



# The Wave Bender



December 2014



WRARC PREZ SEZ

## 2014 Officers:

President: Roy Haren, KD8IJF      kd8ijf@wrarc.net  
VP: Joe Wojtowicz W0JO      kd8rcc@wrarc.net  
Secretary: Kevin Stein, KD8NXS      kd8nxs@wrarc.net  
Treasurer: Maureen Stein, KD8NXS      kd8nxs@wrarc.net  
Past President: Allan Avnet AB8AA      ab8aa@wrarc.net

## Trustees:

Steve Fabry, KC8SOY      kc8soy@wrarc.net  
Chris Monske, WF8U      kd8ely@wrarc.net  
Harry Harker, KD8PQK      kd8pqk@wrarc.net

## Appointed Positions:

Nominating Charman: Ted Filmer, KD8IJE      kd8ije@wrarc.net  
Social: Maureen Stein, KD8NXS      kd8nxs@wrarc.net  
Publicity: Joe Wojtowicz, W0JO      kd8rcc@wrarc.net  
Newsletter/Web: Jane Avnet K8JAA      k8jaa@wrarc.net  
Facebook/Badges/logo Design: John Fabry, KC8SPF      kc8spf@wrarc.net

## Officer's Meeting:

December 09 7:00 P.M. At Eat 'n Park, 8051 Market St., Boardman - All members welcome

## Regular Meeting:

December 16, 7:00 P.M. at Davidson's, 3636 Canfield Rd. in Cornersburgh

Speaker: Ed Brannan;  
Topic: Terrorist Activities

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

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



Hi everyone, November is almost over and it's time to give thanks for family and friends, and to look forward to the next big holiday on December 25.

At our last meeting we held an election for three-year trustee. The vote ended in a tie between Darrin N8DMC and Russ NR8W. As a result we will have a tie-breaking vote at our December 16 meeting. I urge everyone to attend and vote for your favorite candidate.

Also, just a reminder that annual dues are due. See Maureen KD8NXS to pay.

I hope everyone had a safe and happy Thanksgiving and I'll see you all at the meeting on the sixteenth.

73, Roy KD8IJF  
President, WRARC

Our January Meeting will be at Al a Cart Catering. This is s our Annual meeting and installation of our new Trustee. We hope you all plan to join us. Guests Welcome!

## HAM RADIO ON THE RMS QUEEN MARY – W6RO



On a recent business trip to the west coast, I carved out some time to visit The Nate Brightman Wireless room aboard the RMS Queen Mary – [www.queenmary.com](http://www.queenmary.com).

The wireless, or radio room – W6RO, is located atop the RMS Queen Mary, a retired ocean liner that sailed 1001 times primarily on the North Atlantic Ocean from 1934 to 1967. The ship, built in Scotland, sailed on her maiden voyage on September 26, 1934 during the Great Depression and, upon its retirement, has been permanently moored in Long Beach, California since 1967. During World War II, the ship was converted into a troopship and ferried nearly one-half million Allied soldiers between the US and England for the duration of the war.

It was kind of an ironic and nostalgic visit for me as I had toured the Queen Mary about 25 years ago when I worked for a company headquartered in Long Beach. However, at the time, I wasn't an amateur radio operator and didn't even know the radio room existed. Today, the Queen Mary serves as a tourist attraction featuring restaurants, a museum, hotel and, of course, the radio room. CBS News recently did a story on the ship which can be viewed at <http://www.cbsnews.com/news/a-salute-to-the-queen-mary/>

The radio room is operated by The Associated Radio Amateur Of Long Beach, Inc. in cooperation with The Queen Mary. There is a great video on YouTube.com about the radio room at [http://www.youtube.com/watch?v=U6\\_QisIFcK0](http://www.youtube.com/watch?v=U6_QisIFcK0), along with several more.

I only learned of the existence of the radio room several months ago and wanted to schedule a visit as I knew I had a forthcoming business trip out there. You just can't "walk on" the ship, however, and expect to be admitted to the radio room, but must make arrangements with the radio club that operates the facility, in advance, if you plan on getting in to the radio room. Many thanks to the radio club's Gerald Fullerton, KD6JBL, who was kind enough to drive nearly one hour from his home to meet me there. Gerald was able to get us in through the stern of the ship (at no cost) and, believe me, it's quite a hike from ground level to the top of the ship climbing many flights of stairs.

Once I got there, there were two other radio club members who were working the station. In order to operate any of the radios, you must bring and show them a valid amateur radio operator license and provide some information about yourself including your photo ID. Once the preliminaries were done, I was then able to attempt some QSOs on their HF gear. If you view the YouTube video above, you'll notice an interesting mix of equipment in the radio room. There is the old radio-telephone equipment that was used when the ship traversed the North Atlantic Ocean, and there is also modern amateur radio gear custom-built in to the radio room. Right outside the radio room, at the top of the ship, there was an array of HF, VHF and UHF beams, verticals and other antennas that I believe covered just about every amateur radio band available.

