



# FEEDBACK



Web Site [k3dn.org](http://k3dn.org)

Warminster Amateur Radio Club

November 2024

**Next Meeting November 7th - Matt Vanderhoff (N3VAN) Reliance Antenna**

## President's Message

Presentation for November is Matt Vanderhoff (N3VAN) from Reliance Antenna - presentation on EFHW antennas; going over the history and basics of them.

The Club Auction will be here before we know it (Feb 2025), we are looking for volunteers to start planning.

If you are interested in participating in the Member Spotlight giving a short 15-minute talk or Feedback article on how you got into the hobby, your likes, what they do when they are not on the radio, etc. Please let us know.

Thanks Dave  
K3FTD

## \$500 DX Engineering Gift Card

Tickets will be available at the November 7th general membership meeting or members wishing to purchase tickets can contact me through email or WARCtalk and I will hold them for them. Payments can be sent to the club post office box. WARC P.O. Box 113, Warminster PA 18974. Tickets are \$20.00 per.

## Warminster ARC General Meeting Minutes October 3, 2024

Call to order: 7:30 PM

Introductions: 38 in attendance

Minutes from last Meeting: Motion to approve and accepted

Committee Reports:

- Treasurer's Report: Tom (K3PLA)
- Programs: Rich (KC3WNX)
- October - Joe Taylor WJST Explained (video)
- November – Matt Vanderhoff (N3VAN) Reliance Antenna
- Membership: Tony W3FLH – (in absentia) 129 Total members; 111 paid, 101 regular, 3 student, 7 alumni/associate, 18 owe dues
- VE Testing – Larry (WA3ELQ)
- September 30<sup>th</sup> – 1 Tech, 2 General
- Public Service: George (N3HBT)
- Done for the year
- 10/13 – Covered Bridge Ride. Contact Dean at [KC3JXT@ARRL.NET](mailto:KC3JXT@ARRL.NET)
- License Classes: Dave (K3FTD)/Dan (K3GMQ)/Tony (N3YNH):
- Planning General Class in Oct, followed by a Technician Class.
- Repeater: Brian (N3EXA)  
Up and running; Echo link is down.

*(Continued from page 1)*

Still working on a location in Lower Bucks County.

- Radio Sport: Irwin (KD3TB)
- PA QSO Party October 12 - 13
- Contest season is Sept – Oct. Check out [ContestCalendar.com](https://ContestCalendar.com)
- Hamfest: Tony (W3FLH) – Looking for future Chair
- Next year's date is 5/4/2025. Tony will secure the date with BCCC. Also confirm ARRL Section meeting.
- Field day: Herb (KB3VMN) – Request put in to use Warminster Community Park for 2025. Waiting to hear back from the Township.
- Club Station Status: George (N3HBT)  
Station is not usable due to ceiling issue.

Old Business:

- Clean up on hold until the Township fixes the ceiling.
- ARRL Grant – Herb (KB3VMN) is on hold for now.
- Holiday Dinner – Kathy (KC3FBY) put out a survey to assess interest in catered dinner at the BWSC vs a restaurant (e.g. Giuseppe's). Waiting responses. Also, volunteers will be needed with planning and pre- and post- event.
- Club Auction – Need volunteers to begin planning and preparation for February auction.
- - Ham Of the Year – Please send any nominations to [WARMrcinfo@gmail.com](mailto:WARMrcinfo@gmail.com)
  - Fund raising- Herb (KB3VMN) has tickets for a \$500 DX Engineering Gift Card. Price is \$20 per ticket; only 50 tickets will be sold.
- Volunteers are needed to help clean-up the upstairs and inventory equipment. Anyone able to help should let Herb (KB3VMN) know.
  - Member Spotlight – Announcement placed in Feedback along with an article describing the purpose. Anyone interested should let any Board member know.

New Business:

Photo ID Badges – Let Kathy (KC3FBY) know if you need a badge.

Meeting Adjourned 7:50 PM

Presentation – Joe Taylor, WJST Explained (Video)

## **The K7RA Solar Update**

Solar activity increased this week. Average daily sunspot number went from 127.7 to 197.4 and average solar flux from 170.5 to 240.2.

Predicted solar flux is 270 on November 1-2, 265 and 260 on November 3-4, 250 on November 5-7, 214, 195 and 182 on November 8-10, 172,168, 174 and 165 on November 11-14, and 162 on November 15-16.

