

# Zero Beat



**Alliance Amateur Radio Club**

Volume XXIX, no 2

<http://www.w8lky.org>

February, 2015

**Serving the Tri-County area since 1986**

**FINAL ISSUE - See Page 3 For more Info**

**KC8ZEH, Tomas "C" is 2014 Ham Of The Year**



2013 Ham Of The Year Ben, KD8KMQ (L) presents plaque to  
2014 Ham Of The Year, Tomas, KC8ZEH (R)

Well, it took a little extra time, but Ben, KD8KMQ finally managed to dispose of the 2014 Ham Of The Year plaque which was intended for Tomas, KC8ZEH.

Due to other commitments, Tomas was unable to attend the clubs Christmas party in December.

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## AARC Meetings

The Alliance Amateur Radio Club meets on the Second Wednesday of each month, at the Alliance Community Hospital. For times, and program information, check the meeting announcement on the last page of this newsletter, Talk-in on either of the club repeaters. Meetings begin at 7:30 PM. Visitors are always welcome.

## Find Us Online:

**Web:** [www.w8lky.org](http://www.w8lky.org)

**E-mail:** [W8lky@w8lky.org](mailto:W8lky@w8lky.org)



## AARC Repeaters

### 2 Meters

145.370 (-) W8LKY  
-W8LKY Echolink node

### 440 MHz

442.350 (+) W8LKY

## Nets

Thursday is our "net night," with the following nets held, beginning at 8 PM

### Ten Meters

8:00PM 28.100 MHz (CW)  
8:30PM 28.400 MHz (SSB)

### Two Meters

9:00 PM 145.37 MHz W8LKY (-)

## Homeland security Net

(Meets on the last Tuesday of each month  
8:00 PM 147.51 Simplex)

## Rambling by John, KD8MQ



Hi everyone, we've got a lot coming up in the next few months, but first, let's look back at winter field Day. In a few words, it was great! Let's have a look at

### John's top 10 reasons why WFD was great

1. We operated portable
2. I got to play with the potato gun
3. Rex, NX8G, & Bryan, N8WD as Co-Chairmen took care of the stations from start to finish (with the exception of one antenna)
4. We had a respectable turnout of operators.
5. Dinner was awesome!
6. We achieved the "three F's" (**F**ood, **F**un, and **F**ellowship).
7. The weather wasn't too bad, unless you count the freezing rain Saturday night.
8. Sunday's weather for teardown was predictable. Yep, it snowed, but it was nothing like the "Snow-Ma-Geddon" that was forecast for that day.
9. Someone else is handling the contest entry.
10. All I had to do was come out, hang an antenna, and operate.

And there you have it. My top ten reasons why I had a blast that weekend. Eat your heart out Letterman!

So, see how much fun that was? We still need a chairman for ARRL Field Day in June. Any takers? No, It won't be me this year.

Remember a couple months ago when I passed around a sign-up sheet for club programs you'd like to see? Well, I still have that. In fact, it hangs on my bulleting board as a reminder.

This month, we'll scratch one item off that list. James, KD8VT is coming to speak on "**Grounding**".

**In March**, we have a double program planned. Before the meeting, a representative from Meals On Wheels is coming to do a short presentation. Then after the meeting, Frank, W8ETZ, and Anthony, K8ZT will be explaining the New FM Squares Contest which is coming up in April.

Speaking of April, Look for the 2nd annual **Wacky Key Contest** at the April club meeting. So everyone get building! Let's see what you can come up with this year.

Coming up later that month, make plans to attend the Ohio ARES NVIS Antenna Test. Required equipment for this event will include grill, hamburgers, hot dogs, etc. You get the idea? We'll have more information on the website as plans become more solid.

# Z e r o B e a t

**Well, the time has come.** This is my 159th issue of the Zero Beat; 201st if you count the issues that I did with Pam, N8IAK. If you count the ones where I acted as publisher for N8LVO, then the number is around 217.

