

# Harrisburg Radio Amateurs' Club Newsletter

HRAC meets the second Wednesday of each month at 7:00 pm at HACC, Shumaker Public Safety Center, Gate 5 on Industrial Road in Harrisburg (Elmer Time starts at 6:30PM)

## CLUB OFFICERS

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July Firecracker Hamfest Date is Saturday July 5<sup>th</sup>.  
Flyer appears at the end of this newsletter!

## **From the Desk of the President.....**

Field day and hamfest are getting closer by the day and all of the preparations are done or in progress (I think). It seems like there's always one more thing that needs to be done. But all that aside, I'm very proud of all of the support that the club members have put into making these events happen. Let's keep up the pace and I know that we'll have a great time. And don't be bashful about emailing or calling me for flyers to distribute. I'll be happy to get them to you.

I got a rather distressed email from our newsletter editor the other day. It seems that she didn't feel that there was enough material to warrant publishing this month's newsletter. I'll be the first to admit that I'm no Pulitzer Prize winning author. But if you don't want to write something you could always submit someone else's work to the newsletter.

If you're like me, you probably have several web sites that you check into regularly. Blogs, chat groups, even something like QRZ.COM are good sources of articles that you could pass on for publication in the newsletter. There's LOTS of stuff out there that would make good copy for the newsletter. For example, I came across an article on building a homebrew version of the Buddipole antenna. I emailed the author and asked permission to reprint his piece in our newsletter and he emailed back giving me his permission. Then it was just a matter of pasting a copy of the article into a Word document and sending it to the editor. If you find such an article and your computer skills aren't the best, let me know where to find the article and I'll take care of getting it into the newsletter.

That's about all that I have for this month. Let's have fun at field day and then make this year's Firecracker the best yet. If we all work together, I know we can do it.

Tim, KB3OZA

## **Link to Repeater and Net Lists**

<http://www.w3uu.org/local-repeaters-and-nets/>

Same lists that used to be in the newsletter.....but now conveniently located on the club's website.

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## May Meeting Minutes

The May 14, 2014 meeting of the Harrisburg Radio Amateurs Club was called to order at 1900 HRS by the president, Tim (KB3OZA) followed by introductions.

**Secretary Report** - The minutes of the April meeting were published in the newsletter. Doug (K3DRE) made a motion, seconded by Rick (K2RBT), to accept the minutes as published in the newsletter. Motion PASSED

**Treasurers Report** - Joe (KQ3F) presented the treasurer's report. Doug (K3DRE) made a motion, seconded by Glenn (K3SWZ), to accept the report. Motion PASSED

**Trustee** – No change

**Repeater** - Steve (KA3PDQ) reported that he is still working on the coordination application for the 440 machine.

**VE Committee** - The next regularly scheduled test session will be held on June 21, 2014.

**Membership Committee** – No update.

**Newsletter** – No update.

**Web page** – No change

**EMCOMM** – Marty (KB3BAA) reported:

- The American Cancer society is having a bike ride on 28 – 29 June (field day weekend). Approximately 10 -11 operators are needed for rest stops and accompanying the SAG vehicles.
- The Camp Muckleratz trail ride event is scheduled for 19 – 20 July.
- The Hershey Half Marathon is scheduled for Oct. 19, 2014. .

**DXCC** – Glenn (K3SWZ) reported that he checked 4 or 5 applications at the York hamfest. He will do a mailing after the Firecracker hamfest.

**Entertainment** – Nick (AA3T) reported the following:

- June – Field Day planning
- July – Ice cream social
- August – MESH networking
- September – We will try to get Susan Singer (PEMA) to give an overview presentation on Auxiliary Communications System (ACS).

*Meeting Minutes Continued.....*

**Field Day** – June 28 – 29, 2014. Set-up will begin on Saturday at 1000 HRS at the HACC picnic pavilion. Operations will begin at 1400 HRS Saturday until approximately 1000 HRS Sunday. Bonus points are available in a number of categories.