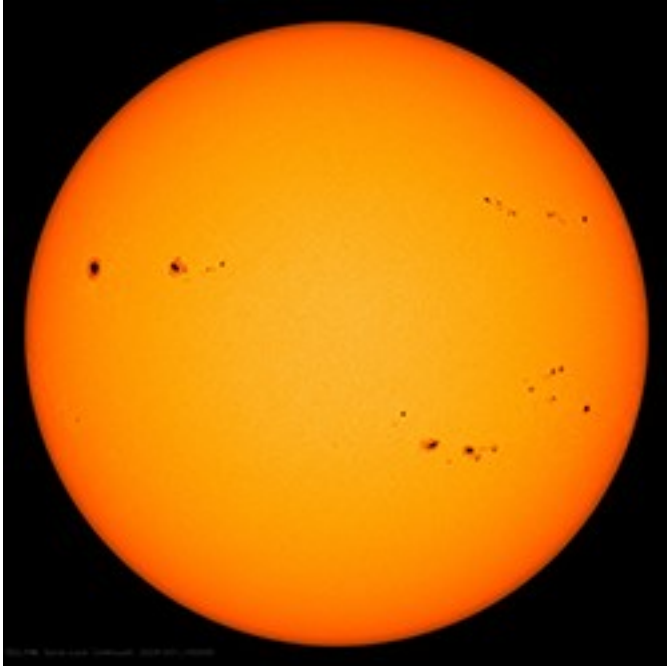
Predicted planetary A index is 5, 8, 15, and 10 on November 1-4, 5 on November 5-15, then 5, 8, 5, 12, and 8 on November 16-20, and 5 on November 21 through December 5

Weekly Commentary on the Sun, the Magnetosphere, and the Earth's Ionosphere - October 31, 2024 from OK1HH:

"We know only approximately what the Earth's ionosphere looked like between March 1755 and June 1766 thanks to observations of the Sun in Solar Cycle 1. But we do know what it looked like in Solar Cycle 19, which ran from April 1954 to October 1964.

*(Continued on page 3)*

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Although I was a novice radio amateur at the time, I can testify that the shortwave propagation conditions at the peak of Solar Cycle 19 (1958) were wonderful!

"As of December 2019, Solar Cycle 25 is in operation. It was supposed to be low, fortunately it is not. Its maximum is now underway, perhaps a second will follow next year. It is fabulous, judging by the above and the many interesting effects, including, for example, auroras. But unfortunately, not if we judge them by the current conditions of ionospheric shortwave propagation. An explanation of why this is now the case will surely be forthcoming - but perhaps Solar Cycle 26 will be underway.

"A week ago, as expected, large active regions and corresponding groups of spots appeared at the southeastern limb of the solar disk. We are now seeing them near the central meridian. This has increased the likelihood of Earth being hit by particles that will eject subsequent flares. It seems that not only these, but also disturbances in the geomagnetic field and then fluctuations in the ionospheric propagation field can be counted on with certainty in the coming days. Given that we have already seen simultaneously observed active regions on the Sun during the last solar rotation,

presumably a 27-day recurrence will be a good aid to prediction."

How NASA tracks the Solar Cycles:

<https://www.dailymotion.com/video/x98c2di>

The latest from the Solar-Terrestrial Centre of Excellence Newsletter:

<https://www.stce.be/newsletter/newsletter.php>

Send your tips, reports, observations, questions and comments to [k7ra@arrl.net](mailto:k7ra@arrl.net). When reporting observations, don't forget to tell us which mode you were operating.

For more information concerning shortwave radio propagation, see <http://www.arrl.org/propagation> and the ARRL Technical Information Service web page at, <http://arrl.org/propagation-of-rf-signals>. For an explanation of numbers used in this bulletin, see <http://arrl.org/the-sun-the-earth-the-ionosphere> .

An archive of past propagation bulletins is at <http://arrl.org/w1aw-bulletins-archive-propagation> . More good information and tutorials on propagation are at <http://k9la.us/> .

Also, check this article:

<https://bit.ly/3Re8Njt>

"*Understanding Solar Indices*" from September 2002 *QST*.

Instructions for starting or ending email subscriptions to ARRL bulletins are at <http://arrl.org/bulletins> .

Sunspot numbers for October 24 through 30 2024 were 138, 157, 181, 198, 288, 220, and 200, with a mean of 197.4. 10.7 cm flux was 196.6, 209.3, 238.4, 246.2, 255.5, 265.6, and 269.8, with a mean of 240.2. Estimated planetary A indices were 13, 3, 14, 10, 17, 12, and 15, with a mean of 12. Middle latitude A Index was 10, 2, 11, 8, 11, 10, and 10, with a mean of 8.9.

