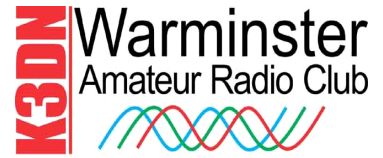




FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

December 2021

Next Meeting Dec. 2nd **ZOOM ONLY** - History of Bucks County

PRESIDENT'S MESSAGE

By the time you receive this month's Feedback, we will have just celebrated Thanksgiving and officially moved into "The Holidays". As with the previous year, 2021 has proven to be a challenge in its own ways, and as a club we've managed to address and overcome them, while continuing to move forward with mostly positive results. With 2022 mere weeks away, we are in a good position in both membership and financially, as we are gearing up to return to more in-person activities and events, including resuming our hybrid meetings at the Ben Wilson Senior Activity Center. It will be good getting back together on a regular basis, and we will make an investment in the technology needed to include those who continue to participate virtually, allowing more members to take part in our monthly gatherings.

We also received good news on the Hamfest front recently: WARC will be returning to Bucks County Community College-Lower Bucks Campus in May 2022! We have secured the date (Sunday, May 1), and will be proceeding with plans to hold the event as we have previously. I will have more information on this as things progress, but for now it's great to be back.

I'll keep it brief this month, ending my message here, and will close by saying: It has been a trying but rewarding year for all of us, so please keep those you love close to you this holiday season; celebrate joyously with friends and family; and continue to hold your traditions and customs dear while passing them down for future generations to cherish.

Best wishes to all my fellow WARC members!

Tony W3FLH

73

Warminster ARC General Meeting Minutes - November 4th, 2021

Meeting Called to Order 7:40 pm

Attendance:

No Introductions (Zoom Meeting)

Minutes from October Meeting:

Motion made and Seconded to approve as submitted.

Committee Reports:

Treasurer's Report: Herb (KB3VMN)

As reported

Programs: Ray (KA3TRU)

November – ARRL Night w/Tom (W3TOM) & George (W3GWM)

December – History of Bucks County/Recorder of Deeds. *Ray is still trying to contact the Recorder of Deeds.*

January – Stump the Chumps. *Yet T/B/D if the meeting will be Live or Zoom.*

Membership: Kathy (KC3FBY)

132 members. Dues coming due for 2022. Kathy will email those members that are due for renewal. Dues expiration date will be in the notification email.

Public Service: George (N3HBT)

Done for 2021. Received a Thank You note from Karen (Warminster twp.) for club's golf outing participation. Same from Eric Fleischer for the 5K Run.

(Continued from page 1)

Classes: George (KA3WXV)

Next classes: Spring 2022. *Classes are over for this session. The student attending the General Class class should be coming to the next VE test session.*

VEC Testing: Larry (WA3ELQ)

Next session: Nov. 29 – *Walk-ins welcome along with preregistration. Five candidates all passed their tests at the last session.*

Repeater: Brian (N3EXA)

Repeater is operational. Quakertown input repaired and working. Looking for a center city rx site. Waiting for the Warminster Twp. building to reopen to install solid state component to repeater.

Good and Welfare: (Ken K9KJL)

No report

Other Committees:

Radiosport: Irwin (KD3TB) *CQWW SSB contest. ARRL sweepstakes weekend Nov 6-7. Slow speed CW Nov. 5 and Nov. 7. Work all ARRL sections. Nov 20 to 21. CW contest Thanksgiving Day weekend. More contests in December.*

Hamfest: Tony (W3FLH) *Looking to return to the BCCC. Board needs to make a location decision by January 2022.*

Field Day: Doc (W3GAD) *Looking into returning to the Shrine of Our Lady of Czestochowa for 2022.*

Old Business:

Club Station: Interest/Activity [(Marty (NR3Z) & Andy (KD3RF))] *On hold*

Elmer Program – George (KA3WXV) and Bill (K3MFQ) *On hold*

Annual Club Auction/Online (Board/Andy KD3RF) – Closed (10/31) *Winning bidder's items can be picked up at Marty's house in Lansdale.*

