



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

July 2019

Next Meeting July 11th - Radio Astronomy, Robert Welsh, N3RW

President's Message

I almost have everything put away from Field Day, portable antenna and mast, radio, table chairs and tents. A great time was had by all who participated in the event. Weather was perfect, band conditions could have been a little better but everyone who came out had a great time and made contacts. Had some "new" hams show up and we were able to have a couple of them make their first HF contacts. Thank you to Bill, K3FMQ for calling all the new members and explaining to them what Field Day is and inviting them to join us. Thanks to Doc, WA3GAD and his crew for putting it together. And a special thank you to Kathy, KC3FBY and Marianne, KA2VJO for keeping us all well fed. I am already looking forward to next year.

The summer months give us the opportunity to do something that I really like, operating from the backyard. There is something very relaxing about outdoor operating (one of the reasons I love Field Day). I will pull out my field day radio and plug it in to my vertical antenna. When I installed it, I included a weatherproof box that houses a coax connection point to be able to do this. Then I just have fun operating. Sometimes I'll leave the laptop in the shack and use a paper log just to keep it simple. Just spinning the dial and making contacts. If you have the chance, give it a try. Maybe we can start a new trend, BOTA (backyards on the air)!

I hope everyone is enjoying the Club Repeater Challenge. It runs through the beginning of the meeting on July 11th. Rules can be found on the club website, K3DN.org, on the right side under the "news" section. The club member who turns in a log at the meeting on the 11th with the highest point total will be declared the winner and will receive a \$ 50.00 DX Engineering Gift Certificate.

And don't forget, if I didn't mention it enough in the last paragraph, the Club Meeting will not be held on the first Thursday of the month this time around. Due to the Forth of July Holiday the meeting has been moved to the following week on the second Thursday of the month, the 11th. We will see you all then and enjoy the holiday, maybe get outside and try to activate your own BOTA!

73, George, KC3ESH
KC3ESH@yahoo.com

WARC General Membership Meeting Minutes June 6, 2019

Minutes from last Meeting

Additions/Corrections – Minutes approved as written in Feedback

Committee Reports

Treasurer's Report: *Herb KB3VMN*

As reported at the meeting

Programs: *Jacek KC3HXF*

July-Radio Astronomy, Robert Welsh, N3RW

August-Yaesu System Fusion-Mark Hinkel, WA3QVU & Bruce Farrington, WA3ZPC

September-Amelia Earhart Story- Bill Strunk, K3ZMA

October-Home Brew Night

November – ARRL Night

December – Holiday Dinner

Membership: *Norm AB3ZZ*

117 Active Members, 1 Pending

Public Service: *George N3HBT*

2 Past Events, 5 Ponds and Memorial Day Parade, both run successfully.

Saturday, June 15, tour de cure Bike ride, See Mike (KB1JEY)

Classes: *George KA3WXV/Ron WB2OOB (Not Present)*

Starting in September for Tech

(Continued on page 2)

(Continued from page 1)

VEC Testing: *Larry WA3ELQ (Not present)*

Last session in May, there were 2 applicants for General, both successful.

Next Session June 24

Repeater: *Brian N3EXA (Not present)*

New input in Philadelphia, working on receivers on main site.

Good and Welfare: *Ken, K9KJL*

No cards sent this month

Contact Ken, K9KJL, at Ken1321@gmail.com to request new cards.

Other Committees

Hamfest: Tony, W3FLH

In spite the bad weather, we had 236 paid attendees. Our average is around 500. We received great feedback from vendors and attendees, loved classes

Net loss \$725, given conditions, not horrible

Radio Sport: Irwin KD3TB *(Not present)*

Mike – VHF – ARRL June Contest Saturday, June 8

Field Day: Doc W3GAD

Field Day is at the Shrine of Czestochowa, Saturday June 23. The Pavilion is not available. Load-in at Ben Wilson 6/22 at 6pm. Setup begins at 9am Saturday. Operations begin at 2pm.

Clean up, transport to Ben Wilson at conclusion, should be done by 6pm

Currently set as 3A, to be finalized at start of operations.

