



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

July 2017

Next Meeting July 6th - Digital Modes w/Barry K3EUI and Ron NY3J

President's Message

Well, WARC has put two more events behind us over the past few weeks: The W3U Special Event for Flag Day at the Union League of Philadelphia and ARRL Field Day. The W3U event was a success, and a true team effort in all ways. The planning of the event was headed by Doc KA3RAU, a life member of the Union League, and coordination and logistics were handled by Joe AA3JH and myself. On site, the installation of our antennas was overseen by Brian N3EXA and Al WI3Z on Friday evening, while the operators for the event on Saturday included Maryellen KD2NNM, Kathy KC3FBY, George KC3ESH, Larry WA3ELQ, Charles KS3Z, Shrini KC3FJB, Guy WA3JSN, and of course, Joe and Doc. The League provided all accommodations, including lunch and dinner for our crew, in one of the most beautiful locations in the city. Although the bands were not in peak condition, dozens of contacts were made, generating a few small pileups, and allowing all the operators an opportunity to make some contacts.

ARRL Field Day was another successful activation for WARC, despite imposing weather conditions which left our site in less-than-optimal conditions. Once again, we set up at the National Shrine of Our Lady of Czestochowa in Doylestown, PA, and although the area experienced torrential rains overnight prior to the start, our group managed to set up operation as a 6A entry, and churned out respectable numbers of contacts on all bands. Adaptability was the theme of the weekend, as the various stations made whatever changes were necessary (relocated shelters, new antenna configurations, etc.) to set up shop. Fortunately, once those fierce storms left the area, they allowed beautiful weather to linger in their wake, making the balance of the weekend a true pleasure to be "stuck" outside! One interesting addition this year was the purchase of new signage, advertising our club and the Field Day activity, in both English and Polish - **dziękuję!** Our thanks to Doc W3GAD for chairing the effort, and to Mark AA3K and Marianne KA2VJO for their tremendous work in hosting our gang, and providing hospitality and hot meals to all attendees.

This month's presentation is on Digital Modes, and will be given by Barry K3EUI, who hosted our inaugural Hamfest presentation earlier this year.

de Tony, W3FLH

73

WARC General Membership Meeting Minutes June 1st, 2017

Attendance

Call to Order – Tony W3FLH

Introductions – pass the mic

Minutes from last Meeting

Additions/Corrections – Motion made and minutes were approved

Committee Reports

Treasurer's Report: *Bill K3FMQ*

As reported at the meeting

Programs: *George KC3ESH*

July – Field Day recap/ Digital Modes with Barry K3EUI

August – Listening to Jupiter with Laura KC3GWL

(Continued on page 2)

(Continued from page 1)

September – Home Brew Night

October – ARRL night

November – Contesting from DX Engineering – Tim K3LR Skype call

December – Holiday dinner

Membership: *George KC3ESH*

129 members, 1 new application this evening

Public Service: *George N3HBT*

Memorial Day Parade, May 29 in Warminster – Thank you to everyone who helped on Monday despite the weather, township was very appreciative

Thursday, June 8 Golf Outing at Five Ponds – almost have enough operators for this event

Michael KB3JEY - Tour de Cure bike race is June 3; need a few Hams for the rest stops; Thank you to all that have signed up to help

Classes: *Ron WB2OOB*

Classes are over until 2nd Monday of September with Tech and General

VE Testing: *George N3HBT*

Testing on Monday evening, May 22 with 4 people all successful. 2 Technicians, 1 General, 1 Extra

Testing session at the Hamfest had 44 tests given

Next session on Monday, June 26, George KC3ESH will run the session

No VE session in August

Repeater: *Brian N3EXA/AE not in attendance*

No known issues; hiccupped early this week

Temple University is interested in collaborating with us with a repeater

Good and Welfare: *Vince KD3TC not in attendance*

Fred MFP is looking to put up a wire antenna and is looking for some help. *Please contact him to see if you can help him out.*

Other Committees

Old Business

Special Event: Union League/W3U (Tony W3FLH) – Joe AA3JH will take the lead on this event and coordinating with the League and Doc KA3RAU. Working with KYW to get some news coverage. We will be working on 20 and 40 meters SSB.

