



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

March 2015

Next Meeting March 5th, 2015 - Antenna's and Antenna Analyzers

President's Message

Presidents Message , March 2015

February, what a month this has been. Between snow and ice storms, contests, rare Dx stations and club activities, it's been a very busy month.

March Meeting - Thursday, March 5th. Our next Club Meeting will feature a presentation on Antenna's and Antenna Analyzers from Joe, AA3JH and Andy, KD3RF. This was the top requested meeting presentation in our recent club survey.

Getting on the Air. I hope everyone has had an opportunity to get on the air this past month. With Navassa Island, K1N, being activated for the first time in 15 years, this was a very successful Dx'pedition with over 140,000 QSO's in the log. Even with pile-ups being huge, many of our club members were able to get in the log. I was able to work them on 4 bands, CW, RTTY and SSB. In February we also had both the CQ WPX RTTY and ARRL DX CW contests. The ARRL DX SSB contest is set for March 7th to 8th. While writing this article, I am listening to PW0F, Fernando de Noronha running a pileup on 10 meters. For those of you living in HOA restricted houses, 10 meters has been very active during the daytime. It only takes a small antenna to get on the air with 10 meters. Try running PSK31, which only takes a few watts of power to make a contact. The important thing is, getting on the air.

Club News.

International Space Station Contact. On February 19, 2015 at 18:18 UTC, students from Council Rock South High School, using 2 meters, were able to make a 2-way QSO with Italian astronaut Samantha Cristoforetti, aboard the International Space Station. Thanks to Warminster Amateur Radio Club operators Andy, KD3RF and Joe, AA3JH, working closely with teachers from Council Rock South High School, to accomplish this. Also helping were club members Karl, K3KH, Irwin, KD3TB and Mike, K3MAS. A number of Club members were in the audience in addition to students, teachers, administrators and members of the media. The contact was featured on channels 3 and 6 news along with the Bucks County Intelligencer and KYW Radio Station. (See the complete article in this issue of the Feedback)

• **Warminster Township Proclamation.** On February 19, the Warminster Amateur Radio Club had the distinct honor of being issued a Proclamation by the Warminster Township for our 50 years of Community Services as a valuable resource to the Township. The Township recognized many of the Community Services we provide including our repeater system. In addition, as part of the presentation, I was given the opportunity to present the many benefits that Amateur Radio offers. (See the complete article in this issue of the Feedback)

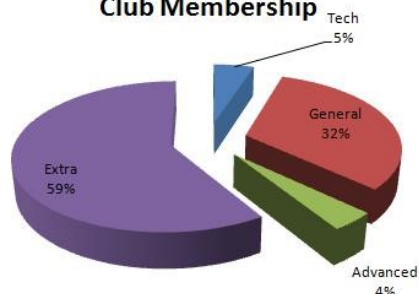
• **Hamfest.** Mark your calendars now! Our 2015 Hamfest is scheduled for Sunday, May 3rd. Mike, WJ30, our Chairperson, has been working to coordinate activities. Our Hamfest not only helps fund Club Activities, it also provides a service to our Ham community. With Radio Shack closing all stores, where else will you find all those small parts everyone needs?

Membership List. Both Vinny, K3VJP and Andy, KD3RF have now completed updating our Club database with current Emails for all our members. We used this updated master database for our recently completed club survey using Survey Monkey. And, with our membership approving electronic voting last year, we plan on using Survey Monkey again for electronic voting of Club officers in the spring. If your Email address changes, please remember to update it by sending an email to membership@k3dn.org.

Member Survey. Our first Club Membership Survey has been completed. We had a response rate of 66% from our members. If you have ever been involved in surveys before, that is an excellent response rate.



Club Membership



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Our members are primarily Extra (59%) and General (32%) Amateur Radio License Holders. We also found that the Top Club Meeting presentations requested were Antenna Designs, Digital Operating (PSK31, RTTY, SSTV, etc.) and Use of Troubleshooting Equipment (Multi-meters, Antenna Analyzers, reading schematics, etc.). Look for these topics in future presentations at our Club meetings. Full survey results to follow in a future Feedback article.

Refreshment Chairpersons Needed. -Here's an easy way for you to help your club. Do you enjoy having a cup of hot coffee, doughnuts and other treats during the social portion of our monthly meetings? After many, many years of service as our Refreshments Coordinators, both Randy, N3LJE and Doc, KA3RAU are in need of a break and are stepping down. On behalf of the Officers, I want to take this opportunity to thank both Randy and Doc for their delicious contribution to the club! If you would like to see this tradition continue, then why not think about becoming our next Refreshment Coordinator?

