



# The Wave Bender

September 2013

## PRESIDENT'S QST FOR SEPTEMBER



Next month will be our last event of this year, the Diabetes Walk on October 20 at the Fairgrounds. We will need eight to ten people for the event. If we do not get them from the club, we will have to ask other clubs to help out. This is a short event, it starts around 9:00 A.M. and finishes around noon.

We will be taking nominations for officers at this meeting and the October meeting. The positions of President, Vice President, Secretary and one Trustee are open. None of these positions is very hard. If you are interested in any position, contact the nominating committee chairman, Ted Filmer KD8IJE. If you do not know what the job entails, go to the web page and check out the Members site and look at the SOP document. All positions and what they require are spelled out in that document.

All I can say at this point is that it has been a lot of work and a lot of FUN getting the club to where it is today. Jane and I are looking forward to just being a member and watching the new administration move the club forward.

73, AB8AA

## AMATEUR RADIO IS A HOBBY, EMERGENCY COMMUNICATIONS IS A COMMITMENT!



**Officer's Meeting:** September 16, 7:00 P.M. At the Avnet's (330-549-3051)  
**Regular Meeting:** September 18, 7:00 P.M. Davidson's, 3636 Canfield Rd. in Cornersburgh  
**Speaker:** Mark Haverstock K8MSH  
**Topic:** Chirp (see page 3)

### 2013 Officers:

President:	Al Avnet, AB8AA	ab8aa@arrl.net
VP:	Robert Webster, WR8RW	wr8rw@arrl.net
Secretary:	Jane Avnet, K8JAA	k8jaa@arrl.net
Treasurer:	Maureen Stein, KD8NXS	mfstein@zoominternet.net
Trustees:	Ted Filmer, KD8IJE	efilmer@aol.com
	Roy Haren, KD8IJF	harens@juno.com
	Steve Fabry, KC8SOY	kc8soy@yahoo.com

### Appointed Positions:

Social:	Maureen Stein, KD8NXS	mfstein@zoominternet.net
Publicity:	Joe Wojtowicz, KD8RCC	jtwojo@sbcglobal.net
Newsletter/Web:	Jane Avnet K8JAA	k8jaa@arrl.net
Badges::	John Fabry, KC8SPF	JohnnyJukebox@sbcglobal.net

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

THE WEATHER OUTSIDE IS . . .



It is August (all right almost September). The weather is really quite pleasant these days. Warm temperatures last well into the evening. We drive down with the windows open in our vehicles, the roads are clear...in reality life is good. As we know this won't last. For some reason it seems like the advent of Labor Day and events like the Canfield Fair signal nature that it is time to take all this away. Welcome to the lower Great Lakes.

We hold events like Field Day, practice our skills in the balmy days of July, and monitor the progress of bicyclists speeding down our rural roads. They are very enjoyable events...and comfortable. But what of the opposite seasons that are approaching us. We don't generally discuss what could happen in the autumn and winter seasons. Given the extremes we have seen in the weather and seasonal conditions in the last few years, we could be looking at winter floods, heavier snowfalls that have the magnitude of a significant summer storm, or freezing rain events that cripple the power grid.

These need to be topics of discussion for we as Amateurs. Whether we do or do not volunteer in ARES, or other emergency communications team, our capabilities for our families and communities will be essential in such situations.

What does your winter "kit" contain? Will your alternate power solutions hold up in colder temperatures? How does your equipment operate in colder weather? Will your antennas, especially emergency portable antennas, hold up to these less than optimal conditions? Do you know what the differences in the performance of your vehicle's electrical system will be when the temperature is hovering at 20 degrees Fahrenheit, especially when you are powering a radio at a remote location?

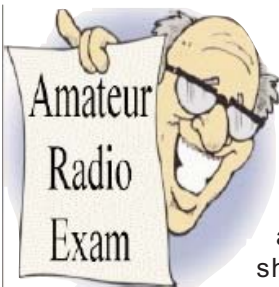
If we are to provide credible services to our families and communities we need to be ready for situations such as these. Amateur Radio, and our charter in CFR part 97, is not seasonal, neither should our readiness be. Is this an over reaction? I believe it is not. The time we spend in making our preparations will pay large dividends should we be needed. Although summer heat can be difficult, winter's cold can be brutal. In fact, for a winter disaster or emergency we may be needed more and with a quicker response time than similar situations in the comfortable seasons. Preparing for the "off season" will also increase our overall practical knowledge of the fundamentals of Amateur Radio.

As the temperatures drop, the leaves' colors change, and our time inside increases, take time to consider what you will need, and how you will operate if the phone call or the knock at the door comes. I am not wishing us a cruel winter . . . I lived in those climates too long. At the same time, we need to be real about where we live, the new extremes in weather, and what we will need to carry out our chartered missions.

