



# CROSSTALK

Issue 56:05 56 Years Of Service To Our Community

May 2015

## 2015 Club Officers

<b>President :</b>	<b>Jim Wright, N2GXJ</b>	<b>Trustees - 4 year term</b>	
<b>Vice President :</b>	<b>Cory Sickles, WA3UVV</b>	<b>Martin Wilt, W2ILT</b>	<i>(2012-2015)</i>
<b>Treasurer :</b>	<b>Al Arrison, KB2AYU</b>	<b>Ray Martin, W2RM</b>	<i>(2014-2016)</i>
<b>Recording Secretary :</b>	<b>Sheldon Parker, K2MEN</b>	<b>Brian Jones, KD2BXD</b>	<i>(2014-2017)</i>
<b>Corresponding Secretary :</b>	<b>Ron Block, NR2B</b>	<b>Bob Demola, KD2GFL</b>	<i>(2015-2018)</i>

### Board of Directors - 3 year term

<b>Jeffrey Garth, KC2WCS</b>	<i>(2013-2015)</i>	<b>John Zaruba Jr, K2ZA</b>	<i>(2014-2016)</i>
<b>Mark Townsend, W2OCY</b>	<i>(2013-2015)</i>	<b>Chuck Colabrese, WA2TML</b>	<i>(2015-2017)</i>
<b>Dan Tremolini, N2TXG</b>	<i>(2014-2016)</i>	<b>Bill Price, NJ2S</b>	<i>(2015-2017)</i>

### *This Month's Calendar...*

**General Membership Meeting**  
 Wednesday, May 6, 2015 @ 1930 Hours  
 Pfeiffer Community Center

**Tech Saturday Forum**  
 Saturday, May 9, 2015 @ 0900 Hours  
 GCARC Clubhouse

**VE License Testing Session**  
 Thursday, May 14, 2015 @ 1900 Hours  
 Franklin Township Public Library  
 Gary Reed, N2QEE  
[glreed49 <at> verizon <dot> net](mailto:glreed49@verizon.net)

**Board of Directors Meeting**  
 Wednesday, May 20, 2015 @ 1900 Hours  
 GCARC Clubhouse

**GCARC 2M Ragchew Net**  
 Thursday, May 21, 2015 @ 2000 Hours  
 147.180 MHz Repeater

**GCARC 11: 00 am Brunch**  
 Every Friday @ The Seven Star Diner  
 1890 Hurffville Road, Sewell, NJ

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# President's Message



What do the Kentucky Derby, Star Wars Day, Cinco de Mayo, Mother's Day, Towel Day, and Memorial Day all have in common? Of course, they're all celebrated in the month of May!



Will it be an American Pharoah or Dortmund to Carpe Diem this year (a Derby trifecta prediction)? It's tradition. It's Mint Juleps. It's the greatest two minutes in sport. The elusive quest for the triple crown starts with the run for the roses each year. Secretariat. Seattle Slew. Affirmed. Nobody has done it since those three did it back in the 1970's. The 1970's! We've come a long way since those old "CB" radio days. Will this be the year?

If the Kentucky Derby is not your speed, perhaps Indianapolis has something more to your liking. The Indianapolis Motor Speedway ARC callsign W9IMS will be on the air twice this month, and if you've not scored one of their QSL cards before, they're awesome! Top notch glossy QSL cards to collect with an SASE the old fashioned snail mail way. If you want to chase them, try 40 meters May 6-9 for the Grand Prix of Indianapolis, and May 18-24 for the Indy 500 Special Event. More info and card examples at [www.grz.com/db/w9ims](http://www.grz.com/db/w9ims).



Are you a fan of Ham Nation? They hit their 200<sup>th</sup> episode this month; a Bicentennial Broadcast! Be part of the celebration, as they host 6 on-air special event stations W0H, W1H, W5H, W6H, W7H, and W9H from May 27-June 4. A certificate is available for working at least 4 of them. Not yet a fan of Ham Nation? They're live every Wednesday, with past episodes also available online at [www.twit.tv/show/ham-nation](http://www.twit.tv/show/ham-nation).

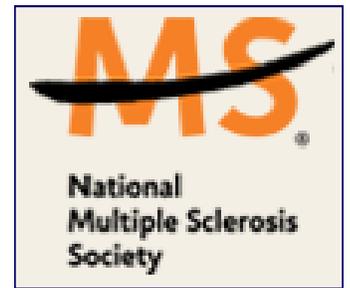
On a more serious note, are you, or someone you know, antenna restricted due to homeowners' association regulations or deed restrictions? It is time for a change. And HR-1301, the Amateur Radio Parity Act of 2015 is that change. Now introduced in the US House of Representatives, the measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. If there has ever been a time to write your Representative in support of your fellow Ham radio operators, this would be it. I mailed my letter to Representative Don Norcross this morning. Details at [www.arrl.org/hr-1301](http://www.arrl.org/hr-1301). Won't you consider writing to support this grass roots effort too?

As a general interest club, our members are as diverse in our interests as are those of the distinguished guest speakers that we have the privilege of learning from each month. Yet we all share a common bond in this community we call ham radio.

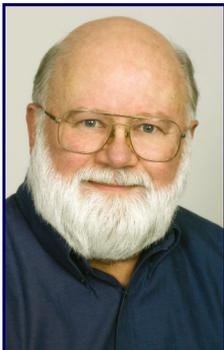
*President's Message - Continued on page 3*



At the next meeting we'll reprise our recent field trip to be radio operators on board the Battleship New Jersey, and communications support provided to the MS Walk at Washington Lake Park, and planned for the Tour De Pitman bike race on June 13.



And don't forget Tech Saturday Forum at the clubhouse May 9<sup>th</sup>, or the eQSL card contest! We'll get an update on plans for Field Day weekend June 27-28 (the biggest on-air event of the year), and for our Summer PotLuck Picnic at the Red Bank Battlefield Park on the Delaware River July 25. And mark your calendars now for our annual Hamfest out at the 4-H Fairgrounds September 13!



A special thank you to radio historian John Dilks, K2TQN, our featured guest speaker at our April club meeting. Those in attendance were treated to a rare glimpse into the history of a local radio legend.

This month, it is our honor to host world famous weak signals specialist Dr. Joe Taylor Jr, K1JT, as guest speaker for the May 6 club meeting.



The meeting starts at 7:30pm at the Pfeiffer Community Center in Williamstown, NJ. Directions are available on our website, [www.w2mmd.org](http://www.w2mmd.org). Visitors and guests are welcome. Hope to see you there!

Respectfully,  
Jim Wright, N2GXJ





CALL	DATES	HIGHLIGHTS	DIFFICULTY (5=MOST RARE)	ENTITY
S79RPS	05/02 - 05-08	HF	2	Seychelles
JD1YBT	05/02 - 05/11	All Bands/Modes & 2-3 Stations	3	Ogasawara Island
VK9X	05/07 - 05/10	40-6M/CW, SSB	4	Christmas Island
MT0IXD	05/08 - 05/11	80-10M/SSB, Digital	1	Isle of Man
8Q7BI	05/10 - 05/17	20-10M/Digital & Some SSB	3	Maldives
E6ZS	05/15 - 05/25	160-6M/Many Modes	3	Niue (EX-ZK2)
3B9	05/19 - 05/24	40-10M/SSB, RTTY	3	Rodrigues Island
XT2AW	05/20 - 06/25	HF/CW, SSB	2	Burkina Faso
FS	05/28 - 06/16	HF/160-10M (FB OP!)	1	Saint Martin
5U5U	05/30 - 06/16	40-6M/SSB, RTTY	3	Niger

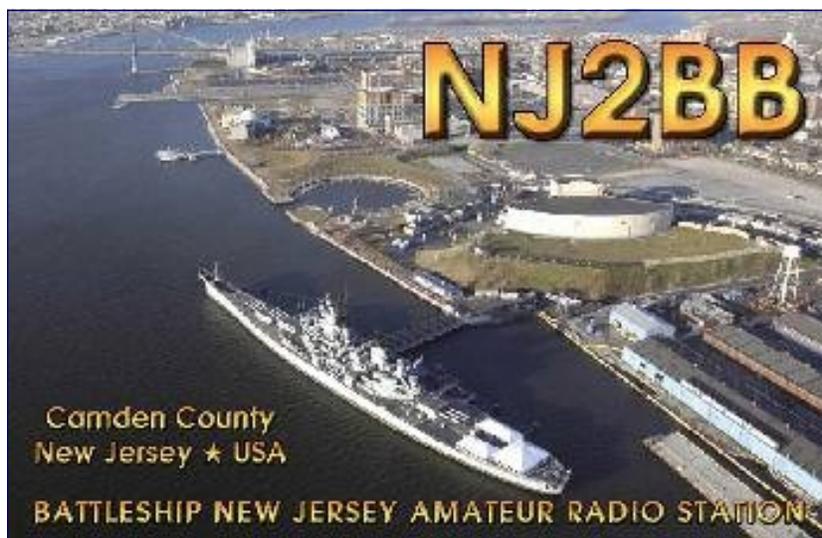
Credits : NG3K Announce DX Operations : [www.ng3k.com/Misc/adxo.html](http://www.ng3k.com/Misc/adxo.html)

*Editor's Note : Starting this month, you can also enjoy Down Jersey DXing on our website. Same great monthly propagation forecast column including the monthly DX Picks.*

### Guest Operators on The Battleship New Jersey : [www.nj2bb.org](http://www.nj2bb.org)

By Jim Wright, N2GXJ

GCARC club members were given the opportunity to be guest radio operators on board the museum ship Battleship New Jersey. Look for pictures from our visit to be posted soon on the website, along with a write up in the next edition of Crosstalk. It's fun to be able to do things like this with the club!



**ARRL Ham Radio License Exam Practice Website**  
[www.arrlexamreview.appspot.com](http://www.arrlexamreview.appspot.com)



## March 2015 SNJ Section Report

It appears the weather is finally breaking and it's even time to start turning our minds toward future outdoor activities such as **Field Day, June 27-28, 2015**.

This month I had the pleasure of attending the Cape May County Amateur Radio Club's regular meeting ([www.cmcarc.org](http://www.cmcarc.org)). I also had the chance to attend the Burlington County Radio Club's Spring Brunch ([www.k2td-bcrc.org](http://www.k2td-bcrc.org)).

My academic duties should be winding down by mid May, so I hope to get to some of the clubs that meet on nights I am currently lecturing.