The Refreshments Coordinator helps provide and serve refreshments for our monthly meetings which includes:

Purchase supplies as needed- cups, napkins, spoons, instant coffee, sugar, creamer

Purchase refreshments for the monthly meeting

Set-up/clean-up refreshments

All purchases are reimbursed by the club.

If we are unable to identify someone to take over this responsibility, we will no longer be offering refreshments at club meetings.

Repeater. To advance our Club's Repeater system into the Digital World, the Board has authorized, Brian N3EXA, to purchase a new Yaesu Fusion Repeater for the club's 440 repeater. The YAESU DR-1 is a digital/conventional FM dual mode repeater that covers the VHF and UHF amateur radio bands. This new repeater will allow us to add Digital FM communications to the 440 machine, while still allowing Analog FM communications. Currently the DR-1 is on backorder from Yaesu.



Club Classes. Our club radio classes will start again in the Spring with Tech Classes being offered.

Annual Dues. January through March is our annual club dues collection. The dues help our club support a number of both club and community services. Once again the Dues for membership will remain at \$20 for regular members. Your dues benefit you and help the club support the following:

- Repeater System + Used for Emergency Management
- Field Day
- Hamfest - including Club member only table for selling
- Club Presentations
- Club Auction
- Club Station
- Club Meetings + Refreshments
- License Classes
- WARC Talk
- Feedback

Dues can be paid electronically at <http://www.k3dn.org/paydues.htm> or by check to:

Warminster Amateur Radio Club, Inc.
P.O. Box 113, Warminster, PA 18974

The club dues are still less than a good bottle of wine.....



The grace period for being a Member of WARC ends on March 31st. If you still want to be considered a member of WARC, you must pay your dues before this date.

Have fun and get on the Air!

Irwin, KD3TB
WARC President

WARC General Meeting – Minutes of 2/5/15

Meeting called to order by (President) Irwin KD3TB at 7:30pm

Introductions:

Microphone passed around: 45 licensed attendees + 1 guest

Irwin KD3TB announced that there will be no 50/50 this month; to resume at the March meeting.

Minutes of previous meeting were accepted as published in Feedback.

Treasurers Report:

Bill K3FMQ – As reported

Programs:

Vinny K3VJP reports that the annual Club Auction will immediately follow close of business tonight.

March will be a presentation on antenna analyzers by Andy KD3RF & Joe AA3JH. There will be an emphasis on the MFJ analyzer owned by the club.

Membership:

120 members are currently in good standing, with 55 in the grace period.

The winner of the Member Survey (\$50 gift certificate to HRO) was Tony WA3TAC. He was present and collected his winnings – congratulations!

Vinny announced the introduction of a newly designed sign-up sheet for the monthly meetings. It is structured to allow for simpler check in for the members, and easier identification of attendees for the Membership Committee.

Vinny K3VJP also touched base on all of the expenses that the Club covers thru annual dues.

Public Service:

George N3HBT informed of the Warminster Memorial Day Parade, scheduled for Monday (5/25), with a rain date of Saturday (5/30). Multiple operators will be needed; more info to follow.

Warminster Chamber of Commerce will hold their annual Hole-in-One challenge at Five Ponds Golf Course on Thursday (6/4). About 6 operators should be needed for this event.

Classes:

George KA3WXV reports that new Technician classes will begin on Monday (3/9) at the Ben Wilson Center, and run for 8 consecutive weeks.

VE Session:

Larry WA3ELQ reports that the January VE Session was cancelled due to inclement weather. The next session is scheduled for (2/23).

Club Station:

Looking for a volunteer to re-hang the dipole for the club station, and Chuck KB3YVS is up to the task!

Good & Welfare:

Mike W3JO had one more work day until his official retirement – congrats!

Vince KD3TC sent 3 cards this month to Randy N3LJE, Ralph N3QKQ, and Tony W3FLH. The thoughts and prayers of all WARC members are with you.

Repeater:

Brian N3EXA is anticipating the arrival of our new Yaesu DX-1R repeater for the 440MHz side. The 2m side is operating well, but needs consistent usage. Echolink should be re-established by (2/7)

Old Business:

Mike W3JO has sent the deposit to the Middletown Grange to secure the date for the Hamfest (5/3). He will be following up with them this week. He has also posted a sign-up sheet near the refreshments as more volunteers are needed to make the Hamfest a success once again.

