WOUFF-HONG ...

"The Wouff-Hong is amateur radio's most sacred symbol and stands for the enforcement of law and order in amateur operation."

When the clock ticks midnight, the Royal Order of the Wouff-Hong begins. This is available to any licensed amateur who is a member of ARRL.



The traditional ceremony is performed only at ARRL conventions. Wouff-Hong sprang from the imagination of ARRL cofounder Hiram Percy Maxim, W1AW, as a means to combat poor operating practices.

An attractive Royal Order of the Wouff-Hong certificate will be presented to each person who is initiated at the midnight ceremony which will take place Saturday night in the Banquet Room.

•• THE HISTORY OF Wouff-Hong ...

Every amateur should know and tremble at the history and origins of this fearsome instrument for the punishment of amateurs who cultivate bad operating habits and who nourish and culture their meaner instincts on the air.

It was invented--or at any rate, discovered-by "The Old Man" himself, just as amateurs were getting back on the air after World War One. "The Old Man" (who later turned out to be Hiram Percy Maxim, W1AW, cofounder and first president of ARRL) first heard the Wouff-Hong described amid the howls and garble of QRM as he tuned across a band filled with signals which exemplified all the rotten operating practices then available to amateurs, considering the state of the art as they knew it. As amateur technology and ingenuity have advanced, we have discovered many new and improved techniques of rotten operating, but we're ahead of our story.

As the Old Man heard it, the Wouff-Hong was being used on some hapless offender so effectively that he investigated. After further effort, "T.O.M." was able to locate and identify a Wouff-Hong. He wrote a number of QST articles about contemporary rotten operating practices and the use of the Wouff-Hong to discipline the offenders.

Early in 1919, The Old Man wrote in QST "I am sending you a specimen of a real live Wouff-Hong which came to light out here ... Keep it in the editorial sanctum where you can lay hands on it quickly in an emergency." The "specimen of a real live Wouff-Hong" was presented to a meeting of the ARRL Board and QST reported later that "each face noticeably blanched when the awful Wouff-Hong was . . . laid upon the table." The Board voted that the Wouff-Hong be framed and hung in the office of the Secretary of the League and there it remains to this day, a sobering influence on every visitor to League Headquarters who has ever swooshed a carrier across a crowded band.

The Old Man never prescribed the exact manner in which the Wouff-Hong was to be used, but amateurs need only a little imagination to surmise how painful punishments were inflicted on those who stoop to liddish behavior on the air. To learn more about the Wouff-Hong, go to: <http://amfone.net/WouffHong/wouff.htm>.

South Orange Amateur Radio Association P. O. Box 2545
Mission Viejo, CA 92690 www.soara.org Club Call: K6SOA Tom Hobbs, AE6SH
Can be reached at: ae6sh@soara.org



BIRTHDAYS THIS MONTH

KC8SPF	John Fabry	9/18
WA8GLF	John Chapman	9/19
KC8UNR	Mike Ciballa	9/21
KD8YMM	Ivan Wentz	9/20
KD8YYE	Terry Mitzel	9/22



IS KIT BUILDING A LOST ART?

Years ago there were several companies that made kits for people to build. The big one was Heathkit. They made kits for almost every type of hobbies. There were kits for ham radio, electronic repair people and just regular folks.

The Ham Radio kits covered the entire spectrum of the hobby. There were transmitters, receivers, linears, and a lot of station accessories. There were all types of test equipment. There were television sets, clocks, Hi-Fi receivers, preamps, mixers, speakers and amplifiers. After Heathkit went out of business there were no other companies like them to take up the slack.

As electronics got smaller and more complex people quit building things.

Now there appears to be a growing interest in kit building again. There are several companies that are showing kits for us to look at. CQ has a column on kit building. At Dayton for the last few years there has been a kit building table at the ARRL booth.

Here are some of the kit companies, hayseedhamfest.com, element14.com, elecraft.com, orpme.com, qsradio.com, tentec.com, qrpkits.com, box73.com, radioinc.com, 4sqr.com, vakits.com, bit.ly/1dKJG18, pl-259.com, crkits.com, and hamgadgets.com.

If anyone would like to look further into kit building let me know.