Logging is being coordinated by Mark Kempisty, AA3K

Logging will be with N3FJP, hopefully using Wifi Network

All logging must use the latest version of N3FJP.

Any logs not using the latest version will require hand-editing, which will be referred back to the Band Captain to complete.

Email Doc W3GAD@ARRL.net for more information.

Old Business

July Meeting Date Changed

July Meeting is 7/11 due to 4th of July is the first Thursday of July

Constitution Review

On-going, will continue after new board takes over

Club Challenge

Held on club repeater from conclusion of June's Meeting to start of July's (7/11)

For more information, go to www.k3dn.org/club-repeater-challenge/

Turn in logs at July Meeting, Prize is \$50 DX engineering gift card

New Business

Online Business Coordinator

Kathy appointed as Online Business Coordinator in transition.

This will allow Kathy to continue representing the Club in various functions like Facebook, Paypal, etc.

Budget

Operating at \$1700 loss on current budget

Will be working on closing that deficit over next year

Refreshments, please contribute

Last Year we spent \$673, received \$143 in donations.

If donations do not increase, refreshments will stop

Holiday Dinner

Club suffers loss on Holiday Dinner. To break even, tickets should have been \$30, not \$15.

Hamfest

Loss, out of our control

Motion to accept, seconded, passed

Groups IO

Migration to Groups.IO is underway. You will get email for Groups IO migration

There will be a final message on Yahoo, then it will be locked

Next months meeting we will have laptops to help anyone having difficulty

Motion to Adjourn – 8:15pm

Program: Project Review - Laura, KC3GWL

(Continued on page 3)

(Continued from page 2)

FOR SALE

Nine (9) aluminum military mast sections sold by the MAST COMPANY, high quality aluminum, each section about 3.75 feet once overlapped on each other for a total height of approximately 34 feet. Brand new in shipping carton. I can bring them to one of the meetings if you are interested. Contact, Bob, K3SRO at dlrwild1@verizon.net

267-535-9189 cell ASKING: \$110 cash or check

REDUCED PRICE!!

Kenwood TS-520S in good working order priced at 150.00.

Kenwood R-2000 Receiver with optional YG-455C included 150.00.

Both Items sell on EBAY for well over 300.00.

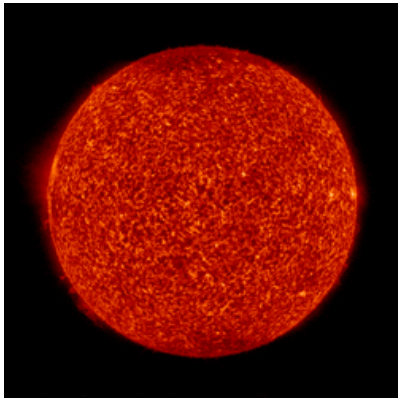
Elliott Ressler W3YEP

erressler27@gmail.com

Tel: 215-635-4893

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: A new sunspot group emerged on June 24, but don't count on it persisting much longer. It emerged already far along the western limb, and it's about to rotate off the visible solar disc.



The average daily sunspot number increased from 0 to 6.7 over the June 20 - 26 reporting week, while average daily solar flux increased from 67.1 to 67.4.

The average daily planetary A index decreased from 5.3 to 5, and the average daily middle latitude A index decreased from 7 to 5.7.

Predicted solar flux is 68 on June 27 - July 6; 69 on July 7 - 9; 68 on July 10 - 11; 67 on July 12 - 27; 68 on July 28; 69 on July 29 - 31; 68 on August 1 - 2; 69 on August 3 - 5; 68 on August 6 - 7, and 67 on August 8 - 10.

Predicted planetary A index is 8 on June 27; 5 on June 28 - 30; 8 on July 1; 5 on July 2 - 5; 8 on July 6; 5 on July 7 - 9; 8 on July 10 - 11; 5 on July 12 - 20; 8, 12, and 10 on July 21 - 23; 5 on July 24 - August 1; 8 on August 2; 5 on August 3 - 5; 8 on August 6 - 7, and 5 on August 8 - 10.