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Randy N3LJE & Doc WA3RAU are retiring after many years of serving as our Refreshment Chairmen. Thank you both for a wonderful job thru the years! We are looking for someone to assume the role of Refreshment Chair immediately – please contact any Board member if you are interested. If the position is not filled in short order, we run the risk of not offering them at the next General Meeting, so please volunteer to help your Club.

The 1st ever Member Survey was distributed via email to 120 club members, with 49 having responded thus far. This is an outstanding return rate. Thank you to all who have responded, and please do so if you haven't yet. If you failed to receive the email, please contact Vinny K3VJP.

Andy KD3RF reports that a date for the ARISS/CRSD contact is imminent, and that all systems are “Go”! He will advise all members once the date is established. All members are welcome to attend; contact Andy KD3RF or Joe AA3JH for specifics. The school administration and board are very excited about the contact.

The Warminster Township Supervisors Have postponed the presentation of our proclamation at this time. Irwin KD3TB will advise of the new date, once we've been added to the agenda.

New Business:
No new business

Meeting adjourned (7:50pm).

Submitted by Tony, W3FLH, Secretary (2/26/15)

Team of High School Science Students and Ham Radio Operators Make Formula for Success.

Warminster Amateur Radio Club members and students from Council Rock High School South make a 10-minute QSO with International Space Station.



By Andy Vavra, KD3RF
February 19, 2015; 18:18 UTC

What do you get when you bring together ten students, four teachers, five Ham Radio operators and an Italian Astronaut into a single cohesive team? A successful opportunity to introduce the next generation of young people to the thrill of making a contact via Ham Radio that was literally “out of this world”.

It was a once-in-a-lifetime experience for the Council Rock High School South students on February 19th when they engaged in a 2-way QSO with the Italian astronaut aboard the International Space Station.

It was a feat that would not have been possible without the donation of a complete satellite communications system that was generously given to the school by ARISS Coordinator Steve Michalski –KB9UPS of Toledo, OH. Steve was scaling back his involvement with the program and looking for a good home for his station at about the same time the Council Rock teachers were looking for a mentor and they were introduced to each other by Debra Johnson, ARRL Educational Services Manager.



Samantha Cristoforetti

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Of the four teachers only one of them, Joe Warwick- KB3ZED, had an FCC license and they reached out for assistance to the Warminster Amateur Radio Club (WARC), a 50 year old ARRL Special Services Club located about 10 miles away. Lead teacher, Jerry Fetter, made contact with Andy Vavra – KD3RF, and the two of them quickly assembled a team of WARC volunteers and CRSD teachers to take on the project.

Beginning in August, 2014, and over the course of the next six months the team reassembled, installed and tested Steve Michalski's station at the High School. The team also rebuilt the antennas, tested software, and ran feedlines while waiting for a date to be assigned by NASA and ARISS for the contact to take place. Steve stayed in touch the entire time and worked tirelessly behind the scenes to ensure that the students would get their opportunity to talk to outer space.

Finally a date was confirmed – The QSO would be on February 19th, 2015, at 18:18 UTC and the antennas, preamps, AZ-EL rotator, and feedlines had been sitting in a deep freeze on the roof of the school; not quite the extreme environment of outer space, but certainly a situation that had the team concerned. We had just gone through one of the worst weather events the Northeast had seen in many years with freezing rain, snow, and single-digit temperatures that made us wonder if everything would still work.

In the days prior to the contact, there was a frenzy of activity that resembled the activity on the launch pad of a Saturn V. Equipment was tested, retested, and tested again. Packet bursts from the ISS were monitored as the Space Station passed overhead to assure the antennas were tracking correctly. The entire station was moved to the High School auditorium and student questions were written many months before and were practiced in a simulated environment to get over any pre-contact nervousness.

Finally the day arrived, February 19th. WARC team members are at their posts anxiously awaiting the “acquisition of signal” when the ISS comes above our southern horizon. Total time for the QSO is estimated to be just 8 ½ minutes and there is very little margin for error.



Irwin Darack – KD3TB manned the computer console ensuring that the antennas are in their correct positions.

Joe Horanzy – AA3JH had responsibility for the radios and making adjustments for Doppler shift and antenna polarization as the spacecraft approaches.

Karl Harris – K3KH was “ground control” on the phone with ARISS who were in contact with Johnson Space Center and would advise the team if any real-time changes were needed.

Andy Vavra – KD3RF was the Control Operator for the QSO and worked with the teachers and students as they asked their questions to Ms. Cristoforetti on board the ISS.