It was early afternoon and band conditions weren't that great, but I tried about 4 or 5 CQ's on 20 meters and eventually made a couple of local contacts on the 2-meter band. They keep a paper log in the radio room of all contacts made regardless of mode or band. If you do make some contacts, they will give you a "Guest Operator



Certificate" commemorating your visit. I've sent the certificate along with several photos in with this article.

Overall, it was a very interesting experience to, once again, visit the RMS Queen Mary, but this time be able to do something amateur radio related, have some fun and learn more. I'd like to thank The Associated Radio Amateurs Of Long Beach, Inc., especially Gerald Fullerton, KD6JBL, Jim, W7FTT and Karen, N6PJL for all their help and hospitality. If you're ever in southern California, I'd highly recommend setting aside some time to visit the Queen, especially the wireless room.

73, Joe, W0JO, VP

## THE END OF THE YEAR... ONCE AGAIN!

Hi, all. Here we are at the end of this year already. Once again that brings us to our usual end of the year activities--- membership renewals and the After the Holidays Dinner Meeting reservations. It seems like just yesterday that we were doing all this for 2014. Time really flies!

First we will talk about membership renewals. "The dues are due" anytime between now and January 31, 2015. The dues are \$20.00 for the first person in the household if that person is under 65 years of age and \$5.00 for each subsequent member who is in the same household. The senior dues for the first person in the household who is 65 years of age or older is \$16.00 with \$5.00 for each subsequent member from the same household. To renew you do not have to fill out another application form unless something pertinent like address, phone number, call sign, e-mail address, etc. has changed. If any of these things have changed, please download a new form from the web site and fill it out before turning it in to me with your dues payment. This helps us keep up with current information for everyone and is greatly appreciated. If nothing has changed, you can just give me your dues payment by January. Many thanks to those who have already renewed.



There are a couple of ways that you can pay your dues. They can be done by either cash or personal check, payable to WRARC, and can be given to me at the December general meeting or January After the Holidays Dinner Meeting or at any other time in between that you see me. I am able to make change for cash payments. Dues payment checks can also be mailed to me at:

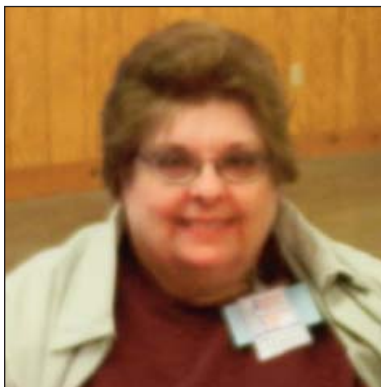
Maureen Stein KD8NXS  
3088 Southwind Tr.  
Poland, Ohio, 44514.

I hope everyone will be renewing and I look forward to hearing from you.

Next we have the After the Holidays Dinner Meeting coming up on Sunday, January 11, 2015, at 3:00 P.M. at A La Cart Catering in Canfield. We are now taking reservations and payments for this too. The cost is \$17.00 per person and it is always a very good time for all. Don't forget, this party is not only for club members, but for your entire families and/or any other guests you would like to bring.

We started the sign-up sheet around at the November general meeting and it will be around again at the December general meeting. You can also sign up and pay at any time you see me as well. If you are not able to attend the December meeting and would like to come to the party, you can always call me at 330-757-4963 to be added to the list. If you call and get the voice mail, you can leave a message and I will get it. Please leave me your name, call sign, number in your party, and your phone number in case I would need to call you for anything related to the party. Payments by personal check (\$17.00 per person in your party, payable to WRARC) can be made and mailed to me at the above address.

I need to have all reservations and payments turned in by January 4, 2015, when I have to give a final number of attendees to the venue. This is the number that they will prepare for and the club will be liable to pay this amount. We always pay by one large check from the club treasury on the day of the event. The number they have prepared for is what we must pay. That is why it is necessary for all attendees to be paid ahead so that amount will be deposited into our club checking account. This must be done prior to January 4 (the date I need to call in the final number) to be included in the count. Once again, this is a fun time for everyone and it is meant to be primarily social, even though a very brief business meeting will take place. There will be no other January meeting at Davidson's. Monthly general meetings at Davidson's will resume February 17, 2015.



I hope to see you all there. Please feel free to call me with any questions. Dress is always comfortable casual to a little bit dressy casual at most. Enjoy! My best wishes to all for a very happy, Holiday Season..

