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Harrisburg Radio Amateur's 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

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The President's Letter.....

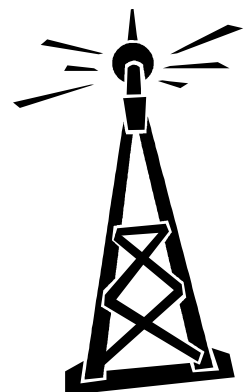
Twice this past few weeks I asked for help to remove the Force 12 C3 antenna from the Red Cross building. Several of you stepped up and helped with the job, which was no small task. You will see pictures in this newsletter of our efforts. My thanks to everyone who came out to help us. For some this was a learning experience, and for some it was a teaching experience. The things learned here can help with your home installation in the future. We will be installing this antenna and others at HACC so that we can actually use the radios regularly, unlike in the past. Members will be able to use the station easily when we are finished.

The day of the Firecracker hamfest is quickly arriving. Many who offer to help with it think that the only time we need help is the day of the hamfest... **WRONG!!!** You may not realize just how much time and effort goes into something like this. Do you think all of those people just magically show up. How about those commercial vendors?? How did they find out about the event... Oh... What about those goodie bags that we hand out, food vendor, speakers at the forums, and more. Yup! They just magically show up!! There are many other things that need to be done long before the day of the event. Who does all of that?? Guess who. At this point in time there are only three of us who have contributed to what has happened so far this year. Our hamfest has continued to grow while others have lost attendance. Hmmm. I wonder why. It is now your turn to step up and help. Call me, or email me.

Your club needs you to join in on the fun of what projects we do. The skills learned here can help you in your personal and business life. The antenna projects that are coming up are a chance for you to learn something that you can use later. The two hamfests that we do are a chance to learn skills that will help you in other organizations in which you are a member, Events where we provide communications offer a chance to learn how to conduct yourself during actual emergencies. When you are asked, raise your hand, and then actually show up.

73

Terry Snyder WB3BKN



April Meeting Minutes

The April 10, 2013 meeting of the Harrisburg Radio Amateurs Club was called to order at 1900 HRS by the president, Terry (WB3BKN) followed by introductions.

Secretary Report - The minutes of the March meeting was published in the newsletter. Rick (K2RBT) made a motion, seconded by Chuck (N3WL), 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 Rick (K2RBT), to accept the report. Motion PASSED

VE Committee - Steve (KA3PDQ) reported that a test session was held on April 6, 2013 for the Penn State Harrisburg radio club. Three technician exams were administered and two passed. The next regularly scheduled test session will be held on April 20 at HACC.

Membership Committee – No update.

Newsletter – No update.

EMCOMM – Doug (K3DRE) reported:

- The biennial TMI drill is scheduled for April 16 & 17. Marty (KB3BAA) has a list of operators and will contact them individually to confirm their availability. If anyone is interested in participating, contact Marty.

Entertainment – Joe (KQ3F) will give a presentation on the Hurricane Watch Net. This is the presentation that he gave at the national Hurricane Conference in March.

Old Business – Joe (KQ3F) reported that he found a record from January 2005 of a check written to the Red Cross for the antenna on the roof.

New Business

Tim (KB3OZA) brought up the issue of a family rate for club dues. He suggested \$15.00 for an individual membership and \$25.00 for a family membership. Doug (K3DRE) made a motion, seconded by Shelby (K3EMT), to establish the suggested dues structure. It was pointed out that the club by-laws set the dues. The motion was tabled until the by-laws can be revised. A written recommendation was submitted to delete Article 3, Section 4 of the club by-laws. Doug (K3DRE) made a motion, seconded by Shelby (K3EMT), to accept the recommendation. In accordance with the by-laws, the matter will be voted on at the next regular meeting. Bill (KE3YC) will check with Dave Smith for a tower to set up at HACC for club use. Other sources will also be investigated.

Firecracker Ham Fest – Terry (WB3BKN) provided fliers for members to take along and place at local electronics and computer shops and to pass out at other hamfests.