WARC members **Mike Shanblatt – K3MAS** and **George Brechmann – N3HBT** did not participate on the day of the contact, but Mike provided extensive satellite communications experience and support in the months prior and George assisted with terrestrial contacts during the testing and student practice sessions.

While the team from WARC was getting the antennas positioned and frequencies dialed in on the radios, Council Rock teachers Jerry Fetter, Fred Bauer, Jeff Warmkessel, and Joe Warwick – KB3ZED gave an informative presentation on the International Space Station to an audience of 250 students, administrators, and fellow teachers who had gathered in the auditorium for the ISS contact.

They gave detailed explanations of the outer space environment in which the ISS operates, and introduced the team of operators from the Warminster Amateur Radio Club who would be operating the equipment during the contact. WARC President Irwin Darack – KD3TB followed up with a brief presentation about Ham Radio and the personal enrichment and professional benefits it can provide.



Acquisition of the signal with the ISS was established at 18:20 UTC when it was over Georgia with some slight noise and what sounded like polar flutter for about the first 30 seconds, after which the signal strength came up dramatically and stayed that way for the remainder of the contact. We lost communications with the Space Station around 18:28 as they passed over Nova Scotia. During that time, the ISS was traveling at an altitude of 275 miles and a speed of 17,100 mph.

Broadcast news teams from two Philadelphia television stations and reporters from local newspapers were present for the event and

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conducted interviews with Council Rock teacher, Jerry Fetter, and WARC President Irwin Darack, as well as several of the students.. Coverage of these interviews were on the evening news at 6:00 PM and 11:00 PM that evening.

The experience made a very positive impression on the teachers, students, and administrators. “When you’re talking to someone who is not currently standing on the planet and they’re in space, it’s just fantastic” said one of the students. “It’s just amazing to see how technology from years ago meshed with technology today to produce such an organic and cool experience” said another.



Council Rock teacher, Jerry Fetter, said, “Students today are used to using their cell phones and modern technology, and to see them get inspired by something that has been used over the decades has been encouraging to me.

As an outcome of the event, several of the teachers and students have expressed an interest in getting licensed and are planning to attend upcoming licensing classes being offered by the Warminster Amateur Radio Club.

Intelligencer Article on the ISS Contact

Posted: Thursday, February 19, 2015 6:30 pm | Updated: 6:34 am, Sat Feb 21, 2015.

By Chris English Staff Writer

From almost 250 miles in space, the voice of Italian astronaut Samantha Christoforetti resonated Thursday afternoon through the auditorium of Council Rock High School South in Northampton.

And while her words were hard to hear and often obscured by static, the marvel of being able to communicate with someone traveling 17,100 mph aboard the International Space Station via a Ham radio setup wasn’t lost on the students and staff who had gathered for the event.

“It was a little fuzzy trying to figure out what she was saying, but just the general idea of being able to talk to someone in space was insane,” said Council Rock South senior Jaclyn Timoney, one of seven students who asked questions of Christoforetti.

Jaclyn asked the astronaut how space travel affects economics on Earth. The fact she couldn’t clearly hear the answer didn’t ruin the experience for the student.

“Just the fact of knowing there was an astronaut on the other end was impressive,” she said. “I still can’t believe we were able to do this.”

Ten students were scheduled to ask two questions apiece, but only seven questions were asked because the school could maintain contact with the space station for only nine or 10 minutes while it passed over Georgia on its way over Nova Scotia — crossing over Pennsylvania on the way — said Council Rock science teacher Jerry Fetter.

Some of Christoforetti’s answers came through more clearly than others.

When a student asked how the space station avoids small meteors and other objects, she said some of it is accomplished through the technical capabilities of the station and the rest through proper navigation and good communication with the ground crew.

“I thought the whole thing was really interesting,” senior Amanda Ritter said — even though she didn’t get to ask her question about what type of human impact on Earth is visible from space.

“The thought of talking to someone up in space was really cool,” Amanda added.

The space call was arranged by Fetter and fellow Council Rock South teachers Jeff Warmkessel, Joe Warwick and Fred Bauer with help from licensed Ham (amateur) radio operators from the Warminster Amateur Radio Club. Members Andy Vavra, Joe Horanzy, Karl Harris and Irwin Darack were at the school Thursday to handle the technical aspects of making contact with the space station after doing a lot of the preparatory work.

“I was a little disappointed the astronaut could not be heard more clearly,” said Fetter. “I was afraid that might happen, but I felt the entire experience was very worthwhile. We were able to make contact, and the whole thing was kind of a lesson in teamwork with everyone doing their part to make it possible. It was something that had a real world application and beyond what you’re able to teach in the classroom.”