Reconvening In-person Activities/Upcoming meetings. *T/B/D at next board meeting.*

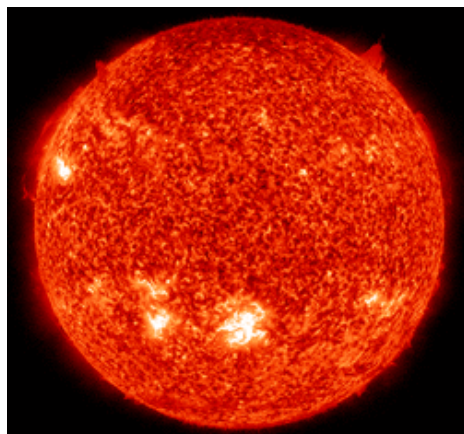
New Business:

Outstanding Ham of the Year (OHOTY) nominations now open. *Submit nominations to any board member.*

Motion Adjourned 8:05pm

Presentation: ARRL Night w/Tom W3TOM, ARRL Atlantic Division Director (and other guests)

The K7RA Solar Update



Tad Cook, K7RA, Seattle, reports: New sunspots appeared on November 14 and 16, but solar activity was lower and geomagnetic activity as well. Over November 16 – 18 the total sunspot area declined from 330, to 270 to only 40 millionths of a hemisphere, the lowest observed recently.

Average daily sunspot numbers declined from 36.4 last week to 30.9 over the November 11 – 17 reporting week. Solar flux averages were off as well, to 80.8 this week compared to 89.1 in last week's bulletin.

Average daily planetary A index declined from 18 to 7, and average middle latitude numbers went from 11.7 to 4.9. Middle latitude A index daily average went all the way down to zero on November 13.

We see no high numbers in the solar flux prediction, which has 80 on November 19 – 20; 82 on November 21 – 23; 86 on November 24 – 26; 85 on November 27; 83 on November 28 – 29; 85 on November 30 – December 2; 82 on December 3 – 11; 79, 80, and 79 on December 12 – 14; 78, 77, 79, and 81 on December 15 – 18; 83 on December 19 – 21, and 85 on December 22 – 24.

Predicted planetary A index is 8, 12, 15, and 8 on November 19 – 22; 5 on November 23 – 27; 10, 10, and 8 on November 28 – 30; 5 on December 1 – 12; 12 on December 13 – 14; back to 5 on December 15 – 24, and 10 on December 25 – 26.

(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)

Here's the geomagnetic activity forecast for November 19 – December 15 from J.K. Janda, OK1HH.

The geomagnetic field will be:

- quiet on 21, 24, December 5, 10, 12
- quiet to unsettled on November 19 – 20, 22 – 23, 25, December 9, 11
- quiet to active on November 28 – 30, December 2, 6, 8
- unsettled to active on November 26 – 27, December 3 – 4, 7, 15
- active to disturbed December 1, (13 – 14)
- Solar wind will intensify on November (29 – 30), December (1,) 2 – 4, 14 – 15

Notes:

- Parenthesis means lower probability of activity enhancement.
- An important notice will be issued on Thursday, November 25.

Courtesy of the ARRL Newsletter

AREx Says Artemis 2 Proposal Process was Instructive

Last November, NASA called for proposal submissions to document the story of the [Artemis](#) 2 mission to the moon. Amateur Radio Exploration (AREx), a joint initiative of Amateur Radio on the International Space Station ([ARRL](#)) and [AMSAT](#), submitted its plan to fly hardware and cameras on the lunar mission. Although NASA did not select the AREx proposal, ARISS-USA Executive Director Frank Bauer, KA3HDO, found a silver lining in the whole process. Bauer said the AREx team "learned a great deal in the development of the proposal" and was able to significantly refine its lunar payload design into a concept that can now meet [Lunar Gateway](#) payload requirements.