Speaking of the Month of May, we all know that is the time of the Dayton Hamfest and ARRL Convention ([www.hamvention.org](http://www.hamvention.org)). I have been invited to be part of the HQ Support Staff this year. It will be my first time out to the "Big Show" so I am excited. Keep an eye on the ARRL Booths and events, you'll find me there.

If you have been following the ARRL Website, you know that we have a big push on to support The Amateur Radio Parity Act of 2015 – Currently being put before Congress as HR- 1301. Details of the bill and how you can lend a hand to see it passed can be found at: [www.arrrl.org/hr-1301](http://www.arrrl.org/hr-1301). Please take a few minutes to contact your representatives to voice your interest in this important piece of ham radio legislation.

Assistant Section Manager Gary Wilson K2GW gave a presentation on Amateur Radio and Scouting at the March meeting of the Burlington County Radio Club. Gary has long been an advocate for bringing Scouts into our hobby and he remains a great resource for our Section in this area. He has also been instrumental on seeing that the "ARRL Amateur Radio Service to Scouting Award" is moving forward in our Section.

On March 14, 2015, The David Sarnoff Radio Club ([www.n2re.org](http://www.n2re.org)) hosted a Special Event Station celebrating "Pi" Day and Albert Einstein's Birthday. They operated from their club station using the callsign N2RE. Special Event operations such as these bring great exposure for the club and the Section. Very well done!

The ASM's and I are looking to expand the Section Team footprint by adding Assistant Section Managers to Camden, Cumberland, Gloucester, and Salem Counties. This would give us Senior Team positions to support county activities and events directly. If you know of anyone who might be willing to take on these roles please let me know.

We are still looking for qualified folks to expand our OO and TS programs as well.

I deeply regret to inform everyone that Cape May County Amateur Radio Club lost its oldest member this month. Bill Maher, N4VUX just passed his 99th birthday. He will be missed by all who knew him on and off the air.

Gloucester County Amateur Radio Club - W2MMD will be holding its monthly Tech Saturday Forum on Saturday, April 4, 2015 at their clubhouse at the 4-H Fairgrounds in Mullica Hill, NJ. Activities start at 0900 Hours. All are welcome, hams, non-hams, club members, and non-members. Learn more about Amateur Radio, take a tour of our clubhouse and antenna farm. More info at [www.w2mmd.org](http://www.w2mmd.org).

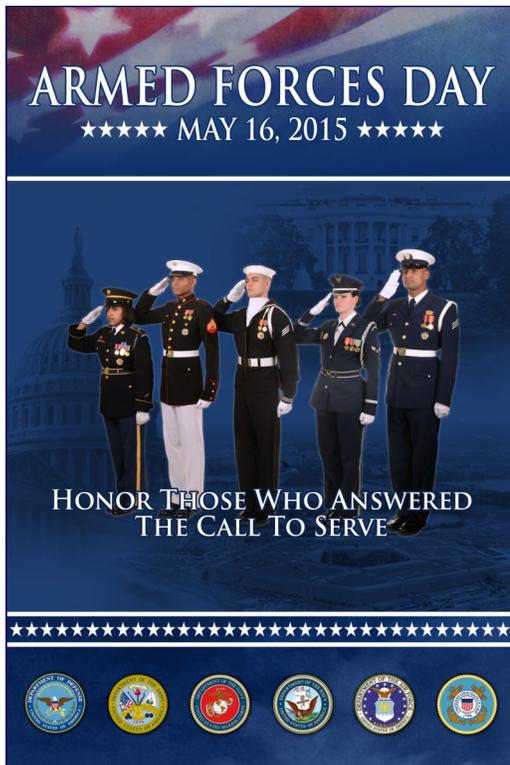
*SNJ Section Report - Continued on page 7*

The Holiday City Amateur Radio Club will hold their Spring Chinese Luncheon at Noon on April 8, 2015. It will be held at the Fusion Buffet, 1256 Indian Head Rd, Toms River, NJ 08755, located at the intersection of Rt. 9 and Rt. 571, The Club will have a reserved section, and the cost will be \$10 a person. More information can be found at: [www.hcsrc.us](http://www.hcsrc.us)

Sunday, April 26, 2015 is the date for "The Hamfest by the Shore" sponsored by the Jersey Shore Amateur Radio Society at Riverwood Park - Riverwood Drive & Whitesville Road, Toms River, New Jersey 08753. Talk-in is on W2DOR/R 146.910 (-) PL 127.3. Doors open to vendors at 6:00 AM and to buyers at 8:00 AM. VE Exams begin at 10:00 AM. Additional information can be found on the JSARS Website at: [www.jsars.org](http://www.jsars.org).

73 de SKIP N2EI  
ARRL Southern New Jersey Section  
Section Manager: T J Arey, N2EI  
[n2ei@arrl.org](mailto:n2ei@arrl.org)

## **Annual Armed Forces Day Crossband Military Amateur Radio Communications Test - May 9-10, 2015**



The Army, Air Force, Navy, Marine Corps, and Coast Guard are co-sponsoring the annual military/amateur radio communications tests in celebration of the 65th Anniversary of Armed Forces Day (AFD) and the 90th Anniversary of MARS. Although the actual Armed Forces Day is celebrated on Saturday, May 16, 2015, the AFD Military/Amateur Crossband Communications Test will be conducted May 9-10, 2015 to prevent conflict with the Dayton Hamvention, May 15-17, 2015, which is the same weekend as the actual Armed Forces Day.

The annual celebration is a unique opportunity to test two way communications between Amateurs and military communicators authorized in 47 CFR 97.111, and features traditional military to amateur cross band SSB voice, Morse Code, practice using legacy interoperability waveforms, as well as an opportunity for Amateurs to utilize more modern military communications modes such as MIL-STD Serial PSK and Automatic Link Establishment (ALE). These tests give Amateur Radio operators and Short Wave Listeners (SWL) an opportunity and a challenge to demonstrate their individual technical skills, and to receive recognition from the appropriate military radio station for their proven expertise.

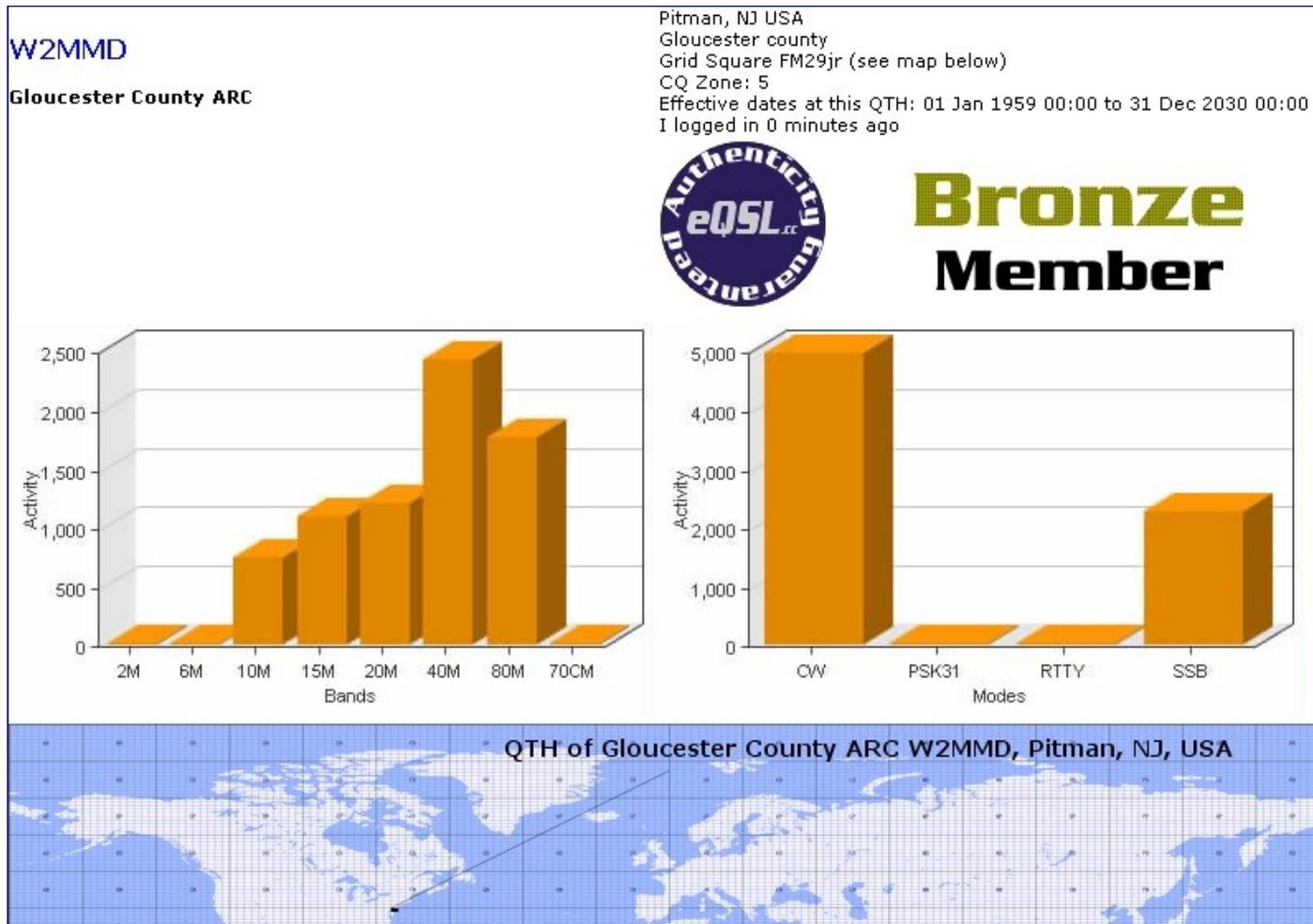
QSL cards will be provided to those stations making contact with the military stations.

More information at [www.usarmymars.org/home/announcements](http://www.usarmymars.org/home/announcements)

# May 20, 2015 : Club QSL Card Contest!

By Jim Wright, N2GXJ

As mentioned last month, our club now has Bronze status for a year with eQSL, the global electronic QSL card exchange for amateur radio operators and SWLs. Can you believe that we now have over seven thousand QSOs in the database for our club callsign W2MMD, from 1989 to this year (Feb 2015)? Wow!



Now it's your turn to help out. We are having a contest for club members to design the eQSL card for W2MMD that we will use this year to represent our club, our county, and our state to the rest of the radio world when they make contacts with us, starting with Field Day this year.

