

The
Wave Bender
April 2013

PRESIDENT'S QST

Well here we are it's April already. I want to thank everyone that put in time at the Home Show booth. We will see if it brings anyone into the club. I have noticed that we do not have a lot of the members checking into the nets. Please try to remember to check in on Friday evenings at 9:00PM on 145.270 – PL 110.9. The PL is usually off. We have about 50 members, so we should have about 50 check- ins. If you read my column, you know that I have said that this is your club. Only when you get involved will the club get better, grow and become the best club in the valley.

If you know any Hams, ask them to come to a meeting and look us over. Talk up Ham radio to anyone you know. Put old Ham radio magazines anywhere you can. Dr.'s offices the library (But ask first). Put a label over your name. The label should say "Complements of the Western Reserve Amateur Radio Club, for information call 330-549-3051". Every member should try to help the club in any way they can. That way we will be the Best Club in the Valley.

Field Day is coming soon. Let's make it a great event for the club this year. Everyone should try to come out and put in some time making contacts. If you have not had a chance to get on the radio yet, this is a good time to do it. There will be plenty of help to get you started. If you do not want to get on the radio there is always the logger spot that needs to me taken.

Roy and Steve will be looking for operators and loggers for Field Day, so get with them and sign up. If you are having problems with radios, antennas, or setting up your station, talk to one of the Elmer's or contact me directly. My contact and the Elmer's info are in this newsletter.

73, AB8AA

Amateur Radio is a Hobby, Emergency Communications is a Commitment!



Officer's Meeting: April 14, 7:00 P.M. At the Avnet's (330-549-3051)

Regular Meeting: April 16, 7:00 P.M. Davidson's, 3636 Canfield Rd. in Cornersburgh

Speaker: John Orndorff, KA8YTS, from Trumbull County ARES to present and discuss his Go Kit Recommendations
- Also a Field Day Update

2013 Officers:

President:	Al Avnet, AB8AA	ab8aa@arrl.net
VP:	Robert Webster, KD8OXJ	rswebster@mail.com
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
	Fabry, KC8SOY	kc8soy@yahoo.com

Appointed Positions:

Social:	Maureen Stein, KD8NXS	mfstein@zoominternet.net
Publicity:	Robert Webster, KD8OXJ	rswebster@mail.com
Newsletter/Web:	Jane Avnet K8JAA	k8jaa@arrl.net
Badges::	John Fabry, KC8SPF	jonnyjukebox@sbcglobal.net

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

WATCHING OVER THE NEIGHBORHOOD. . .



28 March 2013 – Back during my youth growing up in the West Livingston neighborhood of Jamestown New York, an interesting set of circumstances existed when it came to misbehavior. When I had committed some misdeed, most generally minor, usually by the time I arrived home there was a stern parental look awaiting me. The telephone call was quicker than running feet. You very likely can fill in the remainder of the story if you are from that era or before. In the event the neighbor was of such a mind, rather than a call to one of my parents, a moderately stern look or the use of a teaching moment occurred. There were no calls to the local police service...things were dealt with “locally” by a familiar face. Quite frankly, those were “lessons” I took pretty seriously as the person doling out the “instruction” was someone I had to deal with or see just about every day. There was something about the familiarity of the setting that prompted my being on better behavior.

During my years in college, when this particular topic was discussed in a course, the term “community self-policing” was applied to that set of circumstances.

In a seminar during the Dayton Hamfest in 2011, related to the FCC and “changes” to the rules, the topic of spectrum enforcement came up. The FCC representative cut to the chase very quickly...due to funding cuts in the FCC’s enforcement ranks we, the amateur radio community, had to become more self reliant in terms of policing our own neighborhood. The radio-wave enforcers were not just over the next hill any longer.

In an article last year I mentioned the risks our portion of the spectrum face due to telecom interests waving money within Washington’s reach. The second sharp edge of that “blade” is a set of consequences stemming from perpetually bad behavior by some of our electronic neighbors. Given enough of a reason Amateur Radio band-plan “urban renewal” could come to pass. At the end of the day, when it comes to bad behavior in our electronic neighborhood, we are responsible for community self-policing. An example of our failure to implement this can be found on the 80-meter band most evenings.