Add to that, I now have over 40 issues of the Monday Morning Message under my belt. You can see that it's been a pretty busy 28 years. I'm ready to turn it down a bit, so, I'm hanging up my Zero Beat Editors hat after this issue. Besides, I feel that I've pretty much accomplished all that I set out to do here. So, it's time to move on.

I'll still be doing the Monday Morning Message each week. The minimal formatting of the Message makes it a snap to edit. The material that doesn't fit the format restrictions of the Monday morning Message will find its way to the club website at W8LKY.org. That is actually a good thing, since my attention to the website has not met my expectations. The sad truth is that I just haven't been able to do both the Zero Beat, and do posts to the website. This has been an ongoing problem, so maybe I can solve two issues here.

The Club DX Contest will continue with no change. Look for the results to be posted on w8lky.org.

I apologize to those six of you who are still receiving snail-mailed copies of the Zero Beat. **This will be the last issue of the Zero Beat edited by me.** If you receive a mailed copy, and have an E-mail address, please contact me with it, so I can add you to the Monday Morning Message Mailing list.

I'd like to thank all who have supported me over the years, either by the occasional atta-boy, or by submitting an article, or idea.

Special thanks go to Frank, WA8WHP, and Miriam Sanor for being my proofreaders the last few years.

That's it for this month. See you at the club meeting.

## Alliance ARC DX Contest Continues!

The Alliance ARC DX contest continues until March 31<sup>st</sup>. The object is to see who can work the most countries between October 1<sup>st</sup>, 2014, and March 31<sup>st</sup>, 2015.

Contacts made on any band, DC to Daylight are eligible. It doesn't matter what mode, either. Phone, CW, Digital, FM, we don't care!

You are on the honor system. No LOTW, or EQSL required. No stressing out over getting QSL cards. Just send in your log with those contacts clearly listed along with the contact info (date, time, frequency, signal report).

The prize will be a beautiful certificate, suitable for framing.

**So, who will be the recipient of the AARC DX award #1?**

[Click here to go directly to the country list](#)

## Wayback Machine

### A Look back At The Last 25 Years Of AARC History

Here again are some of the highlights from the last 20 years of the Zero Beat. you can read them at <http://www.w8lky.org/newsltrs/>.

**(The January/February 1990 issue of the Zero Beat was covered last month.**

**February, 1995, (editor WX8G)**

- We had a report on the latest Santa net. This years net had been linked in to the Lisbon repeater.
- The clubs Ten Meter net was about a year old, according to Net manager, Don, K8O-MO.
- Our first fox hunt of the year was won by John, KF8ZG, and David, N8NLZ. The fox, KC8WY, was hidden to the SW of Alliance. This appears to have been a very close finish, since there were only a 2-point spread between the top three finishers.
- Three of the top six jokes told on the Austintown repeater systems joke net were told by AARC officers. This led the editor to refer to this as the "Funniest Club in NE Ohio".
- The program for the upcoming meeting was to be Scott, NI8L describing his antenna farm which he was building South of Alliance.
- There was a story entitled "A Most Dangerous Radio". This very interesting story from WW2 is reprinted in this issue.

**(There was no February, 2000 issue of the Zero Beat)**

**February, 2005, (editor KE8VE)**

- The weather kept all but 8 Hams, & one XYL from the January, 2005 meeting. As Larry reported, the whole meeting lasted only 20 minutes from start to finish.
- Joanne, KJ3O was again our Ohio section Affiliated Club Coordinator (ACC), after a 5 year break from the job she had started in 1986, and holds to this day.