Sunspot numbers for June 20 - 26 were 0, 0, 0, 0, 24, 12, and 11, with a mean of 6.7. The 10.7-centimeter flux was 67.7, 66.5, 66.4, 67.2, 67.9, 67.9, and 68, with a mean of 67.4. Estimated planetary A indices were 7, 6, 4, 3, 5, 4, and 6, with a mean of 5. Middle latitude A index was 8, 8, 5, 4, 5, 5, and 5, with a mean of 5.7.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean...", and [check out](#) K9LA's Propagation Page.

Courtesy of the ARRL Newsletter

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A "Grand Solar Minimum" may be approaching



A [juried research paper](#) in *Nature*, "Oscillations of the baseline of solar magnetic field and solar irradiance on a millennial timescale," suggests that a "grand solar minimum" -- similar to the legendary "Maunder Minimum" -- is approaching, starting as early as next year and lasting for three solar cycles. That would be bad news for HF enthusiasts already struggling with marginal conditions. As the paper's abstract explains, "Recently discovered long-term oscillations of the solar background magnetic field associated with double dynamo waves generated in inner and outer layers of the Sun indicate that the solar activity is heading in the next three decades (2019 - 2055) to a modern grand minimum similar to Maunder one." As propagation buff and contester Frank Donovan, W3LPL, observed, "It's very uncertain if this forecast is correct, but, as usual, the forecasts of the next solar cycle are all over the map. Let's hope these

scientists are wrong."

Courtesy of the ARRL Newsletter

Over-the-Horizon Radars Continue to Plague Amateur Bands

The International Amateur Radio Union Region 1 Monitoring System (IARUMS) [reports](#) a "new kind" of over-the-horizon (OTH) radar on 20 meters. The intruding signal, appearing to emanate from the Far East, was monitored during May on 14.140 - 14.150 MHz. Another Chinese wideband OTH radar has been showing up on 15 meters, with a signal 160 kHz wide. An Iranian radar has appeared on 10 meters, centered on 28.860 MHz, and is audible in Europe during sporadic-E conditions. The signal is about 46 kHz wide. The Russian OTH radar "Konteyner," centered on 14.127 MHz, continues to be observed, with a 12 kHz wide signal.

The so-called "Foghorn" OTH radar from China, first heard in 2017, and other OTH radars were spotted on several 20-meter frequencies. The Foghorn is a burst radar that has been heard on other bands, with the signal often jumping. The signal is frequency modulation on pulse (FMOP) with 66.66 sweeps-per-second bursts.

From the Commonwealth of Independent States (CIS) that emerged following the breakup of the Soviet Union, taxi traffic continues to appear on 10 meters, using FM. IARUMS said pirates in the Far East have been "abusing" 20 meters, transmitting on 14.000 MHz, using USB. IARUMS monitors also logged several fish net (driftnet) buoys between 28.000 and 28.500 MHz, transmitting a carrier followed by a CW identification. Codan selective callings (selcalls) believed to be in Oceania have been heard between 7.108 and 7.150 MHz.

Courtesy of the ARRL Newsletter

Pennsylvania Radio Amateur Dies in Tower Installation Mishap



Well-known northeastern Pennsylvania radio amateur Leland L. "Lee" Parsons III, N3LPJ, lost his life on June 14 during a ham tower installation project when a tower section he was working on collapsed off State Route 2069 in Gibson Township. Authorities said Parsons, 62, was apparently attempting to attach a guy wire to the bottom tower section when it went over. An ARRL member, Parsons was the president of the Susquehanna County Amateur Radio Club.

The online *Wireless Estimator* [called the incident](#) "a stark reminder of the dangers present this weekend during Field Day." The article cited a 2009 Field Day tower collapse that claimed the life of 57-year-old Larry Prelog, KE4PM -- an experienced climber -- while he was installing an antenna. In that incident, two legs at the base of the tower buckled.

The *Wireless Estimator* article also recalled the death of the Reverend Paul Bittner, W0AIH, 84, a well-known radio amateur, contester, and Field Day participant, who lost his life last October when he fell from one of the towers at his extensive antenna farm in Wisconsin.