There are ARRL Official Observers listening to the bands, but they can’t be tuning all frequencies all the time. That leaves us to pick up the slack. Our general approach need not be confrontational, rather straight forward and to the factual point. I have been the recipient of this approach by a “neighbor” listening on the 20-meter band one evening. The listener realized, through a QRZ look up or some other means, that I was a General...working just into the Extra portion of the band. Yes...I messed up. The friendly e-mail I received surprised me and gave me cause for more careful tuning. There were no threats, no FCC, just one neighbor reminding another of the boundaries. If we are to avoid a spectrum bulldozing, we need to be watching carefully what goes on in our neighborhood and act as joint custodians of a “locale” we value and have worked very hard to move into.

-73- Robert (KD8OXJ)

MATT'S SEC NOTES & STUFF - WEEK 13 - 2013

These notes will also be available on the ARES page at www.arrl-ohio.org
Preparedness Leads to Readiness

Earlier this week, I decided to start the ARRL **EC-016 Public Service and Emergency Communications Management for Radio Amateurs course**. It's something I've wanted to do for quite some time now. I just haven't able to find the time. When I went to learn about the course, I found that I have to be logged on as an ARRL member to access the course. I learned the EC-016 is a free online course. It does not cost anything to take the training. The \$35.00 cost is the exam fee. I also learned there is no time table meaning I can take this course at my leisure. Looking over the prerequisites, I have an amateur radio license, completed SKYWARN Training, completed EC-001 Intro to Emcomm, and I don't think I'll have a problem with getting a recommendation from the Ohio Section Manager. I also completed the IS-100, IS-200, IS-700, and IS-800. I still need to take some of the FEMA courses in the professional series. But once completed, I will be eligible to take the final exam. The final exam is 50 questions, costs \$35.00 and I need an 80% to pass. Wish me luck.

ARES Forum at Dayton Hamvention is confirmed for Sunday, May 19th at 10:30AM in Room 3. This forum is for all past, present, and future ARES volunteers. Emcomm Panel is being formed and discussion topics are being developed. Stay tuned for details.

Continued page 3

MATT - CONTINUED FROM PAGE 2

Don't forget the Department of Homeland Security's Office of Emergency Communications (OEC) will be on hand at Hamvention® 2013 to conduct their nationally recognized NIMS/ICS compliant Auxiliary Emergency Communications (AUXCOMM) course. The course will be held prior to Hamvention®, on 14-16 May 2013 in the Dayton area as part of Hamvention® 2013. See www.hamvention.org for registration details.

Training. I have always been a firm believer in being more proactive than reactive. Proactive is what you can do now. Reactive is what you can do when activated. What can you do in between emergencies, disasters, and/or activations? Submit your answers to your Emergency Coordinator. If you do not have an EC in your county, I ask you to submit your answers to your District Emergency Coordinator. I'll give you my answers next week and we can compare what you have to what I have.



73 de Matt W8DEC
 Matthew Welch W8DEC
 Ohio Section Emergency Coordinator
 ARRL - The National Association for Amateur Radio™
w8dec@arrl.net / 440-585-7388

BATTERIES AT THE HEART OF PORTABLE COMMS

Tips: Back about 20 years ago, NiCd batteries were notorious for having a pronounced memory effect caused by a special type of crystal formation within the battery. This particular mechanism has been eliminated in current NiCd cells but our memory of it, so to speak, is long.

Today's batteries all have some kind of memory in which the capacity of the battery changes with patterns and depths of discharge. Each type of battery chemistry exhibits this effect for different reasons - some types stronger than others. Unfortunately, it's also referred to as a "memory effect" which is confusing to those of us who remember the old "memory effect." Nothing like calling two different things by the same name to generate a lot of confusion!