The plan now is to put all of the tailgaters along the roadway leading to the skid pad and use the lot where tailgaters set up last year for parking. Commercial vendors will still be in the garage and the portable building that was used for VE testing last year.

April Meeting Minutes, continued

Field Day – No update.

Good of the Club

Tech time – The May presentation will be on the DX cluster and its uses.

There being no further business to conduct, Rick (K2RBT) made a motion, seconded by Doug (K3DRE), to adjourn. Motion PASSED Meeting adjourned at 1955 HRS.

Tim Lehman, KB3OZA
Secretary



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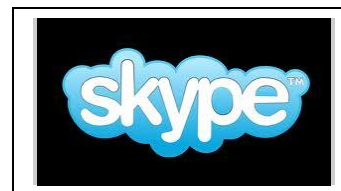
Skype is a Great Alternative

Just a reminder...if you are unable to attend an HRAC meeting, Skype is always there as an alternative. This way you don't have to miss any valuable meeting and you can still participate!

To sign up for Skype:

1. Go to www.Skype.com, and download your free Skype messenger.
2. Select your Skype name (make up something)
3. Go on line and connect to the test server to verify that your install is working.
4. Add a contact request for **hrac.radio** (We check, and approve requests daily)
5. Be ready to connect to **hrac.radio** any time after 6:30pm on meeting night.
6. Meeting begins at 7:00pm on the second Wednesday of every month.

***This is an audio version of Skype.



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Please send any articles
for the newsletter to
shelbyminier@gmail.com

**Starting in 2013, ALL testing sessions will be held at the
HACC Shumaker Public Safety Center.**

Tentative dates for 2013 include:
June 15, August 17, October 1, December 21
Testing starts at 9:00am

There will also be a test session on July 6 at the Firecracker Hamfest

Weekly HRAC Net

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

April Test Session Results

Results of the April 21, 2013 test session are as follows:

(4) Applicants

(3) Technician

(1) General

All Passed

We also introduced a NEW VE sign in sheet this session.

Thanks to the following VEs for their assistance:

Bill, KE3YC
Gary, KV3Q
Tim, KB3OZA
Richard, N3UGW
Steven, KA3PDQ
Rodney, N3QLB

Monthly Ham Radio Lunch

The last Thursday of each month there is a Ham Radio Lunch at the “Old Country Buffet” at noon (unless it is a major holiday).

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!

VE Team

As some of you have clicked and scrolled thru the newsletter to find my usual monthly nonsense, this month I would like to deviate from the usual light reading to a more worthwhile topic. That is of the VE (Volunteer Examiner) Teams. Not necessarily the great group of VEs that the Harrisburg Club sponsors, but any active Team that services the hobby.

Except for a brief report at the club meeting or in the minutes little is usually heard from these servants to the hobby. Almost all current Hams have to, at one time or another, present themselves to these guardians of the gate for extensive examinations.

I remember when I took my first tests and saw the gentlemen at the front of the room. I looked at them with sheer awe and worship as I knew they had reached the pinnacle of their hobby and where now keepers of that elusive CSE (Certificate of Successful Examination). These Hams who have dedicated their lives to guide the novitiate on their journey to the air waves have studied, been tested, certified and accepted by at least one national VEC (Volunteer Examiner Coordinator). In case of the Harrisburg Team at least two to administer the exams and process what at times seems an endless amount of paperwork.

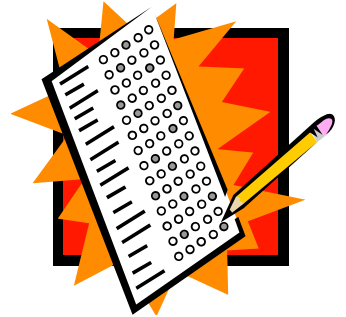
It sometimes takes longer to process the paperwork than it does for an applicant to take the test!