We have been contacted by a club in Effort, PA regarding a friendly competition for field day. There was some discussion, but no decision was reached. The pavilion has been reserved for field day and HACC will provide a grill for our use.

**Firecracker Ham Fest** – Tim (KB3OZA) reported:

Flyers have been mailed to hamfest coordinators in surrounding states listed in the ARRL database.

Flyers have also been placed at several local computer and electronics shops.

**Elmer Time** – Terry (WB3BKN) will do a presentation on dipole construction at the June meeting. It was suggested that a good future presentation topic would be how to set up a system for RTTY/PSK operations.

**Old Business** –.None

**New Business** – Don (KA7GRU) brought up the following:

- Does the club have a technical library and, if so, was there a designated librarian. Terry said that most of our technical books were in the storage locker in Dauphin and he has a spreadsheet listing of them. Doug (K3DRE) made a motion, seconded by Chuck (N3WL) to make Don the librarian.
- A local ham has a tower, rotor, tuner and radio for sale. If anyone is interested, contact Don (KA7GRU) for more information.

Glenn (K3SWZ) reported that he had received his Five-band Worked All Zones and was now certified to check cards for that award.

There will be a VHF/UHF Weak Signal conference in Carlisle on Oct 4, 2014.

John Jaminet (W3HMS) is the contact person for the event.

**Good of the Club** – None

**Adjournment** – There being no further business to conduct, Chuck (N3WL) made a motion, seconded by Doug (K3DRE), to adjourn. Motion PASSED  
Meeting adjourned at 2030 HRS.



W3UU  
is  
ARRL Affiliated

## Monthly Ham Radio Lunch

The last Thursday of each month there is a Ham Radio Lunch at the "Old Country Buffet" at noon.

This restaurant is located on Route 22 in Colonial Park in the vicinity of Value City Furniture, K-Mart and Home Depot.

It's a great way to meet new people!

## Long Delayed Echoes

*Looking back through the rich history of the Harrisburg Radio Amateur's Club*

Compiled by Mark Robinson WB3JIS

*Do you have any nuggets from the past that we can share with fellow newsletter readers?* Documents are nice but photos are the best. Quality is secondary as you've seen in this column. Scan and email them to me with a few words of background, nothing fancy. I can be reached at (717) 371-3926 or [wb3jis@comcast.net](mailto:wb3jis@comcast.net)

### TALES OF OLD-TIME HAM RADIO

Ham Radio's devotion to public service is alive and well today even as it was years ago. The nature of our participation has changed greatly due to the improved communication available today... Repeater, RTTY, Packet, Underground systems, etc.

Back in the 1930 era most communication for public utilities and common carriers was handled by overhead phone and telegraph wires. Those systems were highly vulnerable to everything nature could dish out. Such was the case in 1933 when a major blizzard put the D.L. & W. Railroad out of business. The D.L. & W. was a vital carrier from N.Y.C. to Buffalo, N.Y., and overhead wires were down along the right of way.

Newark, N.J. my location, was a vital station stop for the D.L. & W., and I was recruited into a relay system of many hams to get the trains moving. I say "relay" because most of the CW stations were low power (5 to 10 watts). Phone stations were few, and even high power CW was rare due to the "No Money" syndrome following the market crash of 1929.

For three days any trains that moved did so by scheduling via ham radio. It was a great experience; we learned a lot, especially

ny executives who wanted to reward us with money and equipment -- a no-no when you are a ham. It was reward enough when we got rave publicity in the local and New York papers all along the line.

Tom Freedom, W3HVE (EX W2CWD)

### Weekly HRAC Net

The weekly information net is held every Wednesday at 8:00 PM on the 146.760 repeater, except for the second Wednesday of the month, which is club meeting night.

# Governor Proclaims June Amateur Radio Month in PA



COMMONWEALTH OF PENNSYLVANIA  
OFFICE OF THE GOVERNOR  
HARRISBURG

THE GOVERNOR

## GREETINGS:

It is my pleasure to join with amateur radio operators across the Commonwealth to support June 2014 as "Amateur Radio Month."