Courtesy of the ARRL Newsletter

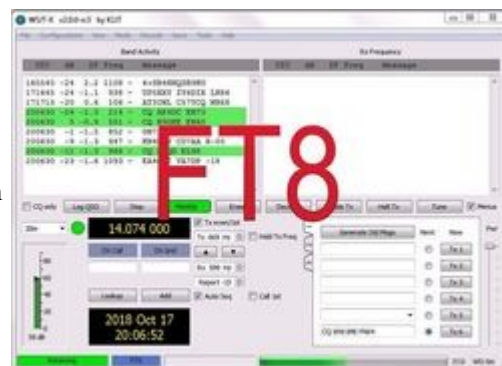
(Continued on page 5)

WSJT-X Developer Posts Observations on Using FT8 in June VHF Contest

WSJT-X developer Joe Taylor, K1JT, has tentatively concluded that there are good reasons to use both FT4 and FT8 in ARRL VHF contests. The latest beta version of FT4 was not available for the event, but Taylor noted that FT4 will be available for future contests

(the current -rc7 beta version will not be usable during ARRL Field Day either). Taylor, who was active in the VHF event over the past weekend, made the remark in a post to the [Packrats](#) reflector. Taylor reported making 433 contacts (21 dupes) in 152 grids, all, by and large, on FT8.

"Most of the time there was enough sporadic E and tropo-scatter to keep things busy using FT8," Taylor observed. "In this event, meteor scatter using MSK144 was not, score-wise, time efficient."



Joe Taylor, K1JT. [Bob Inderbitzen, NQ1R, photo]

Taylor said he operated from home only on 6 meters and only on digital, "mainly to see how FT8 plays in a June VHF Contest." He operated for 21 of the contest's 33 hours and left his receiver running on 50.313 MHz when not in the shack.

"During the contest period, I decoded 45,375 transmissions from others in the 4 kHz window starting at 50.313 MHz," Taylor recounted. "That's an average of about 11 decodes per 15-second receive cycle."

Taylor said he seldom, if ever, found that a single 3 or 4 kHz window was "too crowded" with activity. "There were nearly always some open spots, even with nearly everyone in the first 2.7 kHz of the window," he said.

Taylor also speculated as to how the twice-as-fast FT4 might have fared, being 4 dB less sensitive than FT8 and having an 80 Hz bandwidth instead of FT8's 50 Hz bandwidth.

"My guess is that something like 80 - 85% of my QSOs could have been completed using FT4, most of them in half the time than it took in FT8," Taylor said.

Courtesy of the ARRL Newsletter

Emergency Messaging Demonstration for Red Cross, FEMA is a Success

On May 23, with Red Cross and Federal Emergency Management Agency (FEMA) officials monitoring, dozens of radio amateurs along the US east coast demonstrated Amateur Radio's ability to deliver messages without commercial power, infrastructure, or permanently established stations. The event took place in coordination with ARRL, as a mock response to a simulated disaster scenario -- a major hurricane with mass casualties. During the event, radio amateurs at portable stations from New England to the Carolinas delivered message traffic to W1AW, which coordinated and delivered the information to officials attending a joint Red Cross-FEMA meeting in Baltimore.

"About a dozen stations participated in the demonstration, including operators in Maine, Rhode Island, Massachusetts, New York, northern New Jersey, western Pennsylvania, Delaware, and South Carolina," ARRL Communications Manager Dave Isgur, N1RSN, said. "Red Cross officials were on-site at W1AW and at the receiving station in Baltimore. At both sites, they indicated that were impressed with Amateur Radio's ability to deliver messages digitally so that could be displayed on a computer screen and in a format that matched the format for messages that the Red Cross uses." Isgur said ABC, CBS, and Fox TV affiliates sent reporting teams to W1AW.

A few stations, including W1AW and stations in Baltimore, generated local media coverage of their participation, much of it tied into the notion of "Amateur Radio operators and the partner agencies they serve are getting ready for the 2018 hurricane season," which begins on June 1 and continues through November 30.