Because this effect varies with battery type, blanket statements about it are unwise. Isidor Buchmann's *excellent* and very readable book, Batteries In a Portable World, and its sibling website, <www.batteryuniversity.com>, tackle the full spectrum of battery types and how to apply them. On the website, I highly recommend taking the opportunity to read the section "How to Prolong Battery Life." The book is available from the ARRL Store <<http://www.arrl.org/arrl-store>> and other book sellers. Both should put a charge into your understanding of this important energy source that is crucial to effective emcomm operation. Good luck and may your batteries live long and prosper! -- Ward Silver, N0AX, Contributing Editor, QST; ARRL Contest Update Editor; St. Charles, Missouri

SWAP N' SHOP	1. ICOM IC-706 MKIIG, with HM-103 mic	\$350.00
	2. DG-IT-100 100watt Automatic Tuner for ICOM	\$100.00
	3 ICOM HB118 TN/YA DTMF hand microphone	\$ 75.00
	4. DUPLEXER HF/VHF	\$ 50.00
	5. Chameleon Antenna V2L HF/VHF/UHF Multiband Antenna	\$100.00
	6. M383 Mobile Mounting Bracket	\$ 25.00
	7. MB72 carrying handle (Separation cables)	\$ 25.00
	No box. Printed copy of manual	\$ 25.00
All (1 thru 7) for		\$570.00
For more information Call Jim Jickess (330-757-9675)		

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

Norse Code

Click [HERE](#) to inherit a million smackeros and live rich...
 OOPS! sorry, that link's broken!
 April Fools!

2013AUSTINTOWN HOME & GARDEN SHOW

The Home and Garden show is over for this year. It ran Friday, 3/22 thru Sunday, 3/24 with setup on Thursday, 3/21. Our thanks to these folks who came out to support our club and Amateur Radio: AB8AA, Donna Haren, K8JAA, KB3WPD, KB8QDZ, KC8SOY, KC8WY, KD8IJE, KD8IJF, KD8RCC, KD8SNA, KD8SPF, KD8STJ, KD8TII, KD8TIK, N8YMZ, Nina DiPietro, NR8W, W8SDD. Some came out and stayed all four days, and some were only able to spend part of one day. Thanks to you all!

We had an electric sign that was donated to the club by Wes W8IZC, which flashed a welcoming message above the booth. We had pictures of some of the things we've done over the years, and a PowerPoint presentation about the club playing all three days the event ran. We handed out information about our club, the ARRL, and talked about Amateur Radio in general. Some interested folks were from other areas, so we suggested clubs in their area to contact.

We spoke to some Hams, some folks who are interested in becoming Hams, and friends who just stopped to say "HI." It looks like we will have another Public Service Event to do, for the Autistic Learning Foundation, as a result of the weekend. We had fun, enjoyed the company as well as the folks we talked to, and came home tired early Sunday evening after it was all torn down and stowed away in our vehicles.

Thanks again to John Fabry who secured the booth for us. Did I mention it didn't cost us anything? We look forward to next year when, maybe, we get to do it all over again.



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
 4/5 Dennis KD8SNA
 4/12 Joe KD8RCC
 4/19 Jane K8JAA
 4/26 Steve KC8SOY

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

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 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.

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, KD8OXJ, KD8SNA, KB8UUZ, W8IZC, W8DEC, N8SY, W5YI, the ARRL and the World-Wide Web.

The WRARC Communications Unit is resuming training. We are going to take off where we left off. Starting Friday, April 5 at 8:00PM will be the net. We will have the Monthly training meeting on the last Saturday of the month. That will be April 27 at 9AM, this should be a short meeting.

If you are no longer interested in being in the Comm Unit please let me know.

73, Allan
ab8aa@arrl.net

HAM SAVES OHIO TOWNS . . . MARCH 26, 1913

"SOS supplies will last until tomorrow..... Men are hanging on trees..... Send supplies..... Water is receding.....Try and get us water and gas..... People are suffering..... Send this to Mayor Karb at once..... SOS."