Thousands of our Commonwealth's citizens have been licensed by the Federal Communications Commission as amateur radio operators. Since wireless radio's earliest days, these men and women, also known as Hams, have worked diligently over the years to provide vital supplemental communications to their communities during times of emergencies and natural disasters, and at public events. Amateur radio is both a hobby and service, and Hams use radio communication for public service and recreation. I commend all the men and women throughout the Commonwealth who volunteer their time, talents and efforts as amateur radio operators.

As Governor, and on behalf of all Pennsylvanians, I am pleased to recognize June 2014 as "Amateur Radio Month" in Pennsylvania. Please accept my best wishes for continued success in the future.



*Tom Corbett*  
TOM CORBETT  
Governor  
June 2014

## Hamfest – July 5<sup>th</sup> 2014

What most people only know about a hamfest is what they see on the day of the hamfest. Our Firecracker hamfest is lots of fun with lots of things going on, but that does not just happen all by its self. It takes a team of dedicated volunteers to create a hamfest / section convention. I am talking about volunteers who begin planning a hamfest for the next year weeks before the current years hamfest. Yes... a hamfest takes a very long time to plan and execute.

When you attend the convention this year, walk around and take it all in because there is much to see and do. One example are the scheduled speakers in the classrooms, and it can be a good excuse to get into some air conditioning for a while. In another building close to the tailgating area, are the commercial vendors offering a great selection of new items. (another air conditioning opportunity). There is a special parking area for anyone who would like to show off their mobile installations. These are often interesting to look at and get ideas for your own installation. FOOD. We always have an abundance of good food to purchase throughout the day, so bring an appetite.

For everything that you see, or do at the hamfest, someone had to organize and plan for it. This why the organizers ask for help all year long, and not just for the day of the event. A well planned, promoted, and executed event is fun, and profitable for both the club, and the attendees. The number of people who attend is important because tailgaters love to have customers, and this is why we work so hard all year to present the best we can.

This year we have a new and larger team working on this event. Please help them when they ask for help, or better yet, ask them how you can help. Contact Tim, the president, and talk with him. You can find his contact information in the margin of the first page of this newsletter.

73, Terry Snyder (WB3BKN)

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## Newsletter Articles Needed

This month's newsletter almost didn't happen. I had the usual articles (thank you Steven & Mark). But I needed other stuff too. A huge thanks to KB3OZA (Tim) and WB3BKN (Terry) for coming up with news, and even writing some articles for this edition.

Please consider writing an article for an upcoming newsletter.

Shelby, K3EMT  
Secretary & Newsletter Editor

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## 2014 Exam Schedule for the Harrisburg Radio Amateurs' Club VE Team

**All tests are held at HACC -Shumaker Public Safety Center, Gate 5 on Industrial Rd, Harrisburg, PA**

- Saturday, June 21, 2014 at 9:00AM
- Saturday, July 5, 2014---During the FIRECRACKER HAMFEST (testing is at 11:00AM)
- Saturday, August 16, 2014 at 9:00 AM
- Saturday, October 18, 2014 at 9:00 AM
- Saturday, December 20, 2014 at 9:00 AM

**FIELD DAY**

The time has come in my opinion that the Harrisburg Club steps out of the pack and becomes the first that I know of to have local and national businesses sponsor our FIELD Day activities. Not with cash but with donations of product. As some of you may know my other endeavor is Competition BBQ, we have (6) sponsors that give us stuff and all we need to do for them is to hang a banner(supplied by them) and leave their product sit around so people see it. We also need to talk nice about their stuff on face book! Years ago when REACT ran the safety break on I-81 Budweiser was a sponsor giving us all kind of handouts, key chains, no when to say when information, coffee cups, bottle openers and the like. I am not talking about radio equipment but what about all the other stuff we use at Field Day. Ice, Soda, Beer, Food, Grills, Paper Goods the possibilities are almost endless. Just think put up a WEGMAN's banner and we get porterhouse steaks! Put up a KFC Banner and we get Fried Chicken, Dunkin Donuts, Maple Donuts, Starbucks, GIANT, all ripe for the picking, and the great thing is we are not asking for cash but product. We have found it is easier for some business to hand over product then cash. I can see it now a huge banner W3UU FIELD DAY sponsored by JAGERMEISTER or

