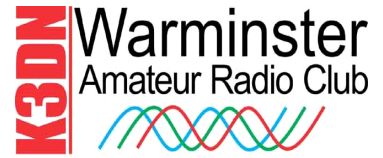




FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

June 2021

Next Meeting June 3rd via ZOOM - Field Day Prep

President's Message

Hello fellow WARC members, and welcome to the “unofficial” start of Summer. Of course, as I write this, temps are hovering around 50°F and the rain is falling, but hey – Summer’s here! And although we can’t see the sun just yet, that doesn’t mean it hasn’t been active: Cycle 25 is producing sunspots (though not in the numbers we’d like to see), and there was a huge solar storm just last week which effected the ham bands pretty hard for a few days, so it’s been busy behind those clouds...

We held our elections last month, and there will be some new faces joining our Board for 2021-22: Welcome to Ray Oechslin KA3TRU as Vice President, and Dan Myers K3NXX as Secretary. We look forward to your contributions to WARC’s Board, and thank you both, as well as the incumbent officers, for stepping up and volunteering your time for the betterment of the club. I want to thank Tony Simek N3YNH and Kathy Acker KC3FBY for their service to WARC this past year: Tony did a great job of lining up speakers for our ZOOM presentations, which have been of great benefit to our members, and he’s leaving us with a full slate of presenters thru the end of the year; and Kathy’s contributions to our club are immeasurable, as she’s managed most, if not all, of our foray into the virtual world of meetings and communications. Without her input WARC would not be in such good shape today.

Thanks also to everyone who took time to respond to our survey regarding a return to in-person activities. The survey was a sort of barometer of member’s positions on reconvening on a face-to-face level, and the Board will use that info to help guide our decision on when to return to live gatherings. There are numerous factors to be considered in making this decision, and this will help us to clarify a timeline that is acceptable to most members. We will certainly keep membership updated on any decisions we make.

So, enjoy the start of Summer, get outdoors with family and friends, and try to fit a little radio time in the gaps!

Tony W3FLH

73

Warminster ARC General Meeting Minutes

May 6, 2021

Attendance:

Call to Order

Minutes from last Board Meeting

Additions/Corrections - Motion made and approved for minutes as printed in Feedback

Committee Reports

Treasurer’s Report: Herb KB3VMN

As reported at the meeting

Programs: Tony N3YNH

June – Field Day Prep – review with tips on how you can participate in Field Day.

July – Battleship New Jersey NJ2BB

August – System Fusion w/Bruce WA3ZPC

September – Intro to Contesting w/Irwin KD3TB

Membership: Kathy KC3FBY

121 paid & active members

Public Service: George N3HBT

The Memorial Day parade has been cancelled again this year

(Continued from page 1)

Golf outing in June is on and we will need 8 hams to operate. 8:30 am start time at Five Ponds Golf Course. Please let George N3HBT know if you can help out.

Classes: George KA3WXV

Next classes: September 13 in person Tech and General/Extra class will begin at that time.

VEC Testing: Larry WA3ELQ

Next session: May 24 {due to Memorial Day} (pre-registration/10 max.) – successful session end of the month, 3 new tech, 1 new general and upgrades from tech to general. May 24 is next session, full slate registered and a waiting list.

Repeater: Brian N3EXA – not in attendance – everything seems to be working fine. Charles Schnell spoke to Brian and said that there is nothing new to report.

Good and Welfare: Ken K9KJL – sent one card out. We will send Ken a card.

Other Committees

Radiosport: Irwin KD3TB – bands are still open. State QSO parties. King of Spain CW next weekend. Hamvention will be doing a QSO party.

Hamfest: Tony W3FLH – tabled – postponed to 2022

Field Day: *Doc W3GAD* - we will go in depth on Field Day next month.

Old Business

Elmer Program – Online: Introduction to N1MM+ (Irwin KD3TB) – Class scheduled for next Thursday May 13 from 7:30 – 9:00. We have about 6 participants via Zoom.

Club Station: Interest/Activity (Marty NR3Z & Andy KD3RF) – Tabled

Director (Appointed) for 2021 – anyone interested as a Board member, Mike W3MJM spoke up and is interested. Tony W3FLH will reach out to him.

Annual Club Auction/Online (Board/Andy KD3RF) – September time frame. Stay tuned for more details.

BWSAC – Reopening May 1/WARC plans – Senior Center reopened on May 1. All our programs for the rest of the year are set up as Zoom meetings. Tony will be sending out a questionnaire about going back to the center and how that will look.