73, Maureen KD8NXS



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

**145.270, PL -110.9**

**Upcoming Net Control Operators**

Dec. 5	Joe, W0JO
Dec. 12	Dave, KC8WY
Dec. 19	Darron, N8DMC
Dec. 26	Bob, KD8YYH

**2015**

Jan. 2	Al, AB8AA
Jan. 9	Chris, WF8U
Jan. 12	Jane, K8JAA
Jan. 23	Joe, W0JO
Jan. 30	OPEN

**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.**

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; KC8HCQ, AB8AA, KC8UNR, W0JO, KD8NXS, K3LR, KD8IJF, N8SY, W5YI, the ARRL and the World-Wide Web.



## RUN OFF ELECTION

**Darrin Cannon, N8DM****Russ Williams, NR8W**

Last month's election ended in a tie between Darrin Cannon, N8DMC, and Russ Williams, NR8W. We need your vote to settle this wonderful dilemma. Either will do an excellent job for our club, but not without your vote. Put this date in red on your calendar - December 16!

## WHAT'S COMMING UP?

Dec. 9	Board meeting at Eat 'N Park, Boardman, 6:00 P.M.
Dec. 16	Meeting at Davidson's - Run off election! Speaker Ed Brannan Topic; Terrorist Activities
Dec. 17	Testing at ITT - Contact Al 330-549-3051
Dec. 25	Merry Christmas from all of us!
Jan. 11, 2015	After the Holidays Annual Dinner/Meeting/Installation of Trustee,
Jan 29	Extra Class starts



**New** WRARC Simplex Frequency 146.565

**DUES ARE DUE, PAYABLE BY JANUARY 31, 2015**



"The Budget should be balanced, the Treasury should be refilled,  
public debt should be reduced,  
the arrogance of officialdom should be tempered and controlled,  
and the assistance to foreign lands should be curtailed, lest Rome will become bankrupt.  
People must again learn to work instead of living on public assistance."

Cicero 55 BC

## REVERSE TOWER PARTY

First I would like to thank all who came out to help. Like many of us things happen and we have to move to a new location. Well, that's what I had to do. I had to move from my current QTH of Newton Falls, to Niles! This of course meant I had to take down all my antennas and towers.

We lucked out and had a very nice day to have what I call a "reverse tower party." Those who helped were : Al, AB8AA and Jane, K8JAA; Russ NR8W; Chris, WF8U; Joe, W8KNO; John, W8ZL and Lorraine, KD8BHX; Jim, KK8A; Doug, KC8FQB, and his bucket truck!

Some of these Hams drove over 30 miles to help. Both towers, and antennas were down within 2.5 hours! Then we had to wait as the pizza and chicken were late! I hope to get something up in the air soon at my current QTH.

73, Mike KC8UNR



### ARE YOU LOOKING FOR AN EXTRA CLASS?

One Starts Jan 29, 2015 at ITT-Tech , 6:30 P.M. till 9:00 P.M.

Test will be March 26, 2015

Cut off date to get your book is January 8, 2015

After that no one will be accepted to join the class unless cleared by me.

For information and books contact Al, AB8AA 330-207-3296 or [ab8aa@arrl.net](mailto:ab8aa@arrl.net)

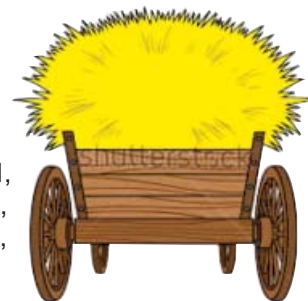


## THANK YOU

Hi Everyone,

Well, the 4H Hayride, held in Boardman Park, is over for this year. The kids want to thank everyone that came out.

The Hams that came out and gave their time were: Stave, KC8SOY; Rich, KB8YHC; Jan, KC8PUO; Roy, KD8IJF; Darrin, N8DMC; Ed, KD8NKVQ(?); Chris, WF8U; Paul, N8GKE; Branden, KD8NXP; Bob, KD8YYH; Terri, KD8YYE; Allan, AB8AA; John, KE8SPF. We had two new Hams come out to help Andrew KD8YRA and Joe Hanisko, (KD8ZRU as of 10/30/14) who did not have a call sign as of the Hayride.



We stopped some people trying to come into the park, we could have used a little more help so keep us in mind next October. We will start next year: Friday 10/16 and Saturday 10/17; Friday 10/23 and Saturday 10/24; Friday 10/30 and Saturday 10/31. Thank you all

Bill Egan, KD8HCQ  
Coordinator

## WRARC GOINGS ON

There are several things happening in the WRARC world. The Elmer's will be helping some of the members with radio related projects.

One member is having a lightning protection box installed at his home. It will consist of PolyPhasers and grounds on the outside with heavy braid to his inside ground system. There will also be a coax ground board on the inside to keep all the coax grounded when off the radios. This is a good thing to do for any installation. It does help to keep your shack safe.