Field Day – Final prep (Doc W3GAD) – Will be the presentation. Signup sheets are going around for operating the bands. Doc is still looking for some people to help out with a few jobs.

Hamfest – Michael (W3MAS) – Successful by all accounts. Will be signing the contract with the college for next year and we will be contacting ARRL regarding doing the section convention.

New Business

2017-18 Annual Budget – (Tony W3FLH/Irwin KD3TB) – Approval for 17-18 budget will take place after a short recess. Motion made and unanimously approved to approve the budget as presented at the meeting.

Purchase of AED/Training – Herb KC3VMN will be heading up a committee to explore the purchase of an AED and training. Looking for someone from general membership to help with this committee.

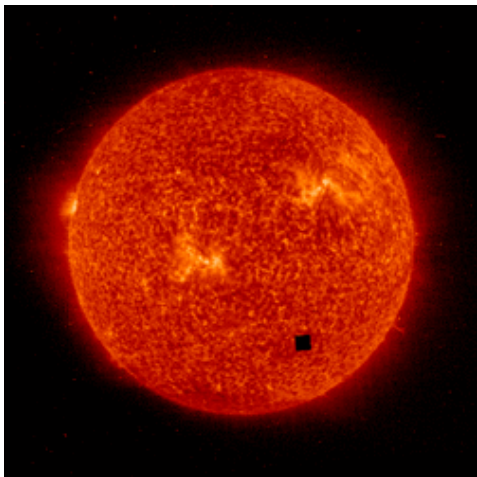
Motion to Adjourn

Motion approved to adjourn 8:29pm

Presentation: Field Day Prep / W3U Special Event Prep (Doc W3GAD) / Pizza Night

(Continued on page 3)

(Continued from page 2)



THE K7RA SOLAR UPDATE

Tad Cook, K7RA, Seattle, reports: Not much change in the numbers since last week, but all indicators were lower. The average daily sunspot number moved from 29.4 to 20.3, and average daily solar flux went from 74.6 to 73.6.

The average daily planetary A index dipped from 9.4 to 6.9, and the mid-latitude A index from 8.1 to 7.4.

Predicted solar flux is 72 on June 29-July 2; 70, 71, and 72 on July 3-5; 74 on July 6-7; 75 on July 8-14; 76 on July 15-16; 75 on July 17-19; 74 on July 20-22; 72 on July 23-24; 77 on July 25-28; 74, 73 and, 72 on July 29-31; 73 on August 1; 74 on August 2-3, and 75 on August 4-10.

The predicted planetary A index is 10 on June 29-30; 5 on July 1-12; 20, 12, and 10 on July 13-15; 5 on July 16-20; 10, 12, 10, and 5 on July 21-24; 10 on July 25-26; 5 on July 27-August 8, and 20, 12, and 10 on August 9-11.

The ARRL website includes monthly propagation charts <<http://arrl.org/propagation>> between four US regions and 12 overseas locations.

Sunspot numbers for June 22 through 28, 2017 were 23, 22, 28, 20, 19, 17, and 13, with a mean of 20.3. The 10.7-centimeter flux was 73.7, 73.7, 74.1, 73.7, 73.7, 74.1, and 72.1, with a mean of 73.6. Estimated planetary A indices were 6, 5, 9, 11, 7, 5, and 5, with a mean of 6.9. Estimated mid-latitude A indices were 8, 6, 8, 11, 9, 5, and 5, with a mean of 7.4.

In Friday's bulletin look for an updated forecast and reports from readers, including 6-meter reports from Rich Zwirko, K1HTV, and Scott Bidstrup, TI3/W7RI. Send <k7ra@arrl.net> me your reports or observations, especially on propagation during ARRL Field Day.