Because the HRAC (Harrisburg Radio Amateur's Club) Team holds its testing under the Laurel VEC someone has to be responsible for making the tests, copying all the associated paper work, and making sure everything is sent to the VEC as soon as possible so the successful applicant can get their ticket as quickly as possible.

I will be the first one to admit that after awhile, with experience, it does not take a long time to accomplish some of these tasks. However, the stress is unbelievable! Imagine, if you will, having spent a couple of hours printing new tests and answer keys going to that first session and seeing if someone will pass the test from the new pool! (The ARRL and others supply this material, but that's why it costs \$15.00 per attempt to take tests from these VECs) Why, yes boys and girls, that is correct.....if you go to an ARRL sponsored session it costs \$15.00 to take a test however you can take as many tests as you desire as long as you are moving up the food chain, which means you can take Tech, General, Extra all in one sitting for \$15.00. However, if you fail and need to retake a test at the same session it will cost you an additional \$15.00 for each retry that the Team will allow.

Oh did I mention the HRAC Team tests for FREE! With the exam schedule the HRAC Team follows there are 8 times every year plus special sessions that a person can present themselves for testing so there seems to be ample opportunities to get to a session. At the club meetings I often say that the HRAC VE Team has the greatest bunch of guys that I have ever had the pleasure to work with. The Club is VERY fortunate to have such a group, I continue to see and hear from other Teams who only wish they had the turnout from the VEs that we enjoy and this is quite evident considering the new proposal to reduce the number of VEs to administer the exams from the current three to a proposed two and in certain situations that a session can be conducted remotely with NO VEs on the physical site. I hope this article will shed some light on what your VE Team is up too. Also, it would be nice if the club could provide coffee and donuts for the VEs at each session.

Steven Gobat, KA3PDQ



Ham Radio Nets

Adams County Amateur Radio Society
Tuesday 7:30 145.35 PL 103.5 except club meeting nights.

Appalachian Amateur Radio Group
Sunday 8 PM 146.64 PL 82.5 and echolink 149493
Thursday 8PM 146.64 PL 82.5 NTS traffic net

Berry Mountain Amateur Radio Club
Tuesday 9PM 147.24 PL 123.0

Cumberland Amateur Radio Club
Wednesday 8PM 28.400

Cumberland Valley Amateur Radio Club
Sunday 9 PM 147.12

Ephrata Area Repeater Society
Monday 9 PM 145.45 PL 100.0
Friday 9PM 146.61 PL 131.0 Digital Net

Harrisburg Radio Amateur Club
Mondays at 1900 local time on the 145.110 repeater PL 123 (Data Net)
Wednesday 8 PM on the 146.76 repeater *Except for the second Wednesday of the month, which is club meeting night*

Keystone VHF Club of York
Monday 8:30 PM 146.97 PL 123.0
Tuesday 8 PM 146.97 PL 123.0 Keystone Digital Net
Wednesday 9PM 146.97 PL 123.0 QCWA net

Lancaster Radio Transmitting Society
Thursday 9 PM 147.015 PL 118.8

Lebanon Valley Society of Radio Amateurs
Tuesday 8 PM 147.315 PL 82.5

PennMar Radio Club
Tuesday 8 PM 147.33 PL 123.0
Sunday 8:30 28.450 Dew Drop Inn net
Friday 8 PM 28.495 South Central PA net
Thursday 8:30 146.55 Tri-State Simplex net

Red Rose Repeater Association
Wednesday 9PM PL 118.8

South Mountain Repeater Association
Monday 8 PM 146.46 PL 67.0 Capitol Area Traffic net
Monday 9 PM 145.43 PL 67.0

Tuscarora Amateur Radio Association
Sunday 8 PM 147.045 PL 146.2

If you know of a ham radio net not listed (or see a net that needs corrected) please e-mail the information to shelbyminier@gmail.com
We will keep adding to the list.



TMI Drill 2013

This year the TMI drill was a unique exercise in that the scenario was a terrorist takeover of the island.

I participated in a tabletop of the exercise and it elevated to a higher alert status very quickly.