Wishing you many warm and comfortable days before the first s\*\*\* comes.

73. Robert (WR8RW)

AUGUST TEST SESSION

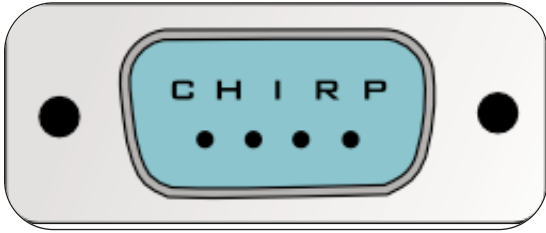


In August WRARC had testing - Because of vacations we didn't expect there would be many people that wanted to test. And we were a little worried who we'd have to help us grade the exams. We did have three Hams taking tests, one for General and two for Technician. All passed their respective tests, one with 100%.

Jason Hurford N8IRZ passed his General. New Technicians are Justin Shaw KD8VMR and Julie Sole KD8VMS - Shhh! Don't tell WB8YHD it's a surprise. Her Dad didn't know she was taking her test. Congratulations to you all!

Hams that came out to administer the tests were Al AB8AA contact VE for ARRL; Jim KB8QDZ; Kevin KD8NXR; Wes W8IZC; Jane K8JAA; Cliff AC8KW; and Dave KD8NZF. Thanks for your help.

SEPTEMBER MEETING - PROGRAM



At the September 17 meeting, Mark, K8MSH, will present an introduction to CHIRP, a free, open-source tool for programming your amateur radio. It supports a large number of manufacturers and models, and provides a way to interface with multiple data sources and formats.

If you have a Baofeng UV-3R or UV-5R series HT, bring it along. During the presentation, Mark will do a demo programming on one of these. We'll program additional UV-3R or UV-5R talkies after the

presentation as time permits.

<http://chirp.danplanet.com/projects/chirp/wiki/Home>

FROM THE KACHINA REFLECTOR

This is from an email I have just received. Is it just my poor little 14AVQ vertical or is it actually that almost all 9 HF bands are almost totally vacant day and night for these past several months/years?

Unless it is for a hot DX station or some contesting weekend or other special event taking place, I find virtually vacant bands and for sure the CW bands.

This may well be the beginning of the end of amateur radio spectrum in the U.S.A. And you may rest assured, once it is gone we shall never get it back!

Open the link, below, and very carefully and very slowly read the full contents of the information there.

Also please copy and forward this information to any and all amateur radio groups you know of. Club newsletters and websites and convention and hamfest websites as well. We must spread the word and hopefully preserve our "underused" spectrum resources.



73 de Aubrey.W6ODG

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**"Quoting the Federal Register:**

"In his June 2013 Executive Memorandum on Expanding America's Leadership in Wireless Innovation, President Obama directed the National Telecommunications and Information Administration (NTIA) to design and conduct a pilot program to monitor spectrum usage in real time in selected communities throughout the country."

More Here: <https://www.federalregister.gov/articles/2013/08/19/2013-20148/spectrum-monitoring-pilot-program>

Might be a good time for all of us to get on the air more, especially on our underused bands and modes. And IMO everything 2M and above is underused."

AI AB8AA

**USE 'EM OR LOSE 'EM FOLKS!**

**Ball Point Pens - Interesting point**

When NASA started sending astronauts into space, they quickly discovered that ball-point pens would not work in zero gravity. To combat this problem, Scientists spent a decade and \$12 billion developing a pen that writes in zero gravity, upside-down, on almost any surface including glass and at temperatures ranging from below freezing to over 300 C.

The Russians use a pencil. When your taxes are due again--enjoy paying them.

ARE YOU *SOMEONE*?

A lot of folks are nodding with their eyes wide open at the idea of the direction that ham radio is going. Unless we do something to increase and promote our value, our hobby/service will cease to exist. Do those nods mean that they are agreeing that *SOMEONE* needs to do *SOMETHING* to help promote our value to the world? Or, are they simply waiting for *SOMEONE* else to do it?

What is the value of Amateur Radio? It seems to me that; other than the semimonthly VE sessions, and monthly meetings, we don't have much of value to brag about. It seems to me that, in the last ten or so years, Hams won't participate in Public Service events unless it's their club that's doing them; or openly offer to mentor a new Ham with some good operating practices sessions; or extend a friendly hand to members of other Clubs in our area. I'm reminded that we do participate in Field Day and TOV, but it seems to me, that the same few Hams participate in those events. *SOMEONE* was missing.