New Business

Elections for 2021-22 Board – A ballot survey was sent out to membership on May 1 with a reminder email on May 4. A motion was made and approved to close the elections. With a total of 53 votes online and 6 others verbally at the meeting the following state of officers were elected for the 2021-2022 term beginning July 1, 2021.

President – Tony Cuttone W3FLH

Vice President – Ray Oechslein KA3TRU

Secretary – Dan Myers K3NXX

Treasurer – Herb Hickmott KB3VMN

Directors – Larry Abbott WA3ELQ & George Brechmann N3HBT

2nd installment of BWSAC contract – due in June. We will discuss a discounted rate with them since we will not be back at the center until the fall. A survey will be sent out to the membership to gather feedback regarding returning back to the center for meetings.

Motion made and accepted to adjourn meeting at 8:20 pm

Presentation: Understanding and Applying Solar Indices w/Carl K9LA

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: The 10.7-centimeter solar flux rose this week, reaching 88 on Wednesday, May 26. That's the highest value since December 7, 2020, when it was 89.5. The official flux value is always the local noon reading at Canada's [Dominion Radio Astrophysical Research Facility](#) in Penticton, British Columbia, which provides [solar flux readings](#) three times a day.

Average daily solar flux rose this week to 77.8, down from last week's average of 74.2, while the average daily sunspot number increased from 20.3 to 24.9. Let's hope this signals a return to the enhanced activity and HF conditions we saw at the end of 2020.

Predicted solar flux over the next month is 88 on May 27 - 28; 80 on May 29 - 30; 76 on May 31 - June 3; 74 on June 4 - 10; 75 on June 11; 77 on June 12 - 15; 79 on June 16 - 23, and 76 on June 24 - 29.

(Continued on page 3)

FOR SALE

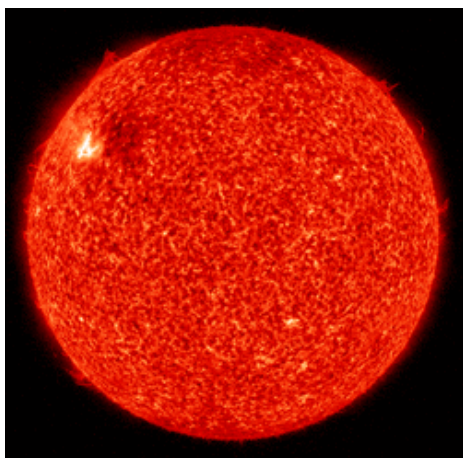
Drake TR-4C, RV-4C, AC-4 with Harbach modes by WB4HFN, Drake desk mic 7075, original Drake manual for TR-4C, a few spare Drake parts. All in excellent electrical and physical condition. New matched finals replaced a few years ago. No issues. Great back up set-up or set up for new ham.

ASKING: \$495 with local pick-up at my home or nearby local to be discussed.

Contact Bob Wilderman a WARC member at dlrwild1@verizon.net or 267-535-9189 cell

K3SRO

(Continued from page 2)



Predicted planetary A index is 20, 10, and 5 on May 27 - 29; 8, 5, and 8 on May 30 - June 1; and 5 on June 2 and into July.

Sunspot numbers for May 20 - 26 were 13, 13, 19, 30, 29, 36, and 34, with a mean of 24.9. The 10.7-centimeter flux was 72.3, 73.7, 75.6, 79, 72.7, 83.5, and 88, with a mean of 77.8. Estimated planetary A indices were 24, 7, 5, 4, 4, 3, and 13, with a mean of 8.6. Middle latitude A index was 17, 8, 5, 4, 2, 3, and 12, with a mean of 7.3.

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.

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

[Share](#) your reports and observations.

Courtesy of the ARRL Newsletter

[Editor's Note; I just received the following from the communications crew that coordinates the ham radio communications for the MS150 bike run. Please consider supporting this event. We are a very good public service club and they can use our help. There are several of us in the club that have assisted at this event for several years.]

MS-150 City to Shore

This past year has been very hard on a lot of folks. Not only did we have to deal with the Pandemic, but many of our brethren have endured great losses in their lives, and we hope that everyone realizes that though you may not have heard from us, you have all been in our thoughts, prayers, and hearts.

We are reaching out today to let you all know that this year's **2021 MS Ride – City to Shore**, more affectionately known to us as **"The MS 150 – City to Shore"**, has been given the go ahead for a full and complete event. The event will be held September 25th and 26th, 2021. Of course, we will once again, as always, be riding from Woodcrest Station in Cherry Hill to Ocean City.

You will remember a few years back, our event was cancelled due to the hurricane. When this happened, not only did the Society lose a lot of riders for the following year, we lost a lot of Radio Volunteers for the route. Although this is a late start, we are hoping that the cancellation of the 2020 event will not cause a major setback in our stepping up to support the event as only the **HAM COMMUNITY** can do.