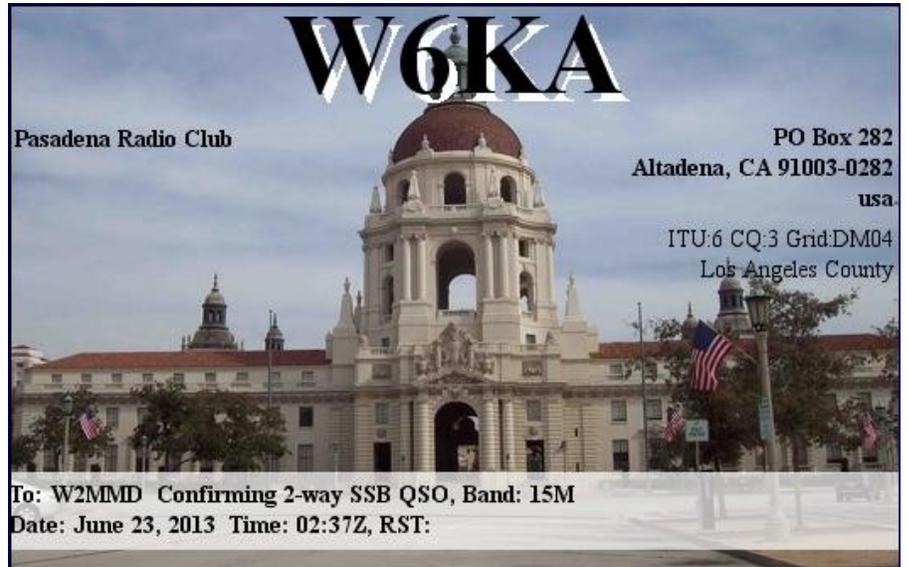
The rules are simple. We want to give all members the opportunity to vote on the card candidates in time for a selection to be made for our field day this year. So, the winning card will be voted on and selected by the members present at the regularly scheduled June club meeting. To have the candidates evaluated ahead of the June meeting, we would like to publish them on our website, and in our Crosstalk magazine, in time for publication of the June issue. To manage that, we're asking that you submit your entries via email to me, [jim <dot> n2gxj <at> gmail <dot> com](mailto:jim.n2gxj@gmail.com) by midnight on Wednesday, May 20, 2015. You may submit more than one entry, but if you do, make sure they have different file names. If you want to submit any explanation of your design in text along with your entry, you may do so.

*Club QSL Card Contest - Continued on page 9*

*Club QSL Card Contest - Continued from page 8*

The requirements for the image you are submitting are as follows (per eQSL):

- Design a GIF or JPG format graphic card that will look good when it is shrunk to 528 pixels wide by 336 pixels high.
- Callsign W2MMD, our QSL address, clubsite's grid locator, and all other static information needs to be on the graphic.
- Leave space for QSO details to be automatically printed in a shaded area at bottom of card overlaid onto the background, as shown in the example card on the right.



Good luck everyone. I look forward to seeing your entries by May 20!



## **Tech Saturday Forum : May 9, 2015**

**By John Zaruba, K2ZA**

The objective of the Tech Saturday Forum is to have an open discussion of subjects of Amateur Radio interest. All questions are welcome as well as a venue for members to show off their latest ham radio projects or gadgets. All are welcome - hams and non-hams - club members and non-club members.



Take a guided tour of our clubhouse. View our HF and VHF/UHF Operation Facilities and our vast antenna farm.

The Tech Saturday Forum is held on the Saturday after the General Membership meeting. The next one is May 9, 2015 at 0900 Hours. For more information, go to [www.w2mmd.org](http://www.w2mmd.org) on the Tech Saturday Forum page.



[www.facebook.com/W2MMD](http://www.facebook.com/W2MMD)

## Regional Hamfest and Events

**May 2, 2015 :** The Great Hagerstown Hamfest, Antietam Radio Association-W3CWC, Washington County Agricultural Center, Route 65 South Sharpsburg Pike, Boonsboro, MD. [www.w3cwc.org](http://www.w3cwc.org)

**May 3, 2015 :** Warminster Amateur Radio Club Hamfest, Middletown Grange Fairgrounds, 576 Penns Park Road, Wrightstown, PA. [www.k3dn.org](http://www.k3dn.org)

**May 8-9, 2015 :** Kutztown Radio Show, Delaware Valley Historic Radio Club, Renninger's Antique and Farmer's Market, 740 Noble Street, Kutztown, PA. [www.dvhrc.com](http://www.dvhrc.com)

**May 16, 2015 :** Ocean-Monmouth Amateur Radio Club Spring Hamfest, InfoAge Learning Center, Project Diana Site, 2300 Marconi Road, Wall Township, NJ. [www.omarc.org](http://www.omarc.org)

**May 23, 2015 :** Garden State Amateur Radio Association Hamfest, Monmouth/Ocean Educational Services Center, 100 Tornillo Road, Tinton Falls, NJ. [www.gardenstateara.wordpress.com](http://www.gardenstateara.wordpress.com)

**May 24, 2015 :** Memorial Day Hamfest, Maryland FM Association, Howard County Fair Grounds, Route 144, West Friendship, MD. [www.marylandfm.org](http://www.marylandfm.org)

**May 30, 2015 :** Bergen Amateur Radio Association Hamfest, Westwood Jr/Sr High School, 701 Ridgewood Road, Washington Township (Bergen County), NJ. [www.bara.org](http://www.bara.org)

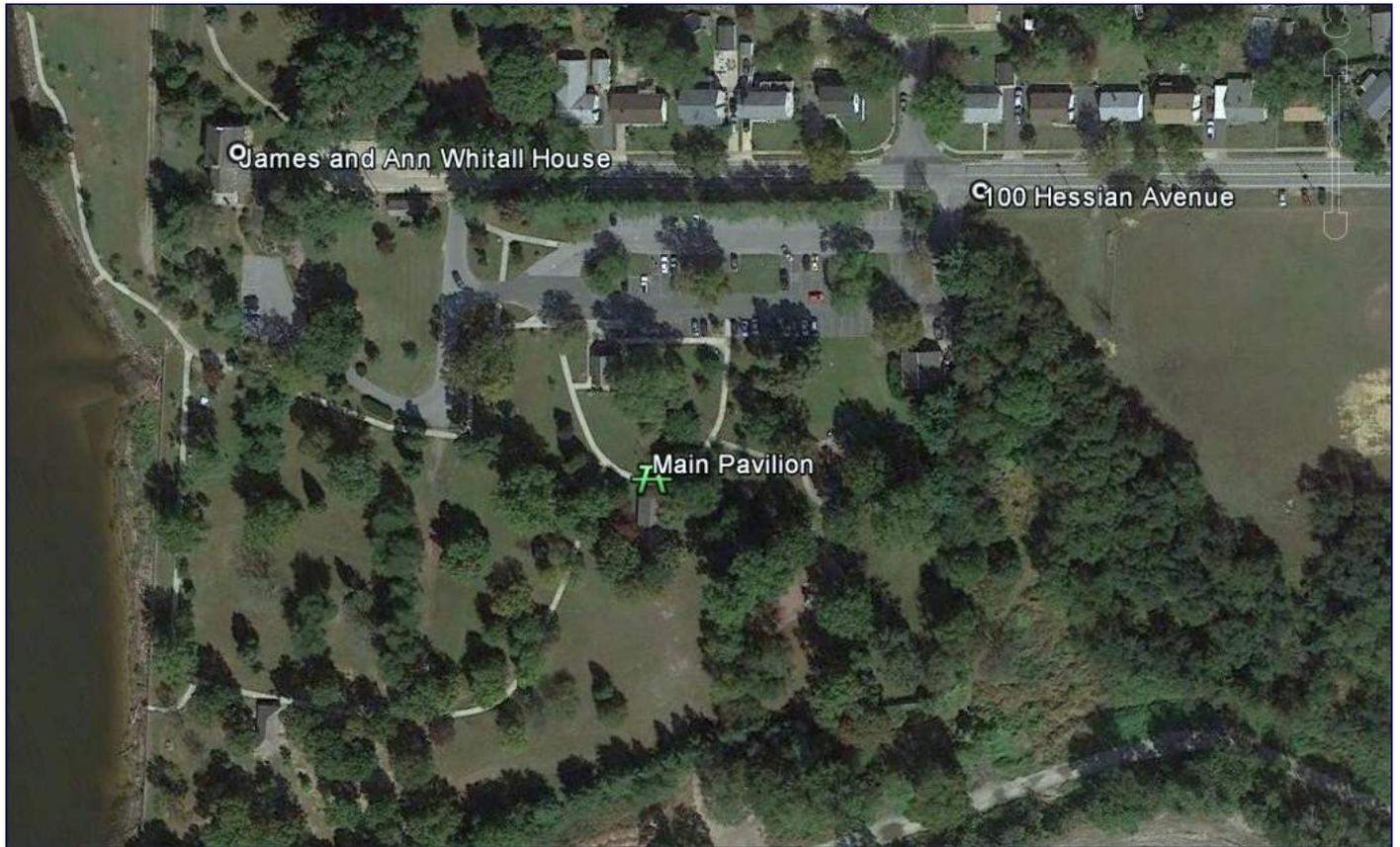
## Welcome New Club Members:

Joseph Arsenault, WA2KDV, who has a General class license and lives in Clayton, NJ. Joe is a returning member who originally started with the club in 1998.

Stephen Jordan, KB2RGZ, who has a Technician class license and lives in Franklinville, NJ.

We are glad to have you as members of the Club and hope to see you regularly at Club events, activities, and meetings.





## GCARC Summer PotLuck Picnic

**WHEN:** Saturday, July 25, 2015  
**WHO:** All club members, spouses, and family members  
**WHERE:** Red Bank Battlefield  
Hessian Avenue Pavilion  
100 Hessian Ave  
National Park, NJ 08063  
**TIME:** 1300 Hours  
**RSVP:** Jennifer Robinson, KD2EYR  
(856) 275-0086 or trailpie@gmail.com

The club will provide the paper goods, main dish, beverages, and homemade ice cream. Please bring a side dish or dessert to share (or make a donation and we will take care of it for you!). If you are not sure what to bring, call or e-mail Jennifer, she has a list of side dishes and desserts needed.