**February, 2010, (editor KD8MQ)**

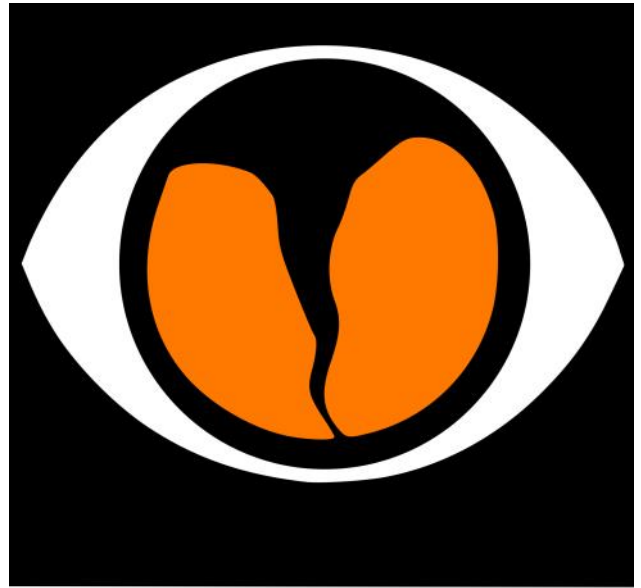
- In the Rambling column, Yours truly outlined some things that were upcoming in 2010, but other than that, not much club news in this issue.
- At the meeting, the possibility of a club Hamfest was broached with not a tremendous amount of interest shown.

## Spotter Training

The following is listed on the NWS Cleveland Skywarn training page:

"SKYWARN spotter training sessions for Spring 2015 will be held on a limited basis through Webinar (online) training conducted by National Weather Service employees. Groups organized by county Emergency Management agencies will host the online training sessions. Please contact your local county emergency management agency to determine which dates they will host training sessions. Please be advised that not all counties may be hosting training sessions this season. We plan to return to normal Skywarn training sessions in 2016."

We've seen no word yet about possible online training opportunities for Stark county. We'll post information at [w8lky.org](http://w8lky.org), and in the Monday Morning Message as it becomes available.



# SKYWARN

## FCC "Paperless" Amateur Radio License Policy Goes into Effect on February 17

Starting on February 17, the FCC no longer will routinely issue paper license documents to Amateur Radio applicants and licensees. The Commission has maintained for some time now that the official Amateur Radio license authorization is the electronic record that exists in its Universal Licensing System (ULS), although the FCC has routinely continued to print and mail hard copy licenses. That will stop next month.

In mid-December, the FCC adopted final procedures to provide access to official electronic authorizations, as it had proposed in WT Docket 14-161 as part of its "process reform" initiatives. Under the new procedures, licensees will access their current official authorization ("Active" status only) via the ULS License Manager. The FCC will continue to provide paper license documents to all licensees who notify the Commission that



*(Continued on page 7)*

*(Continued from page 6)*

they prefer to receive one. Licensees will also be able to print out an official authorization -- as well as an unofficial "reference copy" -- from the ULS License Manager.

"We find this electronic process will improve efficiency by simplifying access to official authorizations in ULS, shortening the time period between grant of an application and access to the official authorization, and reducing regulatory costs," the FCC Wireless Telecommunications Bureau (WTB) said. According to the WTB, the new procedures will save at least \$304,000 a year, including the cost of staff resources.

In comments filed November 5, the ARRL had strongly recommended that the FCC "give serious consideration to continuing a default provision for sending an initial paper license document to new licensees in the Amateur Radio Service, along with detailed, simple instructions for how to make the elections set forth in the notice relative to future modified or renewed licenses."

Under the new procedures, a new license applicant who already has an FCC Registration Number (FRN) and provides a valid e-mail address under "Applicant Information" in the ULS will receive an official ULS-generated electronic authorization via e-mail. New license applicants lacking an FRN will receive one in the mail as well as a temporary password to access the Commission Registration System (CORES), but will no longer automatically receive a license document; they must request one by changing their "Paper Authorization Preference" in the ULS License Manager.

The ARRL and other Amateur Radio commenters also worried that unless a license document is printed on distinctive paper stock, its authenticity could be questioned in such situations as obtaining vanity call sign license plates. To address this, the FCC said the watermark "Official Copy" will be printed on each page of an official authorization that a licensee prints out from the ULS. The WTB recently stopped using distinctive paper stock to produce hard copy licenses and has been printing these on "standard, white recycled paper." The Bureau noted that the distinctive paper stock it had been using was six times more expensive than the plain recycled paper it now uses.

