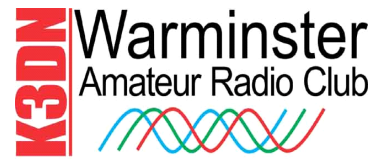




FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

April 2025

Next Meeting April 3rd - Hamfest Prep

President's Message

IMPORTANT NOTICE - Since the the July meeting date is Thursday July 3rd, we will not have a July general meeting due to the July 4th holiday

Our club cannot function or grow without your help and input. Please consider becoming a member of the WARC Board of Directors? Nominations started in March and club elections are in May.

Upcoming presentations: April - Hamfest Preparation; May - 2025-2026 Budget Presentation and Town Hall; June & Beyond- TBD

Upcoming Events:

- Next VE session will be Monday March 31st, 7:00 PM.
 - We need helpers for the the following public service events, please contact George N3HBT
 - o Memorial Day Parade, Monday May 26th
 - o Golf Outing on Thursday June 5th
- WARC Hamfest is 5/4/2025, we need volunteers

Saturday, May 3

Tables - Unload and set up of the tables upon delivery, and chairs from the college (3:00pm at the Bucks County Community College-Lower Bucks campus in Bristol, PA) . This usually takes about two hours or so, and involves a little lifting and walking, but not too taxing.

Club Gear - Load in and deliver to Bristol. Herb KB3VMN is coordinating this effort; the gear is currently being stored in two locations, and will probably be picked up early enough to make it to Bristol around 3:00pm to unload and help with set up.

Sunday, May 4

Gate and Parking - Starting at 5:30am (gates open at 6:00am), we need a few members to handle these critical positions. Greeting attendees and taking payment at the Gate, and coordinating with the Parking team who handle guests and vendors once on site. We try to rotate these positions throughout the event (approximately hourly or so) to keep people fresh. Looking for at least 8 to 10 members for this, with 5 or 6 (minimum) at 5:30am start time. Herb KB3VMN is the lead and will be continually making rounds in both areas.

Club Table - Starting at 6:00am, to answer any questions, greet entrants as they come into the building, watch the club sale table, and generally be available to lend a hand where needed. Usually need about 3 to 5 members for this, Karl K3KH is the lead.

VE Testing - Session starts at 10:00am, so our team needs to be together no later than 9:30am. Minimum of 3 VE's are required, usually needing no more than 5. Larry WA3ELQ is the lead for all of WARC's VE testing.

Break down/Clean up - We have historically wrapped things up around noon or shortly after. We need to break down and stack the tables when everything is over (for pick up by rental company on Monday), as well as returning all of the chairs to their storage racks, clean up the premises, etc. Another two hours or so, and we're usually off site by 2:30pm.

Thanks, Dave K3FTD

(Continued from page 1)

General Meeting Minutes March 6, 2025

Call to order at 7:30 PM

Introductions: Approximately 38 in attendance.

Minutes from last Club Meeting: No Additions/Corrections, motion made to approve.

Committee Reports:

- **Treasurer's Report:** Tom K3PLA
 - Full report was available under separate cover.
- **Club Auction:** Tom K3PLA
 - A huge thanks to the generous donors that made the club auction a success.
 - Special thanks to our auctioneers Mark WA3QVU and Dan K3NXX and our cashiers Elaine N3TMP and George N3HBT.
 - The auction raised \$454 for the club treasury plus \$77 from the sale of the 50-year anniversary coffee clubs we re-discovered in the loft cleanout, which are still available for \$5 each.
- **Membership:** Tony W3FLH -
 - 118 members
- **Hamfest:** Tony W3FLH
 - Flyers have been updated (thanks Bruce WA3ZPC for the update and Kathy KC3FBY for updating the website), printed and paid for (500 full-color copies, \$90.00 to Labelcraft Press, courtesy of Charles Schmill KS3Z) and will be given to us at the March 6 meeting. Some will be given to Mark WA3QVU for distribution. The flyer has been posted on several social media outlets.
- **Public Service:** George N3HBT
 - Possible Memorial Day Parade
- **Programs:** Dave K3FTD
 - March - Dean Hedin - KC3JXT - 3D printing
 - April - Hamfest preparation
 - May - Possible Town Hall
 - June & beyond TBD
- **Classes:** Dave K3FTD/Dan K3GMQ/Tony N3YNH –
 - General class canceled B/C no one had a tech license, we now running a Tech class with between 6-12 students
- **VE Testing:** Larry WA3ELQ/George N3HPT
 - Last session 6 applicants, 4 passed all techs
 - Next session is Monday March 31st, 7:00 PM
 - The ARRL will stop sending out the tests. For the short term, we will need to download and print out the tests from EX-AMTools.
 - Eventually we may need to switch to using exam tools for testing and purchasing Kindles or similar for VE testing and candidates will need to preregister and get a pin from HamStudy.org
- **Field day:** Herb KB3VMN
 - New location this year - Warminster Community Park
 - Beginning planning; Dates 6/28-29. Entry off of Bristol Road. Bathrooms available.