(Continued on page 4)

## AIR FORCE MARS 76th Anniversary Special Event: November 5-11

The Air Force Military Auxiliary Radio System (AFMARS) celebrates its service to United States military and civilian government organizations during November 2024. This will be the “Air Force MARS 76 Years” special event and will include communications on amateur HF bands (80-6 meters) in the General class license portion of the band and in the Technician license portion of 10 meters using SSB, CW and digital modes. Event details shortcut: <https://tinyurl.com/AFMARS-76th>.

### Air Force MARS 76 Years Special Event Amateur Operator Instructions

#### General Instructions:

- Timeframe: 5 Nov 2024 0400 Zulu to 11 Nov 2024 at 2359 Zulu
- Frequencies: Only Amateur Radio frequencies in the General and Technician band privileges may be used in the 80 – 6 meters. Use of 60 meters is not authorized. Multiple Wings may operate in the same band up or down of event frequencies and bands.
- Modes: Voice, CW and Digital Modes (commonly used such as FT8) will be used. Make sure to listen for the special event call sign listed in the chart below.
- Spotting: Please spot your contact’s and use available spotting software to see where operators are. Suggested Spotting site: [www.dxsubmit.fi](http://www.dxsubmit.fi) DX-Spot Notification app: [DX Alerts App](#)
- Certificate: After November 30th the Amateurs will need to request a certificate here: <http://cert.elemcoshopfloor.com>

#### Example Voice Exchange:

- AFMARS Station: CQ CQ THIS IS W1B AIR FORCE MARS 76<sup>th</sup> SPECIAL EVENT SECOND WING CQ CQ
- Amateur Station: W1AW
- AFMARS Station: W1AW THIS IS W1B YOU ARE “5 by 9” OVER
- Amateur Station: THIS IS W1AW YOU ARE “5 by 9” OVER
- AFMARS Station: QSL INFO ON QRZ THANKS FOR THE CONTACT OUT

#### Digital Exchange:

- CW and Digital mode exchange format will contain the pertinent information.

#### Event Call Signs:

AFMARS Organization	FEMA Region	Call Sign
1 <sup>st</sup> AFMARS Communications Wing	Region 1 MA, NH, VT, CT, MI, RI	W1A
2 <sup>nd</sup> AFMARS Communications Wing	Region 2 NJ, NY	W1B
3 <sup>rd</sup> AFMARS Communications Wing	Region 3 DE, MD, DC, PA, VA, WV	W1C
4 <sup>th</sup> AFMARS Communications Wing	Region 4 AL, FL, GA, KY, MS, NC, SC, TN, PR-VI	W1D
5 <sup>th</sup> AFMARS Communications Wing	Region 5 IL, IN, MI, MN, OH, WI	W1E
6 <sup>th</sup> AFMARS Communications Wing	Region 6 AR, LA, NM, OK, TX	W1F
7 <sup>th</sup> AFMARS Communications Wing	Region 7 IA, KS, MO, NE	W1G
8 <sup>th</sup> AFMARS Communications Wing	Region 8 CO, MT, ND, SD, WY, UT	W1H
9 <sup>th</sup> AFMARS Communications Wing	Region 9 AZ, CA, NV, HI	W1I
10 <sup>th</sup> AFMARS Communications Wing	Region 10 AK, OR, WA, ID	W1J
Hancock Field Air National Guard	Region 2 NY	W1L
Schriever Space Force Base	Region 8 CO	W1K
Pentagon MARS Station	Region 3 DC	K4AF
Travis AFB AFMARS Station	Region 9 CA	KE6UEU

## Ham Radio Serving Southeast US Recovery Efforts

Amateur radio is proving critical in areas hit hard by Hurricane Helene, especially in North and South Carolina, portions of Tennessee, and beyond. In the hardest-hit Asheville, North Carolina, area, homes and entire towns have been swept away by flood waters and mudslides. Over 200 people have been killed, and many more are still missing.

Widespread devastation has damaged the power grid and roads, and many residents are without cell phone service and other utilities. For several days, radio communications were the only means of passing information. Ham radio continues to play a significant role in this situation.



Flood waters in North Carolina. [Photo: 1SG Leticia Samuels, NCNG)



A roadway in North Carolina. [Photo: U.S. Customs and Border Protection Special Response Team]

In North Carolina, all official emergency radio communications are done through NC AUXCOMM. NC Division of Emergency Management Senior External Affairs Specialist Brian Haines says hams are deployed. “Amateur radio operators are working side by side with first responder communications personnel all over Western North Carolina. Needless to say, we are interested in highlighting all they are doing but at this point they are heavily involved in response efforts, which is where we need to focus,” he said.