W3UU FIELD DAY fueled by SUNOCO. How about AROUND THE CLOCK OPERATIONS BY STARBUCKS, or Mobile Operations by HURRYCANE, and let's not forget about waste disposal. The information table covered with handouts and trinkets from our proud sponsors. OH the possibilities are vast. Just think ANYTIME OPERATIONS BY VIAGRA –

On another issue you know by now they still haven't found the airliner. There has arisen another scenario for the mystery! Researchers who are investigating star gates with the possibility in the very near future that us mere humans will be able to create our own for travel thru the Cosmos. It has been a long held belief that these stargates exist on this planet hidden under miles of ocean!

There are reported sightings of strange craft entering and leaving the water.

What better place to hide a stargate in the one place humans have not been able to explore due to the extreme pressures of the ocean depths. A civilization that has mastered stargate technology certainly would be able to overcome the pressure of deep water. Scientists in some circles now believe that mysterious disappearances of ships and planes over the year were caused by the vehicles entering the area of these stargates just as they were being activated by the users of the gates. In fact the operators of such gates might even be us in the future manipulating history.

Remember if you read in on the internet it has to be TRUE!

Steven Gobat, KA3PDQ

## Personalized Items Make the BEST Gifts!

(And who says you can't give yourself a gift...)

**Hats · Shirts · Jackets**  
**Name Badges · Mugs · Mousepads**  
**Vanity Plates · And More!**



We use embroidery, heat transfer, vinyl or sublimation to put your idea on just about anything!



Visit us online at [www.shopIBD.com](http://www.shopIBD.com) for ideas  
 then give us a call at **717-585-9779**  
 or email [geanne@impressions-by-design.com](mailto:geanne@impressions-by-design.com)  
 for quotes and personalized service.

## Swap and Shop

This is to list radio/electronic items that they want to sell or that they are looking to purchase. (Both here and on our website) If you have anything to list, email [shelbyminier@gmail.com](mailto:shelbyminier@gmail.com).



Bob has the following for sale:

- Astron RS 50A 37 amp dc supply (50 amp peak). Like new and hardly used. Asking \$100
- Mirage B50180 2 meter amplifier - also like new and hardly used. Asking \$100

Anyone interested please contact Bob McCutcheon WA3IJC at 717-652-2647 or email at [bobmccutcheon34@yahoo.com](mailto:bobmccutcheon34@yahoo.com).

## ◆ Homebrew Buddipole

29 May 2014 by Wayne K5UNX  
*Used with permission of the author*

I knew when I started building my station that I wanted a couple of portable antennas. I like making things, and decided to it a shot after deciding that I might be able to actually make an antenna that worked following [Budd's directions](#). I made the Buddistick first, then later made the Buddipole. Both are easy to make and work well. I use them both (not at the same time) for my main antenna right now, until I can get a full size dipole hung up, and coax run to the house etc. I am fairly new to the HF world and I don't have my home station complete yet, so these antenna were a quick and easy way for me to get started on HF.



Pictured first are the components of the Buddipole. Starting at the top-left are the two 20 meter coils. To the right, the shorter coil set is for 15 and 17 meters. To their right is the "T" component for mounting the antenna on a painter's pole. The black adapter changes the threads from PVC to the painter's pole. In the middle are the two antenna whips, mounted in some CPVC with speaker wire coming out of the ends allowing for connections to be made to the whips,

mounted in some CPVC with speaker wire coming out of the ends allowing for connections to be made to the whips. The bottom two pieces are CPVC arms with speaker wire running through them, and connectors.

The following picture shows the Buddipole set up with the painters pole extended. The length of the extended painters pole in this picture is about 10 ft.