Another member has a HF antenna that will be installed this weekend, 11/22, so he can get on the air and play.



There are a lot of interesting things going on this winter. Some fun contests for RTTY, CW, Digital as well as SSB. Good time to listen to how a contest is run and give some of the operators a few points. It is also a good time to check out how to operate on and tune in RTTY and some of the odd digital modes. Fldigi is a real good software package to work on digital.



If you get the QST from ARRL there are lists of contests and special event stations that you can work. Special events are called paper chasing due to the certificates that you can get for working them.

It is a good time to work on any build projects that you have in mind. It is also a good time to study and upgrade your license. If there is enough interest in an Extra class we might do one. However if you are interested, get a book ASAP and start studying. They are \$26 and I have them for sale.

That's all for now. 73, AB8AA

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

This McDonald's commercial has to be one of the best ever! The commercial was done in Brazil 2014, celebrating the World Cup. Enjoy this 'You Tube' presentation. It's really fun! Bet you watch it twice. <https://www.youtube-nocookie.com/embed/-T7zyezBkuY?rel=0>

## 73

73 -- Ham lingo for "best regards." Used on both phone and CW toward the end of a contact.

The first authentic use of 73 is in the publication *The National Telegraph Review and Operators' Guide*, first published in April 1857. At that time, 73 meant "My love to you!"

In the National Telegraph Convention, the numeral was changed to a friendly "word" between operators.

In 1859, the Western Union Company set up the standard "92 Code." A list of numerals from one to 92 was compiled to indicate a series of prepared phrases for use by the operators on the wires. Here, in the 92 Code, 73 changes to "accept my compliments," which was in keeping with the florid language of that era.

Over the years from 1859 to 1900, the many manuals of telegraphy show variations of this meaning. Dodge's *The Telegraph Instructor* shows it merely as "compliments." The *Twentieth Century Manual of Railway and Commercial Telegraphy* defines it two ways, one listing as "my compliments to you;" but in the glossary of abbreviations it is merely "compliments." Theodore A. Edison's *Telegraphy Self-Taught* shows a return to "accept my compliments." By 1908, however, a later edition of the Dodge Manual gives us today's definition of "best regards" with a backward look at the older meaning in another part of the work where it also lists it as "compliments."

"Best regards" has remained ever since as the "put-it-down-in-black-and-white" meaning of 73 but it has acquired overtones of much warmer meaning. Today, amateurs use it more in the manner that James Reid had intended that it be used --a "friendly word between operators."

The Ham ediquette says we greet one another in our writings using '73' (not best 73, or many 73), and not sincerely or other similar formal expression. Making this number plural (73s) is incorrect since it is already plural. 73s would mean best regardses, which make no sense.

## THE RADIO AMATEUR'S CODE

**The Radio Amateur is . . .**

**Considerate** - He never knowingly operates in such a way as to lessen the pleasure of others

**Loyal** - He offers loyalty, encouragement and support to other Amateurs, local clubs, the IARU Radio Society in his country, through which Amateur Radio in his country is represented nationally and internationally.

**Progressive** - He keeps his station up to date. It is well-built and efficient. His *operating practice* is above reproach.

**Friendly** - He operates slowly and patiently when requested; offers friendly advice and counsel to the beginner; kind assistance, cooperation and consideration for the interests of others. These are the marks of the Amateur spirit.

**Balanced** - Radio is a hobby, never interfering with duties owed to family, job, school or community.

**Patriotic** - His station and skills are always ready for service to country and community.

— adapted from the original *Amateur's Code*, written by Paul M. Segal, W9EEA, in 1928



## AN INVITE

I'm excited to announce that DX Engineering is welcoming Martin F. Jue K5FLU and his MFJ family of companies to our headquarters near Akron, Ohio. We're calling it "MFJ Day at DX Engineering," and I'm extending an invitation to you and your club members. It will be held on Saturday, January 10th from 9a.m. to 2 p.m., at our showroom inside the Summit Racing Retail Super Store at 1200 Southeast Ave. in Tallmadge, Ohio.



Shake off the Winter doldrums and make some eyeball QSOs. We'll also open up our warehouse, so you'll be able to get super deals on open-box gear. Plus, all MFJ brands – Ameritron, Cushcraft, Hy-Gain, Mirage, MFJ, and Vectronics – will be on sale.

Watch for more details at [DXEngineering.com](http://DXEngineering.com) and on our Facebook page. In the meantime, add the date to your calendar of events and spread the word to your club members and friends. I hope to see you here!