Because the tabletop exercise escalated so quickly, we were being asked to report earlier than usual to EOCs. We could also report without formally being activated.

There were also indications there may be attempts to take over some of the municipal EOCs. Although credentials were not available for all responders, some EOCs were asked to provide credentials for their staff.

This exercise was widely advertised in newsletters, announced at meetings and posted on the Yahoo Group message board.

I was asked by Dauphin EOC to provide coverage for six (6) EOCs that were being evaluated. There are many more EOCs in the county. Staffing was not set for these six until noon that day. Frankly, we do not have enough volunteers.

In addition I was requested to provide additional operators for more EOCs during the drill.

We are not requiring training be completed prior to participating. I am going to advertise ICS training opportunities for all.

Another challenge was the email that day at 10:30 AM from PEMA operators indicating they were using FLDIGI for all traffic. None of the stations are equipped for digital. Most of the operators had no experience with a digital net. During the evening traffic from PEMA was also relayed with voice using digital.

My understanding was only one station in the area received PEMA traffic. No one was prepared.

During the event no actual traffic was passed through the amateur radio operators. We were underutilized. This will be addressed with the Dauphin County Emergency Operations Center.

Marty Gutekunst, KB3BAA

Long Delayed Echoes

Looking back through the rich history of the Harrisburg Radio Amateur's Club
Compiled by Mark Robinson (WB3JIS)

Has the warmer weather encouraged you to get outside and work on your antennae? Dick Kerlin, K3AM, had this brief article published in the September 1993 newsletter. Many things in our world have changed since then but I'll bet the sun still works the same.

MORE ON NORTH EASY WAY NORTH

The method that was described in last months news letter to locate true north probably works ok but it does seem a bit hard to accomplish.

The following method is one I have used and it is easy. At high noon a vertical pole, tower, or side of a building will cast a shadow to true north. High noon here according to the Pennsylvania Game Commission or the solar-lunar tables tell us that high noon is 12 minutes after the hour. Therefore, 12:12 for eastern standard time or 1:12 daylight time, what could be easier. Then there is the pole star, you can beam on it at night.

Dick K3AM

Radio Amateurs Provide Communication Support in Boston Marathon Bombings

04/16/2013

As has happened many times in years past, over 200 Amateur Radio operators participated in communications for the Boston Marathon on Monday, April 15, 2013. Unlike prior challenging situations such as very warm weather for the runners or other weather-related challenges, this year's marathon will be remembered for the bombings that took place at the finish line. Despite this heinous act, professional first responders, medical volunteers from the American Red Cross that staffed the route, and Amateur Radio operators performed magnificently in the face of adversity.

"Within minutes, cell phone systems became overloaded and making phone calls and text messages was difficult. Amateur Radio operators performed communication duties under duress and performed admirably. No Amateur Radio volunteers were injured on the course in this terrible act," said Steve Schwarm, W3EVE, who is the Amateur Radio Course Communication Coordinator and associated with a consortium of clubs and groups known as Marathon Amateur Radio Communications (**MARC**).

"At the finish line net control, which was only 400 feet from the initial blast, we heard the explosion. I poked my head outside to confirm what I thought it was and saw the white smoke. We immediately knew what had happened and commenced a roll call of all ham operators and medical tents. State Police authorities initially ordered us to lock down and post a ham for security watch outside the net control trailer. Thankfully none of our people were hurt," said Paul Topolski, W1SEX, Amateur Radio Finish Line Coordinator.

Following the explosion and roll call, Topolski stated that they began pulling together updates and sent the information via the Massachusetts Emergency Management Agency (MEMA) Web-EOC software tool and provided updates via Amateur Radio. Shortly after sending a few updates both Boston Police and Massachusetts State Police gave the order for the tent area to be evacuated. "In my mind, the course end of things is where a lot of work needed to happen as runners eventually needed to be stopped, congregated and transported to safety and staging areas," Topolski said. "At the finish line, our job was to check on the safety of our people, provide those initial updates and evacuate per police instructions. Three of our Amateur Radio operators redeployed to the Boston Marathon Course Net Control Center."