(Continued on page 3)

(Continued from page 2)

- **Container/shed Update/Loft Clean Out:** - Herb KB3VMN
 - We have two possible shed quotes with some open questions, more to come.
- **Club Station Status:**
 - Still down due to the condition of the loft
 - Loft is due to be repainted and new rug laid
- **Old Business:**
 - Anyone interested in being the Club Librarian, please let any of the officers know.
- **New Business:**
 - Many thanks to Echo Horn N3BCY for storing and inventorying our treasures from the loft.
 - Many thanks to Regina KC3LRF for her dedicated service on Good and Welfare. Regina needs to step down from Good and Welfare. We are looking for someone to cover this important club outreach. If you are interested, please contact the board.
 - Our club cannot function without your help and input. Have you considered becoming a member of the WARC Board of Directors?
 - Nominations start in March and club elections are in May,
 - Please consider serving on the board.
 - If you have not done so, please take a few minutes to log into Ham Club Online -
 - <https://www.hamclubonline.com/>
 - Daylight Savings time starts on Sunday March 9th

Presentation:

3D Printin

WA4YWM Blog

NanoVNA

Well, that is an intriguing title. So just what am I talking about? This is an instrument which every ham should consider having in his toolbox. A bonus is that it is inexpensive and the bang for the buck is phenomenal. People are always asking about antenna analyzers and which one to purchase. This is at the heart of what I am discussing here in regard to the NanoVNA.

So, let's get to the discussion. In general what is this device and what does it do?

What is a VNA (Vector Network Analyzer)?

Look up the definition online and you'll see something like "an instrument that measures the magnitude and phase of the reflection and transmission properties of the ports of a device versus frequency." So what does this mean?

It's an instrument that's used to characterize rf devices and it typically is only used by rf engineers due to the high cost. The costs can range from five to ten thousand dollar for an "inexpensive" VNA to about a quarter of a million dollars for a high end one. So they are certainly outside of the price range for most of us hams.

The rf device herein referred to as device under test(DUT) could be an antenna, an amplifier, matching networks, or a transmission line to name the most prominent devices.

Consider a wave that's being produced by a source going into a DUT. Any of that signal that goes through the device is called the transmission properties of that device and any part of that signal that gets reflected off that interface due to an impedance mismatch is called the reflection properties of the device. Now the device reflection and transmission will alter both the magnitude and phase of the source signal and a VNA measures the magnitude and phase of those reflections and transmission properties of a device.

What is a VNA good for?

The VNA has 2 measurement ports. One is the Transmission Port (TX) and the other is the Receive Port(RX).

(Continued on page 4)

Single port measurements are used in making reflection measurements which are like the SWR of an antenna or complex impedance (resistance and reactance) or looking at even the impedance of components like passive components such as inductors, capacitors or crystals. You can also do things like measure transmission line length or perform Time Domain Reflectometry which allows you to find defects in a run of transmission line as an example.