Winlink, which provides email over amateur radio, has been used significantly in the recovery. ARRL Director of Emergency Management Josh Johnston, KE5MHV, says the recent FCC removal of symbol rate restrictions has allowed a streamlined response using modern technology. “Winlink is an example of how modern tools work well within the Amateur Radio Service. Not having to petition the FCC for a waiver of the old rules allowed Winlink to be used immediately during this emergency,” he said. ARRL had advocated for the change, which was implemented in 2023.



A visualization of Winlink traffic. The amount of activity is unusually high, due to the emergency.

Significant stories of the response from individual hams is emerging, particularly from those who have created pop-up nets to pass health and welfare traffic. Using mountaintop repeaters that have robust power backups, HF frequencies, and Winlink, ham radio operators are putting in their time, talents, and personal gear to good use.

The local news media in affected areas has connected with several radio amateurs to highlight their work. CBS 17 in Raleigh reported on Van Lee, KM4TC, who helped families trying to get information on loved ones. In Charlotte, Queen City News told the story of Dan Gitro, K2DMG, who has been providing information to hams about current conditions as well as passing along messages to loved ones.

Countless other hams have stepped up by passing traffic and providing information. ARRL seeks to tell those stories of selfless service as the operators find time.

### Elmer's Corner

Welcome to Elmer's Corner. This will be a section where hams can request help with ham related issues. Our goal is to match someone with experience with the issue you are having in order to resolve your problem. This is intended to cover all aspects of ham radio:

Equipment      Software      Antennas      Operations

Send the editor an email detailing the issue: [wa4ywm@comcast.net](mailto:wa4ywm@comcast.net).

Amateur radio has been serving communities even before the storm hit. The Hurricane Watch Net, VoIP Hurricane Net, and WX4NHC, the amateur radio station at the National Hurricane Center, were all active as the storm churned towards Florida. In the 25 hours that the net was active, hams passed along over 100 surface reports that were used by forecasters to make more informed decisions about the storm.

Hurricane Helene made landfall near Perry, Florida, on the evening of Thursday, September 26, as a Category 4 storm. With winds of 140 miles per hour, it was the strongest hurricane on record to slam into Florida's Big Bend.

In Florida, Amateur Radio Emergency Service® (ARES®) volunteers were embedded with county officials and at the State Emergency Operations Center.



**Batteries being delivered for the repeater**

As the storm moved north, the worst impacts were felt. Officials have classified the rainfall near Asheville as a 1,000-year event. The impact started to emerge over the weekend of September 28—29.

ARRL leadership was in touch with field organization volunteers in the impacted area throughout the weekend. On Monday, a call was held to see what resources may be needed. A clear challenge of logistics emerged. Entire road networks are unpassable. General aviation pilots have been working, as they do during major disasters, to use donated aircraft to ferry in relief supplies. Ham radio operators have been working with Operation Airdrop and other volunteer groups to help provide communications support. Dozens of private helicopters have been flying in

supplies, as have military assets.

In Tennessee, hams have rallied to return repeaters impacted by the storm to service. Section Manager of the ARRL Tennessee Section David Thomas, KM4NYI, reports that a request for help on the TN ARES net resulted in batteries being donated and delivered to return the W4KEV repeater system to service, including the 145.410 machine located on Viking Mountain in Greene County, Tennessee, which covers much of the area in North Carolina and Tennessee that was decimated.

As connectivity via phone and data networks continues to return, ARRL expects more stories of amateur radio serving communities will emerge. Stories and local media coverage can be shared with ARRL via [newsmedia@arrl.org](mailto:newsmedia@arrl.org).

While commercial communications networks and utilities are increasingly more resilient, Hurricane Helene has demonstrated that amateur radio is a critical partner that works When All Else Fails®.

*Courtesy ARRL Newsletter*

## 2024 Contest Calendar

### November

#### 16-18 [Nov Sweepstakes-Phone](#)

2100 UTC Saturday and runs through 0259 UTC Monday

**10 North American SSB Sprint Contest** 0000Z-0400Z

**23-24 CQ Worldwide DX Contest, CW** 0000Z, Nov 23 to 2400Z, Nov 24

### December

#### 6-8 [160 Meter](#)

2200 UTC Friday, ends 1559 UTC Sunday

#### 14-15 [10 Meter](#)

0000 UTC Saturday; runs through 2359 UTC Sunday

#### 22 [Rookie Roundup-CW](#)

1800 to 2359 UTC

## 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 2024 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, 1st Wednesday at 6:30. Levittown Library - 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](mailto:wa3ylq@arrl.net).