*PLEASE NOTE: Jennifer is VERY ALLERGIC to seafood, so if you bring a dish that includes any kind of tuna/ fish or shellfish, please be sure that it is MARKED clearly so someone else can handle that particular dish. Thanks for your understanding!*

**GPS Heading : 39.869200°, -75.189935°**

*Summer Picnic - Continued on page 12*

**From Philadelphia & Points North:**

- Take the North-South Freeway (Route 42) to I-295 South.
- Exit 23 "National Park" make right onto Hessian Avenue (County Route 642).
- Approximately 2 miles Hessian Avenue ends at the park entrance.

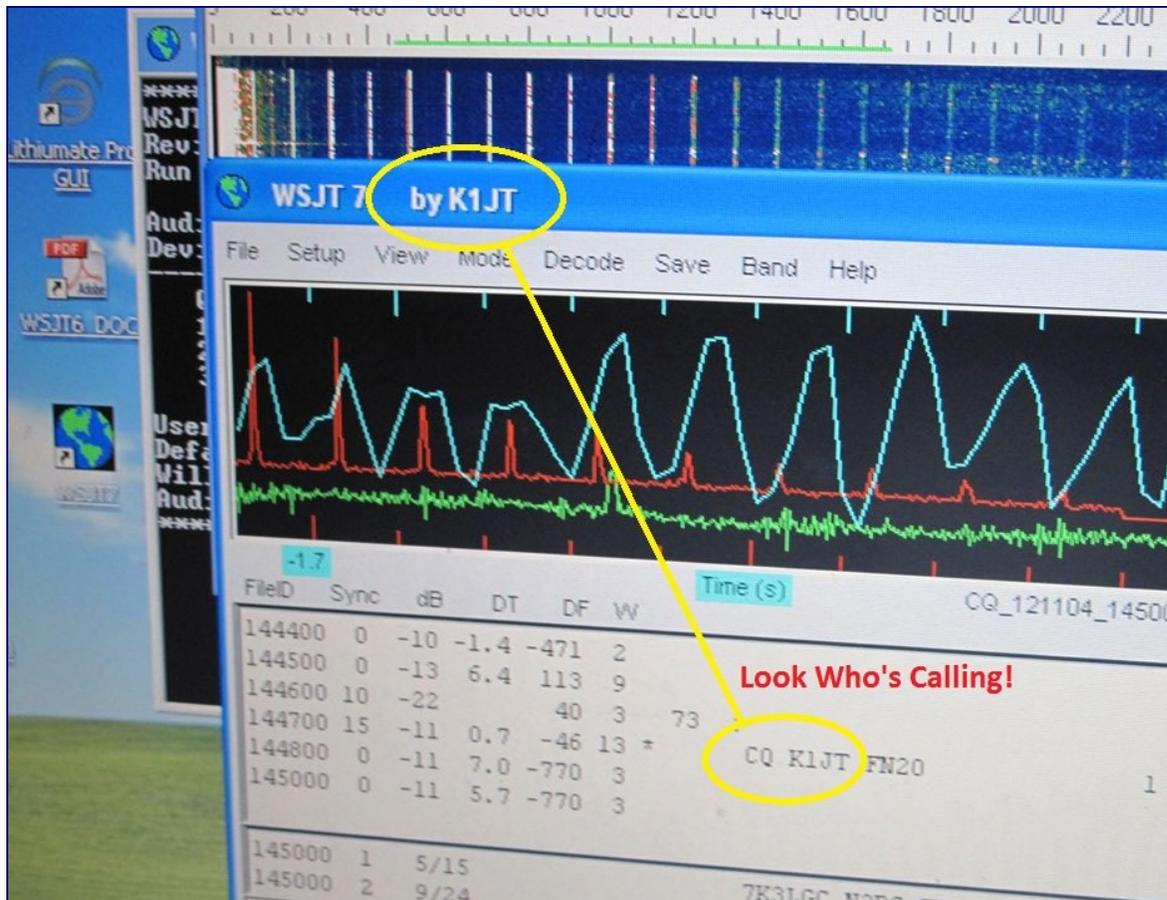
**From Points South:**

- Take I-295 North to Exit 21 "Woodbury".
- Make left onto Delaware Street (County Route 640).
- Delaware Street ends at Grove Road (stop sign), County Route 643. Make right.
- First traffic light at Hessian Avenue (County Route 642) make left Hessian Avenue ends at park entrance.

**From Points East:**

- Take 322 West into Glassboro.
- Make right onto Route 47 (Delsea Drive).
- At 5 points intersection, take jug handle and continue on Route 47.
- Take Route 47 into Deptford, at the intersection of Cooper Street (County Route 640) make a left.
- Follow Cooper Street through Woodbury past the County Court House, Cooper Street becomes Delaware Street, but remain on County Route 640.
- Follow Delaware Street till it dead-ends at Grove Road (County Route 643), at stop sign make a right.
- At the first traffic light, make a left onto Hessian Avenue (County Route 642). Hessian Avenue ends at Park entrance.

Look who's  
calling  
Jim  
Wright,  
N2GXJ!





TALARC President Marty Justis, right, and Vice President Bill Sloan, center, interact with fellow hams at the 2014 Dayton Hamvention, the world's largest amateur radio gathering. Photo by Mike Anthony

## THE AMERICAN LEGION AND HAM RADIO

In 2011, the National Executive Committee established The American Legion Amateur Radio Club (TALARC). Licensed by the Federal Communications Commission, the club station operates from National Headquarters in Indianapolis with the call sign K9TAL (The American Legion). Through the club, Legion posts are encouraged to participate in amateur radio licensing and emergency communications. Legion, Auxiliary and Sons of The American Legion members who are in good standing and hold valid FCC amateur licenses are eligible for free membership in TALARC.

“We are a nationwide volunteer unit that can aid community, state and national emergency management officials during civil or natural disasters,” says Marty Justis, TALARC president. “Our strength lies where the Legion is most visible: within the communities served by American Legion posts.”

Members of TALARC are active as volunteers with the Amateur Radio Emergency Service (ARES), the Radio Amateur Civil Emergency Service (RACES) and local emergency management agencies. TALARC conducts monthly national radio network operations (“nets”) with club members, and conducts special on-air events on Veterans Day and the Legion’s birthday in March.

Regional radio nets are conducted independently by TALARC members nationwide to train and discuss disaster preparedness issues in their areas. The California American Legion’s Amateur Radio Commission conducts its own net operations, overseeing the program’s growth within the state.

*American Legion - Continued on page 14*

Some American Legion posts have amateur radio stations installed on site and work with their local emergency management agencies on training exercises to better serve as a disaster resource to their communities as needed. As with the National Headquarters K9TAL station, a number of posts are licensed by the FCC to use call signs, such as N3TAL for the American Legion Post 275 Amateur Radio Team in Glenarden, MD.

In addition to its disaster and emergency service aspects, TALARC promotes the art and science of radio to young people through on-air exhibitions and sponsorships of license-training classes. Providing access to other Legion youth programs is a byproduct. Additionally, the club has opened the door to American Legion membership for a group of veterans whose interests are focused on radio communications and community service.

“If you don’t have an FCC license, getting one is relatively easy,” Justis said. “Knowledge of Morse code is no longer needed. Just pass a multiple-choice exam of 35 questions and you can earn your entry-level Technician Class license.”

Go online to learn more about amateur radio, how to get an FCC license or joining TALARC:  
[www.legion.org/hamradio](http://www.legion.org/hamradio)

*Reprinted with permission of The American Legion Magazine, (c) March, 2015. [www.legion.org](http://www.legion.org).*

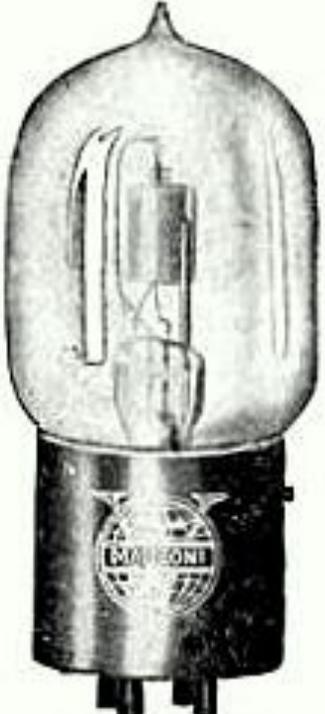
212 RADIO AMATEUR NEWS November, 1919.

# THE HEART OF THE WIRELESS

*An Amateur Station  
Without a Vacuum Tube  
is Years Behind the Times*

## MARCONI V.T.

### \$7.00 each



Under agreements recently effected the Marconi V. T. is the only vacuum tube, or audion, which may be sold to amateurs, laboratories, schools of instruction and experimenters.

The approximate operating life of the MARCONI V. T. is 1,500 hours.

## It's Magic

By Jim Wright, N2GXJ

Tune your radio to 14.076 MHz (USB). And sometimes on 28.076 MHz, 21.076 MHz, and 7.076 MHz (USB). Try it. Can you hear those melodic tones? Set your watch to WWV time standard, and then listen to this strange music once more. About 48 seconds and then silence until when the second hand on your watch starts the next minute, and then it starts up again. What is this strange space music? Recognize what those signals are yet? What you are listening to is magic happening on a global scale!

For the past 10 years, a careful blend of time synchronized tones, data compression, and error control code sequences has been filling the airwaves with constant amplitude sinusoidal signals that shift each 0.372 seconds between one of 65 pre-defined offset frequencies, starting 1 second after the start of every other UTC minute, and finishing 47.8 seconds after the start of that same UTC minute. This signal processing magic has allowed mere mortals with modest radio setups to launch their CQ greetings from the Earth into space, towards the moon, and have them reflected back to somewhere else on the planet where they are able to be decoded, and then responded to, even though the strength of the received signal was nearly, or actually, sub audible – too faint and too far below the noise floor for the human ear to pick out. Pure Magic!

And then this technology was innovatively adapted for use with HF radio, opening a world of radio propagation study and DX chasing that never existed before. And I became hooked. With a dipole in the attic of my house and less power than used to light a standard light bulb, I was still making two way contacts into Japan, long after any voice signals had disappeared on this supposedly “closed” band! But it got even better. Then I found I could look at a website where hundreds of amateur stations just like mine from all over the planet are automatically logging to a database all the signals they are able to hear and decode. A free planetary reverse beacon network consisting of amateur radio stations on every continent. Amazing. With this network, I could now see at a glance automatically where my signal is reaching, giving me instant propagation feedback across the planet. Freakin’ fantastic!