Across the course outside of the finish line after the bombings occurred, first aid stations were consolidated to larger first aid stations to pool runners for pickup and to keep runners warm as there were enhanced tents along the route where runners could be kept warm and hydrated. At the Heartbreak Hill first aid station, amateur operators had a complete base station setup, including a computer, and were prepared to handle health and welfare traffic as required. Several shelters were set up along the route at churches and schools, and Amateur Radio operators from secured first aid stations went to those shelters, providing communications in those areas until runners were moved out of their locations.

"My role at the request of Steve, W3EVE, as event organizer before the race was to shadow the course medical tent coordinator for the Red Cross, Kandi Finch," said Rob Macedo, KD1CY, who is also the Eastern Massachusetts ARES Section Emergency Coordinator. "It was a challenging position but all organizers on both the Amateur Radio side and Red Cross side said things went well in coordinating during normal race conditions and particularly after the bombings."

At course net control, which was away from the bombings, ham operators controlled their nets calmly and professionally while also expressing an appropriate level of urgency. Over a dozen amateurs at the net control center pooled together to announce messages and keep status of changes along the course route as required.

Continued on the next page.....

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Net Control Center Coordinator, Karen Brothers, K1KEB, kept in constant contact with MEMA, where Terry Stader, KA8SCP, was stationed. Stader became the MEMA 'Ops' point person at the State Emergency Operations Center as runners were transported from the shelters to other staging locations. From his location at the EOC, Stader was able to sort out the sheltering plan and reception centers for the runners, subsequent transport of runners from shelter locations and give out information on MBTA bus and train operations.

Jim Palmer, KB1KQW -- who served as a net control at the Net Control Center -- stated that nets were doubled up on operators, to allow one person to operate the radio while the other listened and logged priority calls and ambulance requests, creating a more efficient operation. "Several ambulance requests for dehydration and exhaustion were handled due to the runners needing to be stopped," Palmer said. The specific net that Palmer ran also provided a link between the marathon course and the American Red Cross in its Cambridge facility. Lou Harris, N1UEC; Frank O'Laughlin, WQ1O, and Dan Howard, K1DYO, staffed the Red Cross in Cambridge.

Many amateur operators who volunteered along the marathon route praised Net Control's support after the bombing. "Net Control did an awesome job," said course volunteer David Wihl, KB1VEG. "The workload was busiest after seven hours on the radio, and it didn't let up for another couple hours."

Several young radio amateurs from the Clay Center Amateur Radio Club also supported Net Control Operations, both as direct net control operators and runners for the operation as they have done in the past. This provided a tremendous learning opportunity for these young operators, from both an Amateur Radio perspective and an overall learning perspective.

"Despite the total lack of warning in this situation, amateurs followed a creed I've long since preached since the 9/11 terrorist attacks and the mutual aid response to those attacks: 'blessed are the flexible for they will not get bent out of shape,'" said Steve Schwarm, W3EVE. "Amateurs on the course did what they had to do to assure their own safety and runner safety working with the Red Cross medical people. They did an outstanding job and I was told so by Red Cross organizers as well."

From an ARES perspective, a heightened state of awareness on the Boston Marathon event is typical, but within 15 minutes of the bombings, Eastern Massachusetts ARES Assistant Section Emergency Coordinator, Carl Aveni, N1FY, issued an ARES Stand-By and requested that amateurs give availability for the next 24 hours. Within minutes, 20 amateurs offered their availability.

The ARES sub-regional command center at the Acushnet, Massachusetts EOC (under call sign WA1EMA) was utilized as a control point to obtain critical situational awareness of the rapidly changing situation, as well as to monitor resource nets per a report filed by Acushnet Emergency Management Communications Officer Ed Caron, KA1RSY; he also serves as the South Shore Massachusetts ARES District Emergency Coordinator. A total of five Amateur Radio operators were deployed to this facility. An ARES resource net was called on the 147.18 Bridgewater repeater with Byron Piette, K1YCQ, as net control with 11 stations checking into the net.