I hear stories that we could be very active in our community; emergency communications and public service events, run for a club office, camping trips, exhibits at the local fair, ham classes, social breakfasts, and fun and informative meetings. So what's going on? It seems to me that *SOMEONE* needs to look up while they're brushing their teeth, and decide that *SOMEONE* needs to do *SOMETHING* to get Hams back on that path of value.  
73, T Rube

Idea stolen, in part, from the "INTERMOD," newsletter published by WCARC in Southern CA,

SEPTEMBER - NATIONAL PREPAREDNESS MONTH



September is National Preparedness Month. It's a reminder that emergencies and disasters do not respect county or state boundaries. They do not respect our schedules or our daily lives.

**Think about this scenario . . .**

An earthquake of significant magnitude hits Painesville and surrounding cities and towns. Homes and businesses will be destroyed. More than likely, there will be power outages. Therefore no power for refrigerators, freezers, and air conditioners, and oxygen machines. Not to mention no power for fuel pumps. It's kind of hard to run gasoline generators without gasoline. Water main breaks will also be likely. Therefore, water will be contaminated to nonexistent.

Therefore, it's up to each and every one of us to be prepared. One of the best things you can do to prepare is have a disaster kit. Running around the house to gather supplies during an emergency is the wrong time. Driving to Home Depot or Lowes to buy supplies might be difficult with damaged roads or debris in the roadway. And even if you could get there, it might be destroyed. Even if it's not, you won't be able to buy anything because they won't have power. The same with Giant Eagle to Save-A-Lot to buy food and water.(sic) This is why having a prepared disaster kit will not only save time but make life that much easier not only for you but also your family.

So what's in a disaster kit? Generally speaking, you should have food, water, and supplies. FEMA's website [www.ready.gov](http://www.ready.gov) has a complete listing but I am going to touch on a few of the highlights in this article.

**Food**

There should be a three-day supply of nonperishable food items for your family. It's important to choose foods your family will eat. Avoid foods that will make you thirsty (for obvious reasons). Don't forget a manual can opener.

**Water**

There should be one gallon of water, per person, per day for drinking and sanitation. In addition, you should have a three-day supply of water. This will help accommodate hot days and medical emergencies. What if you run out of drinking water? Where is a place in your home you can get safe drinking water? The hot water tank.

**Supplies**

Battery or hand-crank powered radio and a NOAA Weather radio are essential items in your kit. *Continued page 5*

MATT - CONTINUED FROM PAGE 4

You need to know what's going on around you. The Emergency Broadcast System will be on the air and you need to listen for instructions. Might be to shelter in place. Might be to evacuate to a shelter. You need this info and the AM/FM Broadcast radio is an important means to get it. There must be at least one flashlight with extra batteries in the kit. Personally, I recommend more than one flashlight. Be sure you have a sufficient supply of batteries. First aid kit is another essential item. If you've never learned first aid, I highly recommend you take a class from the American Red Cross or American Heart Association. Knowing how to treat minor injuries will make a difference in an emergency.

All right. Congratulations! You've visited [www.ready.gov](http://www.ready.gov). You found the complete list and established a disaster kit. But wait, there's more. It's important for everyone in your family to know where it's located. If something happens to you or you're not home, they need to know where it's at. Let's hope you never have to use this kit. What this means though is, you'll need to periodically inventory your kit. The purpose of the inventory is to ensure all the items are still in the kit. You never know when one of the kids hijacked the duck tape out of the disaster kit. It's also the time to replace expired food and water.

September is National Preparedness Month. Help spread the word and share this story with others. My name is Matt Welch and I approve this message. ;-)

73 de Matt W8DEC  
Ohio Section Emergency Coordinator  
ARRL - The national association for AMATEUR RADIO™

WHAT'S COMMING UP?

- 17 September Meeting - Mark Haverstock K8MSH - CHIRP
- 15 October Meeting - Ed Brannan KC8VCQ - Counter Terrorism
- 16 October Testing at ITT Tech
- 20 October Diabetes Walk - Please volunteer - Contact Al 330-549-3051.
- 19 November Meeting - Matt Welch W8DEC - TBD
- 17 December TBD Contact Robert with your suggestions
- 18 December Testing at ITT Tech
- 2014
- 03 January Extra Class start if there is enough interest - Books ahead of time a must.



**HAM RADIO TECHNICIAN CLASS**  
**WEDNESDAY EVENINGS, 7:00 - 9:30 P.M.**  
**SEPT.11 THRU OCT. 19, 2013**  
**CLASS LOCATION: ITT TECH,**  
**1030 NORTH MERIDIAN ROAD, YOUNGSTOWN**

**HAM RADIO GENERAL CLASS**  
**WEDNESDAY EVENINGS, 7:00 - 9:30 P.M.**  
**NOV. 6 THRU DEC. 18, 2013**  
**CLASS LOCATION: ITT TECH,**  
**1030 NORTH MERIDIAN ROAD, YOUNGSTOWN**

**FOR INFO OR TO SECURE A SEAT, CALL AL**  
**330-549-3051**

Bad decisions make good stories.