Have a great holiday,

Tim Duffy, K3LR  
Chief Marketing Officer and General Manager  
DX Engineering  
1200 Southeast Ave.  
Tallmadge, OH 44278 USA  
330.572.3200  
[www.DXEngineering.com](http://www.DXEngineering.com)

## CONGRATULATIONS!

ARRL members in the Western Pennsylvania Section have elected elite contester Tim Duffy, K3LR, as their new Section Manager. In a three-way race, Duffy polled 545 votes, Cynthia L. Rushton, WB3CNJ, received 83 votes, and Paul Plants, W3PLP, 62 votes. Ballots were counted Tuesday, November 18, at ARRL Headquarters. Western Pennsylvania Section Manager John Rodgers, N3MSE, of Butler decided to not run for another term after serving since October 2007. He also was Section Manager from 2000 to 2003.

Duffy, who lives in West Middlesex, Pennsylvania, has been an ARRL member and radio amateur for 42 years. He has served for 4 years as the Atlantic Division representative to the ARRL Contest Advisory Committee. Duffy also has been an active member of ARES and RACES and has extensive net and traffic-handling experience.

ARRL Bulletin 21 ARLB021



Washington, Nov 1 (IANS) If you are terrified by maths, install an app that will help you quickly and accurately get over calculations. Called PhotoMath, "the world's first camera calculator" is a free mobile app that can read and solve maths problems. Using the smartphone's camera, take a picture of a printed equation and watch the app solve the problem in real time by clicking through problem-solving steps, media reports said.

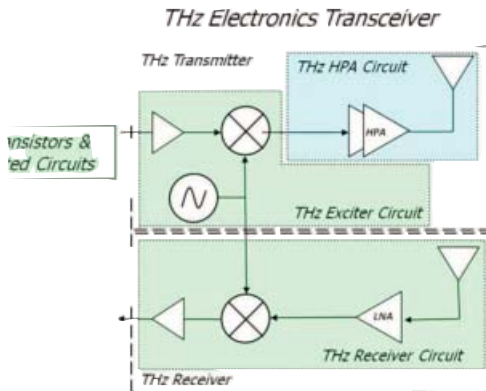


The app, developed by London-based firm MicroBlink, can be downloaded from Apple's iStore. The app is optimised to be used for iPhone and iPod.

## GUINNESS WORLD RECORD: AMPLIFIER OPERATES AT A SPEED OF ONE TRILLION CYCLES PER SECOND

[www.networkworld.com/article/2840906/lan-wan/guinness-world-record-amplifier-operates-at-a-speed-of-one-trillion-cycles-per-second.html#tk%2ENWWNLE\\_nlt\\_daily\\_pm\\_2014-10-30](http://www.networkworld.com/article/2840906/lan-wan/guinness-world-record-amplifier-operates-at-a-speed-of-one-trillion-cycles-per-second.html#tk%2ENWWNLE_nlt_daily_pm_2014-10-30)

Northrop Grumman-developed system is 150 billion times faster than previous record holder could lead to faster networks, better radar - Network World | Oct 30, 2014 10:13 AM PT



DARPA said today that a solid-state amplifier developed under its Terahertz Electronics program was recognized by Guinness World Records as the fastest ever recorded -- one terahertz (1012 GHz), or one trillion cycles per second—150 billion cycles faster than the existing world record of 850 gigahertz set in 2012.

Northrop Grumman developed the amplifier known as the Terahertz Monolithic Integrated Circuit (TMIC) and said the device exhibits power gains several orders of magnitude beyond the current state of the art.

**+More on Network World: IBM/DARPA turn out brain-like 5-billion transistor superchip+**

<http://www.networkworld.com/article/2462846/ibm/ibm/darpa-turn-out-brain-like-5-billion-transistor-superchip.html>



“Gain, which is measured logarithmically in decibels, similar to how earthquake intensity is measured on the Richter scale, describes the ability of an amplifier to increase the power of a signal from the input to the output. The Northrop Grumman TMIC showed a measured gain of nine decibels at 1.0 terahertz and 10 decibels at 1.03 terahertz. By contrast, current smartphone technology operates at one to two gigahertz and wireless networks at 5.7 gigahertz,” DARPA stated.

The agency went on to say that current electronics using solid-state technologies have largely been unable to access the sub-millimeter band of the electromagnetic spectrum due to insufficient transistor performance.

“To address the ‘terahertz gap,’ engineers have traditionally used frequency conversion—converting alternating current at one frequency to alternating current at another frequency—to multiply circuit operating frequencies up from millimeter-wave frequencies. This approach, however, restricts the output power of electrical devices and adversely

affects signal-to-noise ratio. Frequency conversion also increases device size, weight and power supply requirements,” the agency stated.