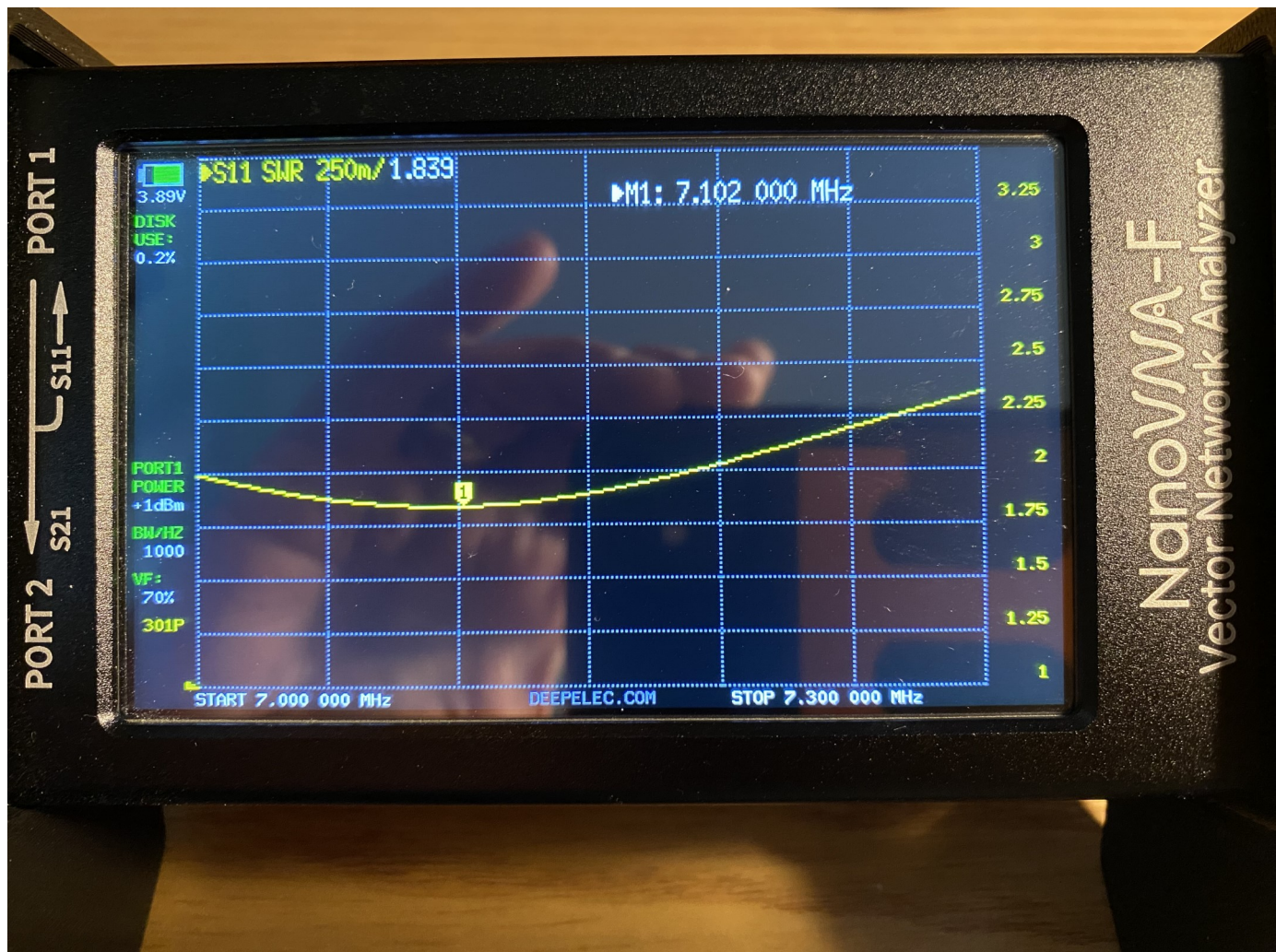
Two port measurements are the transmission measurements. In other words, what happens through a device such as measuring the filter shape or maybe loss through coax feed line or even measuring amplifier gain and frequency response which allows you to measure a multitude of RF devices that we typically used by hams - antennas and filters and duplexers and amplifiers and splitters and attenuators.

What is the NanoVNA?

The NanoVNA is an incredibly inexpensive version of a VNA. My Nano cost me \$103. That's a little bit less than the professional versions discussed in the fourth paragraph isn't it? It is an amazing little device. It measures approximately 5" x 3" with a 4" screen.

The NanoVNA is probably used by most hams as an antenna analyzer but has far more functionality as discussed above. In the photo below you can see my use of it in observing the SWR curve of my 40M dipole. The bottom of the screen shows the selected frequency range of 7 – 7.3 MHz. On the right you can see the scale for the SWR measurement. There is a marker at 7.102 MHz shown as M1 at the upper right. This marker can be moved anywhere along the curve. In the upper left of the screen you can see the SWR reading at 1.839. The 250m indicates the scale gradations as .25/scale marking.

There are far too many examples to show you in this article. If anyone would like me to write about other functions, I will be happy to do so.



What are the different models, where can you make a purchase and how much does it cost?

