



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

July 2020

Next Meeting July 2nd via ZOOM - Field Day Review

President's Message

This will be my last message to you as President and I wish to thank everyone for their support. I especially would like to thank the current officers for all their support and advice and I needed a lot of advice. Even though my term was short there were several difficult decisions including cancelling meetings, hamfest and field day.

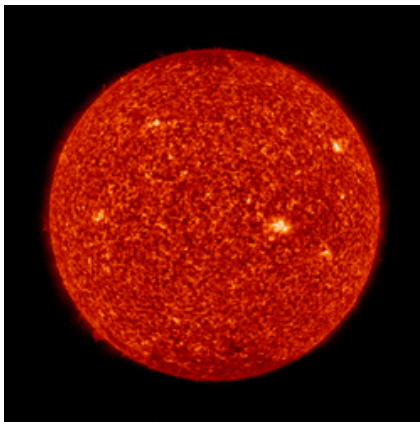
The most difficult task was the budget process. For several years the club had been running at a loss and it was pointed out by a member that in 5 years the club would be insolvent. The board made the tough decision and I think the right decisions to set the club back on the right course. This required cutting some of the things you have grown accustomed to such as donuts and fruit at the meetings. I have been a member of this club for 30 years and with these changes I hope to be a member for many years to come.

By the time you read this the new officers will have been elected and I wish them all the best of luck. As for what I will do with all my free time now that I'm a past President I would like to get more involved with the Elmer program. I will continue to participate in contests both low power and QRP. I plan to build kits and participate in QRP Fox Hunts and activate several Parks on the Air. Finally I will try to get more involved in CW training with either LICW or CW Ops clubs.

Hope to see you all soon, please stay healthy.

73,
Marty NR3Z

The K7RA Solar Update



No sunspots were observed since June 15, when the daily sunspot number was 11. This does not mean there were 11 sunspots seen, but instead it means that one sunspot group was observed containing one sunspot. The sunspot number is derived by assigning 10 points for each sunspot group, and one point for each sunspot. So, 11 is the minimum non-zero sunspot number.

On June 8, the daily sunspot number was 17, indicating 7 sunspots in one group.

If those seven sunspots had been in two groups, the sunspot number would be reported as 27.

Last week's bulletin ARLP025 reported average daily sunspot number of 7.9, and of course with no sunspots, this week that number dropped to zero.

Average daily solar flux declined from 70 to 67.7.

The sun has gone quiet again, as Spaceweather.com reported this week.

Geomagnetic indicators are still quiet, but the average planetary A index rose from 3.9 to 4.6 and the average middle latitude A index rose from 4.9 to 5.6. These values are insignificant.

Predicted solar flux for the next 45 days is 69 on June 26 through July 3, 70 on July 4-12, 68 on July 13-25, 70 on July 26 through August 8 and 68 on August 9.

Predicted planetary A index is 5 on June 26, 8 on June 27, 5 on June 28 through July 3, then 8, 5, 8 and 8 on July 4-7, 5 on July 8-30, then 8, 5, 8 and 8 again on July 31 through August 3, and 5 on August 4-9

Courtesy of the ARRL Newsletter

(Continued from page 1)

MINUTES FOR THE JUNE 4th GENERAL MEETING

Meeting held via Zoom

Call to Order - Marty NR3Z

Minutes from last Meeting

Additions/Corrections – Minutes approved as written in Feedback

Committee Reports

Treasurer's Report: *Herb KB3VMN*

As reported at the meeting

Programs: *Tony N3YNH*

July – Chris Trotter KB3CET – Civil Air Patrol

August – Battleship New Jersey

Considering doing an auction in the fall. Stay tuned for more details.

Membership: *Kathy KC3FBY*

92 paid members

Will send one more email reminder about paying dues

Public Service: *George N3HBT*

Nothing to report

Unsure of the status of the October golf outing

Classes: *George KA3WXV – not in attendance*

Nothing to report until we know when the Senior Center can open

VEC Testing: *Larry WA3ELQ*

Nothing to report

Next test session will be June 29 if we can get access to the Senior Center

_ARRL talked about allowing exams online but nothing set up to date

We have several people interested in taking their licensing exam

Repeater: *Brian N3EXA*

Repeater is working

Bad battery at township building, but currently no access to the building

We received notice that the antenna in Ivyland may have been damaged during the storm this week. Will go over and check it out.