Courtesy of the ARRL Newsletter

GUESS WHO?

He is a well known club member. Identity will be revealed by him or me at the July meeting. (Photos provided by Bill, K3ZMA)



MORE HAMFEST FEEDBACK

(Editor's Note: The following appeared in the Packrats newsletter - Cheesebits)

The Eastern Pennsylvania Convention And Warminster Hamfest Report

By Rick, K1DS

It was a cool and cloudy Sunday morning on May 7th, but the crowd was there to buy, sell, chat, and hear the speakers at the convention and hamfest. The new venue was the Bucks County Community College Lower Bucks Campus. It was a great spot as there was plenty of parking near the building and on well marked blacktop. No mud, despite the previous day's rain and a few sprinkles in the morning.

Although there were several tailgating sellers, the crowd has thinned out quite a bit. Packrats WA3GFZ and W3RJW were there to get early spots and set up a nice spread of many useful items. I met many of the Packrats as I cruised around the indoor and outdoor sellers.

My focus was on the three speaker sessions that were held between 9AM and noon. Indoor sellers lined the main floor and the school's snack bar was selling food. There were clean bathroom facilities on each floor, conveniently located near the elevator that could take you up to the second floor classroom. The classroom used for the talks was equipped with padded lounge chairs on rollers with a swivel desk-top built onto it. There were white boards and a built-in projector and screen. Oh, to be a student again in such luxurious settings!!

I had my first introduction to FLDIGI, thanks to Barry Feierman, K3EUI. He had the projector showing his laptop images on the big screen and he explained the various digital communications programs that were available. Several of the modes were demonstrated with a shill stationed in the back of the room who sent various messages in different modes during the presentation. Barry also explained the interfaces and methods of linking the radio and the computer and what digital modes might be used under various communication conditions. I think I've got to download the FLDIGI suite and get started sometime soon in their use.

Norm Fusaro, W3IZ, the ARRL Radio Sport Department Manager was next to speak. Norm comes from the local area and being an ARRL manager seems to be his dream job. He gave a synopsis of his ham career and focused on where we as hams might be headed. He repeated this phrase several times during his talk: "If you are not a participant in progress, you may wind up as a victim of progress." The focus was on getting newcomers involved, mentoring them in the hobby and incorporating the newer aspects of communication into daily (ham) lives. Software Defined Radio (SDR), digital modes, and unique hamming activity were topics covered that resonated with the audience.

Bob Famiglio, K3RF, ARRL Atlantic Division Vice Director & Volunteer Legal Counsel gave us his perspective on issues affecting licensees. He started with the trinity of main issues: spectrum, RFI and useable antennas. Over the past several years, ham privileges have changed, with additions of the WARC bands, reduction of the 220-222MHz segment, and the recent addition of VLF frequencies. The RFI caused by various electronic products that don't comply with FCC Part 15 rules remains an issue and solar installations may be generating RFI. Although last year's CCR antenna legislation got stalled in the US Senate, this year's House Bill HR 555 has already been passed and awaits action again in the Senate.

I thought that I really didn't need anything more for my shack or rover, as I am gradually lightening my load as we are spending more time in Florida. Just as folks were taking down most of their items around noon, I wandered the parking lot and halls one more time. Something called to me and in an instant I had a Kenwood MC-60 desk-top mike to complement my Kenwood rigs. As my friend KB1JEY says, "You can never have enough..." Just don't tell the XYL.