**+More on Network World: DARPA technology uncovers counterfeit microchips+**

<http://www.networkworld.com/article/2690353/security0/darpa-technology-uncovers-counterfeit-microchips.html>

“This breakthrough could lead to revolutionary technologies such as high-resolution security imaging systems, improved collision-avoidance radar, communications networks with many times the capacity of current systems and spectrometers that could detect potentially dangerous chemicals and explosives with much greater sensitivity,” said DARPA program manager Dev Palmer.

Northrop-Grumman recently demonstrated an all-silicon, microchip-sized system on a chip that runs at 94 GHz. DARPA said that this chip is the first time a silicon-only package has achieved such a high frequency, which falls in the millimeter-wave range.

The all-silicon system on a chip transmitter uses a digitally assisted power amplifier that adapts amplifier performance characteristics to changing signal requirements. This capability according to DARPA allows for simultaneous optimization of efficiency and linearity—a key goal of all transmitters and power amplifiers designed to quickly deliver large amounts of data.

## RILEY HOLLINGSWORTH TO NORTH CAROLINA CLUB: AMATEUR ENFORCEMENT "VERY MUCH ALIVE"

11/19/2014 - Former FCC Special Counsel for Enforcement Riley Hollingsworth, K4ZDH, told the Forsyth Amateur Radio Club that the FCC is still active in the Amateur Radio enforcement arena, even though it's not always apparent. He spoke to the Winston-Salem, North Carolina, club on November 10.



"You may not think so, but enforcement is very much alive," said Hollingsworth, who — although retired — still keeps up with goings on at the FCC and with the enforcement activities of his successor, FCC Special Counsel Laura Smith. "You just don't hear a lot about it, as you used to," he said, because ham radio news media report only the "big announcements" these days. During his tenure, Hollingsworth routinely released preliminary letters of inquiry and warning notices to radio amateurs suspected of breaking the rules. Now, he said, the FCC is using "the IRS model" of releasing information, partly in response to privacy considerations.

"You only see final actions [now]," he said. "So, you don't think a lot's being done, but it's all behind the scenes, and you don't know about it."

What is not helpful, he told the club members, is e-mailing or writing Laura Smith or the FCC proper to rudely demand Commission attention to particular enforcement issues. Hollingsworth said the FCC has received "nasty e-mails to FCC personnel" concerning suspected ham radio rule breaking.

"I'm talking about horrible e-mails, threatening e-mails, threatening to the degree that the security office sometimes gets involved," he said. "We've got to stop this." Hiding behind the anonymity of the Internet, he stressed, gives some people within the FCC a bad impression of ham radio and could prove counterproductive.

Hollingsworth suggested that hams interested in keeping up with enforcement subscribe to the FCC Daily Digest or view it on the FCC website. "You read these and you get an idea of how busy the FCC is across the board," he said. The FCC also documents Amateur Radio Service enforcement actions on its website. The page is not frequently updated, however.

Hollingsworth pointed out that the FCC is still running two parallel websites, since many were unhappy with the new site when it was unveiled a few years ago. The old — or "transition" — site remains fully functional.

Hollingsworth praised FCC Chairman Tom Wheeler for his role in helping to get the agency on a more active footing, and Enforcement Bureau Chief Travis LeBlanc, who was appointed last March. "I'm very impressed with him," Hollingsworth said of LeBlanc. The Enforcement Bureau is the FCC's largest bureau.

In remarks now familiar to many who have heard him speak at Dayton Hamvention and elsewhere, Hollingsworth also warned his audience members against getting into on-the-air spats with rude or careless operators.

"Don't engage people, and don't humor the idiots," he said. "Stupidity can't be regulated, no matter how good the rules are. Just turn the big knob. Every rig has one."

Hollingsworth speculated that a lot of interference that is considered deliberate actually is accidental, but that hams encountering it automatically assume offense. He said the number of rule breakers represent only a small fraction of a percent of the Amateur Radio population, however, and "they're getting whittled down."

"Our responsibility is to get Amateur Radio through the next 100 years," Hollingsworth concluded. "You must recruit. You've got to keep these newcomers interested" and show them everything ham radio has to offer.

Today's hams, he said, ought to be presenting a good example for those who follow. "It's time for us to leave a legacy for this avocation," he said.

Hollingsworth's complete talk appears as Episode 174 of the online Amateur Radio television series HamRadioNow, produced by Gary Pearce, KN4AQ. — Thanks to HamRadioNow and Gary Pearce, KN4AQ



## "AMATEUR RADIO PARITY ACT OF 2014" ATTRACTS MORE THAN A DOZEN NEW CO-SPONSORS



The list of co-sponsors for the Amateur Radio Parity Act of 2014, H.R. 4969, has grown to 63. Sixteen new co-sponsors signed aboard as the 113th Congress re-convened for its final session before adjournment. ARRL Regulatory Information Manager Dan Henderson, N1ND, is urging ARRL members to keep in contact with their Congressional representatives and to encourage them to become co-sponsors to the bill.