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Warminster Amateur Radio Club receives a Proclamation from the Warminster Township, Pennsylvania Board of Supervisors by Irwin Darack, KD3TB

The Warminster Amateur Radio Club (WARC) was honored on February 19th, 2015 by the Warminster Township Board of Supervisors in recognition of the club's 50 years of community service as a valuable resource to the township and its citizens.

The Township Supervisors recognized Warminster Amateur Radio Club's contribution to the community for:

- Organizing and providing services to improve emergency and public service communications between residents, public officials and Emergency Management Services.
- Providing courses, coaching and assistance to residents interested in becoming a licensed Amateur Radio operator.
- Providing a club owned and operated station with HF, VHF and UHF capabilities for the purposes of emergency communications and public services.
- Being recognized as a valuable resource by many local and national relief organizations.
- And making the club's personnel, equipment and resources available to the township for more than 50 continuous years of operation.

Irwin Darack, WARC President gave a brief presentation at the ceremony highlighting the benefits that Amateur Radio offers to the community such as the recent contact made by students at Council Rock High School South (Newtown, PA) with astronauts aboard the International Space Station. One of the Supervisors remarked with amazement that 'while his cell phone barely works in some areas of the township, Amateur Radio was able to make a contact with the Space Station'.

Receiving the Proclamation from Daniel J. McPhillips, Warminster Township Chairman (far left) are George Brechmann - N3HBT, Seeing Eye guide dog Dutchess – "K9DOGO", Vinny Porcaro - K3VJP, Irwin Darack - KD3TB, Andy Vavra- KD3RF, Bill Ballantine- K3FMQ and Rich Luce- AG3L.



THE K7RA SOLAR UPDATE

Tad Cook, K7RA, Seattle, reports: Average daily sunspot numbers over the past week were about the same (59) as last week (54.6), while average daily solar flux declined from 121.4 to 116.3.

Average daily planetary A index increased from 9 to 11.3. The average daily mid-latitude A index also was higher, rising from 7 to 9.3.

These numbers compare the 7-day period from February 19-25 with the previous 7 days.

The NOAA/USAF 45-day forecasts <<ftp://ftp.swpc.noaa.gov/pub/forecasts/45DF/>> for planetary A index and solar flux have been late on several days this week. The latest available is for February 24, which calls for solar flux at 125 for February 26 through March 5, 130 on March 6, 135 for March 7-9, 130 on March 10, 125 for March 11-12, 120 for March 13-17, and 115 for March 18-23. Solar flux then reaches a peak of 135 for April 3-5 before declining again.

Predicted planetary A index is 10, 8, and 20 for February 26-28, then 22, 15, and 8 for March 1-3, then 10, 5, and 7 for March 4-6, rising back to 10 for March 7-8, down to 5 for March 9-13, then 10, and 5 for March 14-15, 15 for March 16-17, 8 on March 18, and 5 for March 19-21.

John Magliacane, KD2BD, of Sea Girt, New Jersey, e-mailed a blast from the past -- some old e-mail from me, ARRL bulletins, and various posts from the late 1980s and early 1990s on Usenet and the Amateur Packet Radio Network, which he recovered from archives on an old hard drive. I hope to post <<http://arrrl.org/w1aw-bulletins-archive-propagation>> some newly recovered ARRL Propagation Bulletins from 1990-1991. Let me know if you find any old archives such as this.

Courtesy ARRL Newsletter

CLUB INFO**PUBLIC SERVICE**

George N3HBT informed of the Warminster Memorial Day Parade, scheduled for Monday (5/25), with a rain date of Saturday (5/30). Multiple operators will be needed; more info to follow.

Warminster Chamber of Commerce will hold their annual Hole-in-One challenge at Five Ponds Golf Course on Thursday (6/4). About 6 operators should be needed for this event.

CLUB STATION

The WARC club station is open to anyone with an interest, on Tuesday evenings between the hours of 7:00 and 9:00 pm. For further information, call George Brechmann N3HBT at 215-443-5656.

WARC ALUMNI MEMBERSHIP

An Alumni membership category is available for WARC members who are unable to attend meetings and club activities on a regular basis because of health considerations, travel impediments, or other hardships. Dues for the Alumni membership are \$10.00 annually. Please contact the Membership Committee for more information if interested."