The ULS License Manager now includes settings that allow licensees to notify the WTB that they prefer to receive official authorizations on paper. Once final procedures go into effect designating electronic access as the default, licensees can change the ULS License Manager setting so that the Bureau will print and mail a license document. Licensees also may contact FCC Support via the web, telephone, or mail to request paper licenses.

The FCC rejected as "outside the scope of this proceeding" an ARRL argument that Section 97.23 of the Amateur Service rules be amended to replace "licensee mailing address" with other alternatives, including e-mail, for use in Commission correspondence. The rule, which requires that any licensee mailing address be in an area where the licensee has US Postal Service access, has precluded FCC issuance of location-specific call signs in such areas as Navassa Island (KP1) and some Pacific islands.

**(Thanks to the ARRL Letter for the above)**

*Imagine . . .*

**A contest based on the first mode that  
most Hams use, 2 Meter FM.**

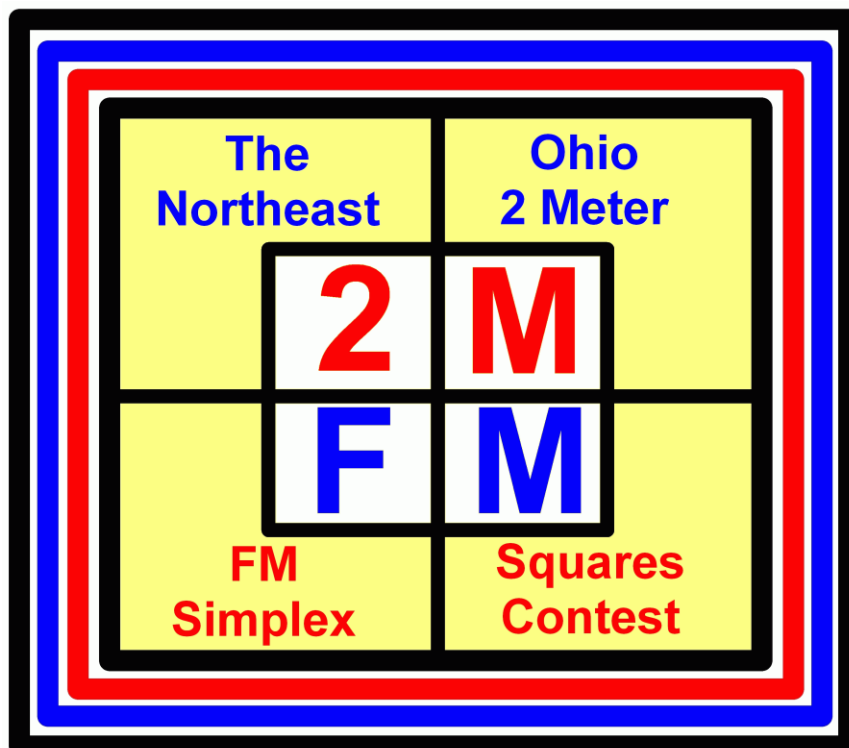
*Then . . .*

**promote mobile and portable operation,  
introduce Maidenhead grid squares,  
throw in some antenna building,  
add an element of probability,  
include club recognition,  
encourage Elmering,**

*and finally . . .*

**award valuable prizes,**

*and you've got:*



Details at: [CFARC.ORG/contest15.php](http://CFARC.ORG/contest15.php)



# The 2015 Northeast Ohio 2 Meter FM Simplex Squares Contest

*Here's a contest you could win using just an HT . . .*

*. . . and by making only one contact!*

Mark your calendars now and reserve the weekend of April 25 and 26, 2015 to get out of the house and participate in this first Northeast Ohio 2 Meter FM Simplex Squares contest.

*Here's the deal . . .*

During each of two 5 hour contest windows in April, one on Saturday the 25<sup>th</sup> and one on Sunday the 26<sup>th</sup>, make as many contacts with other Hams as you can using 2 meter FM in a designated simplex window. During the contact, you must exchange call signs, operating modes, and 6 character Maidenhead Grid Square locations with each other. The contest scoring favors mobile over base and portable over mobile operation, and a second contact with the same ham is **not** a duplicate if either participant has moved to a new 6 character grid square (about a 3 by 4 mile area – and yes, it's really a rectangle). Submit your contacts to the automatic scoring web site by the deadline and you're in the contest.