It was with these words sent by a 15 year old teenager exactly 100 years ago today that Amateur Radio entered into Disaster Service. Herbert V. Akerberg was a student at West High School in the Hilltop neighborhood of Columbus, Ohio when he anxiously tapped out that Morse code message on the afternoon of March 26, 1913.

A slow moving storm had dumped 11 inches of rain over much of Ohio's already saturated soil. In Zanesville the Muskingum River was cresting at 27 feet and 20 feet of water stood in her intersections. Five of the town's seven bridges were washed away. Only the tips of the lampposts of the famous "Y" bridge could be seen.

In Defiance, Ohio the Maumee River rushed in 10 feet above flood stage and covered 268 homes. Row boats plucked people from trees and rooftops everywhere. In Tiffin help came too late for several. Nineteen people waiting on their roofs for help, perished when their homes collapsed and they were swept away by the Sandusky River On the west side of Columbus, where young Herb Akerberg was manning his station, the Scioto River crashed through the downtown dumping flood waters 17 feet deep into his neighborhood. Thirteen people were rescued from the branches of a single tree.

"For about three days and nights, practically continuously for seventy-two hours, young Akerberg remained on duty at his radio set, in communication with the radio station on top of the Huntington Bank Building, sending messages to the mayor and keeping the public advised as to the conditions on the devastated West Side. Many messages were sent to the friends and relatives of those in the devastated district." C. B. Galbreath-Author "The History of Ohio" The greatest destruction was in the areas around Dayton, where the rushing waters of the Great Miami River washed away homes and bridges claiming hundreds of lives. In Dayton 360 souls were lost, 3,400 domesticated animals and horses perished, 65,000 people were displaced and 20,000 homes were destroyed. Damage, in today's dollars, exceeded \$2 Billion.

The flow of the Great Miami River through Dayton during that Easter week storm in 1913 was equivalent to the same amount of water that spills over Niagara Falls in a month! In nearby Hamilton four-fifths of the town was covered and 400 people lost their lives."People talked about how fast the waters rose, sometimes one or two feet per hour, and there wasn't any way of sending warnings downstream because of the downed wires," she said. "There was no radio then except for a few ham radio operators, and the 1913 Flood is what triggered the legislation to create an emergency broadcast system."...Trudy E. Bell-Author "The Great Dayton Flood of 1913"

Back in Columbus, Herbert Akerman, pounding brass from his home shack is joined by the station from Ohio State University. Unlike Akerman, the OSU students are not proficient in Morse Code. To the North of Ohio, B.N. Burglund at the University of Michigan station was unaware of the flooding in Ohio until *Continued page 7*

CONTACT WRARC ELMERS WITH YOUR QUESTIONS - 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 KD8OXJ	erecting antennas	rswbster@mail.com
Williams, Russ NR8W	Electrician, tele-data, Amateur Extra	russellwhoknew69@aol.com

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, 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

HAM SAVES OHIO TOWNS - FROM PAGE 6

he intercepted a call from a operator in Freemont, Ohio who reported that the town was under water and that the Captain of the Port Townsend Life Saving Station had drowned while attempting a rescue. The operator reported that all telegraph and telephone lines were down. This call was followed by one from D. A. Nichols in Wapakmeta, Ohio that his town was also cut off from the world.

Burglund put out a General Call to any station located in the flooded areas. This call was responded to by operators in Mansfield, Springfield, and Mt. Vernon, as well as the OSU station in Columbus.

Burglund, assisted by engineering students George Norris, Worth Chatfield, and Mr. Watts (who had once been a commercial operator) began handling Health and Welfare traffic from the devastated area.

The Ohio State University station was now being manned by a capable operator, J. A. Mercer who pounded the key for more than 70 hours before he collapsed from exhaustion and was temporarily relieved by operators from the U.S. Army Signal Corps.

Young Mr. Akerberg, the first Ham ever to use Amateur Radio in a disaster would go on to honorably serve with the men of the Army Signal Corp during World War I.