ATTENTION MEMBERS

The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$5 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership when a facial photo is provided by you. Please see members' photos on club website for proper facial composition. If you do not have at least a Warminster Amateur Radio Club badge with your picture on it, please contact your Membership Chairs at the WARC monthly meetings. Otherwise, please contact Membership by email at: membership@k3dn.org.

If you want to have your picture taken to be placed on the 'Members' Photos' section of the www.k3dn.org website, please contact Membership with your interest. When we get enough people who are interested we will post a notice in Feedback and have a camera ready at the following club meeting.

**PROGRAMS
2015**

February - Annual Club Auction

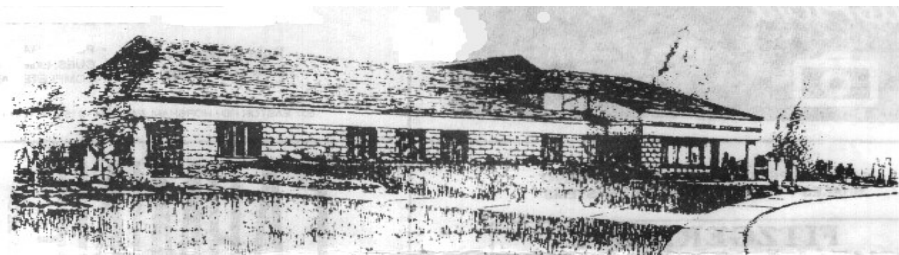
March - Antenna's and Antenna Analyzers - Joe AA3JH and Andy, KD3RF

April - Homebrew night and Hamfest

The Club Station - K3DN - is located at the Benjamin Wilson Senior Center, Delmont Avenue, Warminster, PA. The station is open for club members and the interested general public on non-holiday Tuesday evenings from 7 to 9 pm . The station is fully operational on HF (80 meters through 10 meters) both phone and CW. There is an assortment of amateur radio shareware which may be copied under the shareware licensing agreement.

For additional information on the Club Station please call the Station Manager N3HBT - George at 215-443-5656.

- **WARC Meetings are held the first Thursday of each month at 7:30 pm at the Benjamin Wilson Senior Center, Delmont Avenue, Warminster, PA. Talk in is available on the 147.09 & 443.950 repeaters.**



2015 Contest Calendar

MARCH**7-8 International DX - PHONE**

0000 UTC Saturday through 2359 UTC Sunday

APRIL**19 Rookie Roundup - Phone**

1800 UTC through 2359 UTC

JUNE**13-15 VHF**

1800 UTC Saturday, runs through 0259 UTC Monday

21 Kids Day

1800 UTC through 2359 UTC Sunday

27-28 Field Day

1800 UTC Saturday and running through 2059 UTC Sunday

QSO Parties

Idaho

1900Z, Mar 14 to 1900Z, Mar 15

Wisconsin

1800Z, Mar 15 to 01200Z, Mar 16

➤ ATLANTIC DIV. HAMFESTS - 2015

**March 16 - Indoor Tailgating Expo**

Independent Hose Company

310 Baughmans Lane

Frederick, MD 21701

<http://www.frederickarc.org>**April 11 - York Hamfest**

Elicker's Grove Park

511 Roth Church Road

Spring Grove, PA 17362

<http://www.yorkhamfest.org>**April 26 - Hamfest By the Shore**

Riverwood Park

Riverwood Drive

Toms River, NJ 08753

<http://jsars.org>**May 3 - WARC Hamfest**

Middletown Grange Fairgrounds

576 Penns Park Road

Newtown, PA 18940

<http://www.k3dn.org/hamfest.htm>**June 21 - BARC Father's Day Hamfest**

Arcadia Volunteer Fire Company Grounds

16020 Carnival Avenue

Upperco, MD 21155

<http://www.gbhc.org>

V.E. TEST LOCATIONS

Confirm all information, in advance, with the contact person. Licensed applicants must bring the original, and one photocopy of their license. All applicants, including children, must bring two forms of positive ID. Also bring the original, and a copy, of any Certificate of Successful Completion needed to prove current status. The ARRL VEC'S 2015 test fee is **\$15.00**.

Warminster Amateur Radio Club, Monthly, Last Mon. 7:00 pm at the Wilson Senior Community Center 580 Delmont Avenue Warminster, PA 18974 George Brechmann (215) 443-5656.

Atco, NJ, The fourth (4th) Tuesday of each month, at 7 p.m. Winslow Township Senior Center, 33 Cooper Folly Road, 08004-2603.