The nanoVNA is an open source device for both hardware and software so there are different manufacturers and software developers. There are currently 3 different models (or variants of those) that I am aware of.

I have the -F as you can see in the photo. It has a frequency range of 2.7 GHz and a full complement of functionality with the latest software upgrade. As mentioned before I recently purchased it for \$103.

The -H4 seems to be the least expensive at \$83. It's frequency range is 1.5 GHz. It also has a 4" screen. Price is around \$120.

There is an SAA-2N that has N connectors instead of the SMA connectors of the other units. It has a 3 GHz range. Price here is also \$120.

Where can they be purchased? I bought mine from Deeelec. Go to deeelec.com to check it out. Another company that sells various models is R&L Electronics. There is a link to them on nanovna.com.

Where to get more info?

There are various on-line sources of information on the purchase and use of the NanoVNA.

nanovna.com is a good general source of information which discusses how to use the Nano, where to buy it, how to upgrade it, etc.

There are various group.io groups to answer questions.

An excellent source of uses of the Nano is the You Tube channel of W2AEW. His videos numbered 312-320, 325-326 and videos 329,337,349 and 379 all have excellent presentations of the various uses of the Nano. He is a tremendous instructor who clearly and thoroughly presents his material.

Checkout his library of videos at:

https://www.qsl.net/w2aew/youtube/W2AEW_video_index.pdf

There are almost 400 videos he has produced over the years covering a wide range of ham radio topics. Well worth watching each one.

Well, that's it for this month. In May I will discuss that other small, inexpensive test instrument called the tinySA Ultra.

See you then.

73,
Jim WA4YWM

FCC Initiates Broad Inquiry on Rules to Delete or Amend

In a Public Notice titled "In Re: Delete, Delete, Delete," issued on March 12, 2025, the FCC is soliciting public input on any FCC rules in any service that members of the public believe should be deleted or modified "for the purpose of alleviating unnecessary regulatory burdens." This is the latest in a series of similar proceedings going back to 1996, when the Communications Act was amended to require the FCC to periodically review its rules.

ARRL, through its Executive Committee and FCC Counsel, is conducting a review of the provisions in Part 97 and other related rules that apply to radio amateurs. ARRL is also soliciting feedback from its members. Rules identified as outmoded, obsolete, or that for other reasons should be repealed or modified, will be included in ARRL's filing to be submitted no later than the FCC deadline of April 11, 2025. The deadline for filing reply comments is April 28, 2025.

It is expected that the Commission will incorporate suggestions that it decides worthy of its consideration in a future Notice of Proposed Rulemaking (NPRM) that could be issued later this year. There will then be an opportunity for public comment on the specific rules that the Commission proposes for deletion or modification.

A PDF of the FCC Public Notice is available here: <https://docs.fcc.gov/public/attachments/DA-25-219A1.pdf>.

Courtesy the ARRL Letter

ARRL to Gather Comments from Members on FCC's Public Notice

Dear ARRL Member,

On March 12, 2025, the Federal Communications Commission (FCC) issued a Public Notice titled "In Re: Delete, Delete, Delete," seeking input from the public on FCC rules that may be outdated, unnecessary, or in need of modification. This inquiry is part of the FCC's ongoing effort to alleviate regulatory burdens across various services, including the Amateur Radio Service.

As part of this review, ARRL is conducting a thorough examination of the provisions in Part 97 and related rules that affect amateur radio operators. ARRL's written comments, which will be prepared by our FCC Counsel and the ARRL Executive Committee, will include consideration of feedback we received from members.

Members who want to share comments and concerns about this matter are urged to share your feedback directly with ARRL. Please submit your comments by March 31, 2025 and use the following feedback form:

www.arrl.org/fcc-public-notice-march-2025

ARRL will submit our official filing to the FCC by the April 11 deadline. After that, there will be an opportunity for reply comments at the FCC until April 28, and then later, opportunities for public comment on any rules the FCC proposes to delete or modify.

While the FCC Public Notice is a broad inquiry that does not single out any specific radio service, ARRL is nonetheless committed to protecting the Amateur Radio Service, promoting its public interest goals, and ensuring your right to access radio spectrum.

