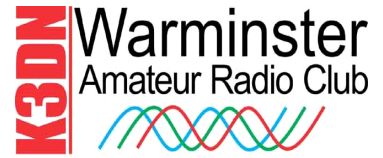




FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

February 2024

Next Meeting February 1st - Club Auction

President's Message

Hello Everyone,

I hope everyone is well. Now the holidays are over and we are experiencing some crazy weather, we can look forward to the spring in a few short months. For the contesters among us the season is well underway. I hope all that compete, the best of luck. There are some DXexpeditions going on as well. Your club is in the process of planning a day trip to ARRL Headquarters. If you are interested please let Tony W3FLH know. The exact date has not been confirmed as of yet. We will be having our auction on 2/1/24 at the general meeting. We are now in the process of planning for our Hamfest. We will be the EPA convention again this year. Always can use some help with this endeavor so please help if you can. It's also time to start making preparations for Field Day also. It will be here sooner than you think. We can always use operators and assistance with set up and break down. If you would like to help, please let Herb KB3VMN know what you would like to do.

In closing I hope everyone stays healthy and enjoys the bands.

Good DX

Ray – KA3TRU

Warminster ARC General Meeting Minutes January 4, 2024

Call to Order: 7:30 pm by Ray (KA3TRU)

Introductions and Attendance: 35

Minutes from last Meeting: The December meeting was the Holiday Dinner; no business was conducted.

Committee Reports:

Treasurer's Report: Tom (K3PLA) As given. Copies were available for members to review. The Holiday Dinner included 43 in attendance. Club netted \$103 after expenses.

Programs: Dave (KC3RAT)
January – Roundtable discussion
February – Club Auction

Membership: Tony (W3FLH) 113 Members on roll, 73 paid; 66 Regular, 0 Students, 7 Alumni/Assoc – rest unpaid. Club will be surveyed to determine how many members are also ARRL members.

Public Service: George (N3HBT)
May – Warminster Memorial Day Parade
June – Golf Outing
October – Golf Outing Part 2

Classes: Dave (K3RAT) - Done for now. An Extra class is being considered, however the question pool for extra will change later this year so for now this is on hold.

VEC Testing: December 18. Two new technician licensees passed. Next session Monday January 29th at the Ben Wilson Sr Center at 7 PM.

(Continued from page 1)

Repeater: Brian (N3EXA) - Three inputs are working. The Bristol input is still down due to roofing work. We are looking for an alternate location in Bristol if anyone has any suggestions or knows anyone we could approach.

Good and Welfare: Nothing to report at this time.

Radio sport: RTTY Roundup this coming weekend. QSO Partys. Also January is CW Straight Key month. January 2nd to the 28th is Winter Field Day

Hamfest: Tony (W3FLH) – The Club has obtained the Bucks County Community College campus in Bristol for the 2024 Hamfest. Also, the Warminster Hamfest will be the site for the ARRL Section Convention again this year. Date of the event is Sunday May 5th, 2024.

Refreshments: Arlene (KA3PLA) reported that coffee this evening came from Yum Yum and asked for feedback. Those present expressed satisfaction with the choice.

Old Business:

Club Station: Everything working with no problems. Space is still an issue that should resolve with the Club Auction.

Constitution Changes: The Constitution and Bylaws have been amended per previous club vote. A revised copy will be available on-line shortly.

New Business:

ARRL: The Warminster Amateur Radio Club has been recognized by the ARRL as a Special Service Club. This designation is based on criteria set by the ARRL, which WARC has met.

WarcTalk: The Board will be working on a Code of Conduct in light of one person's recent political postings. In this case the person making the posts was not a paid member and recent action to remove non-dues paying persons from WarcTalk resolved the issue. However, this incident raised concerns that the Club should publish rules regarding what is and what is not acceptable on the forum. Anyone with any thoughts or suggestions should discuss them with any one of the Board members.

Business Meeting Adjourned: 8:00 pm

The following are notes of the Town Hall held this evening:

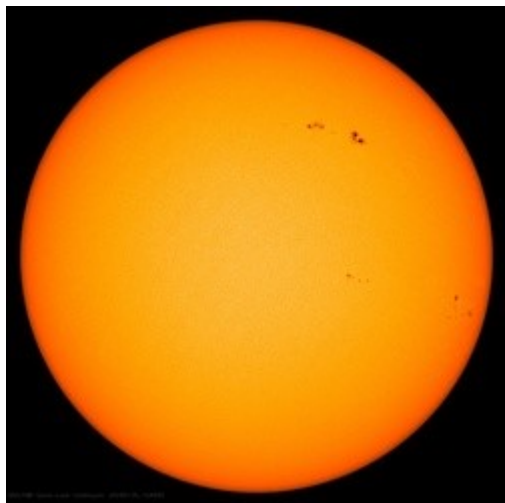
1. Consider using Zoom for members who are unable to attend meetings in person.
2. Designate a local park for WARC to use in POTA (Parks on the Air) activations. Tyler State Park was suggested. Tony (W3FLH) to put on the POTA website.
3. WinterHeat contest through January 31st, 2024.
4. The Philadelphia area needs a Fusion room. It was suggested that WARC could establish and maintain one.
5. More help is needed with Field Day 2024. Steve (WW3Y) offered to help.
6. Trips to ARRL and the Battleship New Jersey. Irwin (KD3TD) is already working on organizing the ARRL trip.
7. Kit building – possible Zoom format??
8. Do a Lighthouse event.
9. Prepare and maintain a list of members and their contact information.
10. Website is not clear about requirements or directions. Also, there are date conflicts with ARRL published information about WARC.
11. Set up club station for remote access.
12. Free one year membership to any new ham who passes their ARRL license exam at a WARC test session.
13. Topic for future meeting – SSTV and/or Satellite radio.
14. Topic for future meeting – Antenna theory / antenna building
15. Summer picnic – possibly the Saturday of Field Day. Dan would help with that.
16. When announcing public service events, include list of equipment needed.

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The K7RA Solar Update

Tad Cook, K7RA, of Seattle, Washington, reports for this week's ARRL Propagation Bulletin, ARLP004:



Four new sunspot groups emerged this reporting week (January 18 - 24). One appeared on each day on January 18 - 21. But, it looks like we may see flares, coronal mass ejections (CMEs) and geomagnetic storms over the next few days. Spaceweather.com identified sunspot group AR3561 as "hyperactive."

Sunspot numbers and solar flux declined, and geomagnetic indicators slightly rose.

The average daily sunspot number dropped from 167.3 to 130.6, and the average solar flux dropped from 184.1 to 173.3.

The average planetary A index rose from 5 to 7.4, and the middle latitude numbers rose from 3.9 to 5.1.

Looking ahead, we may see a short-term peak in solar flux around February 11, and another may occur about six weeks from now.

This solar disk image was taken on January 25, Predicted solar flux is 175 on January 25 - 26; 170 on January 27; 160 on January 28 - 31; 170 on February 1 - 2; 175 on February 3 - 4; 180 on February 5 - 8; 190, 190, and 195 on February 9 - 11; 190 and 185 on February 12 - 13; 180 on February 14 - 15, and 175, 170, 175, 175, 170, 175, and 170 on February 16 - 22.

Predicted planetary A index is 20, 25, 30, 18, and 10 on January 25 - 29; 8, 5, and 10 on January 30 through February 1; 5 on February 2 - 16, and 8 on February 17 - 18.

Glenn Packard, K4ZOT, reported from Atlanta, Georgia, on January 22, that he worked New Zealand on 6-meter FT8 at 0257 UTC. He said, "I just happened to tune to 6 meters tonight after being disappointed on 6 meters throughout the winter season. Then ZL4TT came through at R-19. I called him once, and he came right back to me. The band went dead after the contact."

Is Solar Cycle 25 nearing a peak? Read a report about it at <https://bit.ly/3Sv70GF>. Also, read about some recent solar activity at <https://bit.ly/4b6n48Z>.

You can watch Dr. Tamitha Skov's, WX6SWW, January 22 report at <https://youtu.be/41LGqYbxsyk>. Her YouTube channel has reached about 84,500 subscribers.

Sunspot numbers for January 18 through 24, 2024, were 113, 137, 144, 150, 139, 123, and 108, with a mean of 130.6. The 10.7-centimeter flux was 162.3, 157.4, 166.3, 178.5, 196.1, 180.3, and 172, with a mean of 173.3. Estimated planetary A indices were 6, 8, 6, 6, 9, 7, and 10, with a mean of 7.4. The middle latitude A index was 4, 5, 4, 5, 6, 5, and 7, with a mean of 5.1.

Send your tips, questions, or comments to k7ra@arrl.net.

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](#) the Propagation Page of Carl Luetzelschwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

[Share](#) your reports and observations.

A weekly, full report is posted on [ARRL News](#).

Courtesy ARRL Newsletter

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Dr. Philip Erickson, W1PJE, New Director of MIT Haystack Observatory



Dr. Philip Erickson, W1PJE, is the new director of the Massachusetts Institute of Technology (MIT) Haystack Observatory. [Joy LeDuc, photo]

ARRL Member and active radio amateur Dr. Philip Erickson, W1PJE, is the new director of the Massachusetts Institute of Technology (MIT) Haystack Observatory.

The prestigious scientific appointment is the continuation of a radio interest that began in his youth. "I started as a shortwave listener in the mid-1970's as a middle school student. So, in some sense, I was always fooling with antennas in the back yard and trying to understand why signals got to me at different times -- why were they different in the day and at night? What was the farthest place I could hear, or the closest place?"