When NASA next returns astronauts to the moon, [National Geographic](#) cameras will document the historic space mission, in order to share it with the public. On October 29, NASA announced its selection of the exploration-focused media company to assist in telling the story of Artemis 2. Like Apollo 8, Artemis 2 will be the first planned human spaceflight mission in more than 50 years to orbit the moon and return to Earth.

"This time, we are bringing partners and technologies that will create additional opportunities for the world to share in the experience along with our astronauts," [said](#) Kathy Lueders, NASA Associate Administrator for the Space Operations Mission Directorate.

Through its proposal entitled, "The Excitement and Inspiration of Artemis Journeys to a Worldwide Audience through Interactive Amateur Radio Experiences," AREx wanted to evolve its design to make sure it meets all known NASA [Gateway](#) requirements,

(Continued on page 4)

(Continued from page 3)

"which, at the beginning of the proposal development, we were not meeting," Bauer said. He said its revised payload design concept will position the AREx team to respond to future lunar opportunity requests, as well as to communicate its readiness to fly as a payload on the Lunar Gateway mission.

Bauer said AREx went into the proposal process knowing there was a high probability that an organization like *National Geographic* might propose. "But you can never be sure," he said, adding that AREx also did not want to miss any lunar opportunity.

"What we did learn was that we could develop a hardware concept that can meet the volume, mass, and power requirements of Gateway, and that we could develop an antenna scheme that would not require an antenna-pointing system and still have some decent gain toward Earth."

NASA's Lunar Gateway will be an orbiting lunar outpost that will provide vital support for a long-term human return to the lunar surface, as well as a staging point for deep-space exploration. It is a critical component of NASA's Artemis program.

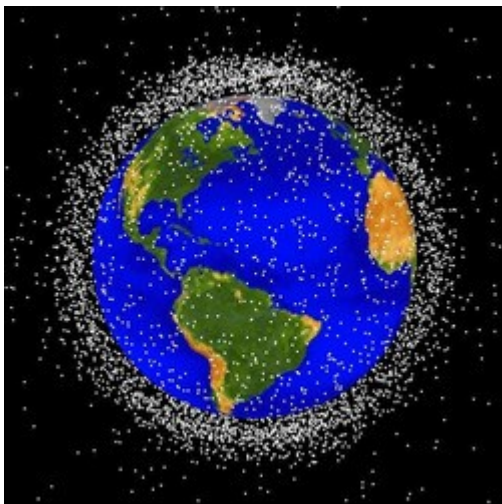
"On behalf of the AREx team, my thanks to all who supported the maturation of our lunar design and the development and submission of the proposal," Bauer said. -- *Thanks to ARISS-USA Executive Director Frank Bauer, KA3HDO, via AMSAT News Service*

Courtesy of the ARRL Newsletter



ARISS-USA Executive Director Frank Bauer, KA3HDO.

Russia's Destruction of an Orbiting Satellite Raises Space Debris Concerns



The proliferation of spacecraft in Earth orbit has greatly increased the possibility of collision with space debris. [Photo courtesy of NASA]

Russia tested an anti-satellite weapon on November 15, destroying Kosmos 1408, one of its own old and now-defunct satellites. Launched in 1982, Kosmos 1408 was some 300 miles above Earth. Its destruction generated a debris field in low-Earth orbit that prompted the seven International Space Station crew members, including one Russian cosmonaut, to take cover in their crew capsules for several hours, in case they had to abandon the station.

"The [ISS] is passing through or near the cloud every 90 minutes, but the need to shelter for only the second and third passes of the event was based on a risk assessment made by the debris office and ballistics specialists at NASA's Johnson Space Center in Houston," NASA Chief Bill Nelson explained. Occupants of the Chinese space station are reported to have taken similar action.

The incident also has generated criticism from many corners, as well as a grave discussion on the possible impact of any future such tests, by Russia or anyone else.

The danger of damage to the ISS or an orbiting satellite aside, tracking a debris field that could include thousands of pieces, in order to head off collisions, is a concern all its own. Very small debris in space is essentially impossible to track reliably, if at all. The incident also comes at a time when the number of spacecraft orbiting Earth continues

to grow. AMSAT President Robert Bankston, KE4AL, said that Russia's action will pose a threat to all activities in low Earth orbit for years to come, placing satellites and human spaceflight missions at risk.