But I am clearly not alone in my discovery of this amazing digital amateur radio mode called JT65, named after the initials of inventor, Dr. Joe Taylor, and the number of pre-defined frequency offsets that it uses; 65. On any given weekend and evening, you’ll find 14.076 MHz awash with overlapping signals at all kinds of signal levels from all over the planet. Field Day style chaos every day of the week. But there’s DX gold lurking in those traces. To the patient can come great rewards. And so it was for me on March 7, 2014. That’s when I bagged DP0GVN with a two way JT65 QSO. He was transmitting from the Eckstroem Ice Shelf, in Antarctica! Thank you JT!

Over time the magic has gotten even better. If you haven’t already, check out the latest WSJT-X version v1.4.0-rc5, released just this month (ref: [www.physics.princeton.edu/pulsar/k1jt](http://www.physics.princeton.edu/pulsar/k1jt)). The software continues to evolve over time. Today, not only can you do JT65 on HF with this software, but you can also do JT9. As you might expect, the name of this JT9 magic comes from the initials of the inventor (again JT), and the number of tones used in the frequency shift keying; 9. What is amazing to me is that the JT9 signal is so narrow (less than 16 Hz) compared to the JT65, which itself wasn’t that wide (less than 180 Hz). And yet the signals it can decode are even weaker. Once the signals get down to around -16 dB, I can’t hear them on the radio speaker anymore. But I’ve had my JT9 signals decode a QSO just fine to below -20 dB. That’s a weak signal! A QRP operator’s dream!

The QSO are minimal; just callsign and location (Grid square) exchange, signal report, and final acknowl-

*It's Magic - Continued on page 16*

edgement with 73's. There is a small 13 character free-form message available, but with full minutes between alternating transmissions, no way you're going to use this for conversations. If you want conversations, try PSK31. But when the PSK31 signals become too weak to decode, don't give up on the band just yet. Though PSK31 works well at low signal levels, the JT modes work well at really low signal levels. If you've not experienced this magic before, you have to give it a try. To me, they are the ultimate in DX friendly weak signal modes. Thank you, JT, for making DX possible for me, and fun

A spectrum display (**Page 17 - Figure 1**) showing several weak JT65 signals within the same audio pass-band at 21.076 MHz, including one selected for a QSO (with offset around 1476 Hz, with the green and red bars above it).

Shown here (**Page 17 - Figure 2**) is the main decoding window in WSJT-X with decoded JT65 signals. On the decode of even minute 0202, I saw VK3ACE's CQ from grid square QF22 in Australia. That's over 10,280 miles distant! I clicked on it, and in the right hand window, his CQ line was transferred there in green, with my response, transmitted on the odd minute, shown in yellow. The software highlights messages addressed to my callsign by turning them red. As shown, VK3ACE responded to me with a signal report of -15 dB. Not bad at this distance for less than 30 watts into my attic dipole antenna! I responded back with his signal report. He confirmed receipt of his signal report using an RRR. After completing this QSO by exchanging 73's, I quickly moved on - jumping on a CQ from JA1KXQ from grid square PM95 in Japan. The software automatically calculates the direction (az: 333) and great circle path distance (6815 miles) between their grid square and mine, as shown in the display above. While in QSO, the software will decode any signal at the QSO frequency first, and then any others it sees in the audio passband up until when the minute is up and it is my turn to transmit. This way you get to see your conversation first, plus you can see who else might be out there of interest for your next contact.

In this case, you can see the software decoded a CQ from Asiatic Russian RW0SR while I was in QSO with the Japan station. If nobody catches him, I'll pounce at that frequency offset after I'm done with this contact. So many signals and simultaneous QSOs going on in this 3 kHz of audio bandwidth at 21.076 MHz!

After the QSO, I took a look at the pskreporter website ([www.pskreporter.info](http://www.pskreporter.info)), typing in my callsign on the selection line.

PSKReporter (**Page 18 - Figure 3**) showed my 15 meter JT65 signal was received by VK3ACE in Australia with a solid signal 15dB below the noise floor. Duh, I already knew that, as I'd just finished a QSO with him. But it looks like there were a few other stations that copied me recently as well, including one in South America, one in New Zealand, and a few in Asia, and a bunch in the USA! Nice! Interestingly, the station in Hawaii, and the one in Alaska also shown to be listening on 15 meters, did not copy me.

Go figure! What if I changed frequency, down to 14.076 MHz. Who would copy me then?

Want to give it a try?