Cheese Bits June 2017 10

QUICKER-TURNAROUND DIGITAL MODES IN EXPERIMENTAL STAGE FOR WSJT-X SUITE

Recent sporadic-E propagation openings on 6 meters and elsewhere have demonstrated the need for a digital mode with a faster turn-around time than what is offered by currently available software versions. A recent WSJT-X reflector <https://groups.yahoo.com/neo/groups/wsjtgroup/conversations/topics> discussion allowed that, while the slow JT modes like JT65 and JT9 have excellent sensitivity, their nearly 1-minute-long transmissions may not permit completion of a contact when evanescent signals pop up and quickly disappear under certain E-skip conditions. MSK144 and the fast JT9 submodes allow much shorter transmissions, but they do not offer the multi-decode capability that JT65 users find so effective. Iain MacDonnell, N6ML, was among those remarking that, while the use of JT65 for working E-skip on 6 meters has really taken off, it's too slow to be practical for openings that only last a couple of minutes or so.

Joe Dzekevich, K1YOW, of Harvard, Massachusetts, sounded a similar theme. "A few days ago we had a great opening on 6 meters,

(Continued on page 5)

especially here in the New England area, given our latitude," he noted. "I often find that often one cannot complete a QSO due to QSB and the ins and outs of Es. Yet, being a propagation buff, I love the idea that I can leave the rig on 50.276 in JT65 mode and then see who I hear throughout the day via PSK Reporter."

WSJT-X developer Joe Taylor, K1JT, weighed in to express his appreciation to all who shared their ideas and experiences using JT9 and JT65 modes during recent multi-hop E-skip openings on 6 meters.

"We are very much aware that a mode with most of the excellent characteristics of JT65, but with faster turnaround time, would be a big winner in such situations," Taylor commented on behalf of the WSJT-X development team. "We are experimenting with several such possibilities. Tentative goals include 15-second T/R sequences, sensitivity around S/N = -20 dB, occupied bandwidth less than that of JT65, and capability to decode as many as 10 or 20 signals in a 2-kHz bandwidth."

But, Taylor added, developing new modes takes a lot of time, and results are not guaranteed. "We will report significant progress if and when available," he pledged. Read more <<http://www.arrl.org/news/quicker-turnaround-digital-modes-in-experimental-stage-for-wsjt-x-suite>>.

-- Thanks to Joe Taylor, K1JT

Courtesy of the ARRL Newsletter

BUILDOUT OF NATIONWIDE FIRST RESPONDER BROADBAND NETWORK COULD DRIVE AMATEUR RADIO EMERGENCY SERVICE (ARES) CHANGES

The First Responder Network Authority (FirstNet <<https://firstnet.gov/>>) -- a nationwide wireless broadband network for first responders -- could change the complexion of how the Amateur Radio Emergency Service (ARES) functions to support communication for responders during disasters and emergencies. As an independent authority within the US Department of Commerce's National Telecommunication and Information Administration (NTIA <<https://www.ntia.doc.gov/>>), FirstNet's mission is to build out, deploy, and operate an interoperable nationwide broadband network dedicated to first responders. Ralph Haller, N4RH, the chairman of the National Public Safety Telecommunications Council (NPSTC <<http://www.npstc.org/>>), told ARRL that the advent of FirstNet "will likely be as significant as when public safety first began using radio."

"The nationwide network will be hardened, so that it will be more likely that many of today's public safety systems remain operational in emergencies," Haller said, pointing out that Amateur Radio should not expect to have access to FirstNet. He cautioned, "The endurance of Amateur Radio systems in disasters has been a big selling point in the past for incorporating amateur operators in emergency plans, but perhaps not so much in the future."

NPSTC is a federation of organizations that work toward improving public safety communication and interoperability, and ARRL has a seat on NPSTC's Governing Board. Haller predicted that Amateur Radio's role in emergencies will not disappear. "There is no substitute for eyes and ears on the ground in an emergency," he said, adding that radio amateurs "can and should continue to play an important part" in supporting emergency communication.

"Amateur operators can continue to provide valuable information to emergency operations centers in the recovery phase of disasters," he said. "Whether that intelligence gathering is reporting on storm clouds, power outages, or road closures, amateurs can help provide critical, real-time information about conditions over a vast area. While first responders are treating the injured or protecting life and property, the amateur community can concentrate on assessing the overall picture."