Due to **ALL** the **CIRCUMSTANCES** of the past year, we are looking at a great many changing needs to our operations. We have lost some key positions that have been held by our tried and true for many years. We will definitely be looking to fill positions like SAG and Support Vehicles. We are hoping that some of our long term volunteers will consider moving into these positions, but we will expand on that in our next communication.

(Continued on page 4)

(Continued from page 3)

June 2021 Eclipse Festival Seeks Ham Participants

[HamSCI](#) is looking for radio amateurs to record time-standard stations during the June 2021 annular solar eclipse across the Arctic Circle as part of a citizen science experiment. Researchers

will use the crowd-sourced data to investigate the superimposed effects of auroral particle precipitation and the eclipse on HF Doppler shift.

Participants would collect data using an HF radio connected to a computer running open-source software. A precision frequency standard, such as a GPS-disciplined oscillator, is desirable but not required to participate. Radio amateurs and shortwave listeners around the globe are invited to take part, even stations far from the path of totality. Last year's eclipse festivals included more than 100 participants from 45 countries.



The experiment will run June 7 - 12. All participants will receive certificates as well as updates as the data is processed. This is a pilot experiment for HamSCI's Personal Space Weather Station project, which seeks to develop a global network monitoring the geospace environment. For more information and set-up instructions, visit the [June 2021 Arctic Eclipse Festival](#) page on the HamSCI website.

This eclipse will be an unusual annular or "ring of fire" eclipse. This occurs when the moon is too far from Earth to fully block the sun, but will fit entirely within it. The eclipse path will cross over the North Pole, so it first will travel north and then south.

While those living in parts of Canada and Russia will experience the full "ring of fire" effect of the eclipse, residents on the East Coast of the US may be able to briefly experience a partial solar eclipse -- a preview of the total solar eclipse that will cross the US in 2024.

Courtesy of the ARRL Newsletter

PSAT2 (NO-104) Satellite VHF Transceiver is Alive with Innovative Mode



Bob Bruninga, WB4APR, says the [PSAT2](#) VHF transceiver awoke from an 8-month slumber on April 26. "We have no idea why. Its telemetry looks fine," Bruninga said.

Voltage is between 6.2 and 7.0 V and exterior temperatures are between -18° and 22° C. PSAT2 will *not* be in Automatic Packet Reporting System (APRS) mode, but in a brand-new experimental mode for dual-tone multi-frequency (DTMF) uplink (145.980 MHz) and voice downlink.

"You pre-load your grid and call sign into a 16-digit DTMF memory in your radio, and when the satellite hears this it will assign a QSO number and QSL the grid by voice and then generate an APRS packet," Bruninga explained.

There's even a way to send back a DTMF QSL, so you can make it a two-way DTMF contact. Successful DTMF grids and messages will appear on a special URL on the PSAT2 page.

To QSL, key in that station's 2-digit QSL number and then dump your pre-loaded QSL DTMF message. Bruninga adds, "Read the docs and be sure you know what you are doing." A *PSAT2 Users Operations Manual* is available on the [PSAT2 web page](#). -- Thanks to AMSAT News Service via Bob Bruninga, WB4APR

(Continued on page 5)

Radio Amateur's Vintage Film Footage Sheds Light on *Hindenburg* Disaster

Vintage film footage provided by New Jersey radio amateur Bob Schenck, N2OO, was the highlight of a PBS documentary about the *Hindenburg* disaster. The film, shot by his uncle, Harold Schenck, may provide clues as to what initiated the disastrous 1937 fire that destroyed the airship *Hindenburg* and claimed 35 lives as the German zeppelin was landing at Lakehurst, New Jersey. Harold Schenck tried to interest government investigators in his film, shot from a different angle than newsreel footage that begins only after the fire was well under way, but it was largely overlooked. "Nobody ever asked for it," Bob Schenck explains in the documentary.



The Schenck film is the highlight of a PBS NOVA documentary, [*Hindenburg: The New Evidence*](#), that investigates the issue in considerable depth in an effort to unlock the secrets of the cold case. The program aired on May 19 and remains available for streaming.

"My dad had bought this nifty Kodak camera -- a wind-up movie camera, 8 millimeters -- and he couldn't come [to the *Hindenburg* landing] because he worked," Bob Schenck recounted during the documentary. "So, he asked my uncle and my mom if they would take some shots and see the *Hindenburg* land."