*By participating, you get . . .*

Every ham who submits at least one valid contact will get a customized Certificate of Participation, suitable for printing and framing.

Certificates of Achievement will be awarded for notable accomplishments such as most contacts, most grid squares, farthest distance contact, most points, etc. Local clubs will also be recognized for having the most participating members, the most contacts by members, the most points, etc.

Each valid contact will be enhanced by the mode multiplier to generate points. Each point will be one entry into a random drawing for one of the Main Prizes. Main prizes are still being lined up, but so far they include a **\$50 and two \$25 Gift Certificates to DX Engineering.**

*Encouraging Club "Elmering" and antenna building . . .*

All you need is an HT to participate. However, by using inexpensive and easy to build antennas, the range of any HT (or mobile rig) can be greatly increased. The antennas referenced on the contest web site can also be used for public service events, emergency operation, and some for radio direction finding. We ask all clubs to announce this contest during their meetings and nets, and to actively "Elmer" their members with antenna building help and contest operating advice. For many hams, this could be both their first contest and first antenna building experience. Help make it a fun and successful one.

*All the details . . .*

Full details including rules, grid square information, HT enhancements, antenna construction links, operating tips, etc. can be found at:

**[CFARC.ORG/contest15.php](http://CFARC.ORG/contest15.php)**

# Mid❄️ Winter Hamfest & Computer Show Mansfield, Ohio

Sunday, February 15, 2015  
Richland County Fairgrounds  
750 North Home Road

Gates Open at 7am



SPONSORED BY THE INTERCITY AMATEUR RADIO CLUB, INC.

Visit us on the web at <http://www.w8we.org/>

### Forums and VE Test Session

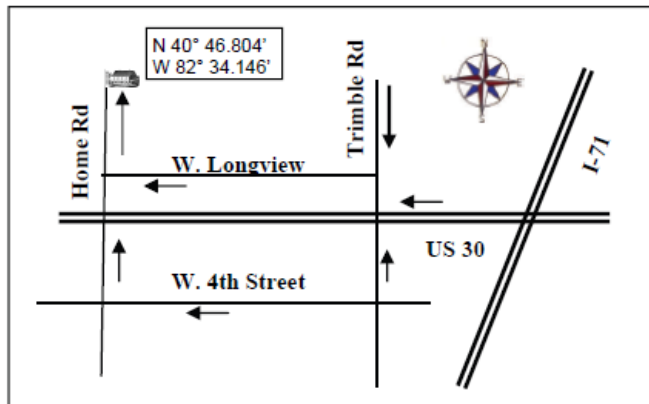
9:00am—Ohio Army MARS Forum  
10:00am—ARRL Forum  
11:00am—OSSBN Forum  
12:00pm—VE Test Session  
*(Pre-registration for test is required, e-mail vkafetch@aol.com to register)*



Tickets: Advance \$5  
At the Gate \$6  
Tables, *Advance Only*: \$15  
Ticket and Table Deadline- January 29  
Online ordering-<http://hamfest.w8we.org>

Advance orders (**must include SASE**) to:  
Danny Bailey, KB8STK  
70 Euclid Street  
Shiloh, OH 44878  
419-896-2165 (After 3 P.M. Please)

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Mansfield, OH 44906-1324

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## Mid❄️ Winter Hamfest & Computer Show Mansfield, Ohio

Sunday, February 15, 2015  
Richland County Fairgrounds

Gates Open at 7am

No Overnight Parking

## Online repeater Directory

A tip of the hat goes to Ralph, K8HSQ for sending this along. It's an online repeater directory, and can be accessed at [www.repeaterbook.com](http://www.repeaterbook.com).



## Wacky Key Night Is April 8<sup>th</sup>!

Well, it worked last year, so here we go again! At our April meeting, lets prepare for **Wacky Key Night**. The rules are simple.