"We are excited about the addition of 16 new co-sponsors when Congress reconvened after the November mid-term elections," Henderson said. "Each new co-sponsor brings us one step closer to achieving our goal of getting HR 4969 enacted. We have a long way to go - but we are definitely moving in the right direction."

A few more co-sponsors may still be in the wings. The current tally represents a considerable expansion of support from the number of US Representatives who had signed aboard as Congress adjourned prior to the mid-term elections. All 16 of the latest co-sponsors were re-elected on November 4.


H.R. 4969, which was introduced in the US House of Representatives with bipartisan support in late June, would call on the FCC to apply the "reasonable accommodation" three-part test of the PRB-1 federal pre-emption policy to private land-use restrictions regarding antennas. The limited PRB-1 pre-emption currently applies only to state and municipal land-use ordinances. The FCC has indicated its reluctance to provide the same legal protections from private land-use agreements -- often called covenants, conditions, and restrictions or CC&Rs -- without direction from Congress.

The League has opened a HR.4969 page <<http://www.arrl.org/hr-4969>>. HR.4969 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel's Communications and Technology Subcommittee, which will consider the measure.

# CLASSICALSCIENCE

*by Stephan*

**GREAT  
CHRISTMAS  
GIFTS FOR  
THE  
SCIENCE  
LOVER.**




Antique &  
Vintage  
Science  
Instruments.



Christopher  
Stephan  
Owner



**Wooster, Ohio**  
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e-mail: [classicalsciencebystephan@gmail.com](mailto:classicalsciencebystephan@gmail.com)



Looking for a different Christmas gift and also help our MVAS friends? Here is an idea -

Folks,

I am making a special offer to MVAS members, friends, family. If you (they) purchase any item from my store between now and December 31, 2014, I will donate 10% of the proceeds to the MVAS!!! Please tell your friends, relatives, work mates about this. If they purchase something, simply tell them to email me at the contact on my Etsy web page and mention MVAS, and I will donate 10% of that sale amount to MVAS. The first week of January, I will write a check to MVAS and send it to Steve. The attached ad will appear in the Thanksgiving Day Akron Beacon Journal.

I have items for all ages, and items from a wide variety of areas of science.

ClassicalScience by Stephan  
[www.etsy.com/shop/ClassicalScience](http://www.etsy.com/shop/ClassicalScience)  
Chris Stephan  
MVAS member

# FROSTFEST

The Mid-Atlantic's  
Largest Winter Hamfest!

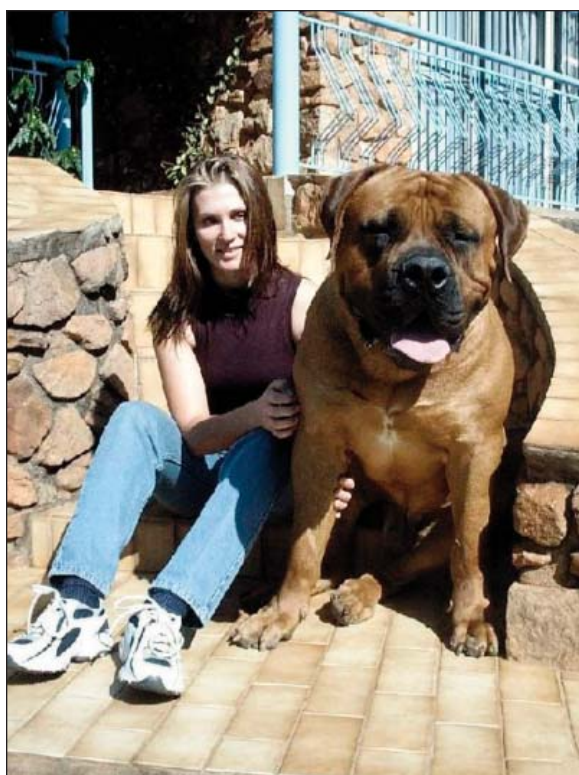
Frostfest 2015 is now BIGGER AND BETTER! New and improved!!! We now have 10,000 square feet more exhibition space and everything is under one roof! It will be held on Saturday, February 7, 2015 at the Richmond (VA) Raceway Complex. Two hundred feet to the right of buildings we've used for years is our new space. Everything you need to know about the Mid-Atlantic's Largest and First Hamfest of the year is right here! <http://www.frostfest.com>! Check it out! Hurry and get your tickets and tables!