**WRARC Communications Unit Net Friday Nites 8:00P.M.  
145.270, PL -110.9**

**Net Control will be rotated**

**Join us for the WRARC Friday night Net 9:00 P.M.  
145.270, PL -110.9**

**Upcoming Net Control Operators**

**Sept 06 Dennis, KD8SNA  
Sept 13 Brent, KD8PQM  
Sept 20 Maureen, KD8MXS  
Sept 27 Darrin, N8DMC**

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

**Ask The Elmer Net Right after the Friday Night Net  
KC8SOY Moderator**



**Mahoning County ARES® Nets**

**1<sup>st</sup> Monday 8.30 PM ET W8QLY Repeater - 146.745 (PL 110.9)  
&**

**3<sup>rd</sup> 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 the 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.**



The new SAARA 440 repeater is up and running. Pass the word around and see how its doing from your area. Its located atop the Salem Community Hospital. 444.9625/ pl 162.2 - N8GOB

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; AB8AA, WR8RW, KD8SNA, KC8SOY, KB8UUZ, KD8RCC, W8IZC, N6ISY, W8DEC, N8SY, W5YI, N8GOB, email, the ARRL and the World-Wide Web.

**ARLB020 VANITY CALL SIGN FEE GOES UP AUGUST 23!**

ARRL Bulletin 20 ARLB020  
 From ARRL Headquarters  
 Newington CT August 22, 2013  
 To all radio amateurs



The new FCC regulatory fee of \$16.10 to apply for an Amateur Radio vanity call sign will go into effect Friday, August 23, when the new regulatory fee schedule will appear in the Federal Register. Earlier this year the FCC had proposed upping the vanity call sign fee from its current \$15 to \$15.20, but in the Report and Order in MD Docket 13-140, released August 12, the Commission offered no explanation for the higher fee.

In another change, starting in FY 2014, the FCC will require that all regulatory fee payments be made electronically.

The R&O ordered a broad schedule of new fees and waived the usual 30-day waiting period following Federal Register publication, because it feared there would not be time for FY 2013 fees to become effective before the start of the new federal fiscal year on October 1.

The FCC says it expects \$230,230 in revenue to cover the costs of administering the vanity call sign program. It anticipates 14,300 vanity call sign applications.

**FREE FREE FREE FOR THE TAKING**

ICOM has an online Amateur Radio Tool Kit where you can download free digital copies of the tool Kit. The Tool Kit consists of:

U.S.A. Amateur Band Plan a color-coded chart of the US ham radio bands and country codes

New Rules for the 60 Meter (5 MHz) Band - On November 18, the FCC released a Report and Order (R&O), defining new rules for the 60 meter

U.S.A. Amateur Grid Square Map - An invisible grid, based on 1° latitude by 2° longitude, encompasses the globe and is used for geographic location and identification

Ham Radio Terms - glossary contains general definitions of typical amateur radio terms for new and experienced operators alike

CQ DX Zones of the World - a double-sided world map showing the CQ DX Zones and the ITU Zones. Each map uses an Albers Equal Area projection. With color-coded regions and a list of country codes, this map serves as an illustrative tool to help you in any DX adventure!

Check out the ICOM website to download the kit. Here is the link:

<http://icomamerica.com/en/amateur/amateurtools/default.aspx> -

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**ELECTIONS THIS FALL!**  
**TED KD8IJE IS HEADING THE NOMINATING COMMITTEE**  
**WE NEED TO ELECT -**

**PRESIDENT**  
**VICE PRESIDENT**  
**SECRETARY**  
**&**  
**ONE TRUSTEE**

**INTERESTED IN RUNNING? CONTACT TED OR ROY!**  
 efilmer@aol.com or harens@juno.com

**ARLB019 PENDING AMATEUR SERVICE RULE CHANGES ARE NOT ON BACK BURNER**

FCC Assures VECs - Speaking in late July at the 28th annual National Conference of Volunteer Examiner Coordinators (NCVEC) meeting, Bill Cross, W3TN, of the FCC's Mobility Division within the Wireless Telecommunications Bureau (WTB), assured attendees that pending proposals to modify the Amateur Service Part 97 rules are not on the back burner but still under review. FCC personnel addressing the teleconference were unable, however, to predict when the Commission would take action on the Notice of Proposed Rulemaking and Order (NPRM) in WT Docket 12-283. The NPRM can be found on the web in PDF format at, [http://hraunfoss.fcc.gov/edocs\\_public/attachmatch/FCC-12-121A1.pdf](http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-12-121A1.pdf).