Build a device which will key a code oscillator (provided). Simulated straight keys, iambic paddles, sideswipers; whatever! Any and all are welcome. The more elaborate or ridiculous, the better! We will provide several connector configurations for you to attach to your "Wacky Key," even alligator clips to your terminals if that's all you have.

The WACKIEST KEY WINS!! Put your silly alter ego to work and construct a Rube Goldberg device. Carry, drag, or wheel it in if you have to. No limits; just don't scratch the floor!



Imagination, originality, and HUMOR are going to rule the outcome!

### There are 3 simple rules:

- 1) Real, manufactured keys are prohibited.
- 2) It has to actually function by closing a circuit that will trigger oscillator audio.
- 3) It must be able to send your Callsign legibly, or just a simple "CQ."



For ideas, please consult <https://sites.google.com/site/oh6dccw/strangeckwkeys>

Winners determined by popular vote, and prizes will be awarded!

We'll see you at the April club meeting!

## Winter Field Day 2015

This year, for the first time, the AARC sponsored a team for the SPAR Winter Field Day. You may be wondering **“What is Winter Field Day, and how does it differ from ARRL Field Day”**?

Well, of course, it’s held in the winter. The rules are a bit different, using the temperature as part of the exchange. Other than that, It’s a great opportunity for a social event, just like it’s counterpart in June.

Field Day is considered to be emergency preparation, right? So . . . . What happens not if, but rather when we have an emergency that requires to get on the air in the dead of winter? Well, we can prepare for that.

Of course besides, putting a signal on the air, we have to be fed. So, we had a carry in dinner on Saturday night, as part of our operation. I doubt that anyone left hungry!

We made over 200 contacts, using SSB, FM, and CW. Bands were activated from 80-10 & 2 Meters. I think it’s fair to say that everyone had a good time.



# Paper Chase

by Joe Wehner, W8KNO

February 14th brings what to mind? If you said valentines, you are correct. It is a day for Lovers. Though there have been no announcements of any special event stations, there have been some in the past. Romance, Arkansas comes to mind. Keep your ears open and you may be surprised.



However, there is going to be a special event station on that is worthy of your effort to work. The USS Midway (CV-41) will have a special event honoring the Raising the Flag on Mt. Surabachi.

It will only be on Valentines Day from 1700Z-2359Z. Listen for NI6IW on 14.320 7.250 (SSB), 14.070 (PSK), and REF 1C for D-STAR.

For a QSL card send a SASE to:

USS Midway Museum Ship Radio Room,  
910 N Harbor Drive,  
San Diego, CA 92101.

Hoping to hear you,  
Joe - W8KNO

**Valentine's Day Special Event Station AB5ER**

Romance is located in EMS5cf White County

Facilities provided by FLOYD - ROMANCE VOLUNTEER FIRE DEPARTMENT

Crew:  
 NS1QS Roger Gray  
 NS1QT Dawn Gray  
 AC3AV Larry Sicks  
 KC3FSV Carol Sicks  
 K3SWA Darin Dykes  
 NS1KG Jack Hampton  
 KD5HRT Heath Taylor  
 KF5IPK Ken Waller  
 KJ5ORD John Ord  
 W5H0K Kenneth Leo  
 NS1QZ Ryan McAfee

Station	UTC	Day	Month	Year	Frequency	Mode	RST
W8KNO	1816	09	Feb	2013	20 Meters	SSB	5-9

U.S. Post Office  
Romance, Arkansas 72136

## Cell Phone Recycle

When you trade up to that new smartphone, we'd like you to remember that we are doing an ongoing cell phone recycling drive. Just bring your old cell phones to the next club meeting.

We will see that your old phone gets recycled in the most environmentally friendly way possible. At the same time, we make money for our club! How's that for a win-win?

If getting to a meeting is not convenient, just give John, KD8MQ a call at 330-936-5021, to make other arrangements.