W1AW Station Manager Joe Carcia, NJ1Q, said the exercise went well overall. "Conditions were a bit tepid at best, but we were able to establish voice contact first, and then proceed with the digital traffic (MT63-1KS) during the roll call," Carcia said. "Digital signals were good. I needed just one retransmit. We used *fldigi* with *flmsg*. This made life so much easier."

Courtesy of the ARRL Newsletter

Restraint Urged in Response to 2-Meter Reallocation Proposal

Representatives of International Amateur Radio Union (IARU) member-societies in Europe are advising restraint in the wake of a proposal to consider the allocation of 146 – 148 MHz to the Aeronautical Mobile Service (AMS) at World Radiocommunication Conference 2023 (WRC-23). France recently raised the prospect during a European Conference of Postal and Telecommunications Administrations ([CEPT](#)) meeting in Prague, held in advance of WRC-19. A WRC-19 agenda item would call for studying a range of frequencies for AMS applications, including 144 – 146 MHz, and a decision could be made at WRC-23.

The French draft resolution seeks studies of possible new AMS primary allocations in several bands in the range from 144 MHz to 22.2 GHz on a primary basis, "while ensuring the protection of existing services in those bands and, as appropriate, adjacent bands, and not constraining future development of these services."

The Radio Society of Great Britain (RSGB) released a [statement](#) this week, in part pointing that as proposed, the French resolution "is not an eviction or re-allocation of amateurs, but nonetheless is unwelcome and presents significant challenges. Unlike some other bands where amateurs do share, aeronautical applications are amongst the most difficult due to the altitudes and long free-space distances involved."

Any consideration to allocate additional services in a band that's already allocated on a primary basis to an incumbent service — Amateur Radio, in this case — must begin with a sharing/compatibility study. The IARU has expressed "grave concern" to any proposal that would include 144 – 146 MHz in a WRC agenda item and has pledged to make every effort to fully protect Amateur Radio interests and seek the support of regulators.

At the Prague meeting, only Germany opposed the proposal, which has been carried forward to the higher-level CEPT Conference Preparatory Group (CPG) meeting in August. Support from at least 10 CEPT administrations and fewer than six in opposition would move the issue forward as a CEPT resolution, making it highly likely that it would appear on the agendas of WRC-19 and WRC-23.

In a post to the Moon-Net news group, Deutscher (German) Amateur Radio Club (DARC) Frequency Manager Bernd Mischlewski, DF2ZC, stressed the importance that Amateur Radio speak with a single voice and asked the Amateur Radio community to refrain from contacting individual administrations or the EU.

"This would weaken our position and take away power and vigor from the systematic approach by IARU and country Amateur Radio societies," Mischlewski said. "This particularly applies [to] online petitions." One frantic petition that's collecting both signatures and donations calls on hams to "Stop the 2 Meter Band (144 – 146 MHz) being taken away from Radio Amateurs," which is not what the draft French resolution would do. Mischlewski speculated that the primary reason for the scant opposition at Prague was the revised French proposal's last-minute arrival. "Consequently, most other European countries had no time for internal discussions, let alone formulating their position," Mischlewski said.

With the support of regulatory experts among its member-societies, IARU "is intensively working on executing their influence within the current process and trying to keep the 2-meter band as it is now," Mischlewski said. He pointed out that funding for these activities comes from IARU member-societies. "So, those who left their country's Amateur Radio society should perhaps reconsider their decision," he added. "Without the commitment and the funds, the Amateur Radio community would have little influence in that process, let alone could be present at the relevant meetings."

RSGB VHF Manager John Regnault, G4SWX, in a related Moon-Net post, said the flood of "fake news" on the issue propagated via social media and online petitions does not help Amateur Radio's position.

"All IARU member societies have been briefed on a common position and messages for Amateur Radio," Regnault said. "This message is not helped by the many wrong messages abounding on social media. IARU represents Amateur Radio in the various CEPT forums and ITU, and [it] will fight to maintain the best position it can for Amateur Radio. Progress will be slow, but I am hopeful that, in the end we will get a good result."