Among the FCC proposals: Granting exam credit for expired and beyond-the grace-period licenses; shortening the grace period during which an expired ham ticket may be renewed; correspondingly revising the time a call sign remains unavailable to vanity applicants; and reducing the number of volunteer examiners needed to administer examinations. The docket also seeks comment on amending the rules to permit remote test administration and proposes allowing Amateur Radio stations to transmit certain emission types.

FCC Program Analyst Rebecca Williams of the FCC's Gettysburg Office told meeting participants that the FCC will not remove or conceal a licensee's name or address from its public database. She said she's received numerous complaints from licensees about their information being public. According to §97.23, licensees must provide a valid mailing address, but as Williams pointed out, that can be any US address where the licensee can receive mail, such as a work address or a post office box. Licensees can protect their privacy and remain within the rules, she said.

She also reminded her audience that since February 14, 2011, a radio amateur can serve as a trustee for only a single club and may not also be a club license trustee for another club. The rules further prohibit clubs from having more than one vanity call sign. Amateurs who served as trustees for more than one club, and clubs holding more than one vanity call sign before the change may continue to do so, she said.

NCVEC Chair Larry Pollock, NB5X, presided over the teleconference. ARRL VEC Manager Maria Somma, AB1FM, Assistant Manager Perry Green, WY1O, and Regulatory Information Manager Dan Henderson, N1ND, represented the ARRL VEC for the session. Representatives from 12 of the nation's 14 VECs took part in the meeting.

NCVEC Question Pool Committee (QPC) Chair Roland Anders, K3RA, told the gathering that the QPC has been working to update the Technician question pool. The new Tech question pool will go into effect next July 1. Anders said the QPC has been reviewing the entire question pool with a goal of fixing and removing outdated or poorly worded questions and to develop questions as new technology is introduced. He said the most difficult part of the job is coming up with distractors - incorrect answers - for the multiple-choice exams that are reasonable but also absolutely incorrect.

The gathering re-elected by acclamation the current leadership slate, including Pollock, who will serve a fifth term as chair. Other officers are Vice Chair Mark Erbaugh, N8ME; Treasurer Willard Sitton, W4HZD; Assistant to the Treasurer Ray Adams, W4CPA; Secretary and Custodian of Records Michele Cimbala, WK3X, and Assistant to the Custodian of Records Gene Wright, WA6ZRT. The rules reporter position remains vacant.



Oh Hi Roger . . . Walter can't come to the phone right now, he just made a contact with a station in Tasmania at 10-milliwatts, and he's not done foaming at the mouth.



JOIN THE NATIONAL PREPAREDNESS COMMUNITY

Last year, over 21,000 members of our National Preparedness Community coordinated 1,573 preparedness events engaging 1.5 million Americans in preparedness activities during National Preparedness Month.

In order to build on last year's success, we are inviting you to join the National Preparedness Community, download the Tool Kit, and coordinate a National Preparedness Month activity. Click here [http://community.fema.gov/connect.ti/READYNPM/register?nextURL=%2Fconnect%2Eti%2FREADYNPM%2FjoinGroup%3FSHO WREG%3D%26NEXTURL%3D%26AJAXMODE%3D%26DONE%3D%26ISAJAX%3DN&utm\\_source=Ready&utm\\_medium=Email &utm\\_campaign=NPC2013](http://community.fema.gov/connect.ti/READYNPM/register?nextURL=%2Fconnect%2Eti%2FREADYNPM%2FjoinGroup%3FSHO WREG%3D%26NEXTURL%3D%26AJAXMODE%3D%26DONE%3D%26ISAJAX%3DN&utm_source=Ready&utm_medium=Email &utm_campaign=NPC2013) to join the National Preparedness Community and get started now!

The community is open and free to anyone who wishes to join. Members have access to resources including stepup emergency preparedness guides, public service announcements, informational materials, and regionally based preparedness discussions. In addition, members connect and collaborate with their peers as well as emergency personnel in the communities of practice.

With National Preparedness month coming up in September, this is an exciting time to be a part of this vibrant community. Join the community of 29,800 plus members - Join the National Preparedness Community now!  
[pr@reflector.arrl.org](mailto:pr@reflector.arrl.org)

**W5IG Cool Transmitter - <http://www.youtube.com/watch?v=neHreW-PNtw>**

A SUGGESTION FROM STEVE, KC8SOY

[http://www.repeaterbook.com/repeaters/Display\\_SS.php?state\\_id=39&band=14&freq=%&band6=%&loc=%&county\\_id=%&call=%&status\\_id=%&features=%&system=%&coverage=%&use=%](http://www.repeaterbook.com/repeaters/Display_SS.php?state_id=39&band=14&freq=%&band6=%&loc=%&county_id=%&call=%&status_id=%&features=%&system=%&coverage=%&use=%)

This web site has the repeater frequencies in numerical order, so you could enter all of the repeater frequencies you need into your radios. When programming my FM radios, this is what I use as a reference to enter the multiple repeater frequencies, after I have entered all of my local repeaters. I usually leave the first five channels for the local repeaters, I think this is a good way of programming your radios.