*(continued on the next page)*

*Buddipole, continued from previous page*



The plans that Budd published has the coax line ending with the spade connectors. I bought a piece of 50ft coax with PL-259's installed already on both ends and I did not want to cut one of them off, so I made the following adapter. It is simply a small project box from Radio Shack, with a SO-239 mounted in it and speaker wires connected to the SO-239 center and ground. The orange line is old fly fishing line for hanging the box from the antenna. I use a velcro strip for this.



Here is a table that I made showing how I setup the antenna and the resulting SWR measurements.

Band	Coil	Red Whip	Black Whip	Res Freq	Min SWR	Height	Red Orientation
20M	20M	3 + 10 in	5	14.175	1.5	12	N
17M	15/17	3 + 1.25 in	5	18.127	1.06	12	N
15M	15/17	2 + 2 in	3	21.250	1.24	12	N
10M	none	4 + 5 in	4	28.850	1.19	12	N
6M	none	0 + 4.375 in	0	51.850	1.2	12	N

I think the higher SWR on 20 and 6 meters is due to the proximity of the metal eve troughs that the antenna is near with extended. If I orient the antenna parallel to the gutter, the SWR goes up. My house sits approx SW-NE so pointing the red end of the antenna North puts it at about 45 degrees to the gutter and the SWR goes down. This is the most convenient place to set up the antenna within reach of the radio inside allowing for the 50ft run of coax. The whip column is how many additional sections of the whip I need to extend not counting the 1 section length it is with all the sections pushed in. I think if I got this away from the house a few more feet, the SWR would come down on 20 & 6m.

I have made SSB and PSK31 contacts on 20, 17, & 15 meters. I have not made contacts yet on 10 or 6. Someday I'll do that.

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Buddipole, continued from previous page

Links  
to the  
club's  
social  
media  
pages

[Twitter Link](#)



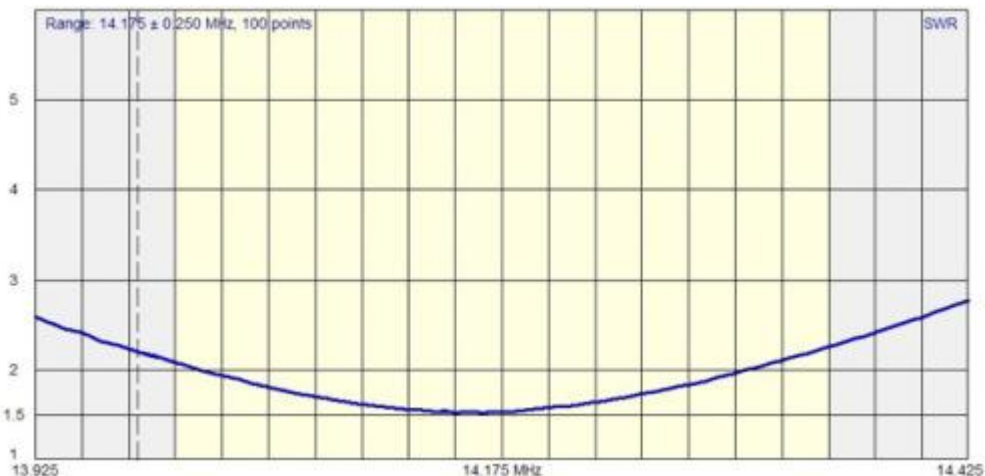
[Yahoo Group Link](#)