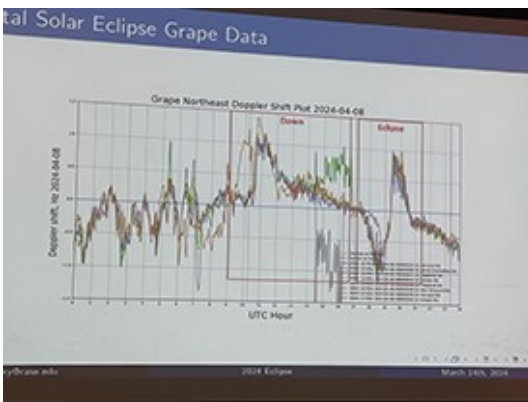
ARRL will continue to work on this matter, and we will inform members as more news develops.

Thank you,
73
ARRL Executive Committee

Courtesy the ARRL Member Bulletin

Ham Radio, Students and Scientists at the 2025 HamSCI Workshop

By: Rich Moseson, W2VU



Graph of solar eclipse propagation data gathered by participants in HamSCI's solar eclipse activity last year. [Graph by Dr. Kristina Collins, KD8OXT]

Some 175 scientists, students, professors, and amateur radio operators from around the world gathered in person and virtually on March 14 and 15 to share research, educate each other, and network at the annual HamSCI Workshop. HamSCI, the Ham Radio Science Citizen Investigation program, aims to promote collaboration between science, amateur radio, and education. The 2025 workshop was hosted this year by the New Jersey Institute of Technology in Newark. The program featured 30 talks and two dozen poster presentations, many focused on the HamSCI community's research activities during the 2023 annular and 2024 total solar eclipses and its ongoing programs to involve amateur radio operators in collecting data for research on space weather and its impact on the ionosphere.

See a short video of the workshop's poster session on ARRL's YouTube channel.

"I believe the workshop went very well," said HamSCI Lead Dr. Nathaniel Frisell, W2NAF, a professor at the University of Scranton. "There were many stimulating presentations and discussions, and the workshop did an excellent job bringing together amateurs, students, and scientists from near and far."

Among the presenters was Space Science Institute researcher Dr. Kristina Collins, KD8OXT, the 2025 recipient of the Dayton Hamvention® Technical Achievement Award. Collins demonstrated how interactive data visualization software can be used as a platform for HamSCI work, including visualization of data amassed from the Personal Space Weather Station (PSWS) project. Owen Ruzanski, KD3ALD, an undergraduate at The University of Scranton, co-authored, "Development of a Contesting and

Dxing Dashboard for the HamSCI Personal Space Weather Station.” Citizen scientist Mindy Hull, MD, KMINDY, researched the “Effect of near total solar eclipse on radio propagation of HF, Weak-Signal Propagation Reporter (WSPR) transmissions.”



The 2025 HamSCI Workshop at NJIT was filled with two days of oral sessions, poster presentations, and networking. [Bob Inderbitzen, NQ1R, photo]



ARRL Director of Marketing and Innovation Bob Inderbitzen, NQ1R (L), receives a plaque from HamSCI Lead Dr. Nathaniel Frissell, W2NAF, following his keynote address at the 2025 HamSCI Workshop. [Rich Moseson, W2VU, photo]

ARRL was well-represented at the conference, with a team led by Director of Marketing and Innovation Bob Inderbitzen, NQ1R — who was also the keynote speaker at the Friday night banquet — and Hudson Division Director Ed Wilson, N2XDD. Inderbitzen focused his remarks on amateur radio’s unique status as a technological “sandbox” for exploring and developing new communication technologies. He also highlighted ARRL’s commitment to growing the Amateur Radio Service through programs like the ARRL Teachers Institute on Wireless Technology which prepares schoolteachers and college professors to develop student interest and skills in radio communications and technology.

“Last year, the ARRL Board of Directors established a road map for a bold, new strategic direction,” said Inderbitzen in his address. “For 110 years, you might sum up the organization’s purpose as promoting and protecting amateur radio. But last year, ARRL’s mission was expanded ... to develop the next generation of radio amateurs. And to be even more deliberate, a new advocacy was established: to inspire youth.” Inderbitzen also led a meeting of the ARRL Collegiate Amateur Radio Program at the end of the workshop.