If you were traveling out of state, or just to Southern parts of Ohio, the repeater frequencies are already in your radios. As you scan the channels and come across a repeater that is active, you could then set you radio to search for their PL tone. Some times there are some repeaters out there that do not emit a tone. To find out what that tone is, when the repeater is being used, switch your radio to transmit on simplex on the repeater's output frequency, and ask for the PL tone

**How many of Tesla's patents are still in use?  
 Out of the 11 original patents made by Nikola Tesla, for the generation of hydroelectric energy, 9 are still in use, (unchanged) today.**

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



Avnet, Allan AB8AA	Antennas, radio setup, mobile, grounding, classes, anything	ab8aa@arrl.net
Beatty, Dave KC8WY	anything	kc8wy@zoominternet.net
Fabry, Steve KC8SOY	Yaesu FT8900, FT8800, Mobile	kc8soy@yahoo.com
Haren, Roy KD8IJF	???	harens@juno.com
Webster, Robert WR8RW	erecting antennas	wr8rw@arrl.net
Williams, Russ NR8W	Electrician, tele-data, Amateur Extra	rwiliams@neo.rr.com

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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 three days before the end of the month. Please send your articles to: [k8jaa@arrl.net](mailto:k8jaa@arrl.net), and put WRARC on the subject line of your email. You may also send your articles to the editor: Jane Avnet, 2050 E. South Range Rd., New Springfield, OH 44443

## MORE FROM MATT

The 191st Great Geauga County Fair runs August 29 thru Labor Day. Geauga County EC Pat N8ONI tells me we have 20 amateur radio operators signed up to volunteer at the fair. That is spectacular in comparison to past years! Stop by the communications trailer adjacent to the fire station for on-site frequencies, be sure to bring a portable transceiver (HT). There is also a talk-in station on 146.940(-) PL 110.9 from Noon to 8:00 P.M. each day of the fair.

Ohio State Parks on the Air is Saturday, September 7. There's 74 Ohio State Parks, which one are you operating from? I will be in Trumbull County with the Warren Amateur Radio Association, operating W8VTD from Mosquito Lake State Park in Cortland, OH.

Saturday, September 8 is the Findlay Hamfest. This is one of the largest Hamfests we have in Ohio and I encourage everyone to come support this great Hamfest.

## SEPTEMBER ANNOUNCEMENT!!!

September is National Preparedness Month. In the spirit of National Preparedness Month and in the spirit of tradition, I am announcing the Second Annual ARES Membership Drive! This contest runs from September first through September thirtieth. All county ARES teams and all ten ARES Districts are asked to participate in the contest by registering as many new volunteers throughout the month of September. New volunteers can be new licensees (any license class) or returning ARES members. All those registered must have a valid amateur radio call sign.

The question was asked, If someone registers during the month of October, will it count toward the contest? The answer is no. Volunteers can register for ARES at any time throughout the year. However, in order to count toward the contest, the volunteer must register during the month of September.

The county and district that wins will receive a phenomenal award certificate suitable for framing. The winners will be announced at the All Ohio ARES Conference on Saturday, November 9 at the Ohio Fire Academy in Reynoldsburg, OH. Both the winning county and winning district will also be recognized on the Ohio Section Website, Ohio Section News, and in my weekly Ohio SEC Notes & Stuff. An announcement will also be sent to QST Magazine and ARES E-Letter so everyone will know who took first place in the Second Annual Ohio Section ARES Membership Drive. You can review all the rules and details at <http://www.arrr-ohio.org/SEC/Notes/ares-drive.html>.

EMCOMM EAST [www.emcommeast.org](http://www.emcommeast.org) is on Sunday, September 29 at St. John Fisher College in Rochester, NY. So far, I know of three people from Ohio who are attending. Myself and two others. This is a great conference and I have always found the traveling to be worth it. Please contact me if you plan on attending, so we can coordinate.

The All Ohio ARES Conference on Saturday, November 9 is shaping up nicely. Participants are registering almost every day. Many people have indicated they're bringing a go-box. One participant indicated they're bringing a communications trailer. There is plenty of room for more participants, go boxes, and communications vehicles/trailers. The agenda is also in good shape with excellent programs and presenters. There is room for more. If you have something you'd like to teach or show-off, feel free to contact me with your program or demonstration.