**Philadelphia, PA,** Testing is done on the 3rd, non holiday Monday of the month at the Giant Supermarket, 315 York Rd., Willow Grove, 19090 at 6:30 PM in the Community Room. For further information contact James McCloskey at [jmccloskey@msn.com](mailto: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](mailto:w3pa@arrl.net)  
Alt Contact: Jim, 610-287-5630

# ➤ ATLANTIC DIV. HAM- FESTS

## ➤ 2024



## 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 \$12.50 annually and are approved by the Board. Please contact the Membership Committee for more information if interested."

### ATTENTION MEMBERS

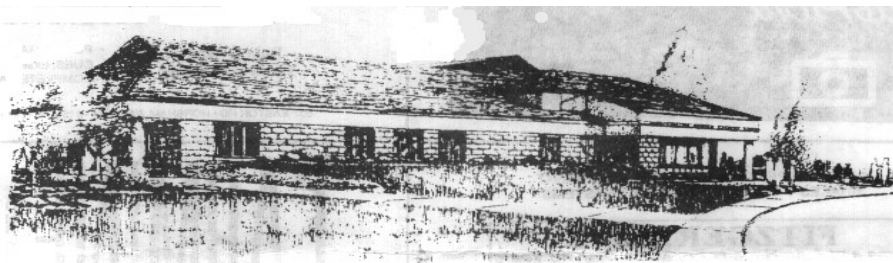
The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even 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](mailto:membership@k3dn.org).

If you want to have your picture taken to be placed on the 'Members' Photos' section of the [www.k3dn.org](http://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 2024

**November - Matt Vanderhoff (N3VAN) Reliance Antenna**  
**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.

**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, Dave McGowan KC3RAT

**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 Buegers
- 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

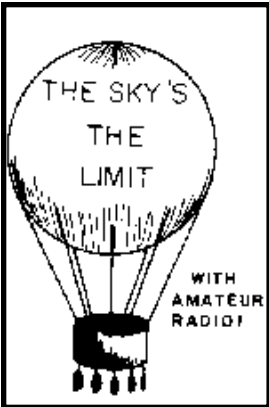
**D-STAR**

- 146.61000 K3PDR DV
- 445.18125 K3PDR DV
- 445.01875 AA3E Montco RACES

**6 Mtr**

- 53.030 WA3BXW
- 53.230 N3DQZ
- 53.320 K3MFI

*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, 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.

New Classes (Tech and General) to start Sept 13 from 7 pm to 9 pm.

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

**Bucks County Amateur Radio Emergency Service (BCARES)**

[www.bucksares.org](http://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](mailto: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:

[WARMrinfo@gmail.com](mailto:WARMrinfo@gmail.com)

### Visit our Home Page at:

<http://www.k3dn.org>

### The annual dues rate structure is as follows:

**Full Member:     \$25.00**  
**Student:           \$ 7.50**  
**Alumni:             \$12.50**

- Are your dues current ?

## 2024 Officers

### Executive Officers

President	Dave McGowan	K3FTD	215-850-5846
Vice-President	Rich Parker	KC3WNX	215-913-1860
Secretary	Tony Simek	N3YNH	215-796-0336
Treasurer	Tom Newman	K3PLA	215-630-5965
Director (A)	Doug Becker	KC3MNQ	215-932-1370
Director (E)	Herb Hickmott	KB3VMN	
Director (A)	Bruce Farrington	WA3ZPC	215-262-4215
Director (E)	George Brechmann	N3HBT	215-443-5656
Past President	Ray Oechslin	KA3TRU	267-269-3198

### 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	Dave McGowan	KC3RAT	215-850-5846
	Dan Clementi	K3GMQ	267-337-0392
Digital and APRS	Ron Wenig	NY3J	215-638-9257
Feedback Editor	Jim Elmore	WA4YWM	215-538-1889
Field Day 24	Herb Hickmott	KB3VMN	267-718-3601
Hamfest 24	Tony Cuttone	W3FLH	267-679-9297
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Tony Cuttone	W3FLH	267-679-9297
Net Manager	George Brechmann	N3HBT	215-443-5656
PA QSO Party	Mark Kempisty	AA3K	
Publicity	Herb Hickmott	KB3VMN	267-718-3601
Refreshments	Arlene Newman	KA3PLA	215-345-4539
RF Interference	Bill Ballantine	K3FMQ	215-766-0764
Repeater Coordinator	Brian Taylor	N3EXA	215-257-6303
Safety Officer	Mike Malone	W3MJM	215-639-2175
Station Trustee	George Brechmann	N3HBT	215-443-5656
Good and Welfare	Regina Litman	KC3LRF	
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	Kathy Acker	KC3FBY	215-815-7978
Youth Programs			