Good and Welfare: *Ken, K9KJL*

Sent out a sympathy card this past month

Other Committees

Field Day: *Doc W3GAD, Tony W3FLH* – June 27-28. We will have an interclub competition. The ARRL has amended rules to allow 1D contacts for Field Day. For those making contacts, be sure to include Warminster ARC, in your contact info so that the club receives points for your contact. Instructions will be sent out.

Old Business

Elections – We are working on a slate of officers and have all positions fill except for the secretary. This is an important

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FOR SALE

Nine (9) aluminum military mast sections sold by the MAST COMPANY, high quality aluminum, each section about 3.75 feet once overlapped on each other for a total height of approximately 34 feet. Brand new in shipping carton. I can bring them to one of the meetings if you are interested. Contact, Bob, K3SRO at dlrwild1@verizon.net

267-535-9189 cell ASKING: \$110 cash or check

Kenwood TS-570D HF Transceiver. 10-160 meters. Automatic Antenna Tuner. SSB and CW (500hz) filters. Includes hand mic, power cord, and original box.
PS-40 Power supply for the radio.

Asking \$550.00 for both.

Marty NR3Z
Skitch@SkitchFamily.net
NR3Z@ARRL.net

position. Please consider stepping up. Reach out to Bill K3FMQ, Irwin KD3TB, or Tony W3FLH if you are interested. We will vote once we have a full slate and we are back together again. If we can complete the slate, we will do a ballot electronically.

Club Picnic – We are considering doing a club picnic on a Saturday or Sunday in September. Could be a potluck or pizza. We will send out a survey to decide. George will check on the availability of the pavilion at Warminster Community Park.

New Business

Budget –*Herb KB3VMN* presented the 2020-2021 proposed budget. We have been operating at a deficit for the past few years and we need to close the gap. Since we did not have a quorum in attendance, we will email the budget for approval.

Motion to Adjourn: meeting adjourned at 8:15pm

Program: Meghan from the Multiple Sclerosis Society

Rescued Radio Amateur Says, "Ham Radio Saved My Life"

Alden Sumner Jones IV, KC1JWR, of Bennington, Vermont, is thankful for amateur radio, after he suffered a medical incident and lost consciousness on June 15 while hiking with others along a remote section of the Long Trail, not far from his home. An EMT from Appalachian Mountain Rescue (AMR), who was hiking nearby, saw Jones pass out, but was unable to connect with 911 via his cell phone. Jones, 41, regained consciousness and was successful in contacting Ron Wonderlick, AG1W, via the Northern Berkshire Amateur Radio Club's K1FFK repeater on Mount Greylock. Wonderlick initiated what turned into an 8-hour effort to get Jones off the trail and to a medical facility, acting as a relay among Jones, emergency crews, and other agencies involved. As the *Bennington Post* [reported](#), "The Vermont State Police also received assistance from several licensed amateur radio operators who helped facilitate communications, greatly assisting in the rescue."

Matthew Sacco, KC1JPU, headed to a staging area where rescue crews were gathering. When he could not make it into the repeater, he employed some ham radio ingenuity to fashion a J-pole antenna from some window line he had on hand, casting it into a tree using a fishing pole. That did the trick. An individual on site was able to obtain an accurate location for Jones using the GPS on his

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cell phone.



After it was determined that rescuers could not reach Jones using an all-terrain vehicle, arrangements were made to have a search-and-rescue crew from New York retrieve Jones by helicopter. Amateur radio participants were able to relay critical information, including an accurate location, as preparations continued.

Jones, meanwhile, took advantage of his time with the EMT and other rescuers to talk up amateur radio and explain how to get licensed. According to one account, rescuers were having trouble making contact with the helicopter, so Jones loaned them a better antenna he happened to have.

Jones was eventually flown to a hospital in Albany, New York, again taking advantage of the occasion to promote amateur radio to the helicopter pilot and crew. Jones is said to be recovering.

"Ham radio saved my life last night, and I am very thankful for how everyone helped me," Jones said afterward.