"Space is already crowded, but now there are at least 1,500 trackable fragments and, possibly, hundreds of thousands of smaller yet still-threatening pieces of debris in low-Earth orbit," Bankston said. "While space stations have the capability to move out of the way, with sufficient notice, most satellites in low-Earth orbit, including those designed, built, launched, and operated by AMSAT, do not. As such, they face greater risk of catastrophic destruction or degraded mission functionality, if struck by fragments from Russia's destruction of Kosmos-1408."

Bankston said AMSAT is closely monitoring the situation and hoping for the best.

(Continued on page 5)

Nelson echoed Secretary of State Antony Blinken in expressing his own outrage at Russia's action. "Their actions are reckless and dangerous threatening as well the Chinese space station and the taikonauts on board," he said.

FCC Commissioner Nathan Simington condemned the incident as "irresponsible" and noting that orbital debris fields pose a threat to hopes for the peaceful use of space and "make the work of using space complicated and difficult," he said in a [statement](#). "No one owns space," Simington said. "And no one should intentionally make it more difficult to use."

The FCC has made it clear that orbital debris rules apply to amateur satellites, in general requiring submission of an orbital debris mitigation plan with each license application.



AMSAT President Robert Bankston, KE4AL.

Courtesy of the ARRL Newsletter

Ten Tips for New Contesters and Those with Modest Stations

Former ARRL Headquarters employee turned ham radio retailer John "Bee" Bartscherer, N1GNV, considers himself a casual contester with a 100 W transceiver and a wire antenna. As the fall and winter contest season begins, he shared 10 operating tips for new contesters and those with modest stations.

1. **Read the contest rules.** Know which bands are in play, your entry category, and the contest exchange.
2. **Use a logging program.** Quite a few options are out there. Bee's personal choice is [NIMM Logger+](#). It's free, has an amazing array of features, and it's updated regularly. Most current logging software will interface with just about any modern HF radio.
3. **More operating time means more contacts.** Get rid of any distractions, such as texting, TV, and email, and concentrate on making contacts. However, Bee does suggest taking breaks. For 5 minutes each hour, get up, stretch, hydrate, and get some fresh air.
4. **Set achievable goals.** If you're not an experienced contester with a well-equipped station (yet), it's not likely that you'll win a contest. Instead of trying to win, aim to beat your score from last year's contest, try to work DXCC in a weekend, or try to outscore fellow club members.
5. **Study propagation forecasts.** Get a sense of what bands are likely to be open to areas you want to work and when. This will help you come up with a basic operating strategy. Band openings can occur at any time, so if you're operating in a category that allows it, keep an eye on the DX cluster to find out when a DX station is on the air.
6. **Don't waste time in pileups.** Early on in a contest, don't waste a lot of time trying to break the pileup. Try a call or two, but if you don't succeed, move on and try again later.
7. **Work multipliers.** Most contests include multipliers in their scoring system, which can help to boost your score. Typically, you multiply your contact points by the number of multipliers (Sections, states, DXCC entities, grid squares) to determine your total score.
8. **Know your radio's knobs.** Familiarize yourself with your radio's front-panel controls, as well as any functions that may be hidden in a menu. Just about every radio has an attenuator, preamplifier, RF gain control, noise blanker, and, frequently, noise reduction. Most will also include an IF shift or passband tuning. Try turning off the preamplifier and turning on some attenuation. This may seem counterintuitive, but if a station sounds loud, chances are you're also loud to them. Reducing RF gain can also knock down strong, close-in interference, so you can hear (and contact) weaker stations that may be drowned out by stronger ones.



Contesting at W9SN.