73, AB8AA



SWAP 'N SHOP



Kenwood TS711 2 Mtr all mode,	\$400
Kenwood TS811 440 All mode,	\$400
Icom IC-271H 2Mtr All mode	\$300
Heathkit HM-102 SWR/Power meter,	\$20
Yaesu FT-411 2 Mtr HH,	\$5
Yaesu FT-208R 2 Mtr HH SOLD	\$5
Motorola MH-10	FREE
Kantronics PacketCommunicator 3,	\$20
DigiMax, D-500 Freq Counter,	\$10
Electro Voice Model 638 Mic	\$20
Icom IC-718 HF	\$500
Icom IC-V8 2 Mtr HH SOLD	\$50
Heathkit SA 2060 Tuner	\$300
MFJ MFJ-4225MV Switching Power supply	\$85
MFJ MFJ-464 CW Keyer/ Reader	\$75
LDG IT-100 Tuner for Icom	\$100
Palstar PM2000A wattmeter 300/2K watts	\$100
NYE-VIKING MBI-001 Tuner	\$50
Kenwood SP430 Speaker	\$60
Tenma Soldering Iron 21-147-A	\$40

If interested make offer. Also I have several towers for sale, contact me for information,

Allan Avnet, AB8AA
E-Mail ab8aa@arrl.net
"www.ab8aa.com "
Voice 330-549-3051
Cell 330-207-3296
IN GOD WE TRUST

HAUNTED HAYRIDE



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

The Haunted Hay Ride is a fund raiser for the 4H kids in Mahoning County. It runs for three week ends in October. We meet at the log cabin at 6:00 p.m. - at that time we see were everyone will find out were in the woods they will be. Now if we have a lot of volunteers, then you can be with someone if you'd like - and if you want - YOU can scare the riders with the kids.

The Haunted Hay Ride will take place on the weekends of October 16-17(also a pumpkin Carving contest for the kids Oct. 16, 17,& 18), 23-24, & 30-31. We meet at the log cabin around 6:00 P.M. We come back in around 10:00 to 10:30 P.M., on some nights, it can go to 11:00. Boo in the woods is on the 18th. This is to give the kids candy 1-3:00 P.M. I hope that more people will volunteer and join the fun. Yes we do have fun even if it's cold.

73 to all,

Bill Egan KD8HCQ

330 565-4342

WHAT WOULD HAPPEN IF A MASSIVE SOLAR STORM HIT THE EARTH?



NASA Goddard Spaceflight Center /Flickr

We all know that major storms can wreak havoc, flooding cities and decimating infrastructure. But there's an even bigger worry than wind and rain: space weather. If a massive solar storm hit us, our technology would be wiped out. The entire planet could go dark. "We're much more reliant on technology these days that is vulnerable to space weather than we were in the past," said Thomas Berger, director of the Space Weather Prediction Center at the National Oceanic and Atmospheric Administration. He told Gizmodo, "If we were hit by an extreme event today, it'd be very difficult to respond."

"Solar storm" is a generic term used to describe a bunch of stuff the Sun hurls our way, including x-rays, charged particles, and magnetized plasma. A massive solar storm hasn't hit the Earth since the mid-19th century, but space weather scientists are very worried about the possibility of another.

Solar Flares

A solar storm usually starts with a solar flare — a giant explosion on the surface of the sun that sends energy and particles streaming off into space. Small, C-class flares occur all the time and are too weak to affect the Earth, while mid-sized M-class flares can produce minor radio disruptions. X-class flares, meanwhile, are the largest explosions in the solar system, releasing up to a billion hydrogen bombs worth of energy. These eruptions occur very rarely, but when they do, they're an epic sight.

One of the most powerful flares measured with modern instruments took place during a solar maximum in 2003. It was so large it maxed out our satellite sensors, which registered an X-28 (28 types larger than an X-1 flare, which itself is 10 times greater than an M1 flare). Here's what that event looked like:

Despite observing flares for over a century, scientists still aren't totally sure what causes the Sun to erupt. We do know that flares have a lot to do with disruptions in the Sun's powerful magnetic field, which oscillates over the course of an 11-ish year solar cycle.