Courtesy of the ARRL Newsletter

**A helicopter-supported litter carries Alden Sumner Jones IV, KC1JWR, to safety.
[Vermont State Police photo via the Bennington Post]**

Balloon Launched by Popular Web Show Host Completes Third Round Trip

A [balloon](#) launched on May 20 by "Amateur Radio Roundtable" web show host Tom Medlin, W5KUB, and his team has begun its third circumnavigation of Earth. The balloon, at 43,000 - 45,000 feet, completed its second trip around the globe on June 19. It crossed the Atlantic Ocean "in record time" at a speed of about 170 MPH, the balloon website reported this week.

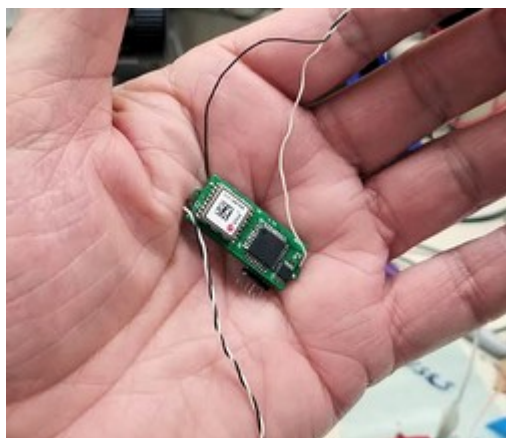
Identified as W5KUB-18, the balloon carries APRS and WSPR amateur radio payloads. By the morning of June 25, it was above China, moving at more than 100 MPH.

According to the balloon website, the mission and goal are to launch a high-altitude balloon for long-duration and multiple trips around the world. The balloon, an SBS-13, is capable of flying up to 45,000 feet. "It will be filled with hydrogen to obtain higher altitude," the website explains. "It will be solar powered only (no batteries, so it will only transmit during daylight). We will receive tracking every 10 minutes via WSPR on HF [14.0971 MHz]." Tracking transmissions will be turned off over the UK, Yemen, and North Korea due to regulations. The tracking transmitter runs just 10 mW, but it's being heard as far away as 9,000 miles, Medlin told ARRL.



"The entire tracker with GPS and processor is only 2 grams," Medlin said. "That's about the weight of a penny. The entire payload is only 15 grams total." The current effort is the group's ninth attempt to circumnavigate the globe.

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Medlin says the balloon project has broadened his horizons. "You have to do a lot of specific engineering and measurements down to the 0.1 gram to fly one," he told ARRL. "You also become a weatherman, watching all the NOAA websites, winds at different altitudes, storms, etc. Storms will bring you down," Medlin said. With the float altitude set at 44,000 feet, he expects to be able to fly above most storms. "You also become very well-versed in geography as it flies," he added.

Medlin's livestreamed "[Amateur Radio Roundtable](#)" goes live on Tuesdays at 9 PM Eastern Time and accepts calls from viewers. He has operated a live cam at Dayton Hamvention® for several years. Read [more](#).

Courtesy of the ARRL Newsletter

The YO3ICT tracker transmitter onboard the balloon: "I had to build it under a microscope," Medlin said. [Tom Medlin, W5KUB, photo]

Tennessee Court of Appeals Affirms Contempt Ruling Against Radio Amateur

A Tennessee Court of Appeals has affirmed a radio amateur's liability for a 30-day jail sentence for violating a court directive to refrain from contacting another radio amateur who had filed a temporary order of protection. The appeals court's June 11 determination upheld a lower trial court ruling that found Michael J. Mgrdichian, ex-N2FUV, of Kodak, in criminal contempt for violating the order by contacting Jamie Faucon, N3FA (ex-AA3JF) of Knoxville via ham radio on three separate occasions. Mgrdichian appealed, primarily asserting that the lower court lacked jurisdiction over the case, because amateur radio is regulated by the FCC, a federal agency.



Faucon claimed that Mgrdichian had "stalked, threatened, and harassed" her on multiple occasions between 2016 and 2019, claiming that the threats were made via ham radio after Faucon had asked Mgrdichian to cease his actions. Faucon claimed that problems between her and Mgrdichian began after she complained to the FCC, alleging that Mgrdichian was using racially abusive language on the air. That matter was not at issue in the appeals court ruling.

The trial court had issued a temporary protection order for Mgrdichian to cease contacting Faucon, "either directly or indirectly, by phone, email, messages, mail, or any other type of communication or contact."