9. **Use standard phonetics.** Cute phonetics might be okay to use on your local repeater, but in a contest, other stations will be listening for standard phonetics. Even though phonetics can vary, it's important to be consistent.
10. **Listen before calling.** Make sure you correctly copy the other station's call sign and exchange, which you can enter in your log while waiting in line (this is especially valuable during the ARRL November Sweepstakes, where the exchange is more than a simple signal report). Listen to the other operator's pattern (saying "QRZ?" after each contact, for example). Make sure you're transmitting when the other station is listening. -- Adapted from [The ARRL Contest Update](#)

Courtesy of the ARRL Newsletter

DXpeditioner Says Operating from Crozet is Limited by Nature

The recent announcement of a pending 3-month DXpedition to activate Crozet Island (FT5W) in 2022 - 2023 has generated enthusiasm within the DX community. Right on the heels of the announcement, the Northern California DX Foundation ([NCDXF](#)) pledged \$20,000 to support the DXpedition. The point person for the planned event, Thierry Mazel, F6CUK, wants to temper any overblown expectations, as demand will be extremely high for the third most-wanted DXCC entity -- right behind North Korea and Bouvet Island. Thierry says nature-related factors, including climate, will dictate the manner in which the DXpedition takes place.

"The wind blows almost constantly at 70 kilometers per hour (43 MPH), with gusts that can reach 150 kilometers per hour (93 MPH) within a few minutes," Thierry and co-planner Paul Granger, F6EXV, said in a recent news release. "There are no real seasons on Crozet, so these conditions apply all year long, even if, during the austral summer, nicer days can be expected."

Added to the possibility of gale or hurricane-force winds, the "fairly hard" volcanic rock that covers the archipelago and "very strict rules" in place to protect fauna and flora, will severely restrict the sorts of antennas that might be deployed. "For bird protection, antennas, guy wires, and anything that could be an obstacle are forbidden," Thierry and Granger said. Just securing guy lines for a four-square would require more than 30 concrete blocks, [because] digging holes is not permitted. The original idea to erect four-square arrays for 40 and 20 meters was refused, they said. The French Austral Islands are United Nations Educational, Scientific, and Cultural Organization (UNESCO) World Heritage sites and declared as protected areas.



The Crozet Islands archipelago. [Photo courtesy of Discover France]

"The only possibility that the administration allowed, was to have an [antenna] attachment point to an existing building and have wire antennas from there," Thierry and Granger said. "No beam! This is clearly stated in the permit we received."

As if those weren't enough roadblocks, any equipment brought onto the island must be thoroughly cleaned to prevent the introduction of pollen, seeds, or non-native organisms.

DXpedition planners are pondering the "best solution for the best antenna possible."

The last ham radio activity from Crozet was in 2009 by Florentin Bard, F4DYW, who operated as FT5WQ. Contrary to earlier accounts, the DXpedition has not announced its call sign, which will not be made public in advance. The solo DXpedition in 2022 - 2023 is anticipated to cost as much as \$58,000.

The Twitter account is [@crozet2022](#), and a website is expected to be online soon. When it's up and running, it will include details of how donated funds will be applied. Thierry has pledged that all contributions will be refunded if the operation does not take place.

Courtesy of the ARRL Newsletter

2021-2022 Contest Calendar

December

3-5 [160 Meter](#)

Begins 2200 UTC Friday, ends 1559 UTC Sunday. This is a forty-two hour period with no time limitation.

11-12 [10 Meter](#)

Starts 0000 UTC Saturday; runs through 2359 UTC Sunday

19 [Rookie Roundup-CW](#)

6 hours (from 1800 to 2359 UTC)

January

8-9 ARRL RTTY Roundup

15-16 North American QSO Party - CW

22-23 North American QSO Party - SSB

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@arrl.net.

Philadelphia, PA, Testing is done on the 4th, non holiday Thursday of the month at the, Community Ambulance Association of Ambler, 1414 E Butler Pike, Ambler PA 19002 at 7:00 PM We also are testing on Saturdays at least once per quarter at 9:00 AM. For further information contact James McCloskey at jmccloskey@msn.com and by phone 215-275-2979.