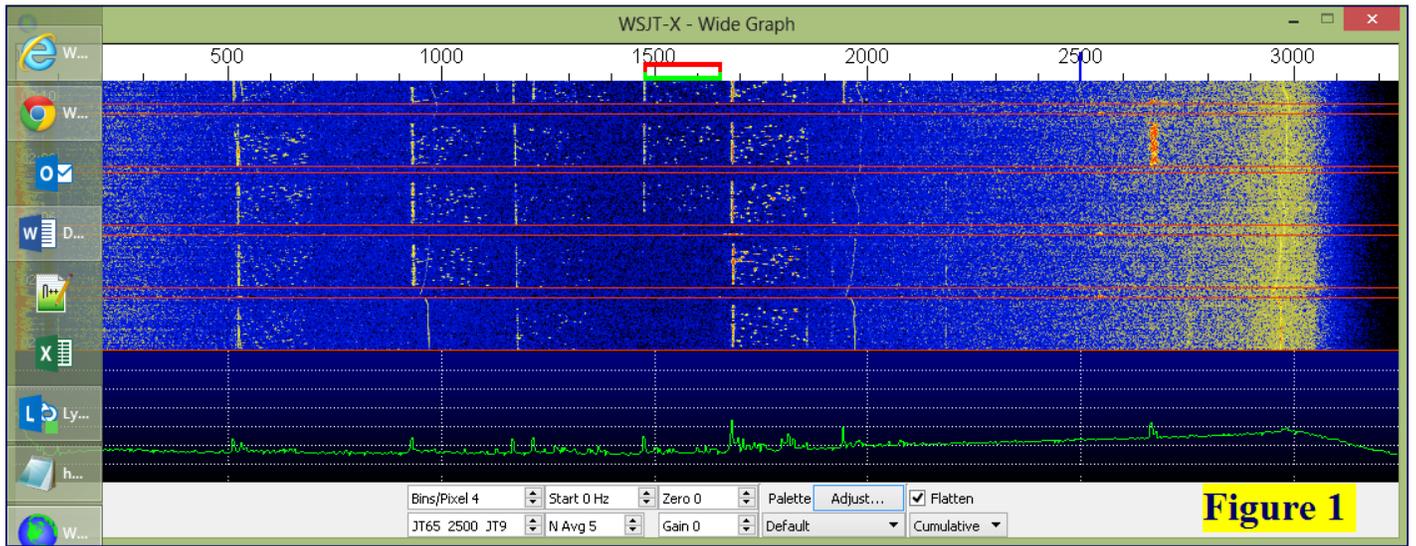


Figure 1

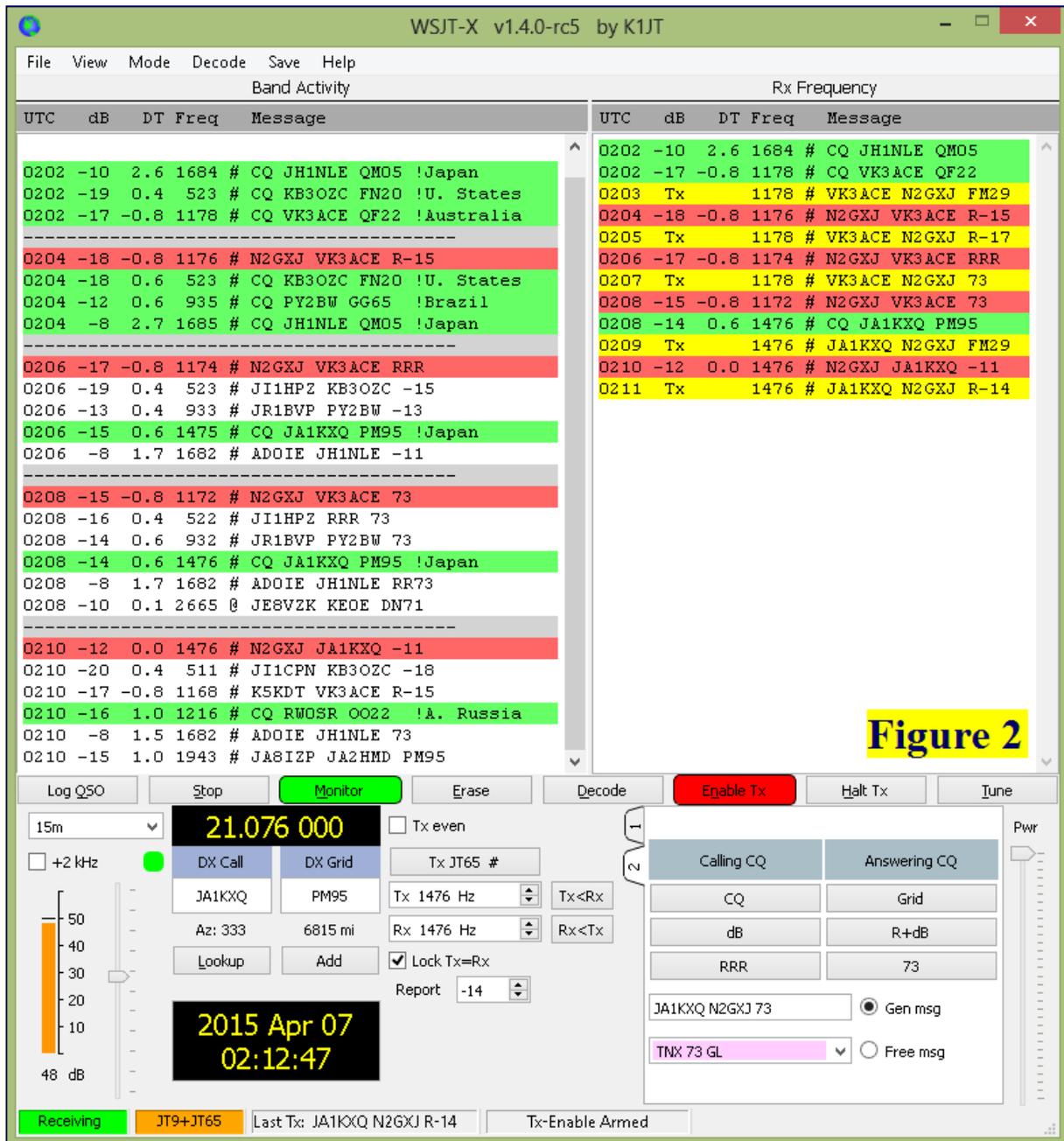
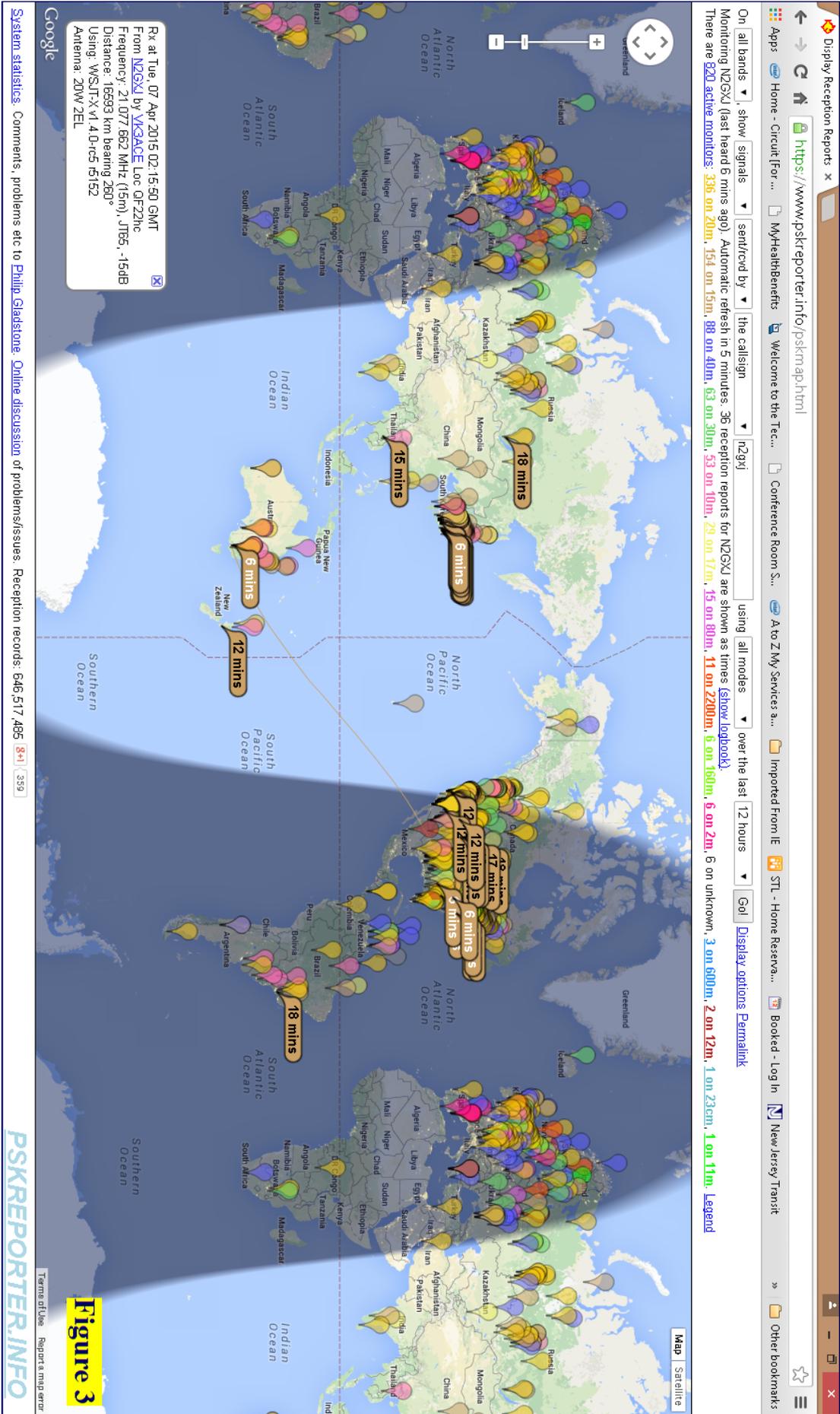


Figure 2



**Figure 3**

## DA's and DIT's

Gary Reed, N2QEE reports that the April 9, 2015 VE session had one new Technician (KD2IMP), a General (KC3EUO), and an Amateur Extra (KB3YPU).

**The following Walk MS events are scheduled for May:**

Walk MS: Ocean City Boardwalk - May 3, 2015

Walk MS: Burlington County Smithville Park - May 3, 2015

Walk MS: Washington Lake Park - May 3, 2015

<http://www.nationalmssociety.org/Chapters/PAE/Fundraising-Events>

**N3MSS - Bike MS: City To Shore Ride - October 3-4, 2015.**

Volunteer communicators for this event can download registration forms from our [www.w2mmd.org](http://www.w2mmd.org) website on the MS Bike/Walk Events page.

**The Tour de Pitman is scheduled for June 13, 2015.** [www.uptownpitman.com/events/tour-de-pitman](http://www.uptownpitman.com/events/tour-de-pitman)

**Cumberland County OEM** is looking to schedule a General Class License training class. Those interested, please contact **Mike Harla**, [n2mho <at> arrl <dot> net](mailto:n2mho@arrl.net).

**Congratulations, Matthew Rainey has a new callsign. Formerly KD2HVJ, is now N2EEE. He is a General Class and lives in Elmer, NJ.**

**SkyWarn Class: May 28, 2015 @ 1900 Hours**, Cumberland County Public Safety Center, 637 Bridgeton Avenue, Bridgeton, NJ. Registration is required. Please contact Melinda Weisgerber at [melindawe <at> co <dot> cumberland <dot> nj <dot> us](mailto:melindawe@co.cumberland.nj.us) or 856-455-8770 ext 360.

More information at: [www.weather.gov/phi/trainingskywarn2](http://www.weather.gov/phi/trainingskywarn2)

**SkyWarn Class: June 10, 2015 @ 1900 Hours**, Sussex County Emergency Operations Center, 21911 Rudder Lane, Georgetown, DE. Registration is not required at this time. Please contact Larry Nierenberg at [larry <dot> nierenberg <at> noaa.gov](mailto:larry.nierenberg@noaa.gov).

More information at: [www.weather.gov/phi/trainingskywarn2](http://www.weather.gov/phi/trainingskywarn2)

**George Thomas, W5JDX**, of [AmateurLogic.TV](http://AmateurLogic.TV) and [Ham Nation](http://Ham Nation) fame, has a new website [www.hamcollege.tv](http://www.hamcollege.tv). It is a show for those new to the hobby and those wishing to get into Amateur Radio.

Want the latest solar storm update? Visit [www.spaceweather.tv](http://www.spaceweather.tv) and [www.youtube.com/user/SpWxfx](http://www.youtube.com/user/SpWxfx). Dr. Tamitha Skov gives the latest information about solar storms and flares that may affect Amateur Radio operators.

A good website for radio education and history is [www.techwholesale.com/history-of-the-radio.html](http://www.techwholesale.com/history-of-the-radio.html)



**Gloucester County 4-H Fair and New Jersey Peach Festival**  
July 23 - 26, 2015  
[www.gc4hfair.com](http://www.gc4hfair.com)

## 2015 East Coast Hurricane Awareness Tour

[www.weather.gov/phi/Hurricane\\_Awareness\\_Tour\\_2015](http://www.weather.gov/phi/Hurricane_Awareness_Tour_2015)

Two of the famed Hurricane Hunter aircraft, the USAF WC-130J and a NOAA G-IV will stop at the Federal Aviation Administration's William J. Hughes Technical Center, adjacent to the Atlantic City International Airport on Monday, May 4, 2015. The Director of the National Hurricane Center, Dr. Rick Knabb, along with hurricane specialists, crew members from both planes, and forecasters from the local National Weather Service Forecast Office will all be on hand to host tours and answer questions. Several other planes will be on display or open for tours, including the FAA CV-580 and a National Guard F-16.



The HAT stops at just five east coast locations every other year. The last time the HAT stopped at Atlantic City was back in 1991. With the impacts of Sandy still lingering along the New Jersey coast, this particular stop provides local residents the unique opportunity to learn how the National Weather Service monitors and forecasts tropical systems as part of its mission to save lives and property.

The HAT is open for public tours from 2:00 PM through 5:00 PM on Monday, May 4th rain or shine. Gates will open at 1:30 PM, and close at 4:30 PM. There will be no admittance prior to 1:30 PM or after 4:30 PM. Through a partnership with the Federal Aviation Administration (FAA), this tour stop is being conducted at the William J. Hughes Technical Center in Egg Harbor Township. As such, all visitors must be U.S. citizens and possess valid identification (e.g. driver's license). All are subject to security screening before entering the facility. Handbags, backpacks, and foot sandals are not permitted. If you plan on visiting the HAT, follow signs for the FAA Tech Center and stay in the right hand lanes on both Route 646 (Delilah Road) and Tilton Road as you approach the facility. A temporary road sign and FAA personnel will then direct you to public parking at Gate 18. After going through security screening, visitors will be issued a wrist band, then shuttled by bus to the HAT staging area. Parking is limited, so carpooling is strongly encouraged, if the parking area is full, you will be turned around and asked to return at a later time.

*Article suggested by Tom Gorman, KE2ES, and Rick Tighe, N2PHI*

**2015 EAST COAST  
HURRICANE AWARENESS TOUR**  
FAA William J Hughes Technical Center  
adjacent to the  
Atlantic City International Airport



**May 4, 2015**



**Keith Waltman, W2ERP, attended the Orlando HamCation in February 2015.  
Here are a few pictures from the trip.**



  
**17<sup>th</sup> Annual**  
**New Jersey**  
 Emergency Preparedness Conference  
 2 0 1 5  
[www.njepa.org](http://www.njepa.org)  
 May 4 - May 8, 2015  
 Tropicana Hotel & Casino  
 Atlantic City, NJ



  
**Dayton Hamvention<sup>®</sup>**  
 Sponsored by Dayton Amateur Radio Association  
 Since 1952

**May 15 - 17, 2015**  
[www.hamvention.org](http://www.hamvention.org)

## May 6, 2015 : General Membership Meeting Program “DXing With Weak Signals”



Nobel Prize recipient Dr. Joseph Taylor, K1JT, will speak at our meeting. Active in ham radio, weak signal work and astronomy, Dr. Taylor developed the popular JT9, JT65 and other means of keyboard-to-keyboard and computer assisted communications – usable when the signal to noise ratio is far from ideal. He is sure to captivate attendees with a wide variety of interests. Members of radio astronomy clubs have also been invited to attend.