That early interest led him to an electrical engineering degree and ultimately, a doctorate in space plasma physics from Cornell University that he earned in 1998. Erickson was first licensed as a ham only about 10 years ago, but he says the professional hardware he worked with daily scratched the itch until he could gain amateur privileges. Erickson enjoys homebrewing gear, learning from the foundations of vintage equipment, and using amateur radio in the scientific space. "An intense interest to me that crosses the boundary of what I do professionally and what I do as a radio amateur is what's happening with the HamSCI Collective... Can you use the observations that are already being made in the process of conducting the hobby and extract information from them? It turns out you can -- there's a lot of ionospheric information buried in there," he said.



The mission of the Haystack Observatory is to develop technology for radio science applications, to study the structure of our galaxy and the larger universe, to advance scientific knowledge of our planet and its space environment, and to contribute to the education of future scientists and engineers, [according to MIT](#). The facility is home to research projects that span spectrum from VLF to 388 GHz.

"We are almost a completely radio and radar observatory... We have a geo-space group, which is most-closely associated with ARRL type ideas: the dynamics of the ionosphere and neutral part of the atmosphere, all the way out into near-Earth space. We are an

The MIT Haystack Observatory in Westford, Massachusetts. [Mark Derome, photo]

observational group, so we use a bunch of different tools -- radars, radios, sometimes data from satellites, and mostly data from ground-based observations."

Erickson enjoys explaining to the uninitiated that amateur radio is not only still an active hobby, but that it is an important space for discovery. "You learn a lot about many different aspects of technical and science work [in ham radio]," he said.

While his day job keeps him on the edge of radio technology, Erickson is glad to see amateur radio is keeping pace. He says the coding of WSJT-X digital weak-signal modes such as FT8 and WSPR created by Dr. Joe Taylor, K1JT, are more advanced than most hams realize.

(Continued on page 5)

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"If you were to go to an electrical engineering class, that's what you would see as the edge of how to pack information into a very small bandwidth. I enjoy pointing that out to people and getting them to understand that this other modulation mode is just one of the other palettes that are available."

Courtesy ARRL Newsletter

HamSCI 2024 Workshop

Ham Radio Science Citizen Investigation ([HamSCI](#)) will hold its sixth annual workshop on March 22 - 23, 2024, at Case Western Reserve University in Cleveland, Ohio. The event is meant to bring together the amateur radio community and professional scientists.

The 2024 workshop's theme will be "Alignments" - specifically those between the Sun, Moon, and Earth; collegiate amateur radio recreation and science, technology, engineering, and math (STEM) curricula; data collection and analysis, and professional and citizen science. Workshop participants will prepare for the solar eclipse taking place on April 8, 2024, which will be seen in totality from Cleveland.

HamSCI

HamSCI's main interest is using amateur radio for the characterization and study of ionospheric phenomena like traveling ionospheric disturbances, sporadic E, solar flares, geomagnetic storms, the 2024 total solar eclipse, and other space weather events. To facilitate this science, continued development of the [HamSCI Personal Space Weather Station](#) and discussion about integrating amateur radio into the collegiate curriculum will also take place during the workshop.

Registration is now open, and the deadline is March 1, 2024. HamSCI is also accepting presentations relating to amateur radio and science -- particularly space and atmospheric science, space weather, and radio astronomy -- that analyze the ionosphere, propose ideas for the Personal Space Weather Station, and discuss the 2024 eclipse.

Presentations should be the form of talks, posters, lightning talks, and demonstrations. The Science Program Committee will be accepting abstracts and presentations.

If you would like to present, please submit your abstract by February 10, 2024. Presenters will be notified about their acceptance by March 1, 2024. Questions about abstracts should be emailed to Nathaniel Frissell, W2NAF, at hamsci@hamsci.org.

For registration and additional information about the event, visit [HamSCI Workshop 2024 | HamSCI](#).

Courtesy ARRL Newsletter

Club Auction

The club auction is back live for the Feb 1 meeting !

If you want to donate an item to be sold at the auction, please bring it the night of the auction.

Please review the following Guidelines listed below.

- * All items are donated to the club
- * No consignments
- * All unsold items must be taken back by the donor
- * All bidders have to bid live. (No Zoom bidding)
- * No estate sales items, not associated with the auction, to be sold on auction night.
- * No Use of Pay pal. All sales cash or check only, payable before leaving the auction
- * There will be a donation can for the smaller items not to be auctioned off

Mark WA3QVU and Dan K3NXX will be auctioneers
George and Elaine Will be cashiers

(Continued on page 6)

(Continued from page 5)

Radio Help Wanted: Must Like Geysers, Bison, and Helicopter Rides

Occasionally, *The ARRL Letter* shares job postings that may be of interest to radio amateurs, and this one may be the most scenic job yet -- Yellowstone National Park is looking for three radio technicians, according to posts on the park's social media and a [listing on the USAJobs website](#).