On March 30, FirstNet and the Commerce Department announced a 25-year partnership with AT&T as the primary contractor to make FirstNet a reality. "The ability to communicate seamlessly across jurisdictions is critical for law enforcement, fire, and emergency medical services (EMS) when securing large events or responding to emergencies and disasters," a Commerce Department news release said. "In those instances, networks can become overloaded and inaccessible, limiting responders' use of vital communication technologies, such as smartphones and applications dedicated to public safety services."

Public safety agencies already use commercial wireless networks, such as AT&T and Verizon, to supplement their own radio systems and networks, although such communication is not point to point. FirstNet is initially targeted primarily to provide video and data, with mission-critical voice communication at least a decade away. EMS is likely to become a heavy user of the network, which will employ voice command functions a la Siri or Alexa.

"Be sure the public safety organizations never forget how valuable the amateurs are!" -- NPSTC Chairman Ralph Haller, N4RH.

Inevitably there will be coverage gaps, and the development of "deployables" is critical. These devices can expand the network to areas it doesn't cover but where it may be needed for a specific incident. Deployables could include satellites -- Inmarsat is a

member of the AT&T team. Network security and encryption is a high priority.

The Military Auxiliary Radio System (MARS) now uses encryption on its data nets.

While images in the form of digital Amateur Radio television (DATV) and a plethora of digital modes are available to ARES, First-Net could nudge ARES to more quickly adopt a similar approach. A new generation of radio amateurs steeped in data, image, and video technology is likely to drive ARES to think beyond analog.

Haller advised that the Amateur Radio community should continue to work closely with public safety organizations at all levels to assure that they remain a part of emergency plans.

"The hype about broadband should not result in amateurs inadvertently being swept under the rug," Haller stressed. "Be sure the public safety organizations never forget how valuable the amateurs are!"

FirstNet will use spectrum at 700 MHz -- no immediate threat to Amateur Radio allocations, although there is no guarantee that this won't change as the network approaches the shift to 5th generation (5G) technology. Amateur Radio has access to significant spectrum above 700 MHz.

The expectation is that within a couple of years, a nationwide "core" network will be ready to roll out, and the first public safety users will be on board. Some regional networks have been set up for proof-of-concept purposes and to work out wrinkles. -- Thanks to Mike Corey, K1IU, and Ralph Haller, N4RH

Courtesy of the ARRL Newsletter

US FISH AND WILDLIFE SERVICE OKAYS BAKER ISLAND DXPEDITIONS, WITH STRICT CONDITIONS

The US Fish and Wildlife Service (FWS <<https://www.fws.gov/>>) has agreed that a DXpedition to Baker and Howland Islands (KH1) -- the fourth most-wanted DXCC entity -- would be an acceptable use, but has detailed strict conditions under which it would issue a special use permit (SUP). The FWS recently completed a compatibility determination for Amateur Radio operation on Baker Island National Wildlife Refuge, and two dozen comments https://www.fws.gov/uploadedFiles/Region_1/NWRS/Zone_1/Pacific_Reefs_Complex/Baker_island/Sections/News/News_Items/response%20to%20comments%20Baker%20v6.12.17.pdf showed "strong support" for Amateur Radio operation on the ecologically sensitive island refuge, the FWS said. Baker Island is 1,830 nautical miles southwest of Honolulu -- an 8-day voyage.

"While...not a wildlife-dependent public use according to National Wildlife Refuge Administration Act of 1966, as amended, Amateur Radio operation is a use that assists in the management of the resources indirectly," the FWS said in its Compatibility Determination <https://www.fws.gov/uploadedFiles/Region_1/NWRS/Zone_1/Pacific_Reefs_Complex/Baker_island/Sections/News/News_Items/CD_Baker%20Island%20NWR_Amateur%20Radio_final%20v.6.9.17.pdf>, released on June 8. "By allowing Amateur Radio operators to visit the PRIMNM [Pacific Remote Islands Marine National Monument] refuges, the refuges benefit through the ability of staff to visit remote island sites to monitor wildlife populations, habitats, detect invasive species introductions, and perform management actions that would otherwise require the Service to charter a vessel."