"In terms of having amateurs within ARES who cannot get directly involved in the marathon, we have a process where we have them monitor in case of a situation like what occurred on Monday. That process paid off and facilitated a rapid response to our request for possible additional support," said Carl Aveni, N1FY.

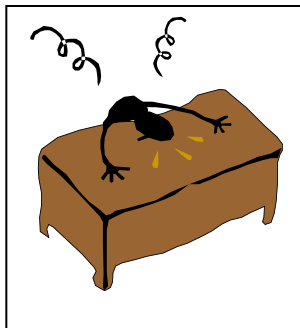
Some radio amateurs who volunteered in the Boston Marathon have posted their stories online; read one such [story](#) is from Tim Carter, W3ATB, of Meredith, New Hampshire.

Operators to Support Gettysburg Reenactment

Ham radio operators will be needed to help with communications between aid stations at Gettysburg reenactments July 4th-7th, the 150th anniversary of the battle of Gettysburg.

Ham radio operators will be paired up to provide backup communications between aid stations that will be comprised of Adams County EOC dispatch and local medical treatment centers. Teams will operate for up to a ten hour shift having to arrive at their assigned locations prior to the general public and any reenactment activities starting.

For further information or to sign up contact Marty Gutekunst, KB3BAA and 439-8971 or kb3baa@arrl.net



Letter from the Editor

Shocking.....nothing at all from me this month, except the news!

Shelby, K3EMT

Swap and Shop

This is an area for ham radio operators, members and non-members, to list radio/electronic items that they want to sell or that they are looking to purchase.

If you are looking to unload something, or seeking something to add to your ham shack, please e-mail shelbyminier@gmail.com.



At the April meeting Joe, KQ3F, gave a presentation on hurricanes. This was after he attended the National Hurricane Conference in New Orleans.

(see article, page 12 & 13)

Local Repeater Information

146.76 (100) W3UU Blue Mountain

147.075 (123) W3UU Ellendale (Dauphin County)

146.79 (114.8) KB3TWW Reeser's Summit

145.11 (123) W3ND Ellendale

145.29 (123) W3ND IRLP NODE 7060 Blue Mountain

145.47 (123) W3ND Blue Mountain

224.18 (123) KA3RKW Blue Mountain (Halifax Radio Club)

444.45 (123) W3ND Blue Mountain

444.55 (123) W3ND Newport

446.425 (123) W3ND Reeser's Summit

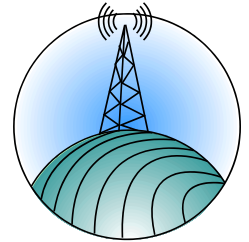
448.075 (123) W3ND Ellendale

147.24 (123) KB3VDL Elizabethville (Berry Mountain Amateur Radio Club)

145.21(123) WB3EYB Harrisburg, on mountain north of Linglestown

145.430 (67) South Mountain Repeater Association, Mt Holly Springs

146.46 + 1mhz (67) Western Cumberland County & Perry County, Echolink N3tw-r



If you are interested in advertising in the newsletter, please contact Terry Snyder,
WB3BKN at terry@djerry.com

or Shelby Minier, K3EMT at shelbyminier@gmail.com

KQ3F at the National Hurricane Conference

Some of you may know that I was selected as a member of the Hurricane Watch Net (www.hwn.org) in 2012. This organization mobilizes a net on 14325 KHz when hurricanes get close to populated areas. The net members relay weather conditions from the areas affected by the hurricane to the National Hurricane Center in Miami. The net also collects damage reports, as required.

Last fall I was reading the HWN newsletter and saw a mention of the National Hurricane Conference in New Orleans. Due to a "thing" I won't bore you with, I decided to live a bit more in the moment. I latched onto the idea that the National Hurricane Conference could be fun. My wife Debbie latched onto the idea that New Orleans could be fun. We were both right.