The job listing says that the electronics technician (radio) positions are "located in Yellowstone National Park, in the Technology Services Radio Shop within the Administrative Division." There's even a provision for hazard-duty pay for mountaintop repeater helicopter flights and tower climbing.

On Facebook, the park [has some fun with their post](#): "Does your idea of taking your career to new heights involve flying in a helicopter to 10,000 foot peaks? How about hiking, snowmobiling, and even skiing your way to telecom sites? Well... do we have the job for you! We are hiring not one, but 3... yes THREE, Electronic Radio Technicians," it says.

The lucky three who are hired for these positions will have their work cut out for them; the system has eight repeaters, more than 20 base stations, and 500 mobile and 1,000 portable radios -- all in a national park with 500 geysers and 5,900 American bison.



A radio technician works on a tower in scenic terrain in this photo from the job posting. [Photo courtesy of Yellowstone National Park.]

Courtesy ARRL Newsletter

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.

2024 Contest Calendar

February

4 North American Sprint, CW

0000Z-0359Z, Feb 4

10-11 CQ WW RTTY WPX Contest

0000Z, Feb 10 to 2359Z, Feb 11

12-16 [School Club Roundup](#)

17-18 [International DX – CW](#)

0000 UTC Saturday and runs through 2359 UTC Sunday

24-25 North American QSO Party - RTTY

1800Z, Feb 24 to 0559Z, Feb 25

March

2-3 [International DX– Phone](#)

0000 UTC Saturday and runs through 2359 UTC Sunday

QSO Parties

Vermont 0000Z, Feb 3 to 2400Z, Feb 4

Minnesota 1400Z-2400Z, Feb 3

South Carolina 1500Z, Feb 24 to 0159Z, Feb 25

North Carolina 1500Z, Feb 25 to 0100Z, Feb 26

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.

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 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

➤ 2024



March 16 - [Fredfest '24](#)

Independent Hose Company

310 Baughmans Ln.

Frederick, MD 21701

<http://frederickarc.org>

April 20 - [Delmarva Amateur Radio and Electronics Expo, ARRL Delaware State Convention](#)

Cheer Center

20520 Sand Hill Rd.

Georgetown, DE 19947

May 5 - [Warminster ARC - Annual Hamfest](#)

Bucks County Community College-Lower Bucks Campus

1304 Veterans Highway (Route 413)

Bristol, PA 19007

<https://wp.k3dn.org/hamfest/>

CLUB INFO

PUBLIC SERVICE

May – Warminster Memorial Day Parade

June – Golf Outing

October – Golf Outing Part

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

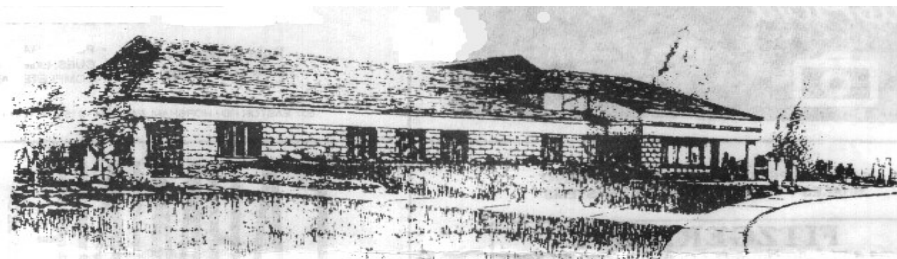
The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even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

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 2024

- February: Auction
 - March: Mesh Networks (Bill Telford - WB3CQK)
 - April: Antenna Simulators (Dan Clementi - K3GMQ)
- May: TBD

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:

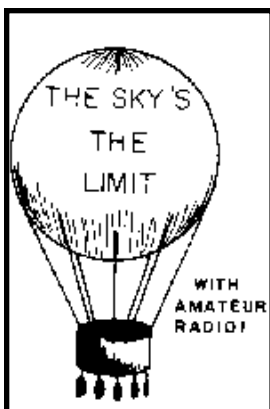
<https://www.weather.gov/phi/Info>

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



*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.

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:

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	Ray Oechslin	KA3TRU 267-269-3198
Vice-President	Dave McGowan	KC3RAT 215-850-5846
Secretary	Tony Simek	N3YNH
Treasurer	Tom Newman	K3PLA 215-630-5965
Director (A)	Doug Becker	KC3MNQ 215-932-1370
Director (E)	Larry Abbott	WA3ELQ 215-704-3282
Director (A)	Bruce Farrington	WA3ZPC 215-262-4215
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	Dave McGowan	KC3RAT 215-850-5846
	Dan Clementi	K3GMQ
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		