In 1923 he directed the building of Radio Station WPAL in Columbus. Six years later he joined the start-up network CBS, where he built much of their network of radio and television stations. Herbert Akerberg passed away in Scottsdale, Arizona on November 6, 1964

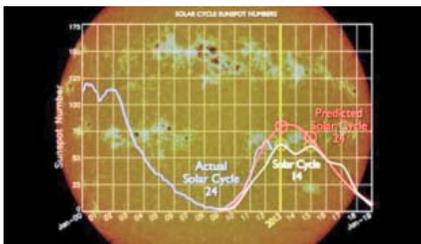
"Wireless has shown itself up so beautifully during this great crisis, that a bill is pending in the State Legislature of Ohio providing for a large central station or stations and each city to have a permanent local station, so in case of need all cities so isolated are in communication with the different central stations. By all means let this bill pass. This is a step in the right direction and it is a good example for other States to follow."

"Wireless in the hands of the amateur, while it is used by some as a plaything, is capable of doing excellent service in time of need; and we hope the work done by these men who did all they could to maintain communication between the flood stricken cities and the rest of the world, will long be remembered." B.N. Burglund –Modern Electrics, April 1913

Written by
John Bigley-N7UR
March 26, 2013

Here is a link to a Columbus Dispatch article on the same subject: <http://www.dispatch.com/content/stories/local/2012/11/06/hilltop-teen-was-first-to-transmit-from-home-radio-during-disaster.html>

SOLAR CYCLE 24 MAY HAVE "DOUBLE PEAKS," SAYS NASA SOLAR PHYSICIST



03/14/2013 - According to NASA, the current solar cycle -- Solar Cycle 24 -- should hit its "solar max" sometime in this year, but so far, solar activity has been relatively low. According to an article by NASA's Dr Tony Phillips, this period of quiet has led some observers to wonder if forecasters missed the mark. But solar physicist Dean Pesnell of NASA's Goddard Space Flight Center has a different explanation: "This is solar maximum. But it looks different from what we expected because it is double peaked." Pesnell noted similarities between the current cycle and Solar Cycle 14, which happened between February 1902 and August 1913 and experienced a double peak. If the two cycles are in fact twins, he said that "it would mean one peak in late 2013 and another in 2015."

Solar activity tends to swing back and forth: At one end of a solar cycle, there is a quiet time with few sunspots and flares, while at the other end, solar max brings high sunspot numbers and solar storms. Even so, astronomers -- who have been counting sunspots for centuries -- have noticed that a solar cycle is not perfectly regular, with the swing in sunspot counts taking anywhere from 10-13 years to complete. In addition, the amplitude of each cycle can and does vary, with some solar maxima being very weak (such as Solar Cycle 6), while others can be very strong (such as Solar Cycle 19).

"The last two solar maxima, around 1989 and 2001, had not one but two peaks," Pesnell explained. Phillips' article explained how "solar activity went up, dipped and then resumed, performing a mini- *Continued page 8*

SOLAR CYCLE 24 - CONTINUED FROM PAGE 7

cycle that lasted about two years." Pesnell said that the same thing could be happening now. Even though sunspot counts jumped in 2011 and dipped in 2012, he said he expects them to rebound again in 2013: "I am comfortable in saying that another peak will happen in 2013 and possibly last into 2014."

According to Phillips, solar activity in the Sun's hemispheres does not always peak at the same time. "In the current cycle, the south has been lagging behind the north," he said. He explained that if a second peak occurs, it will likely feature the Sun's southern hemisphere displaying a surge in activity.

Pesnell is a member of the NOAA/NASA Solar Cycle Prediction Panel, a group of solar physicists that assembled in 2006 and 2008 to forecast the next solar max. "At that time, the Sun was experiencing its deepest minimum in nearly a hundred years," Phillips' article explained. "Sunspot numbers were pegged near 0 and x-ray flare activity flat-lined for months at a time." The panel issued the following statement at the time, explaining its prediction:

"The Solar Cycle 24 Prediction Panel has reached a consensus. The panel has decided that the next solar cycle (Cycle 24) will be below average in intensity, with a maximum sunspot number of 90. Given the date of solar minimum and the predicted maximum intensity, solar maximum is now expected to occur in May 2013. Note, this is not a unanimous decision, but a supermajority of the panel did agree."