Citing an estimated cost of at least \$250,000 to charter a vessel with a 14-day layover, the FWS noted that "most of the remote island refuges within the PRIMNM are rarely visited due to budget constraints."

Baker and Howland Islands are part of the Pacific Remote Islands Marine National Monument (PRIMNM <https://www.fws.gov/refuge/pacific_remote_islands_marine_national_monument/>), created by former President George W. Bush under the authority of the Antiquities Act of 1906. The monument was expanded by President Barack Obama.

The Compatibility Determination mandated 18 stipulations for Amateur Radio DXpeditions visiting the refuge. A DXpedition to the refuge could last up to 14 days, with only 12 days of radio operation.

"Complete avoidance of seabird colonies will minimize nest disturbance and prevent burrow nest cave-ins," the FWS said in its Compatibility Determination. "Activities on Baker Island will always attract the land crabs that inhabit this location. All efforts must be taken to avoid inadvertently feeding or entrapping these animals."

The FWS would also have to approve QSL cards to ensure that they include "an informative or educational statement about the refuge." Read more <<http://www.arrrl.org/news/us-fish-and-wildlife-service-okays-baker-island-dxpeditions-with-strict-conditions>>

-- Thanks to The Daily DX <<http://www.dailydx.com/>>, FWS

Courtesy of the ARRL Newsletter

Our Sun's 11-Year Magnetic Cycle Destined to Disappear

The Sun's 11-year magnetic cycle appears to be ending, but that won't happen anytime soon. In a [paper](#) submitted on May 26 to the journal *Solar Physics*, two solar scientists are reinterpreting earlier evidence to hypothesize that the Sun's rotation rate and magnetic field are in a transitional phase that could lead to lengthening solar cycles, with the cycle ultimately disappearing altogether between 800 million and 2.4 billion years from now. Travis S. Metcalfe and Jennifer van Saders propose the scenario in their paper "Magnetic Evolution and the Disappearance of Sun-like Activity Cycles."

"After decades of effort, the solar activity cycle is exceptionally well characterized, but it remains poorly understood," the authors say in the paper's abstract. "Pioneering work at the Mount Wilson Observatory demonstrated that other Sun-like stars also show regular activity cycles and suggested two possible relationships between the rotation rate and the length of the cycle. Neither of these relationships correctly describe the properties of the Sun, a peculiarity that demands explanation."

The authors cite stellar evidence for the shutdown of "magnetic braking" in stars similar to our Sun. "The new picture of rotational and magnetic evolution provides a framework for understanding some observational features of stellar activity cycles that have until now been mysterious," they said.

Metcalfe explained their observations through a recent *Forbes* magazine [article](#). "Our previous discoveries identified an unexpected transition in the rotation and magnetism of middle-aged stars," Metcalfe is quoted in the article, "The Sun's Magnetic Dynamo Is Weakening" by Bruce Dorminey. "We now have direct evidence that the stellar dynamo -- the mechanism inside stars that sustains their magnetic fields -- actually shuts down during this transition."

In their paper, the authors said that future observations with the Las Cumbres Observatory global telescope network "promise to probe the onset and duration of the magnetic transition that drives the evolution and eventual disappearance of Sun-like activity cycles."

A 2016 paper Travis co-authored -- "Stellar Evidence that the Solar Dynamo May Be in Transition," published in *The Astrophysical Journal Letters*, concluded, "The Sun still exhibits a dipole component to its global field, particularly near magnetic minimum, but the solar analogs also suggest a gradual concentration of the field into smaller spatial scales, leading to weakened magnetic braking," Metcalfe is listed on the paper as being associated with the Space Science Institute and the White Dwarf Research Corp, both in Boulder, Colorado. Van Saders is listed as being associated with the Observatories of the Carnegie Institution for Science in Pasadena, California, and the Department of Astrophysical Sciences at Princeton University in New Jersey.