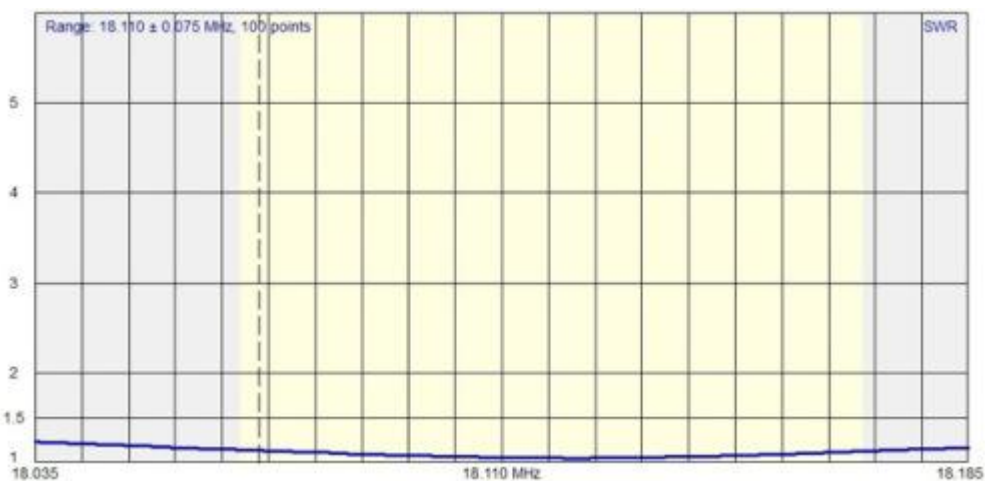
[Facebook Page Link](#)



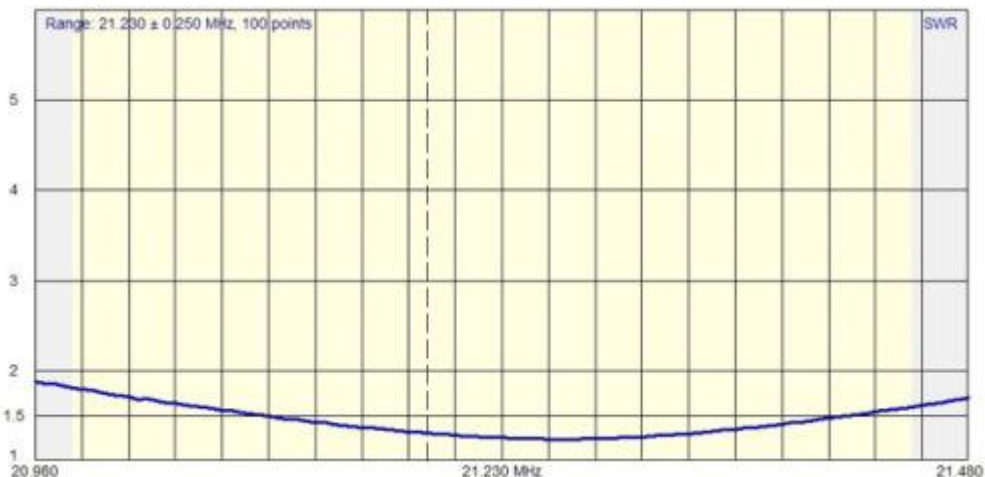
### 20 Meter



### 17 Meter



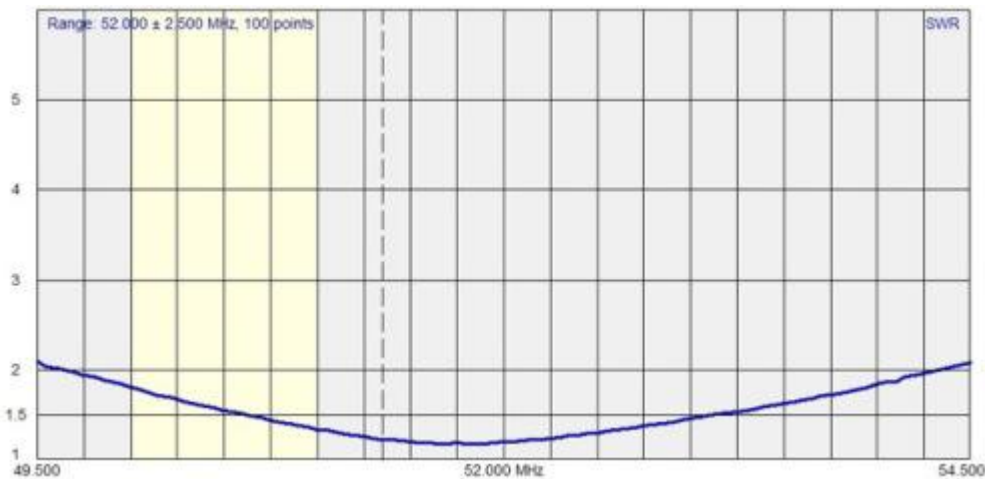
### 15 Meter



(continued on the next page)