But according to Pesnell -- given the lack of solar activity in February 2013 -- a maximum in May now seems unlikely. "We may be seeing what happens when you predict a single amplitude and the Sun responds with a double peak," he said. -- Thanks to NASA, Dr Tony Phillips and Science@NASA for the information

Suggested by "Wes Boyd" <wboyd@theradiocenter.com>

FEMA Private Sector Resilience Tip of the Week 3/11/13: Assess your organization's emergency preparedness with the Ready Rating system: <http://www.readyrating.org/>.
<http://www.fema.gov/redirect?url=http%3A%2F%2Fwww.readyrating.org%2F>

NEWS, PRESS RELEASES, AND GENERAL INTEREST FROM THE ARRL AND ELSEWHERE

Daniel K7DGL found a cool new product - the SatSleeve <<http://gizmodo.com/5991685/this-case-turns-your-iphone-into-a-satellite-phone>> from Thuraya - a case that turns an iPhone into a satellite phone capable of voice and SMS messaging. The Thuraya service does not cover the Western hemisphere, but it's not unreasonable to expect Inmarsat or Hughes to be thinking about similar products.

If you have more than one manufacturer's handheld radio, you'll be glad to hear of an open source tool used to program different radios called CHIRP <<http://chirp.danplanet.com/projects/chirp/wiki/Home>>. At the moment it covers the basic programming needs - frequency, tone, offset, etc - of a wide variety of handhelds. Since it is an open source project, there may be additional features added in the future. (Thanks, John KF5KI)

I found out an interesting trend here in Southern Oregon about getting the word out on different events, i.e. club meetings, special events and ham classes. That while the media such as radio, TV, and newspapers was getting some results, it wasn't as good as I thought it should be. After thinking about it for awhile I tried an older method in conjunction with the media that works much better and that is to put up flyers in convenience stores, grocery chains, libraries etc and it seems to really get the message across. I have polled the new people for classes and events for feedback. It seems people really like the original bulletin board for community information because it seems more real. 73 - Joe AF7GN

Smart Phone App Lets Users Report Precip. on The Go NOAA News Staff, Silver Spring, MD

It's now easier than ever to be a part of NOAA's weather research. The NOAA National Severe Storms Laboratory (NSSL), in partnership with the University of Oklahoma (OU), has launched a free app that let users anonymously report precipitation from their Apple or Android mobile device. With the mPING app, anyone can send a weather observation on the go. The user simply opens the app, selects the type of precipitation that is falling, and hits submit. The user's location and the time of the observation are *Continued page 9*

MORE GENERAL INTEREST ITEMS FROM PAGE 8

automatically included in the report. All submissions become part of a research project called Precipitation Identification Near the Ground (PING), NSSL and OU researchers will use mPING submissions to build a valuable database of nationwide observations.

You can view all reports in the PING database on the project's web site. <<http://www.nssl.noaa.gov/projects/ping/display/>> To further analyze the data, researchers will compare the reports with what radars detect and use the information to develop new radar and forecasting technologies and techniques.

The apps are available on iTunes or Google Play for use on phones and tablets. They were developed and are owned by OU. Learn more by viewing a YouTube video about the new app.

The Legion to Feature HAM Radio Exhibit - The fourth-floor library at The American Legion National Headquarters in Indianapolis is hosting an exhibit of items from its archives that demonstrate the organization's long interest in, and association with, amateur radio. The exhibit includes articles from The American Legion Magazine, old radio equipment, booklets and fliers, and more. The Legion has been promoting the usage of amateur radio among its members and others since the 1930s. The American Legion Amateur Radio Club (TALARC) was created in 2011. Currently, membership is over 1,000 and local chapters are springing up across the country. The exhibit will be on display at least through the NEC Spring Meetings in May. Learn more about TALARC: <www.legion.org/hamradio>.