Courtesy of the ARRL Newsletter

Pikes Peak ARES at Right Place, Right Time

Members of Pikes Peak ARES® ([PPARES](#) -- Region 2, District 2 of Colorado ARES) were supporting the Mountain Top Cycling Club's annual Experience Ride on June 17, when a motor vehicle collision occurred at an intersection where a race rest stop was located. Three PPARES members on site -- Dan Huber, KN0MAP; Matthew Tuttle, KD0YBE, and Dean Buckhouse, KB0VVA -- were able to respond to the accident, which involved a passenger car and a pick-up truck.

There were injuries, and one of the truck's gas tanks had ruptured and was leaking fuel.

One ARES operator called 911, but cellphone coverage was spotty, and the call dropped after only basic information had been conveyed. A report then was relayed via Amateur Radio to the race communications coordinator and director positions, which had much better coverage, and the director, John Higgins, N6VTS, was able to provide the dispatcher with the necessary information. The on-scene operators were able to assess the situation and assist with traffic control and initial hazardous materials mitigation. Coordinators, who still had riders to track and a course to sweep, were Nate Dwyer, KE0AHK, and Bob Antion, WL7RV.

"It was reassuring to know that experienced and level-headed ARES operators were in the right spot at the right time," said John Bloodgood, KD0SFY, Pikes Peak ARES Emergency Coordinator and Public Information Officer.

Courtesy of the ARRL Newsletter

CLUB INFO**PUBLIC SERVICE****CLUB STATION**

The WARC club station is open to anyone with an interest, on the first Thursday of the month (meeting night) between the hours of 6:30 and 7:30 pm. with the exception of the December dinner meeting 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 and are approved by the Board. 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 \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even numbered months. 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 2017

July – Digital Modes w/Barry K3EUI and Ron NY3J

August – Receiving signals from Jupiter w/Laura KC3GWL

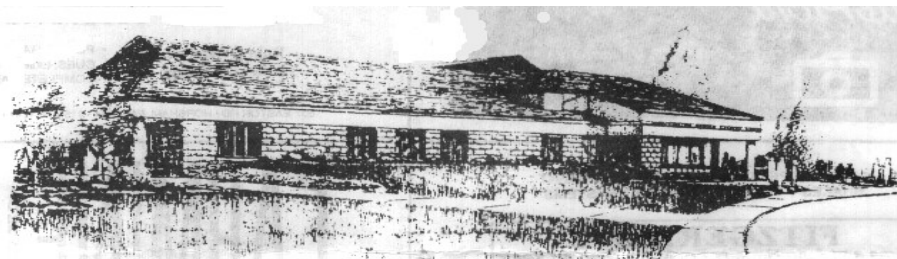
September – Home Brew Night

October - ARRL Night

November - Contesting from DX Engineering – Tim K3LR Skype call

December - Holiday Dinner

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 the first Thursday of the month (meeting night) between the hours of 6:30 and 7:30 pm. with the exception of the December dinner meeting . 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.

2017 Contest Calendar

JULY

IARU HF World Championship - July 8-9

Beginning 1200 UTC Saturday and ending 1200 UTC Sunday

AUGUST

222 MHz and Up Distance Contest - August 5-6

1800 UTC Saturday and ending at 1800 UTC Sunday

10 GHz and Up - August 19-20

6:00 AM local Saturday though 12:00 midnight local Sunday

(RTTY) Rookie Roundup! - August 20

1800 UTC through 2359 UTC

SEPTEMBER

EME - 2.3 GHz & Up - September 9-10

0000 UTC on Saturday through 2359 UTC Sunday

September VHF - September 9-11

1800 UTC Saturday and runs through 0259 UTC Monday

10 GHz & Up - Round 2 - September 16-17

6:00 AM local Saturday though 12:00 midnight local Sunday

QSO Parties

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 2017 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, RF Hill ARC. Indian Valley Library. Held the third Monday of odd months (January, March, May, July, September, November)
Contact: Jim Soete 215-723-7294
wa3ylq@arrl.net.