Mark (K2AX) jtra@comcast.net

Levittown, PA, Monthly, 3rd Monday at 6:30. Falls Township Building - Ben Johns, K3JQH, 215-657-5994

Telford, PA, Monthly, RF Hill ARC. 3rd Monday at the Indian Valley Library. Charles Schmell, KB3CEZ, 215-257-6368 days 215-538-7458 evenings.

Philadelphia, PA, Testing is done on the 4th, non holiday Thursday of the month at the, Community Ambulance Association of Ambler, 1414 E Butler Pike, Ambler PA 19002 at 7:00 PM We also are testing on Saturdays at least once per quarter at 9:00 AM. For further information contact James McCloskey at jmcloskey@msn.com and by phone 215-275-2979.

Lansdale, PA Testing on the first non-holiday Tuesday of the month starting at 7:00 PM. The Lansdale Library Community Room Vine St. and Susquehanna Ave. Lansdale, Pa. Registration is required 48 hrs. or more before the scheduled exam date. If there are no registrations the scheduled exam date will be canceled. NO WALK-INS. You can register by contacting:

Olaf N. Markert ----- Phone (610) 517-5074, E-mail w3pa@arrl.net

SKYWARN INFORMATION

MOUNT HOLLY NWSFO SKYWARN Weekly Information Net: EVERY THURSDAY AT 21:00 HOURS

SKYWARN Net Repeater Listing/ Streaming Audio of scheduled SKYWARN Net: <http://www.skywarnnet.net>

You do NOT have to be a certified SKYWARN Weather Spotter to check into the Net

Bucks County SKYWARN Weather Spotter PRIMARY FREQUENCY: 147.300MHZ (+ 131.8)

Fairless Hills, PA (many remote access locations throughout Bucks County)

Mount Holly NWSFO SKYWARN Homepage:

<http://www.erh.noaa.gov/phi/skywarn/index.html>

SKYWARN Basic Weather Spotter Educational Programs URL:

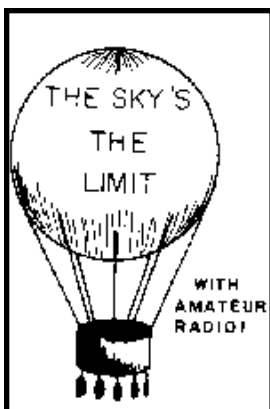
<http://www.erh.noaa.gov/phi/skywarn/training.html#sched>

➤ CLUB EQUIPMENT

WARC has purchased four Vertex Standard 2-meter HT's that are available for use by members of the club. The HT's are available on a month-by-month basis and have been purchased primarily to help new hams get on the air.

However, they may also be used by any club member who is in need of a temporary 2-meter radio. They are also available for use by participants in WARC's public service activities.

DE, Vinny Porcaro K3VJP
215-493-0783



The Warminster Amateur Radio Club Announces Free Ham Radio Instructional Classes

If you're interested in Ham Radio, or think you might be, this is your opportunity. Perhaps you'd like to learn about digital communications, Morse code, VHF, UHF, satellite, or perhaps you'd rather sit down and chat with someone in South Africa, Russia, Great Britain or in the space station.

For further information contact George Brechmann, N3HBT at 215-443-5656.

We will have Tech classes in March. Starting date will be March 9th (a Monday) at 7:00pm till 9. Classes will run for 8 Mondays.

Bucks County Amateur Radio Emergency Service (BCARES)

www.bucksares.org

Bucks County ARES will be on the air Wednesdays, at 9:00 PM. We will be using Warminster Amateur Radio Club's repeater on 147.090, pl 131.8. This net is linked as shown in the Net Schedule box for the Wednesday night net. It may also be linked to 147.300.

Winlink Gateway Stations:

Upper Bucks	NJ3A-10	145.610 Riegelsville
Lower Bucks	NY3J-10	145.530 Bensalem
Montco	W3CF-10	145.950 Hatfield
Chester County	W3EOC-10	145.690

Net Schedules

Sunday	2100	10 Meter Net	28.445 MHz
Wednesday	2030	2 Meter Net	147.09 Rptr.
Wednesday	2030	Linked w/ 2 Meter Net	443.95
Rptr. Wednesday	2030	Linked w/ 2 Meter Net	53.230 Rptr.
Sunday	2030	Informal Net	223.5 Simplex
Thursday	1900	Mont. Cnty RACES Net	146.835 Rptr.