## With Just a WSPR By Dan Romanchik, KB6NU



It's really amazing what you can do with computers in amateur radio, and there's been an explosion in the number of digital modes. One interesting mode that I've recently been introduced to is WSPR, which is short for Weak Signal Propagation Reporting. The protocol and the original WSPR program was written by Joe Taylor, K1JT, and is designed for sending and receiving low-power transmissions on the HF bands to test propagation paths.

I won't try to cover all the technical details here. There are several sites that cover them pretty well:

- Wikipedia: WSPR (<http://tinyurl.com/lumpphu>)
- G4ILO's Shack: WSPT - Distant Whispers (<http://www.g4ilo.com/wspr.html>)

I was introduced to WSPR by my friend, Joe, AC8ES. He posted a message to our

*(Continued on page 15)*



# Z e r o B e a t

*(Continued from page 14)*

club mailing list asking if anyone had a toroid core that he could buy to make a QRP balun for 10 MHz. When I asked what he was going to use it for, he said that he was making a WSPR transmitter with a Raspberry Pi, and the balun was for the dipole he built for it. He said that he'd gotten roped into doing this because he'd attended a local Raspberry Pi users' group, and when he mentioned he was an amateur radio operator, they encouraged him to try this project.

How could I refuse a request like that? I have a whole kit of ferrite cores, and after some back and forth, we found a small core that he could use.

The software he chose is WsprryPi (<https://github.com/JamesP6000/WsprryPi>). It's described as a "Raspberry Pi transmitter using NTP-based frequency calibration." It uses a GPIO port to generate WSPR signals anywhere from 0 to 250 MHz. Joe said that there are several Raspberry Pi programs that run WSPR, but that he chose this one because it seemed to have more features than the others.

Figure 1 shows Joe's setup. Since the output generates a square wave, a low-pass filter is needed to filter out the high-frequency components. As you can see, the GPIO output is fed through a 0.1uF decoupling capacitor into a Mini-Circuits 10.7MHz low-pass filter, then to a 1:1 balun, which is connected directly to the dipole elements.

Joe says, "The antenna is just a dipole taped up to the walls of my living room and hallway." As you can see he made the balun and dipole from 24 ga speaker wire.

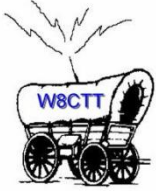
The performance of this setup has been kind of amazing. In one e-mail, Joe reported, "Your toroid seems to be working well. Got the balun and antenna finished and executed seven WSPR transmissions from the Raspberry Pi. The WSPR reporting website WSPRnet (<http://wsprnet.org>) came back with a couple dozen reception reports; typical distance is ~300+ miles, max was 593 miles." In a second e-mail, Joe writes, "Did a few more beacon transmissions and checked the WSPR signal reports again. Someone picked up my 5 mW signal from 1010 miles away in Canada."

Joe's turned into quite a WSPR fan. He's even written an Android app - WSPRnet Viewer (<https://play.google.com/store/apps/details?id=com.glandorf1.joe.wsprnetviewer.app>) to retrieve and displays report from [www.wsprnet.org](http://www.wsprnet.org). Tapping on a specific report displays more details about it, along with a world map that shows transmitter and receiver locations.

Unfortunately, I don't have a Raspberry Pi, or I'd try this as well. I do have a BeagleBone Black, but there doesn't seem to be software that I can download and install as easily as the Raspberry Pi software. That being the case, this might be a good excuse to purchase one of those new, cheaper RPIs.

---

When he's not digging through his junk box or teaching amateur radio classes, KB6NU writes about amateur radio at KB6NU.Com. He has just released The CW Geek's Guide to Having Fun with Morse Code. The book is available on Amazon.Com or on KB6NU.Com.



# Pioneer Amateur Radio Fellowship, Inc.

## Dayton Hamvention 2015

### Saturday, May 16, 2015 - 5:30 AM



Don't miss out on this year's PARF Bus Trip to the world's largest topical conference and product exhibition. Save on gas, parking, and walking by riding with us! Leave the driving to us and you can come and go to the flea market with your great purchases and leave them on the bus. The bus will be parked close to the flea market entrance.