There is so much ARES stuff happening in the Ohio Section. Drum roll please . . . dim the lights. Here we go.

1. Ohio HF Net on Tuesday nights at 7PM managed by W8SGT operated from the State of Ohio Emergency Operations Center in Columbus. This net has the reputation for being on the air every single Tuesday night no matter what. Put your county on the map by checking in. All are welcome.
2. Ohio Digital Emergency Net on Tuesday nights at 8PM. All are welcome. This net has turned into a great resource and a great place for Elmering those in the world of FLDIGI and digital sound card modes.
3. Digital Communications Committee continues to work together in determining if DSTAR, Echolink, IRLP, and/or AllStar should be added to the Ohio Section Emergency Response Plan.
4. A team of volunteers consisting of DEC03 Bob KC8WHK, Gallia County EC Matt

*Continued page 11*

## MORE FROM MATT - CONTINUED FROM PAGE 10

KD8OMT, ASEC Mark KB8YMN, and ASEC Gary WW8O are working diligently on the Statewide Simulated Emergency Test.

5. ASEC Scott N8SX is working on developing the first ever Ohio ARESMAT in addition to maintaining the Ohio Section training database for both leadership and volunteers.
6. The Assistant SEC's have recently been tasked to coordinate with DEC's and ADEC's in recruiting EC's for vacant counties.

I am sharing this with you because all of this is taking place in between public service events, ARES meetings, club meetings, nets of all sorts, training, exercises, and drills. Not to mention during a little thing called LIFE. To me, this shows passion, dedication, and determination in getting the tasks done so we can move on to the next one.

73 de Matt W8DEC

## ALL CIRCUITS ARE BUSY: EMERGENCY COLLAPSE COMMUNICATIONS

Sunday, August 25, 2013  
by Tess Pennington

Our communications systems are still considered among the world's most extensive and dependable. However, the infrastructure is extremely outdated and unusual conditions can and do put a strain on our grid. With the rise of natural and man-made disasters and an aging infrastructure, experts from the private and public sector warn that we are just one major catastrophic event away from the possibility of an event taking down the grid, thus causing a complete meltdown of life in America as we know it today.



Consider, for a moment, how drastically your life would change without the continuous flow of energy the grid delivers. What would our lives be like without access to communication channels telling us what is going on? How vulnerable would we feel not getting our daily dose of local, and world news? For that matter, how would we get in touch with loved ones to let them know how we are?

According to James Rawles, author of *How to Survive the End of the World As We Know It*, most radio and TV stations have enough fuel to run their backup generators for only a few days. Ditto for the telephone company central offices (COs). If that is the case, then what will happen when those generators run out of power? As he points out, "there will be an acute information vacuum."

## EXPAND YOUR COMFORT ZONE

The latest (September 2013) issue of *Popular Science* -- the self-titled "Go/Do/Learn" Education issue -- contains several articles that are required reading for all of us working toward the future of Amateur Radio, specifically, and for the advancement of scientific and technical understanding in society, broadly. River City Robots promotes FIRST robotics programs in student groups in St Charles County, MO. K-12 students are welcome.

Beginning with the editorial, "An Awesome Education" by Jacob Ward, the discussion and articles address how students are embracing the Do-It-Yourself (DIY) approach not only to hobbies but learning in general. Columnist Erin Biba tackles the science classroom with "Lab Is In Session" on how to more effectively teach science, particularly the Next Generation Science Standards for K-12 students. A series of short features ("Amazing Labs") highlights some of the cutting edge lab environments in which science and engineering are getting done. (Such as the Explosives Engineering course at my alma mater - I applied for a spot like everybody else but like everybody else, didn't get in...)

The centerpiece of the issue is the article "Short Circuit" about Quin Entyre, a 12-year-old electronics whiz who not only builds cool stuff using Arduino and other technology, but runs a small electronics company and teaches the Arduino to students up to several times his age. Early on, Quin has realized the *Continued page 12*

## COMFORT ZONE - CONTINUED FROM PAGE 11

power of mentoring, suggesting that older kids could tutor and mentor the younger kids, saying "It's fun to teach other kids, and little kids look up to older kids."

The article also mentions Sylvia Todd, another 12-year-old maker (see her Super Awesome MINI Maker Show Playlist videos), the Hacker Scouts in Oakland, CA (which has turned into a bit of hacker and artist hot-spot on its own), and the FIRST Robotics Competition which has provided structure and focus for all sorts of technical activities on the part of student teams at all educational levels.

Just last night at the St Charles Amateur Radio Club's monthly meeting, Jacob KDØSJV, and his FIRST robotics team, the River City Channel Cats, gave a great demonstration of their Frisbee-flinging robot (it throws HARD!) and explained how FIRST works. Jacob is an active new ham, studying for his Extra, and enthusiastically explained how much overlap there is between robotics and ham radio - electronics, programming, communication, building. The Channel Cats are a team of high-school students that participate at the FIRST Robotics Competition level against other teams from across the country.