Lansdale, PA Testing on the fourth non-holiday Thursday of the month starting at 7:00 PM. The Lansdale Library Community Room Vine St. and Susquehanna Ave. Lansdale, Pa. Registration is required 48 hrs. or more before the scheduled exam date. If there are no registrations the scheduled exam date will be canceled. NO WALK-INS. You can register by contacting:
Olaf N. Markert - Phone (610) 517-5074, E-mail w3pa@arrl.net
Alt Contact: Jim, 610-287-5630

➤ ATLANTIC DIV. HAMFESTS

➤ 2022

April 23

[Delmarva Amateur Radio & Electronics Expo](#)

Cheer Community Center

20520 Sand Hill Rd.

Georgetown, DE 19947

<http://www.radioelectronicsexpo.com>

July 2

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

Harrisburg Postal Picnic Grounds

1500 Roberts Valley Road

Harrisburg, PA 17101

<http://www.w3uu.org>

CLUB INFO

PUBLIC SERVICE

CLUB STATION

The WARC club station is open to anyone with an interest, on the first Thursday of the month (meeting night) between the hours of 6:30 and 7:30 pm. with the exception of the December dinner meeting For further information, call George Brechmann N3HBT at 215-443-5656.

WARC ALUMNI MEMBERSHIP

An Alumni membership category is available for WARC members who are unable to attend meetings and club activities on a regular basis because of health considerations, travel impediments, or other hardships. Dues for the Alumni membership are \$10.00 annually and are approved by the Board. Please contact the Membership Committee for more information if interested."

ATTENTION MEMBERS

The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even numbered months. If you do not have at least a Warminster Amateur Radio Club badge with your picture on it, please contact your Membership Chairs at the WARC monthly meetings. Otherwise, please contact Membership by email at: membership@k3dn.org.

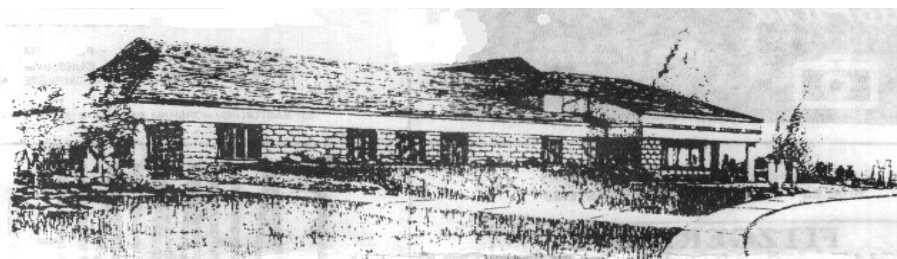
If you want to have your picture taken to be placed on the 'Members' Photos' section of the www.k3dn.org website, please contact Membership with your interest. When we get enough people who are interested we will post a notice in Feedback and have a camera ready at the following club meeting.

PROGRAMS 2021-2022

December - History of Bucks County Presented by the county's Recorder of Deeds. Virtual presentation with virtual (Zoom) audience.

January- "Stump the Chump."

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:

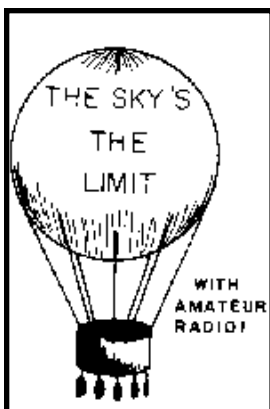
<https://www.weather.gov/phi/Info>

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 | Ray Oechslin | KA3TRU | 267-269-3198 |
| Secretary | Dan Myers | K3NXX | 215-957-2343 |
| Treasurer | Herb Hickmott | KB3VMN | 267-718-3601 |
| Director (A) | Doug Becker | KC3MNQ | |
| Director (E) | Larry Abbott | WA3ELQ | 215-704-3282 |
| Director (A) | Mike Malone | W3MJM | 215-639-2175 |
| 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 |
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| Hamfest 22 | Michael Shanblatt | W3MAS | 267-491-5773 |
| Hamfest 22 | 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 Kanschak | WI3Z | 215-491-9941 |
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