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 jmccloskey@msn.com and by phone 215-275-2979.

Lansdale, PA Testing on the fourth non-holiday Thursday 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
Alt Contact: Jim, 610-287-5630

➤ ATLANTIC DIV. HAMFESTS ➤ 2017

July 8 - Valley Forge Hamfest

Kimberton Fire Company Fairgrounds Route 113 and Firehouse Lane
Kimberton, PA 19442

<http://www.marc-radio.org/hamfest2.htm>

August 27 - JSARS Hamfest by the Shore

Riverwood Park
100 Riverwood Drive
Toms River, NJ 08753

<http://jsars.org>

September 10 - New Jersey State Convention

Gloucester County 4-H Fairgrounds
235 Bridgeton Pike (Route 77)
Mullica Hill, NJ 08062

<http://w2mmd.org>

September 16 - Delaware Valley Radio Association Hamfest

West Windsor Community Park
Bernt Midland Blvd.
West Windsor, NJ

<http://www.w2zq.com/>

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)

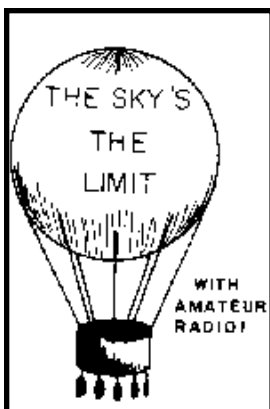
Fairless Hills, PA (many remote access locations throughout Bucks County)

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>



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.

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:

Lower Bucks NY3J-10

145.530 Bensalem

Net Schedules

Sunday	2100	10 Meter Net	28.445 MHz
Wednesday	2000	2 Meter Net	147.09 Rptr.
Wednesday	2000	Linked w/ 2 Meter Net	443.95
Rptr.Wednesday	2000	Linked w/ 2 Meter Net	53.230 Rptr.
Sunday	2030	Informal Net	223.5 Simplex
Thursday	1900	Mont. Cnty RACES Net	146.835 Rptr.

➤ **CLUB EQUIPMENT**

WARC has 2 Baofeng UV-5R dual band HT's and a Yaesu FT-2900 2M mobile that are available for use by members of the club. The radios 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, George Acker KC3ESH

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
444.759 RF Hill Analog/
Fusion

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 FamilyMember: \$ 10.00
Student: \$ 10.00
Alumni: \$ 10.00

- Are your dues current ?

2017 Officers

Executive Officers

President	Tony Cuttone	W3FLH	267-679-9297
Vice-President	George Acker	KC3ESH	215-815-7783
Secretary	Kathy Acker	KC3FBY	215-815-7978
Treasurer	Herb Hickmott	KB3VMN	267-718-3601
Director (A)	Michael Shanblatt	W3MAS	267-491-5773
Director (E)	Larry Abbott	WA3ELQ	215-704-3282
Director (A)	Brandon Penglase	N3UO	215-259-7255
Director (E)	George Brechmann	N3HBT	215-443-5656
Past President	Irwin Darack	KD3TB	215-343-8170

Committee Chairpersons

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
Feedback Editor	Jim Elmore	WA4YWM	215-538-1889
Field Day 17	Doc Whitticar	W3GAD	215-968-6397
Hamfest 17	Michael Shanblatt	W3MAS	267-491-5773
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	George Acker	KC3ESH	215-815-7783
Net Manager	George Brechmann	N3HBT	215-443-5656
Publicity	Bernice Kraut	KB3PCX	215-884-8195
Refreshments	Brandon Penglase	N3UO	215-259-7255
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	Mike Malone	W3MJM	
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