So I registered for the conference, paid the fee, and signed up for some free software classes during the conference (who takes classes on vacation?). I let the HWN people know I was attending, on my own dime, of course. Well, that led to some behind the scenes activity and the next thing I know I was asked if I'd like to speak to the assorted rabble about HWN. Uhhhh, yeah, sure, OK. One question...what do I say? Fortunately, they had a Powerpoint presentation available. All I had to do was update it and I was ready to go.

Getting to New Orleans was uneventful. Oh, don't worry if you can't visit Bourbon Street on a Saturday night. Show up Sunday morning and you can smell Saturday night (hint...it ain't the smell of lilacs in bloom). But I digress. I got my conference materials later on Sunday and was ready to go.

This conference is apparently a very big deal. In addition to National Hurricane Center (NHC) luminaries, all sorts of emergency management, meteorology and media people show up. Pretty much anything you want to learn about hurricanes you can learn here.

Monday was amateur radio's day. I don't want to give the impression it was all about amateur radio, it wasn't. There are about six different tracks during the day and amateur radio was but one of them. We heard from hams who man WX4NHC during hurricanes and also from emergency management personnel about hurricanes Sandy and Isaac. The general impressions ranged from "ham radio was a tremendous help" to "you were kind of irrelevant" (I'm not kidding). Dr. Rick Knabb, Director of the NHC spoke in the afternoon, just before me. He could not reiterate enough the benefits hams bring to NHC forecasting capabilities. His key point was that we never know which report brought in by ham radio will be the key to confirming or changing a forecast. Every report, no matter how trivial it seems, could be THE report that makes a difference. He even mentioned wanting to get a ham license.

Then it was my turn to speak (tough act to follow). I gave the same presentation at the March HRAC meeting, so I won't delve into specifics. Let's just say it seemed to go well. Those who want to view my presentation, and all the others relating to amateur radio, can visit <http://www.nsradio.org/stream.htm>. My presentation is "Hurricane Watch Net Overview". I was then asked to be on a panel at the end of the day, as if someone thought I had any idea what I was talking about. That's the "Amateur Radio Wrap Session" at the web site mentioned previously. Since the entire event was streamed live, we were able to answer questions in real time from anyone with access to the stream.

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The rest of the week was spent listening to presentations by people who've forgotten more about hurricanes than I'll ever know. I couldn't get enough of the presentations by NHC people. The new products they have planned for release in the next few years are outstanding. My favorites were the storm surge maps and warnings. So in addition to the hurricane/tropical storm watches and warnings, NHC will also issue storm surge warnings if necessary. OK, I know that storm surge warnings may not be of particular interest in Harrisburg. But keep in mind that most hurricane damage is caused by water (especially storm surge), not wind, so people along the coasts will definitely appreciate the additional information.

Frankly, by 5 PM Thursday I'd had enough of wind, water, destruction, etc. But it was an outstanding conference and a lot of fun. Next year's conference is in Orlando. I'm less enamored of Mickey than I am of New Orleans, but we'll see.

73, Joe KQ3F



KQ3F (center) with WX4NHC administrators John McHugh, K4AG and Julio Ripoll, WD4R



KQ3F pontificating about "something" during the panel discussion



Amazing who you run into at these things!

(KQ3F with The Weather Channel's Jim Cantore)

Force 12 C3 Antenna Being Moved from the Red Cross Building



The antenna move took place on April 23rd and April 30th.

*Photos on page 14 by K3EMT.
Photos on page 15 by WB3BKN*



W3UU - Harrisburg Radio Amateur Club – 41st Annual

NEW DATE

Saturday JULY 6 2013

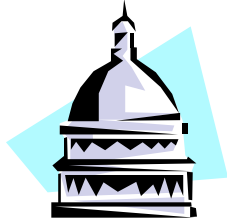
NEW DATE



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**
- ◆ **Over 500 tailgate spaces available**
- ◆ New and Refurbished equipment dealers on site
- ◆ **ARRL Sanctioned Hamfest / 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