ARLB007 FCC Grants ARRL's Request for Temporary Waiver for TDMA Systems

Acting upon a subsequent request by the ARRL, the FCC issued an Order (WT Docket No. 12-283) on March 25, granting a temporary waiver to transmit communications on amateur service channels above 30 MHz using single time-slot Time Division Multiple Access (TDMA) systems. The temporary waiver was granted pending the resolution of a related rulemaking proceeding (RM-11625). The waiver can be found in PDF format at, http://transition.fcc.gov/Daily_Releases/Daily_Business/2013/db0325/DA-13-542A1.pdf.

Currently, amateur stations currently are authorized to transmit messages using telephony and data emissions. The ARRL noted in its request that Amateur Radio Service licensees have recently established numerous narrowband repeater facilities using multiple time-slot TDMA repeaters and single-slot TDMA handheld digital transceivers in the 70 centimeter (420-450 MHz) band, but Part 97 as it currently stands does not permit amateur stations to transmit single-slot TDMA emissions on Amateur Radio Service channels above 30 MHz.

The FCC stated in its Order that the purpose of specifying emission designators for the Amateur Radio Service "is to relegate the transmission of certain inharmonious emission types to different segments of the frequency bands, while still allowing great flexibility in the types of emissions that may be transmitted by amateur stations." In granting the temporary waiver, the FCC agreed with the ARRL, noting that the digital systems that radio amateurs have recently implemented are "compatible with existing amateur repeater channelization plans."

The FCC also noted that allowing FXE and F7E as phone emissions and emission type FXD as a data emission "is unlikely to result in inharmonious emission types being used in the same segments of the frequency bands. We also conclude that allowing amateur stations to transmit these emission types is consistent with the basis and purpose of the amateur service, specifically to continue to contribute to the advancement of the radio art. We conclude that good cause has been shown for temporary waiver of Section 97.3(c)(5) to allow amateur stations to transmit emission types FXE and F7E as a phone emission and Section 97.307(f)(8) to allow amateur stations to transmit emission type FXD as a data emission. We therefore waive these rules accordingly, conditioned on the outcome of the pending rulemaking proceeding."

I would rather attempt something great and fail, than attempt to do nothing and succeed.

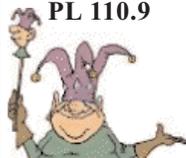
CONGRATULATIONS

New Tech Charmaine Reiter, KD8UKA, passed her test 3/16/13 at the EMA in Lisbon. She and her husband Ron visited our Field Day site in 2012. To send Congratulations to her - their contact info is: "Charmaine Reiter KD8UKA" <KD8UKA@arrl.net>, "Ronald Reiter KD8SEV" <KD8SEV@arrl.net>

April 2013



PREPAREDNESS LEADS TO READINESS

<p>3/31</p> 	<p>1 ARES Net 8:30 PM 146.745 PL 110.9</p> 	<p>2</p>	<p>3 Skywarn Net 8:30 P.M. 146.745</p>	<p>4 Happy Birthday KC8SOY</p> 	<p>5 Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>6</p>
<p>7 No Housework Day</p>	<p>8</p>	<p>9 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast</p>	<p>10 Happy Birthday W8MDB</p> 	<p>11 Happy Birthday N8YMZ</p> 	<p>12 Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>13 Blame Somebody Else Day</p>
<p>14 WRARC Board Meeting 7:00P.M</p>	<p>15 ARES Net 8:30 PM 146.745 PL 110.9 Happy Birthday KD8NXR</p> 	<p>16 WRARC Meeting 7:00P.M</p>	<p>17  @ ITT Tech</p>	<p>18</p>	<p>19 Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>20</p>
<p>21</p>	<p>22</p>	<p>23 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast</p>	<p>24</p>	<p>25</p>	<p>26 Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>27 Comm Unit Meeting 9:00 AM Happy Birthday N8GLK</p> 
<p>28  WaveBender Articles Due</p>	<p>29</p>	<p>30</p>	<p>5/1</p>	<p>5/2</p>	<p>5/3 Comm Unit net 8:00 PM 145.270 WRARC Net 9:00PM 145.270</p>	<p>5/4</p>