We're looking forward to providing a host of vendors, plenty of forums and group meetings, as well as being the Virginia State ARRL Convention. Online flea market table sales are active, reflecting the new Exhibition Hall space! If you have questions that aren't answered here, please use the Contact Us page. [http://frostfest.com/wp/?page\\_id=25](http://frostfest.com/wp/?page_id=25)

The Frostfest website at <http://www.frostfest.com> has all the details. One large floor of commercial vendors space, flea market sellers, and club tables! VE testing, forums, meetings, and presentations will be on the second floor (handicapped accessible, and no walking across a parking lot for license testing). A new and improved QSO Lounge, more ticket windows with easier access, and easier parking! More space on the main floor. Lots of good things!

We all hate waiting. That is why many pedestrians don't have the patience to wait at the traffic light, preferring to cross whenever they deem fit. To increase pedestrian safety, an idea was born: What if we make the red pedestrian traffic light so entertaining, people would be happy waiting? Here is what happened with that idea. [http://youtu.be/SB\\_OvRnkeOk](http://youtu.be/SB_OvRnkeOk)

13 November 08:07 - You must watch this Sainsbury's OFFICIAL Christmas 2014 Ad Presenting the new Sainsbury's Christmas advert. Made in partnership with The Royal British Legion - <https://www.youtube.com/watch?v=NWF2JBb1bvM&sns=fb>



Very interesting and fun.

Answer 15 correctly to pass.....

Click here for the quiz & answers

<http://www.billoreilly.com/quizarchive?action=viewQuiz&categoryID=4&quizID=757>

The Bill O'Reilly: U.S. Citizenship Quiz

## DOG FOR SALE

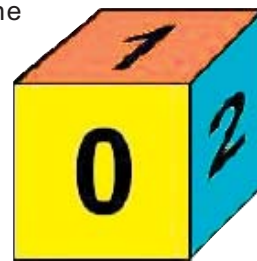
Dog For Sale But free to good home. Excellent guard dog.

Owner cannot afford to feed him anymore, as there are no more drug pushers, thieves, murderers, or molesters left in the neighborhood for him to eat. Most of them knew Jethro only by his Oriental street name, Ho Lee Schitt.

## PUZZLER PROBLEM:

You have two wooden cubes and a broad black felt-tip pen. You want to be able to use the cubes to represent the numeric day of the month by writing one digit on each of the faces of the two cubes.

How do you do this so that any date of the month 01 through 31 may be displayed using both cubes?



Unfortunately neither the answer nor the names of those submitting correct answers were published— until now. A cube has six sides so a total of twelve numbers can be put on the cube. Since you need to represent the numbers 01 through 31 both cubes must have the digits 0, 1 and 2. Duplicate ones and twos are needed for 11 and 22, and duplicate zeros are needed because all single digit numbers need a zero. The next six of the remaining numbers 3 through 8 occupy the six remaining sides.

To create a nine you need only invert the six. Here are the only two who supplied correct answers in the order received, and their answers

10/31 Hi Jane

Here is my answer to the cube puzzle

Cube one 012345

Cube two 012678

The six can be turned upside down to make a 9

KC8WY

First block has 0,1,2,3,4,5

2nd block has 0,1,2,6,7,8

the 6 can be turned upside down to make an 9

KD8PQN, Brent Thompson

Sometimes older people have trouble taking to new technology. A daughter is visiting her father and is helping in the kitchen. She asks: "Tell me Dad, how are you managing with the new iPad we gave you for your birthday?"

This 30 second clip is spoken in German, but understandable in any language.

<http://www.snotr.com/embed/8965>



## BIRTHDAYS THIS MONTH

KC8PD	Jim Aylward	12/1
KD8STJ	Cory Beight	12/1
KB3WPD	Stan Adamski	12/8
KD8SEV	Ron Reiter	12/17
KD8UKA	Charmaine Reiter	12/17
KB8QDZ	James Jickess	12/18
KD8WDK	Warren Drescher	12/25
KA8TZX	William Wolfe	12/30







# December 2014



PREPAREDNESS LEADS TO READINESS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 ARES Net 8:30 PM 146.745 PL 110.9	2	3 Skywarn Net 8:30 P.M. 146.745	4 Wear Brown Shoes Day	5 WRARC Net 9:00PM 145.270  Elmers Net right after	6
7	8	9 Ham Breakfast Eat'n Park Boardman 8:30 A.M.  Board Meeting Eat'n Park Boardman 7:00 P.M.	10	11	12 WRARC Net 9:00PM 145.270  Elmers Net right after	13
14	15 ARES Net 8:30 PM 146.745 PL 110.9	16 WRARC Meeting 7:00P.M.	17 Testing @ ITT-Tech  	18	19 WRARC Net 9:00PM 145.270  Elmers Net right after	20
21  Winter Begins  	22	23 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast	24	25  	26 WRARC Net 9:00PM 145.270  Elmers Net right after	27
28	29   WaveBender Articles Due	30	31  	2015  	1/2 WRARC Net 9:00PM 145.270  Elmers Net right after	1/3