**Special Event
Station**

W3W

**In operation at the
Convention**

General Admission: \$5.00 (XYL & kids free)
Tail Gating: \$5.00 per space
Tables: \$12 each before June 1
\$15 on or after June 1

General Admission: 8:00am
Dealer Setup: Hamfest Day 6:00am
Prior Day 6:00pm-9:00pm (Strictly Enforced)

For further information contact:
Web Site: www.w3uu.org
Email: WB3BKN@gmail.com

Tel. 717-896-0256

Terry Snyder, WB3BKN
PO Box 355
Halifax, PA. 17032-0355

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

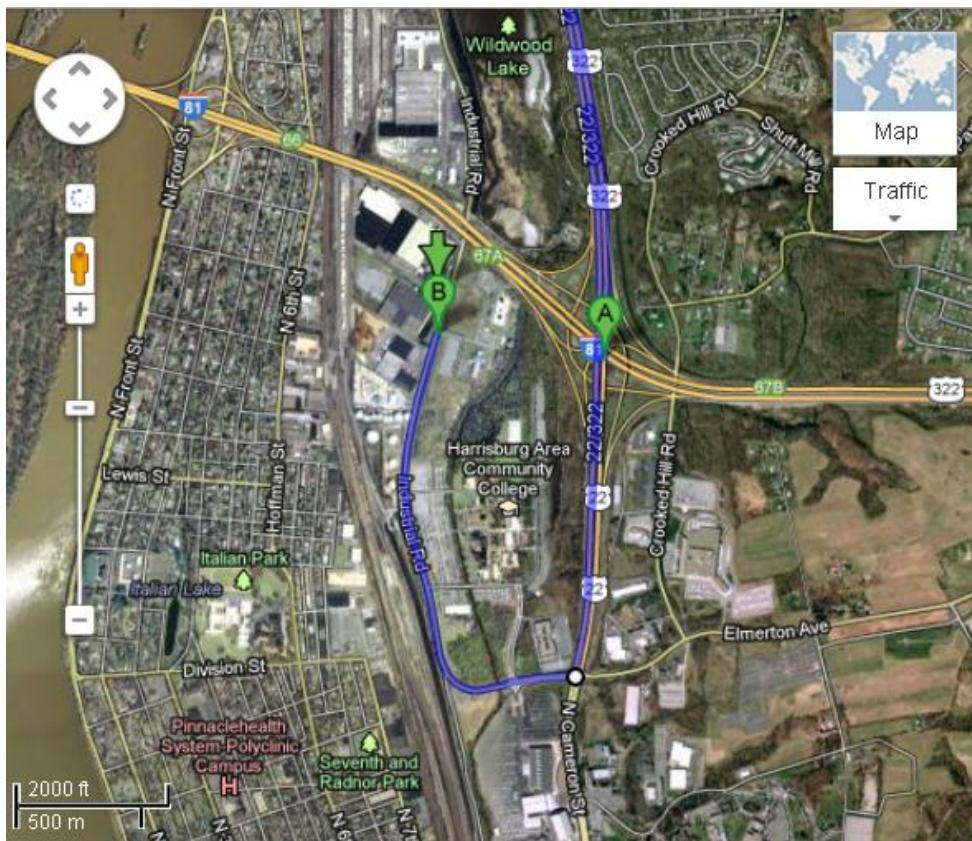
Continue on Wildwood Park Drive and road will become
Industrial Road. Hamfest / Convention is 3/4 mile on RIGHT

3599 Industrial Road, Harrisburg, Pa 17110

40.303645,-76.888379

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**

Chair: Terry Snyder (WB3BKN)

MEMBERSHIP APPLICATION

MAIL TO:
Tim Lehman (KB3OZA)
PO Box 453
Harrisburg, PA 17108-0453
717-982-8550

Make checks payable to HRAC—Membership is \$15.00 (\$7.50 if c
Dues end May 31st.

NAME _____ CALL SIGN _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ E-MAIL _____

ARRL Member: Y _____ N _____

SIGNATURE _____ DATE _____

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