*Buddipole, continued from previous page*

## 6 Meter



Overall I am happy with the antenna. I don't expect it to work like a full size dipole, but for the ease of setup and take down, it's working for me. I have talked to South America, Europe and all over the US with both the home-brew Buddistick and Buddipoles.

*[Wayne Patton, K5UNX](#), is a special contributor to [AmateurRadio.com](#) and writes from Arkansas, USA. Contact him at [wayne.patton@gmail.com](mailto:wayne.patton@gmail.com)*

## Miscellaneous Club Information

HRAC meets the second Wednesday of each month at 7:00 pm. The meeting is held at the campus of Harrisburg Area Community College (HACC), at the Shumaker Public Safety Center. The safety center is located at Gate 5 off of Industrial Road in Harrisburg.

Elmer Time, formerly known as Tech Talk, begins at 6:30 pm. Come on out to a meeting and see what new and exciting things are going on with your club!

The next ham radio test session will be held on June 21 at the Shumaker Public Safety Center at HACC. Testing is FREE and starts at 9am. Show up a little early for registration.

And finally, **we need articles to publish in the newsletter**. So scare up some writing ability and think of something related to ham radio that you enjoy. We'd love to see some new writers! Email to [shelbyminier@gmail.com](mailto:shelbyminier@gmail.com).

## Emergency Yielding to Public Service

Rumors are ARRL is looking at replacing the word Emergency with Public Service in its titles.

First, most of the work being done is that, public service.

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We work to supplement, not replace, radio and data communications already in place.

Let's face it. Almost everyone has, at least, a cell phone. Most also have smartphones with text and email capabilities.

However, these systems can become overwhelmed with traffic as voice, data, pictures, etc. flood these systems. Also, do they have people trained in sending and receiving accurate messages in critical situations?

We work with organizations to supplement, and, perhaps as needed, back up communications. As needed, we may become the primary means of communications.

The basic skills of receiving and transmitting messages and setting up gateways to send and receive messages accurately will always be needed. Continued practice in setting up nets and passing traffic need to be developed, perfected and maintained to serve our communities.

July 19th and 20th is a chance to help local horse enthusiasts by providing radio communications for the annual trail ride just outside of Elizabethville. Operators staff rest stops tracking riders as they make their way over the course in Camp Weiser State Forest.

October provides the chance for operators to support the Hershey Half-Marathon. We staff water stops handling traffic about supply requests and participants who may need assistance.

In these operations we use the same processes that would be used in emergency communications. Communication (Comm) plans (ICS 205) are developed, nets are established, tactical call signs used along with FCC identification.

I have received training and practice with other emergency responders on a regular basis to keep skills fresh as well as build relationships that may be critical in an emergency.

We must be prepared in that a public service event may turn into an emergency. We must be prepared to do this quickly and accurately. Lives could be at stake. Plans must be developed just in case. They may never be executed. Thankfully, they might not. But we must be prepared. I am attending 6 planning meetings for the upcoming cancer society ride. There are usually four meetings for the Hershey event.

The word "Emergency" may leave ARES but the function will still be there.

Frankly, we have very little support from hams in Dauphin County for these events. I rely on hams from other counties to help. This year much of that support will not be there.

\*\*\*\*\*Contact me at [mpgutekunst@comcast.net](mailto:mpgutekunst@comcast.net), 717-439-8971 or [kb3baa@arrl.net](mailto:kb3baa@arrl.net) to sign up for one of these events or to learn more about how you can get involved.\*\*\*\*\*

# HRAC MEMBERSHIP APPLICATION

MAIL TO:

**Tim Lehman, President (KB3OZA)**

**PO Box 453**

**Hummelstown, PA 17036**

**717-982-8550**

Make checks payable to HRAC

Membership is \$15.00 (\$7.50 if over 65) per year.