Nice, but what does this have to do with ham radio? Well, everything, basically. As I am (overly) fond of repeating, "These are our people!" Hands-on, multi-talented, informationally omnivorous -- that sounds like ham radio, where you can tinker away with everything from electronics to woodworking to geophysics! All at the same time, of course. Ham radio is an opportunity to learn that science and engineering are much, much more than a collection of party tricks - and so are robotics and microcontroller projects and hacking and making.

If we are going to interest these young minds in ham radio, we're going to have to take ham radio to where they are. Ham radio has to be an activity they can "own" by themselves without requiring an adult to be constantly looking over their shoulders. I'll be talking with Jacob and other young hams about hybrids of Technician-level ham radio and robotics, for example. What local groups -- young and old -- are available for you to support? Maybe there's a "maker space" near you that could make use of your wireless skills and know-how. Can you weld? How about leading a learn to solder class? Show a group how much good stuff you can get out of tearing down broken electronic gadgets. Trust me, ham radio will soon enter the conversation and you won't have to be forcing it in there, either.

Listen to what their interests are then go where the audience is. Let them add ham radio to their toolbox on their own. It won't do us any good to sit behind display tables with our arms folded, expecting them to push their way into our groups and activities. Will it be different? Of course, but then, ham radio was a different sort of thing when you got started in it, right? Unfamiliarity is an opportunity. Expand your comfort zone and you may be surprised at the enthusiasm with which you -- and ham radio -- are greeted!

73, Ward NØAX

The ARRL Contest Update for August 28, 2013

## WE'RE INVITED!

At our August Meeting Sam DiRocco, W8SDD, announced MVAS, has invited WRARC to the Second Annual Astro-Hams event At Scenic Vista Park Saturday, September 14. The Event starts at Noon and will end when everyone leaves. Weather permitting there will be telescopes and astronomical viewing in the evening. This will be a public event, and it was advertised in the Scenic Vista Newsletter so expect some public to show up.



During the evening telescopes will be setup and observing will take place throughout the evening (Weather Permitting). This will be like a mini Field Day and we can talk and Observe all night. The astronomers are aware that we will be out with the radios and expect there to be some light, so this should not be much of a problem.

Food? Their folks usually bring finger foods such as: sandwich makings; fruit; cold salads, baked goods. While it's not necessary to bring something - we will be there for quite a while. Scenic Vista Park, is just west of Lisbon, OH. Use below for Google Maps, etc.:

11000 Wayne Bridge Rd. Lisbon, Ohio 44432  
GPS Coordinates: 40° 44.152, 80° 48.988



# September 2013



**PREPAREDNESS LEADS TO READINESS**  
**WE NEVER KNOW WHAT THIS DAY WILL BRING TO US**

<p>1</p> 	<p>2</p>  <p>Labor Day</p>	<p>3</p> <p>ARES Net 8:30 PM 146.745 PL 110.9</p>	<p>4</p> <p>Skywarn Net 8:30 P.M. 146.745</p>	<p>5</p>	<p>6</p> <p>Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>7</p> <p>OSPTA</p> 
<p>8</p>	<p>9</p> <p>Happy Birthday KA8SEI</p> 	<p>10</p> <p>Eat'n Park Boardman 8:30 A.M. Ham Community Breakfas</p>	<p>11</p> <p>Tech Class Starts</p>	<p>12</p>	<p>13</p> <p>Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>14</p> <p>Astro-Ham Event Scenic Vista park noon til ?</p>
<p>15</p> <p>WRARC Board Meeting 7:00 P.M.</p>	<p>16</p> <p>ARES Net 8:30 PM 146.745 PL 110.9</p>	<p>17</p> <p>WRARC Meeting 7:00P.M</p>	<p>18</p> <p>Tech Class</p> <p>Happy Birthday KC8SPF</p> 	<p>19</p> <p>Happy Birthday WA8GLF</p> 	<p>20</p> <p>Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>21</p> <p>Happy Birthday KC8UNR</p> 
<p>22</p> <p>Autumn begins</p>	<p>23</p>	<p>24</p> <p>Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast</p>	<p>25</p> <p>Tech Class</p>	<p>26</p>  <p>WaveBender Articles Due</p>	<p>27</p> <p>Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>28</p> <p>Comm Unit Meeting 9:00 AM</p>
<p>29</p>	<p>30</p>	<p>10/1</p>	<p>10/2</p> <p>Tech Class</p>	<p>10/3</p>	<p>10/4</p> <p>Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>10/5</p>