Courtesy the ARRL Letter

Bonaire for Breakfast



While eating breakfast last Saturday morning at the New Jersey Institute of Technology, ARRL staff member Bob Inderbitzen, NQ1R, was also on the air from Bonaire, remotely working a pileup from a station he visits often on the island. Physically in Newark, New Jersey, for the annual HamSCI Workshop, Bob had his Wi-Fi-connected laptop on the table in front of him, controlling the station in Bonaire as PJ4/NQ1R, and responding to FT8 calls in between bites of breakfast! Increasingly popular remote operating will be the focus of an upcoming special edition of the National Contest Journal.

Courtesy the ARRL Letter

Bob Inderbitzen, operating as PJ4/NQ1R in Bonaire while attending the 2025 HamSCI Workshop in Newark, NJ. [Rich Moseson, W2VU, photo]

2025 Contest Calendar

April

13 [Rookie Roundup – Phone](#)

1800 to 2359 UTC

June

14-16 [June VHF](#)

1800 UTC Saturday, ends 0259 UTC Monday

28-29 [Field Day](#)

1800 UTC Saturday and running through 2059 UTC Sunday

QSO Parties

Missouri	1400Z, Apr 5 to 0400Z, Apr 6 and 1400Z-2000Z, Apr 6
Mississippi	1400Z, Apr 5 to 0200Z, Apr 6
Louisiana	1400Z, Apr 5 to 0200Z, Apr 6
New Mexico	1400Z, Apr 12 to 0200Z, Apr 13
North Dakota	1800Z, Apr 12 to 1800Z, Apr 13
Georgia	1800Z, Apr 12 to 0359Z, Apr 13 and 1400Z-2359Z, Apr 13
Nebraska	1100Z to 2259Z, Apr 19
Michigan	1600Z, Apr 19 to 0400Z, Apr 20
Florida	1600Z, Apr 26 to 0159Z, Apr 27 and 1200Z-2159Z, Apr 27

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

➤ 2025



April 26 - [Delmarva Amateur Radio and Electronics Expo, ARRL Delaware State Convention](#)

Cheer Center
20520 Sand Hill Rd.
Georgetown, DE 19947

April 26 - [York Hamfest](#)

Glenview Alliance Church
10037 Susquehanna Trail S Special
Glen Rock, PA 17327
<http://yorkhamfest.org>

April 27 - [Maryland Mobileers Spring Hamfest](#)

Odenton Volunteer Fire Company
1425 Annapolis Rd.
Odenton, MD 21113
<https://sites.google.com/view/marylandmobileers/hamfest?authuser=0>

May 4 - [Warminster ARC - Annual Hamfest, ARRL Eastern Pennsylvania Section Convention](#)

Bucks County Community College-Lower Bucks Campus
1304 Veterans Highway (Route 413)
Bristol, PA 19007
<http://wp.k3dn.org/hamfest/>

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.

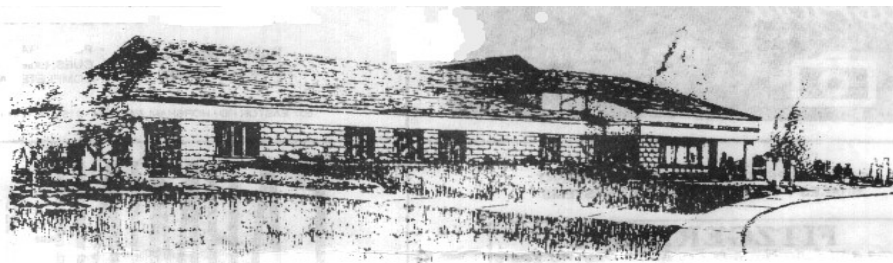
If you want to have your picture taken to be placed on the 'Members' Photos' section of the www.k3dn.org website, please contact Membership with your interest. When we get enough people who are interested we will post a notice in Feedback and have a camera ready at the following club meeting.

PROGRAMS 2025

April - Hamfest Preparation

May - Possible Town Hall

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 Bueggers
- 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

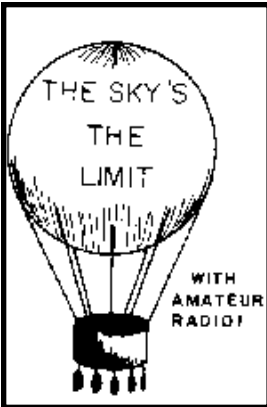
D-STAR

- 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

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 ?

2025 Officers

Executive Officers

President	Dave McGowan	K3FTD	215-850-5846
Vice-President			
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 25	Herb Hickmott	KB3VMN	267-718-3601
Hamfest 25	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			