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 2019

July - Radio Astronomy, Robert Welsh, N3RW

August-Yaesu System Fusion-Mark Hinkel, WA3QVU & Bruce Farrington, WA3ZPC

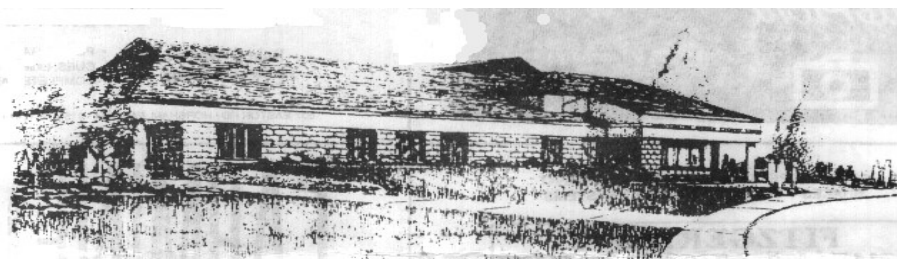
September-Amelia Earhart Story- Bill Strunk, K3ZMA

October-Home Brew Night

November – ARRL Night

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.

2019 Contest Calendar

July

13-14 [IARU HF World Championship](#)

1200 UTC Saturday and ending 1159 UTC Sunday

August

3-4 [222 MHz and Up Distance Contest](#)

1800 UTC Saturday and ending at 1759 UTC Sunday

18 [Rookie Roundup – RTTY](#)

1800 to 2359 UTC

17-18 [10 GHz & Up – Round 1](#)

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

September

14-16 [September VHF](#)

1800 UTC Saturday and ends 0259 UTC Monday

21-22 [10 GHz & Up - Round 2](#)

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

16-17 [EME - 50 to 1296 MHz](#)

0000 UTC on Saturday through 2359 UTC Sunday

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 2019 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 ➤ 2019

July 6 - [Firecracker Hamfest](#)

Shumaker Public Safety Center 3599 Industrial Road Harrisburg, PA 17101
<http://www.w3uu.org>

July 13 - [Valley Forge Hamfest](#)

Kimberton Fire Company Fairgrounds 762 Pike Springs Road
Phoenixville, PA 19460
<http://marc-radio.org/>

July 27 - [CVARC HAMFEST](#)

CVAEMA Showgrounds
1501 Criders Church Road
Chambersburg, PA 17201
<http://www.w3ach.org/>

August 3 - [Reading Radio Club's Hamfest](#)

Heritage Park, Sinking Spring, PA 19608
992 Clematis Street (GPS) - Park Entrance
Sinking Spring, PA
<http://readingradioclub.org>

SKYWARN INFORMATION**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:

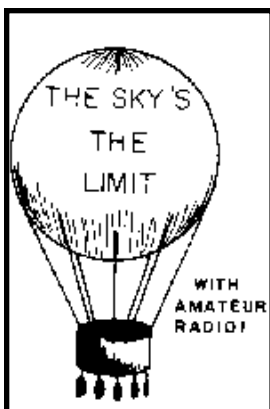
<https://www.weather.gov/phi/Info>

SKYWARN Basic Weather Spotter Educational Programs URL:

<https://www.weather.gov/phi/classes>

➤ 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, Jacek Ostrowski KC3HXF



*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.

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

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	2000	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.

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 ?**

2019 Officers

Executive Officers

President	George Acker	KC3ESH	215-815-7783
Vice-President	Marty Squicciarini	NR3Z	
Secretary	Norm Miles	AB3ZZ	
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	Tony Cuttone	W3FLH	267-679-9297

Committee Chairpersons

ARES/RACES Liason	Karl Harris	K3KH	215-264-1855
ARRL Liason	Irwin Darack	KD3TB	215-343-8170
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 19	Doc Whitticar	W3GAD	215-968-6397
Hamfest 19	Michael Shanblatt	W3MAS	267-491-5773
Hamfest 19	Tony Cuttone	W3FLH	267-679-9297
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Norm Miles	AB3ZZ	
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	George Brechmann	N3HBT	215-443-5656
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