Go to <http://gizmodo.com/what-would-happen-if-a-massive-solar-storm-hit-the-eart-1724650105> to read the entire article, it's very interesting



COMMUNITY SERVICE EVENT

September 24 will be the Adopt a Highway Cleanup. Meet at Perkins, in Canfield, at 9:00 A.M. for breakfast, cleanup will start around 10. 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 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 breifings will be available to each of you on Saturday September 24, 2015. See you at Canfield Perkins that morning. This will be a good event for our enviornment and will be fun for all. We should be finished around 11:00 AM. Rain Date October 3, to Volunteer, contact Roy, KD8IJF.



Here's a construction technique that would be handy to know. Read the calculations below then click on the link at the bottom of the article to see this technique in action. It's something to cheer up any engineer. It will put you in the picture and keep you up-to-date with the latest construction developments.

Below is a link to a short video of a Pakistani pile driving construction technique. Notice that the pile driving becomes effective when the extra man jumps on. Very finely tuned! The chant is also catchy.

Now, let's analyze the Engineering here:

6 men x 180 lbs. = 1080 lbs. static force Jumping up and down will create a 3 times dynamic effect = 3240 lbs./jump = 1.6-ton thumps if the pile is tapered to 2 in. x 2 in., cross section at the tip = 4 sq. in. So, dynamic press "Add a man" feature will increase to 950 psi, so buy the option!

Increase the chant and dynamic force goes up to 5 times to bring maximum pressure/thump to 1600 psi for a 7-man team. Quite good, and it will penetrate hard clay and sandy soil but not hard rock! We figure the foreman is the guy on the tambourine... you'll probably watch this twice because you won't believe the technology and techinque the first time... and you'll still be looking for the tambourine.

<https://www.youtube-nocookie.com/embed/cFbOnLCKypg?rel=0>

ISS

August 13, 2015

Anyone (With a Ham Radio License) Can Call the International Space Station

A British man radioed the International Space Station and was "stunned" when one of the astronauts responded.

"They came back to me and said, 'Receiving you — welcome aboard the International Space Station'," Adrian Lane of Coleford, England, told the BBC last week. He chatted for about 45 seconds before the connection was lost.

It turns out this happens all the time.

"It's not very unusual," said Kyle Herring, a spokesman at NASA's Johnson Space Center in Houston.

It is not that people are breaking into the radio communications between the space station and mission control. "It wouldn't be on the space-to-ground system we use," Mr. Herring said.

Rather, there is a ham radio on the space station like the ones used by amateur radio enthusiasts around the world. It is how space station astronauts conduct Q&A sessions with students, for instance.

The space station's ham radio frequencies are publicly available and you too can try to call the space station when it passes 250 miles above. (That is, if you have the proper equipment and required radio license.)

That does not mean anyone will answer, but sometimes one of the astronauts will be there and will converse. Of the two NASA astronauts currently on the space station, Kjell N. Lindgren, who joined the crew last month, does have a ham radio license while Scott J. Kelly, in the middle of a one-year stay, does not.

—KENNETH CHANG

Time Inc. Network : Science A Year In Space

Here's How to Chat With the International Space Station

Dan Kedmey

Aug. 13, 2015

You'll need a Ham radio

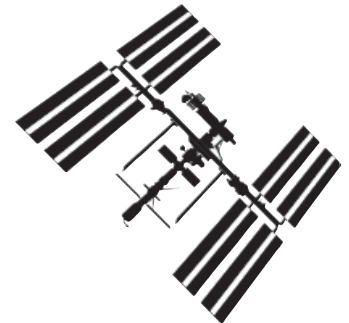
NASA confirmed <http://www.nytimes.com/interactive/projects/cp/summer-of-science-2015/latest/calling-the-international-space-station> on Wednesday that anyone with a ham radio could potentially make contact with the International Space Station (ISS), as one astonished user discovered earlier this month.

Adrian Lane, a ham radio enthusiast in Coleford, England, was stunned to receive a reply from an astronaut aboard the ISS, after spending nearly a month in his backyard shed attempting to make contact. "They came back to me and said, 'Receiving you – welcome aboard the International Space Station,'" Lane told <https://www.google.com/maps/place/Coleford,+Gloucestershire+GL16,+UK/@51.966052,-1.7846188,8z/data=!4m2!3m1!1s0x4871b082a918c3af:0x843e001054bf2592> the BBC.