From Wikipedia, the free encyclopedia

[www.en.wikipedia.org/wiki/Joseph Hooton Taylor, Jr.](http://www.en.wikipedia.org/wiki/Joseph_Hooton_Taylor,_Jr.)

Joe Taylor first obtained his amateur radio license as a teenager, which led him to the field of radio astronomy. Taylor is well known in the field of amateur radio weak signal communication and was assigned the call sign K1JT by the Federal Communications Commission (FCC). He had previously held the callsigns K2ITP, WA1LXQ, W1HFV, and VK2BJX (the latter in Australia). His Amateur Radio feats have included mounting an 'expedition' in April 2010 to use the Arecibo Radio Telescope to conduct moonbounce with Amateurs around the world using voice, Morse Code, and digital communications.

He wrote several computer programs and communications protocols, including WSJT ("Weak Signal/Joe Taylor"), a software package and protocol suite that utilizes computer-generated messages in conjunction with radio transceivers to communicate over long distances with other amateur radio operators. WSJT is useful for passing short messages via non-traditional radio communications methods, such as moonbounce and meteor scatter and other low signal-to-noise ratio paths. It is also useful for extremely long-distance contacts using very low power transmissions.

Weak Signal Communication Software : [www.physics.princeton.edu/pulsar/k1jt](http://www.physics.princeton.edu/pulsar/k1jt)



**ARRL** The national association for  
AMATEUR RADIO®

[www.arrl.org](http://www.arrl.org)

**June 27-28, 2015**

**2015 ARRL FIELD DAY**

**HAM RADIO**)))

## **“Blast From The Past”**

**Outgoing 1979 Club President Ray Martin, W2RM, congratulates incoming 1980 President, Rose Ellen Bills, N2RE**



*Note: What was Rose Ellen trying to do with that gavel?*

The DEC PDP-7 and PDP-8 debuted on March 22, 1965. While not the first home computers, the PDP-8 did see its fair share of ham radio applications - such as propagation, antenna modeling and more. Cory Sickles, WA3UVV

# ANNOUNCING

## TWO NEW COMPUTERS

### WITH FLIP CHIP™ INTEGRATED CIRCUITS

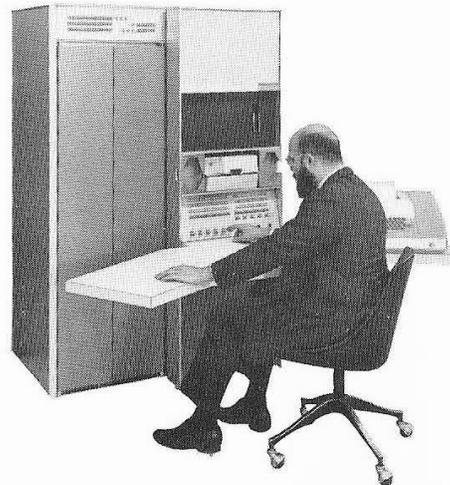
## PDP-8



- 1.6  $\mu$ sec cycle time
- 3.2  $\mu$ sec add time
- 12 bit word length
- 4096 word memory (expandable to 32,768 words)
- Fortran
- Field tested software
- 625,000 words/sec maximum transfer rate
- Reader punch and typewriter included

**\$18,000**

## PDP-7



- 1.75  $\mu$ sec cycle time
- 3.50  $\mu$ sec add time
- 18 bit word length
- 4096 word memory (8,192 words directly addressable, expandable to 32,768 words)
- Field tested software including Fortran II
- 570,000 words/sec maximum transfer rate
- 300 cps paper tape reader
- 63.3 cps paper tape punch

**\$45,000**

#### OPTIONAL EQUIPMENT AVAILABLE

- |                             |                              |
|-----------------------------|------------------------------|
| IBM compatible tape         | Analog I/O                   |
| DEC tape                    | Data communication equipment |
| CRT displays with light pen | Bulk storage drums           |
| Card equipment              | Printers and plotters        |

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## Regional Yaesu System Fusion Repeaters

County, State	Location	Callsign/Club	Frequency	Off-Set	PL Tone
Atlantic County, NJ	Atlantic City	K2ACY	449.625 MHz	Minus	156.7 Hz
Atlantic County, NJ	West Atlantic City	<u>W2HRW/SPARC</u>	443.250 MHz	Plus	146.2 Hz
Camden County, NJ	Blue Anchor	KB2AYS	445.125 MHz	Minus	91.5 Hz
<b>*Camden County, NJ</b>	<b>Cherry Hill</b>	<b><u>K3RJC/HARC</u></b>	<b>444.900 MHz</b>	<b>Plus</b>	<b>131.8 Hz</b>
Camden County, NJ	Gloucester City	<u>NJ2GC</u>	447.775 MHz	Minus	146.2 Hz
Camden County, NJ	Runnemede	WA2WUN	147.225 MHz	Plus	192.8 Hz
Gloucester County, NJ	Pitman	<u>W2MMD/GCARC</u>	147.180 MHz	Plus	131.8 Hz
Gloucester County, NJ	Pitman	<u>W2MMD/GCARC</u>	442.100 MHz	Plus	131.8 Hz
<b>*Mercer County, NJ</b>	<b>Lawrenceville</b>	<b><u>W2MER/Mercer Co ARES/RACES</u></b>	<b>147.105 MHz</b>	<b>Plus</b>	<b>123.0 Hz</b>
Mercer County, NJ	West Trenton	<u>W2ZQ/DVRA</u>	146.670 MHz	Minus	131.8 Hz
Ocean County, NJ	Manchester	<u>WA2RES/OCARES</u>	145.170 MHz	Minus	131.8 Hz
Ocean County, NJ	Toms River	<u>NJ2AR/JSARS</u>	448.625 MHz	Minus	141.3 Hz
Salem County, NJ	Pennsville	N2KEJ/SCRA	146.625 MHz	Minus	131.8 Hz
Berks County, PA	Reading	KB3WLV	445.175 MHz	Minus	114.8 Hz
Bucks County, PA	Southampton	<u>W3SK/PWA</u>	146.790 MHz	Minus	131.8 Hz
Bucks County, PA	Southampton	<u>W3SK/PWA</u>	448.225 MHz	Minus	131.8 Hz
Chester County, PA	Paoli	<u>WB3JOE/MARC</u>	445.675 MHz	Minus	131.8 Hz
Lancaster County, PA	Buck	KX3B	146.745 MHz	Minus	D114/D114
Lancaster County, PA	Cornwall	<u>W3AD/LRTS</u>	449.025 MHz	Minus	162.2 Hz
Lancaster County, PA	New Holland	<u>N3FYI</u>	449.275 MHz	Minus	114.8 Hz
Lawrence County, PA	Ellwood City	<u>N3ZJM/ECARA</u>	443.625 MHz	Plus	131.8 Hz
Lawrence County, PA	New Castle	<u>N3ETV/ARLLC</u>	444.725 MHz	Plus	131.8 Hz
Monroe County, PA	East Stroudsburg	<u>KB3TEM</u>	144.920 MHz	Input 446.550	D343
Montgomery County, PA	Horsham	K3JJO/DRC	147.165 MHz	Plus	162.2 Hz
Montgomery County, PA	Wyndmoor	<u>K3PDR/PDRA</u>	447.475 MHz	Minus	Open
Philadelphia County, PA	Roxborough	<u>W3QV/Phil-Mont</u>	444.800 MHz	Plus	186.2 Hz
Kent County, DE	Dover	<u>KC3ARC/KCARC</u>	146.970 MHz	Minus	77.0 Hz
<b>*Sussex County, DE</b>	<b>Millsboro</b>	<b><u>WS3ARA/SARA</u></b>	<b>449.825 MHz</b>	<b>Minus</b>	<b>156.7 Hz</b>
Sussex County, DE	Selbyville	<u>WS3ARA/SARA</u>	145.250 MHz	Minus	156.7 Hz

*This list seems to be getting longer every day. I have shortened this list to just New Jersey, Eastern Pennsylvania, and Delaware. See our website on the System Fusion Repeaters page for a longer list which includes Southern New York, all of Pennsylvania, Maryland, Virginia, and West Virginia.*

***\*New entry or update as of this issue.***

## May Birthdays

Congratulations to our members celebrating their birthday this month

Insu Chon AB2IT  
Michael Covaleski KD2FJS  
Robert Demola KD2GFL  
Carmen Inverso WA2TRS  
Brian Jones KD2BXD  
William Jones KD2FHM  
Darrell Neron AB2e  
Joseph Shevlin KC2PHM  
Virginia Wallace KB2JCQ



## In Memoriam May Birthdays

Silent Keys:

Walton Ashton Jr. WB2OYQ  
Hyman Friend KB2GH



## Crosstalk Submissions

*This is your Club newsletter. Make use of it.*

If you have stories or photos of your hobby that you would like to share with the Club, please do so!

We will keep covering all of the GCARC events, but it is also nice to get those personal perspectives to include in every issue.

Connecting through experiences is what makes the Gloucester County Amateur Radio Club a *REAL* club.

All submissions, queries, comments and editorials should be addressed to Jeffrey Garth, KC2WCS at [jeff.garth <at> comcast.net](mailto:jeff.garth@comcast.net).