Family Membership is \$25 (Hams must reside in the same household)

Dues end December 31st

NAME \_\_\_\_\_ CALL SIGN \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_ E-MAIL \_\_\_\_\_

ARRL Member: Y \_\_\_\_\_ N \_\_\_\_\_ \* **YEAR FIRST LICENSED** \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

I agree to abide by the guidelines of the membership and The Harrisburg Radio Amateur's Club, Inc.

W3UU - Harrisburg Radio Amateurs' Club 42<sup>nd</sup> Annual



**NEW DATE**

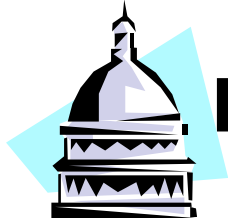
**NEW DATE**

**Saturday JULY 5<sup>th</sup> 2014**



**Eastern Pennsylvania Section Convention**

&



**FIRECRACKER**

Electronics Expo and Hamfest

**“The Harrisburg PA Electronics Expo and Hamfest”**

**Harrisburg Area Community College**

**Fire Training Grounds**

*3599 Industrial Road, Harrisburg, PA*

- ◆ Covered **indoor Commercial Tables** Available
- ◆ **Largest Tail Gate / Electronic Flea Market in Central PA**
- ◆ **Hundreds of tailgate spaces available**
- ◆ New and refurbished equipment dealers on site
- ◆ **ARRL Sanctioned** Hamfest / EPA Section Convention
- ◆ **Great Food (Breakfast and Lunch)**
- ◆ Meeting room available for clubs and discussions
- ◆ **DXCC & WAS** cards checked on site until **10:00 am**
- ◆ **VE Testing on site at 11:00 am (Walk-in Welcome)**

**W3UU**  
**146.16/76 MHz**  
**PL 100 Hz**

Map on Reverse side  
 of this flyer

**General Admission:** \$5.00 (Non ham XYL & kids under 12 FREE)

**Tail Gating:** \$5.00 per space

**Tables:** \$12.00 each before June 1  
\$15 on or after June 1

**General Admission: 8:00 AM**

**Dealer Setup: Hamfest Day 6:00 AM**

**Prior Day 6:00 PM – 9:00 PM (strictly enforced)**

For further information contact:

Website: [www.w3uu.org](http://www.w3uu.org)

Table Sales

Joe Stepansky (KQ3F)

[KQ3F@comcast.net](mailto:KQ3F@comcast.net)

717-329-1906

General Info

Tim Lehman (KB3OZA)

PO Box 435

Hummelstown, PA 17036

[KB3OZA@arrl.net](mailto:KB3OZA@arrl.net)

717-982-8550

**Special Event Station**

**W3W**

**In operation at the Convention**

- Directions to the Hamfest from rt. 81 (watch for signs):
  - **Located just north of Harrisburg, Pa.**
- Rt. I-81 to Exit 67 (Follow signs to Farm Show Rt. 22 East)
  - Follow Rt. 22 about 3000 ft, Turn **RIGHT** at light
  - Continue on Wildwood Park Drive and road will become
- Industrial Road. Hamfest / Convention is 3/4 mile on **RIGHT**
  - **3599 Industrial Road, Harrisburg, Pa 17110**
  - 40.303645,-76.888379 (**Gate 5**)
- **Represented on this map and picture by the**
  - **Green B and arrow the "A" is Exit 67**



From Rt 83 and points south:  
 Exit 43 (Second Street, Harrisburg)  
 Follow ramp to light at Paxton St. and turn **RIGHT**  
 At next light (Cameron Street) turn **LEFT**  
 Follow Cameron street to Wildwood Park Drive, at Farm Show, Turn Left  
 Continue and road becomes Industrial Road, Hamfest is ¾ mile on Right

Mapping/APRS Coordinates

Hamfest: **40.303645,-76.888379**