And technically speaking, anyone with similar radio expertise can do the same thing. A NASA spokesperson told the New York Times that the space station is equipped with a ham radio, which is set to a public frequency. Astronauts can use the radio to strike up an idle chat at will, usually during their break hours.

[BBC]

Yesterday is history, Tomorrow is a mystery. And Today?
Today is a gift. That's why we call it the present."





Nice story about 9/11

<https://www.readfulapp.com/site/CNR?item=55cba7c80704bbba6b23386c>



This helped to make my day. I feel much more intelligent after reading this.

Brains of older people are slow because they know so much. People do not decline mentally with age, it just takes them longer to recall facts because they have more information in their brains, scientists believe.

Much like a computer struggles as the hard drive gets full, so too, do humans take longer to access information when their brains are full.

Researchers say this slowing down process is not the same as cognitive decline. The human brain works slower in old age, said Dr. Michael Ramscar, but only because we have stored more information over time. The brains of older people do not get weak. On the contrary, they simply know more .

Also, older people often go to another room to get something and when they get there, they stand there wondering what they came for. It is NOT a memory problem, it is nature's way of making older people do more exercise. SO THERE.



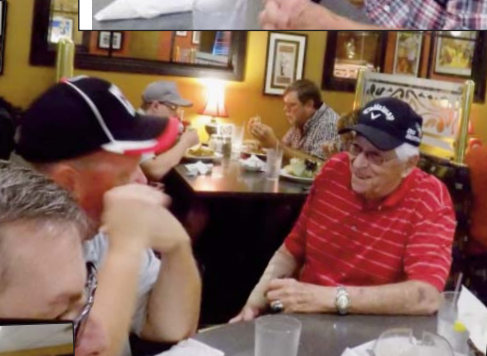
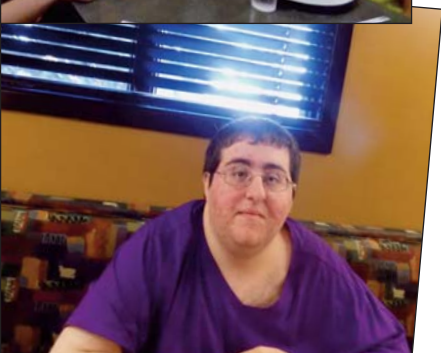
Returning home from work, a blonde was shocked to find her house ransacked and burglarized. She telephoned the police at once and reported the crime. The police dispatcher broadcast the call on the radio and a K-9 unit, patrolling nearby, was the first to respond. As the K-9 officer approached the house with his dog on a leash, the blonde ran out on the porch, shuddered at the sight of the cop and his dog, then sat down on the steps. Putting her face in her hands, she moaned, 'I come home to find all my possessions stolen. I call the police for help and what do they do? They send me a BLIND policeman!'



Dolphin Asks a Human for Help

On a night-time dive near Hawaii, 2 divers were found by a bottlenose dolphin and it started to swim around them over and over again. When looking closer, one of them discovered the reason for this strange behavior - the dolphin had a fishing line hooked around it, hindering its ability to swim. They cut him free, and the dolphin swam away. The fact that a dolphin would come to humans for help maybe evidence of its' intelligence, as most injured animals would never come close to a human. This is amazing to watch and a life-time experience. <http://www.youtube.com/embed/2gvgkHSyKFE>

Zero is the only number that cannot be represented by Roman numerals.



September 2015

PREPAREDNESS LEADS TO READINESS - MATT W8DEC



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>SEPTEMBER IS NATIONAL PREPAREDNESS MONTH!</p>		1	2 Canfield Fair --- Skywarn Net 8:30 P.M. 146.745	3	4 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	5
6	7 Labor Day ARES Net 8:30 PM 146.745 PL 110.9	8 Ham Breakfast Eat'n Park Boardman 8:30 A.M. Board Meeting Eat'n Park Boardman 7:00 P.M.	9	10	11 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	12
13	14	15 WRARC Meeting 7:00 P.M	16 Technician Class	17	18 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	19 Club Picnic Amateur Radio Awareness Day
20	21 ARES Net 8:30 PM 146.745 PL 110.9	22 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfas	23 	24 <p>Ocober WaveBender Articles Due</p>	25 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	26 Community Service Event
27	28	29	30		WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	