**Submission deadline for the June 2015 issue: Thursday, May 21, 2015**

**Club Website [www.w2mmd.org](http://www.w2mmd.org)**

**Club E-Mail Reflector: [gcarc@mailman.qth.net](mailto:gcarc@mailman.qth.net)**

**CQWW WPX Contest, SSB  
March 28, 2015**

**Call: WB2P  
Operator (s) : WB2P  
Station: WB2P**

**Class: SO(A)AB HP  
QTH: NJ  
Operating Time (hrs): 13:45  
Location: USA**

**Summary: Compare Scores  
Band QSOs**

---

160:	26
80:	107
40:	71
20:	129
15:	142
10:	116

---

**Total: 591      Prefixes: 465  
Total Score: 810,960**

**Club: Frankford Radio Club**

**Comments: Special thanks to W2YC for letting me use his station #2.**

**Missouri QSO Party  
April 4, 2015**

**Call: N2CQ  
Operator (s) : N2CQ  
Station: N2CQ**

**Class: SO Fixed LP  
QTH: SNJ  
Operating Time (hrs): 6  
Location: Out of State/Province**

**Summary: Compare Scores  
Band CW Qs Phone Qs Digital Qs**

---

160:			
80:			
40:	2		
20:	37		
15:	21		
10:			

---

**Total: 60      0      0  
Mults: 42  
Total Score: 5,140**

**Club: Gloucester County Amateur Radio Club**

**Georgia QSO Party  
April 11, 2015**

**Call: N2CQ  
Operator (s) : N2CQ  
Station: N2CQ**

**Class: Single OpCW LP  
QTH: SNJ  
Operating Time (hrs): 10**

**Summary: Compare Scores  
Band CW-Digital Qs Phone Qs**

---

160:		
80:	4	
40:	59	
20:	55	
15:	3	
10:		
6:		

---

**Total: 121      0  
CW-Digital Mults: 74  
Phone Mults: 0  
Total Score: 17,908**

**Club: Gloucester County Amateur Radio Club**

**Comments: Great mobile OPS, but poor conditions in NJ.**

**Maximilian Kolbe, SP3RN  
Patron Saint of Amateur Radio Operators**



## Contest Calendar

For more information on the contests, please go to the WA7BNM Contest Calendar website:  
[www.hornucopia.com/contestcal](http://www.hornucopia.com/contestcal)

### May 2015

+ NCCC RTTY Sprint	0145Z-0215Z, May 1
+ NCCC Sprint Ladder	0230Z-0300Z, May 1
+ AGCW QRP/QRP Party	1300Z-1900Z, May 1
+ 10-10 Int. Spring Contest, CW	0001Z, May 2 to 2359Z, May 3
+ SBMS 2.3 GHz and Up Contest and Club Challenge	0600 local, May 2 to 2359 local, May 3
+ Microwave Spring Sprint	0800-1300 local, May 2
+ ARI International DX Contest	1200Z, May 2 to 1159Z, May 3
+ 7th Call Area QSO Party	1300Z, May 2 to 0700Z, May 3
+ Indiana QSO Party	1600Z, May 2 to 0400Z, May 3
+ Delaware QSO Party	1700Z, May 2 to 2359Z, May 3
+ New England QSO Party	2000Z, May 2 to 0500Z, May 3 and 1300Z-2400Z, May 3
+ RSGB 80m Club Championship, SSB	1900Z-2030Z, May 4
+ MIE 33 Contest	2300Z, May 4 to 0300Z, May 5
+ ARS Spartan Sprint	0100Z-0300Z, May 5
+ CWops Mini-CWT Test	1300Z-1400Z, May 6 and 1900Z-2000Z, May 6 and 0300Z-0400Z, May 7
+ NRAU 10m Activity Contest	1700Z-1800Z, May 7 (CW) and 1800Z-1900Z, May 7 (SSB) and 1900Z-2000Z, May 7 (FM) and 2000Z-2100Z, May 7 (Dig)
+ NCCC RTTY Sprint	0145Z-0215Z, May 8
+ NCCC Sprint Ladder	0230Z-0300Z, May 8
+ VOLTA WW RTTY Contest	1200Z, May 9 to 1200Z, May 10
+ CQ-M International DX Contest	1200Z, May 9 to 1159Z, May 10
+ F9AA Cup, PSK	1200Z, May 9 to 1200Z, May 10
+ SKCC Weekend Sprintathon	1200Z, May 9 to 2400Z, May 10
+ FISTS Spring Sprint	1700Z-2100Z, May 9
+ 50 MHz Spring Sprint	2300Z, May 9 to 0300Z, May 10
+ CWops Mini-CWT Test	1300Z-1400Z, May 13 and 1900Z-2000Z, May 13 and 0300Z-0400Z, May 14
+ RSGB 80m Club Championship, Data	1900Z-2030Z, May 13
+ NCCC RTTY Sprint	0145Z-0215Z, May 15
+ NCCC Sprint	0230Z-0300Z, May 15
+ His Maj. King of Spain Contest, CW	1200Z, May 16 to 1200Z, May 17
+ Feld Hell Sprint	1600Z-1759Z, May 16 and 2000Z-2159Z, May 16
+ WAB 7 MHz Phone	1000Z-1400Z, May 17
+ Run for the Bacon QRP Contest	0100Z-0300Z, May 18
+ CWops Mini-CWT Test	1300Z-1400Z, May 20 and 1900Z-2000Z, May 20 and 0300Z-0400Z, May 21
+ NAQCC CW Sprint	0030Z-0230Z, May 21
+ RSGB 80m Club Championship, CW	1900Z-2030Z, May 21
+ NCCC RTTY Sprint	0145Z-0215Z, May 22
+ NCCC Sprint Ladder	0230Z-0300Z, May 22
+ EU PSK DX Contest	1200Z, May 23 to 1200Z, May 24
+ Baltic Contest	2100Z, May 23 to 0200Z, May 24
+ SKCC Sprint	0000Z-0200Z, May 27
+ CWops Mini-CWT Test	1300Z-1400Z, May 27 and 1900Z-2000Z, May 27 and 0300Z-0400Z, May 28
+ UKEICC 80m Contest	2000Z-2100Z, May 27
+ NCCC RTTY Sprint	0145Z-0215Z, May 29
+ NCCC Sprint Ladder	0230Z-0300Z, May 29
+ CQ WW WPX Contest, CW	0000Z, May 30 to 2359Z, May 31
+ SARL Digital Contest	1300Z-1600Z, May 31

# Committee Chairs

<b>ARES/RACES</b>	<b>Ed Champion, N2RO</b>
<b>Awards and Contests</b>	<b>Kenny Denson, WB2P</b>
<b>Budget*</b>	<b>Al Arrison, KB2AYU</b>
<b>Club Publications</b>	<b>Jeffrey Garth, KC2WCS</b>
• <b>Crosstalk Magazine</b>	<b>Karen Garth, Staff Typist</b>
• <b>Website</b>	
<b>Clubhouse Site/Operations*</b>	<b>Al Arrison, KB2AYU</b>
<b>Constitution and By-Laws*</b>	<b>Ron Block, NR2B</b>
<b>DX</b>	<b>Bill Grim, W0MHK</b>
<b>Field Day*</b>	<b>Kenny Denson, WB2P</b>
<b>Fox Hunts</b>	<b>Jim Wright, N2GXJ</b>
<b>Hamfest*</b>	<b>Sheldon Parker, K2MEN and Bill Price, NJ2S</b>
• <b>Hamfest Contact</b>	<b>Cory Sickles, WA3UVV</b>
<b>Health and Welfare*</b>	<b>Ray Martin, W2RM</b>
<b>Historian</b>	<b>Jeffrey Garth, KC2WCS</b>
<b>Hospitality*</b>	<b>Dave MacDonald, WB3JOY</b>
<b>License Testing, VEC Liaison</b>	<b>Gary Reed, N2QEE</b>
<b>License Trustee</b>	<b>Darrell Neron, AB2E</b>
<b>Member Database</b>	<b>Ken Newman, N2CQ</b>
<b>Membership*</b>	<b>Cory Sickles, WA3UVV</b>
<b>Nominations*</b>	<b>Jim Wright, N2GXJ</b>
<b>Programs</b>	<b>Cory Sickles, WA3UVV</b>
<b>Publicity*</b>	<b>Cory Sickles, WA3UVV</b>
<b>Repeaters*</b>	<b>Cory Sickles, WA3UVV</b>
<b>Scout Liaison</b>	<b>Frank Simila, KC2SJ</b>
<b>Summer Picnic</b>	<b>Jennifer Robinson, KD2EYR</b>
<b>Technical and TVI</b>	<b>Chuck Colabrese, WA2TML</b>

\* *Denotes Standing Committees*

## GCARC@mailman.qth.net e-mail reflector guidelines

1. **No attachments** (e.g. pictures, files) are allowed on the reflector.
  2. If you have club-related pictures that you would like to share, you can send them to the webmaster, he will put them on the website and he will send out a general e-mail to all the members.
  3. Otherwise, the pictures will have to be sent to the members' addresses.
  4. URLs/Hyperlinks are acceptable on the reflector.
  5. Do not send any messages with e-mail addresses in the **BCC (Blind Carbon Copy)** field. The message will be rejected. Use only the **To:** or **CC:** fields.
  6. Members are subscribed to the reflector using the member's e-mail address from the roster database. You must use that address when sending an e-mail via the reflector.
  7. If you use another address on the reflector, the message will get rejected or "*bounced*", because the reflector does not recognize that address.
  8. Whenever a message sent to reflector is rejected or "*bounced*" for various reasons, the administrator has to log-in to the Mailman.QTH website and approve the message.
- If the admin recognizes the address as belonging to a club member, the message is accepted and passed on to the reflector.

FYI...If you use Comcast e-mail, you are limited to 100 addresses per message.

For more information about the e-mail reflector, goto : [www.mailman.qth.net](http://www.mailman.qth.net)

### The W2MMD Repeaters

Output: 147.180 MHz  
Input: 147.780 MHz  
Offset: +600 kHz - PL: 131.8 Hz  
**(Conventional FM plus C4FM Capability)**

Output: 442.100 MHz  
Input: 447.100 MHz  
Offset: +5 MHz - PL: 131.8 Hz  
**(Temporarily Conventional FM)**

Output: 1284.400 MHz  
Input: 1272.400 MHz  
Offset: -12.0 MHz  
PL Tone: None

The above 3 repeaters are all  
located in Pitman, NJ  
GPS: 39.728481°, -75.131088°

Output: 224.660 MHz  
Input: 223.060 MHz  
Offset: -1.6 MHz  
PL Tone: 131.8 Hz  
Location: Sewell, NJ  
GPS: 39.781382°, -75.099963°

### Area Repeater Nets

**SKYWARN™ Net**  
Sunday @ 1945: 147.180 MHz

**Gloucester County ARES/RACES Net**  
Sunday @ 2000: 147.180 MHz

**N3MSS MS Event Communications Net**  
Tuesday @ 1930: BEARS Repeater System

### Meeting Calendar

#### *General Membership Meeting*

Wednesday, May 6, 2015 @ 1930 Hours  
Pfeiffer Community Center  
301 Blue Bell Road  
(Main Street and Blue Bell Road)  
Williamstown, NJ

#### *Board of Directors Meeting*

Wednesday, May 20, 2015 @ 1900 Hours  
GCARC Clubhouse  
Gloucester County 4-H Fairgrounds  
235 Bridgeton Pike (Rt 77), Mullica Hill, NJ

### May Club Meeting Program

**Dr. Joe Taylor, K1JT**

**DXing with Weak Signals**



**Memorial Day : May 25, 2015**



**Gloucester County Amateur Radio Club - P. O. Box 370 - Pitman, NJ 08071**