Area Repeaters

VHF

145.310 R.F. Hill
145.350 Doylestown R.C.
146.790 Penn Wireless
145.330 Hilltown
146.670 DVRA
146.685 Holmesburg
146.925 Willingboro
147.000 Ham Buergers
147.030 Phil-Mont
147.090 Warminster
147.270 Frankford
147.300 BEARS
147.390 CBRA

220

224.580 PackRats
223.76 K3NAL

UHF

442.650 DVRA
443.250 TAG
443.050 Metro-Comm
443.950 Warminster
444.200 BEARS
447.475 WR3B
448.225 Penn Wireless

D-STAR

146.61000 K3PDR DV
445.18125 K3PDR DV
445.01875 AA3E Montco
RACES

6 Mtr

53.030 WA3BXW
53.230 N3DQZ
53.320 K3MFI

Are you submitting an article for the Feedback ?

Contributions of articles to be published are always accepted for consideration. Please follow these guidelines:

- E-Mail to:
wa4ywm@comcast.net
Or via snail mail to:
FEEDBACK EDITOR
Warminster Amateur Radio Club
Box 113
Warminster, Pa 18974
- Use both upper and lower case letters.
- Use your program's spell check.
- If you don't have a computer, then typewritten sheets are o.k, but please use both upper and lower case.
- Put your name and call at the beginning or end of the article, and show credits if you are using material from another source.
- Deadline for articles is the Saturday before the regular meeting.

For general club correspondence:
k3dn@k3dn.org

Visit our Home Page at:
<http://www.k3dn.org>

The annual dues rate structure is as follows:

Full Member: \$ 20.00
2nd Family Member: \$ 10.00
Student: \$ 10.00
Alumni: \$ 10.00

- Are your dues current ?
- Check the date on your Feedback mailing label.

2015 Officers

Executive Officers

President	Irwin Darack	KD3TB	215-343-8170
Vice-President	Vinny Porcaro	K3VJP	215-493-0783
Secretary	Tony Cuttone	W3FLH	267-679-9297
Treasurer	Bill Ballantine	K3FMQ	215-766-0764
Director (A)	George Brechmann	N3HBT	215-443-5656
Director (E)	Joe Horanzy	AA3JH	215 962-9592
Director (A)	Al Konschak	WI3Z	215-491-9941
Director (E)	Andy Vavra	KD3RF	610 287-3295
Past President	Richard Luce	AG3L	215-441-8264

Committee Chairpersons

Archives			
ARES/RACES Liason	Karl Harris	K3KH	215-264-1855
Arrl Liason	Richard Luce	AG3L	215-441-8264
Awards Manager	Vince Pironti	KD3TC	215-674-0446
Classes	George Altemus	KA3WXV	215-855-3856
Digital and APRS	Ron Wenig	NY3J	215-638-9257
DXpedition	Doc Whitticar	W3GAD	215-968-6397
Feedback Editor	Jim Elmore	WA4YWM	215-538-1889
Field Day 15	Mark Kempisty	AA3K	215-953-1493
Fundraising	Adam Huffnagle	KB3JCP	215-442-9526
Hamfest 15	Mike Karabin	WJ3O	215-317-4029
Hamwear	Herb Hickmott	KB3VMN	267-718-3601
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Vinny Porcaro	K3VJP	215-493-0783
Membership	Fred Pezok	K3MFP	
Membership	Andy Vavra	KD3RF	610 287-3295
Membership	Bill Ballantine	K3FMQ	215-766-0764
Net Manager	George Brechmann	N3HBT	215-443-5656
PA QSO Party	Mark Kempisty	AA3K	215-953-1493
Publicity	Bernice Kraut	KB3PCX	215-884-8195
Refreshments	Doc Morein	KA3RAU	215-542-0593
Refreshments	Randy Gehman	N3LJE	215-822-9473
RF Interference	Andy Vavra	KD3RF	610-287-3295
RF Interference	Bill Ballantine	K3FMQ	215-766-0764
Repeater Coordinator	Brian Taylor	N3EXA	215-257-6303
Safety Officer	Vinny Porcaro	K3VJP	215-493-0783
Skywarn Liason			
Station Trustee	George Brechmann	N3HBT	215-443-5656
Sunshine Club	Vince Pironti	KD3TC	215-674-0446
Township Liason	Richard Luce	AG3L	215-441-8264
VE License Testing	Larry Abbott	WA3ELQ	215-704-3282
VHF/UHF/MW	George Altemus	KA3WXV	215-855-3856
Website Coordinator	Al Konschak	WI3Z	215-491-9941
Youth Programs	Steve Larson	WW3Y	215-822-1511