Bob Schenck approached Dan Grossman, an expert on airships, including *Hindenburg*, in 2012 during a commemoration of the disaster that forever memorialized radio reporter Herbert Morrison's plaintive on-air reaction, "Oh, the humanity!" The NOVA documentary not only shares Schenck's footage, which provided new clues to re-examine the cause of the explosion, it also reviews scientific experiments that helped investigators come to a fresh understanding of what set off the fire.

The original investigation only concluded that the fire resulted from leaking hydrogen ignited by a spark, but it was never determined what caused the spark. Witness accounts suggested the fire started near the airship's tail, but supporting evidence was hard to find until the Schenck footage was examined.

"The *Hindenburg* remains vivid in our collective memories all these years later because of the searing images and film of the explosion," said NOVA co-executive producer Chris Schmidt in a [Manchester Patch article](#). "We feel honored to share this new footage with the world and to bring the NOVA audience behind the scenes of this pivotal new investigation into the crash." -- *Some information from Manchester Patch; thanks to Pete Varounis, NL7XM*

Courtesy of the ARRL Newsletter

AMSAT's GOLF-TEE CubeSat Manifested for Launch

GOLF-TEE -- the first satellite in AMSAT's "Greater Orbit, Larger Footprint" (GOLF) program -- has been put on the manifest for NASA's Educational Launch of Nanosatellites ([ELaNa](#)) mission 46. AMSAT says the goal of the GOLF program is to work by steps through a series of increasingly capable spacecraft in learning to develop systems and skills needed to achieve successful high-orbit missions. Among these are active attitude control and the ability to command attitude changes, deployable/steerable solar panels, radiation tolerance for commercial, off-the-shelf components in higher orbits, and propulsion.



"The eventual goal of the GOLF program is a satellite in highly elliptical orbit (HEO) similar to AO-10, AO-13, and AO-40, but at an affordable cost, combined with significantly enhanced capabilities, allowing the use of much less complex ground stations," AMSAT said.

GOLF-TEE will be a fully-functional low-Earth-orbit VHF/UHF amateur satellite, carrying a linear transponder similar to the one flown on AO-109.

The "TEE" in GOLF-TEE stands for "Technology Exploration Environment." It reflects GOLF-TEE's mission of testing two primary systems needed for higher orbits. First, an attitude determination and control (ADAC) system will be tested to allow active

pointing of the satellite's antennas, which will have significant gain. The other primary goal of GOLF-TEE is to gain initial orbit and space radiation exposure for radiation event-induced fault tolerant systems designed using off-the-shelf components.

GOLF-TEE will carry an integrated housekeeping unit (IHU)/command transceiver designed using the Hercules line of ARM architecture-based microcontrollers.

GOLF-TEE will also evaluate a low-cost, deployable, fixed attitude, solar panel array design as part of AMSAT Engineering's exploration of fixed panel arrays that allow for outfitting a variable number of "wings" in order to best match the power requirements of various CubeSat missions.

Additionally, GOLF-TEE will carry a modified commercial software-defined radio (SDR), the Ettus E310, as an experimental package to test a high-speed 10 GHz data downlink.

[Donations](#) to the AMSAT GOLF program are welcome. -- *Thanks to AMSAT*

Courtesy of the ARRL Newsletter

Ham-Firefighter Rescues Drowning Man from River



ARRL member and Edmonson County Emergency Coordinator Tim Skees, K9KSP, a firefighter in Brownsville, Kentucky, was among those responding to an April 23 fire dispatch call he heard on his ham station scanner reporting a possible drowning in the Green River. Radio traffic indicated that the potential victim was a 40-year-old male.

"After assessing the information provided by family members at the scene, [I] went down-river approximately 300 yards, located the victim in water, washed up on a shallow rock shoal in the river," Skees told ARRL. "[I] waded out to the victim, dragged him to the riverbank, and, as other responders showed up and came to where the victim was, he was pulled up the bank of the river. He was suffering exposure/hypothermia from being in the

cold water for hours."

Skees said the man's family had at first called in the incident as a confirmed drowning. The man was first taken to the vehicle of Edmonson County Emergency Management Director Terry Massey and warmed up until an ambulance could arrive. Massey told local media that the local dispatcher paged the Brownsville Fire Department around 2 AM after a caller had reported a possible drowning at the Brownsville boat ramp.



Massey said he and Skees arrived at the area and saw two unoccupied vehicles. "In just a minute, we could hear some yelling down at the river and could tell it was downstream a good ways," he [told](#) *The Edmonson Voice*. Massey said he and Skees followed the commotion and found the man in about a foot of water, lying on his side, and Skees waded in to retrieve him. Massey said that according to others on the scene, the man had fallen into the water while trying to retrieve some fishing gear.