**You can save \$10\* if you book before April 15th.**

The cost of the **Bus & Entrance ticket** to the Hamvention:

**\$65\* before April 15, 2015**

The cost of the **Bus Only** to the Hamvention:

**\$50\* after April 15, 2015**

(You will need to get your own Hamvention Entrance Ticket at gate \$25, or order by phone & have held at Will Call--possibly getting Advanced \$20 price.)

P.A.R.F. reserves the right to cancel this trip should a minimum of 23 riders not be secured by April 15th.

We will take riders right up to departure that morning (if there are seats available) on a first come, first served basis.

Departure time is 5:30 AM **SHARP**, so please be on time so you don't miss the bus!

Parking will be in the back of the church.

There will be a stop for breakfast @ McDonald's and a dinner stop @ Golden Corral Buffet (out of pocket expense).

Transportation is being provided by the Crossroads Transportation Company.

This bus is a smoke free bus, so there will be no smoking permitted.

**To Order - Complete application & send with check/money order (*payable to "PARF"*) to:**

Joy Spencer [KA8TDF](mailto:KA8TDF)

2101 Bigelow St

Akron, OH 44314

**Or call 330-745-5115**

E-mail: [KA8TDF@arrl.net](mailto:KA8TDF@arrl.net)

**Please supply a return e-mail address for your receipt confirmation.**

**Location of Departure is:**

Akron Baptist Temple

2324 Manchester Road

Akron, Ohio 44314

Located on Rt. 93 just north of Rt. 224

Repeaters 147.135 & 146.610

***Please pass the word out to all of your ham friends & computer geeks.***

The above pricing does not include any tips...a hat will be passed for driver's tip.



## February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i> 8:00 PM AARC CW (28.100 MHz) 8:30 PM AARC SSB(28.400 MHz) 9:00 PM AARC VHF (145.37(-))	<i>6</i> Patty, KB8Q WH BD	<i>7</i>
<i>8</i> Doug, KB8DNQ BD	<i>9</i>	<i>10</i> KA8LKQ BD	<i>11</i> 7:30 PM AllianceARC Meeting	<i>12</i> 8:00 PM AARC CW (28.100 MHz) 8:30 PM AARC SSB(28.400 MHz) 9:00 PM AARC VHF (145.37(-))	<i>13</i> 8:00 PM Massillon Net (147.18)	<i>14</i>
<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i> 8:00 PM AARC CW (28.100 MHz) 8:30 PM AARC SSB(28.400 MHz) 9:00 PM AARC VHF (145.37(-)) Don, AB8KV BD	<i>20</i> 8:00 PM Massillon Net (147.18)	<i>21</i>
<i>22</i>	<i>23</i> Brian, N8WD BD	<i>24</i>	<i>25</i>	<i>26</i> 8:00 PM AARC CW (28.100 MHz) 8:30 PM AARC SSB(28.400 MHz) 9:00 PM AARC VHF (145.37(-))	<i>27</i> 8:00 PM Massillon Net (147.18)	<i>28</i>

Jan 2015						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Mar 2015						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Alliance Amateur Radio Club  
 P.O. Box 3344  
 Alliance, OH 44601

## This Months Meeting

will be on Wednesday,  
 February 11<sup>th</sup> in the Café Conference Room at:

**Alliance  
 Community hospital**  
 200 E. State St  
 Alliance, OH.

Our meeting will begin at  
 7:30PM

**This months program  
 will be**

**Grounding**

**presented by James,  
 KD8VT**

More information can be found  
 on pg. 16.

Feel free to Join us for dinner  
 beforehand at

**Frank's  
 Alliance Family Restaurant**  
 480 E. State St, Alliance

## Newsletter Information

The Zero Beat is a  
 publication of the  
**Alliance Amateur  
 Radio Club**  
**P.O. Box 3344**  
**Alliance, OH 44601**

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 Beat via e-mail to  
[kd8mq1@gmail.c  
 om](mailto:kd8mq1@gmail.com)

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