"I submit this as a testament to the need of hams to get involved with emergency services and foster good working relationships with [emergency managers] and local agencies," Skees said.

Courtesy of the ARRL Newsletter

2021 Contest Calendar

June

12-14 [June VHF](#)

1800 UTC Saturday, ends 0259 UTC Monday

19 [Kids Day](#)

1800 UTC through 2359 UTC

26-27 [Field Day](#)

1800 UTC Saturday and running through 2059 UTC Sunday

July

10-11 [IARU HF World Championship](#)

1200 UTC Saturday and ending 1159 UTC Sunday

August

7-8 [222 MHz and Up Distance Contest](#)

1800 UTC Saturday and ending at 1759 UTC Sunday

22 [Rookie Roundup – RTTY](#)

1800 to 2359 UTC

QSO Parties

Kentucky 1400Z, June 5 to 0200Z, Jun 6

West Virginia 1600Z, Jun 19 to 0400Z, Jun 20

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 2021 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@arrrl.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@arrrl.net Alt Contact: Jim, 610-287-5630

➤ ATLANTIC DIV. HAMFESTS ➤ 2021

June 20

[Father's Day Hamfest at Arcadia](#)

Arcadia Fairgrounds 16920 Carnival Ave.

Upperco, MD 21155

<http://W3FT.com> Facebook Baltimore Amateur Radio Club

July 4

[Firecracker Hamfest, ARRL Pennsylvania State Convention](#)

Harrisburg Postal Picnic Grounds 1500 Roberts Valley Road

Harrisburg, PA 17101

<http://www.W3uu.org>

July 17

[Valley Forge Hamfest](#)

Kimberton Fire Company Fairgrounds

762 Pike Springs Rd. Phoenixville, PA 19460

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

July 31

[CVARC 2021 Hamfest](#)

CVAEMA Show grounds

1501 Criders Church Road Chambersburg, PA 17201

<http://w3ach.org>

CLUB INFO

PUBLIC SERVICE

Golf outing in June is on and we will need 8 hams to operate. 8:30 am start time at Five Ponds Golf Course. Please let George N3HBT know if you can help out.

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

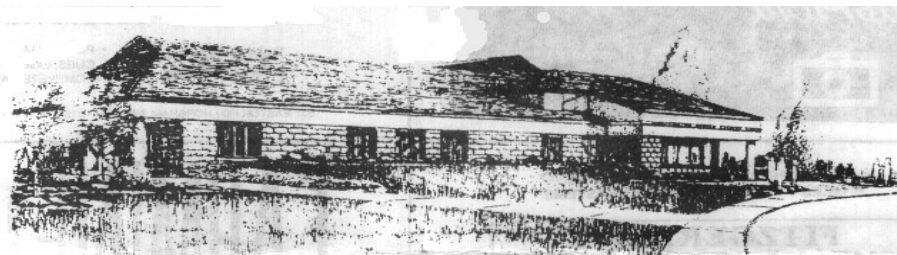
The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even 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 2021

June - Field Day Preparation
July - The Battleship New Jersey
August – System Fusion w/Bruce WA3ZPC
September – Intro to Contesting w/Irwin KD3TB

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>

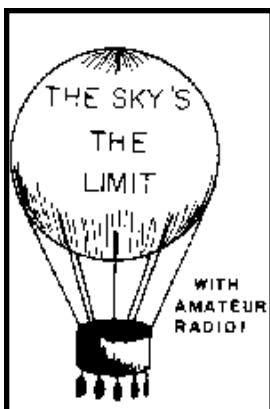
➤ CLUB EQUIPMENT

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, Tony Simek N3YNH



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.

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 ?**

2021 Officers

Executive Officers

President	Tony Cuttone	W3FLH	267-679-9297
Vice-President	Tony Simek	N3YNH	
Secretary	Kathy Acker	KC3FBY	215-815-7978
Treasurer	Herb Hickmott	KB3VMN	267-718-3601
Director (A)	Doug Becker	KC3MNQ	
Director (E)	Larry Abbott	WA3ELQ	215-704-3282
Director (A)			
Director (E)	George Brechmann	N3HBT	215-443-5656
Past President	Marty Squicciarini	NR3Z	215-872-9644

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 21	Doc Whitticar	W3GAD	215-968-6397
Hamfest 21	Michael Shanblatt	W3MAS	267-491-5773
Hamfest 21	Tony Cuttone	W3FLH	267-679-9297
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Kathy Acker	KC3FBY	215-815-7978
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	215-639-2175
Station Trustee	George Brechmann	N3HBT	215-443-5656
Sunshine Club	Ken Lichtenstein	K9KJL	847-697-1188
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