Mgrdichian attempted to have the lower court case dismissed by arguing that state courts do not have jurisdiction over any communication involving amateur radio. The trial court maintained, however, that it did have jurisdiction based on an alleged violation of the temporary protection order.

"The [temporary restraining] order did not prohibit [Mgrdichian] from using amateur radio; it did not attempt to establish a permitted level of interference; and it did not originate from, or result in, a nuisance claim," the appeals court reasoned in its ruling. "Instead, the subject matter of this case primarily rests on [Mgrdichian] violating the [temporary restraining] order by contacting [Faucon] on amateur radio. A party's radio usage -- whether it be commercial or amateur -- does not automatically preempt the case from being heard by a state court."

The appeals court determined that the trial court had jurisdiction to find Mgrdichian in criminal contempt of court when he violated the temporary restraining order by contacting Faucon via amateur radio.

The appeals court upheld findings that Mgrdichian was in contempt of the trial court's order on three occasions, each calling for 10 days in jail and a fine.

Courtesy of the ARRL Newsletter

ARISS Establishes Itself as an Independent Organization

Going forward, the US arm of the Amateur Radio on the International Space Station International working group will be known as [ARISS-USA](#), an independent organization. ARISS serves as the intermediary to arrange contacts between schools and organizations on Earth and ISS crew members. ARISS-USA incorporated as a non-profit entity in Maryland in late May. The move will allow ARISS-USA to work independently, soliciting grants and donations. ARISS-USA will continue promoting amateur radio and science, technology, engineering, arts, and math (STEAM) goals within schools and educational organizations. ARISS-USA lead Frank Bauer, KA3HDO, noted that the scope and reach of what ARISS accomplishes has grown significantly since its modest start in 1996.

"Our working group status made it cumbersome to establish partnerships, sign agreements, and solicit grants," Bauer said. "These can only be done as an established organization."

The move toward becoming an independent organization has been discussed for quite a while, ARISS-USA said in announcing the change.

"ARISS-USA will maintain its collaborative work with ARISS International as well as with US sponsors, partners, and interest groups," the announcement said. "The main goal of ARISS-USA remains as connecting educational groups with opportunities to interact with astronauts aboard the [space station]. ARISS-USA will expand its human spaceflight opportunities with the space agencies beyond low-Earth orbit, starting with lunar opportunities including the [Lunar Gateway](#). ARISS-USA will continue to review and accept proposals for ISS contacts and expand its other educational opportunities to increase interest in space sciences and radio communications."



AMSAT President Clayton Coleman, W5PFG, said AMSAT would work with ARISS-USA to ensure a smooth transition for operations and funding. "Many of AMSAT's members are an integral part of the ARISS team," he said. "The human spaceflight element of AMSAT's vision has been realized through these contributions."

ARISS-USA can accept tax-deductible contributions via AMSAT-NA through the [ARISS website](#). Read [more](#).

Courtesy of the ARRL Newsletter

WSJT-X Version 2.2.0 is Now in General Release

WSJT-X version 2.2.0 is now in general availability release, after a short period in beta (or release candidate) status. WSJT-X version 2.2 offers 10 different protocols or modes -- FT4, FT8, JT4, JT9, JT65, QRA64, ISCAT, MSK144, WSPR, and Echo. The first six are designed for reliable contacts under weak-signal conditions, and they use nearly identical message structure and source encoding. JT65 and QRA64 were designed for EME ("moonbounce") on VHF/UHF bands, but have also proven very effective for worldwide very low-power communication on HF bands.

"FT8 is operationally similar but four times faster (15-second T/R [transmit-receive] sequences) and less sensitive by a few decibels," developer Joe Taylor, K1JT, explains in the version 2.2.0 [User Guide](#). "FT4 is faster still (7.5-second T/R sequences) and especially well suited for contesting."

Taylor noted that even with their shorter transmit-receive sequences, FT4 and FT8 are considered "slow modes," because their message frames are sent only once per transmission. "All fast modes in WSJT-X send their message frames repeatedly, as many times as will fit into the [transmit] sequence length," he explained.

Compared with FT8, FT4 is 3.5 dB less sensitive and requires 1.6 times the bandwidth, but it offers the potential for twice the contact rate.

New in WSJT-X version 2.2.0: FT8 decoding is now spread over three intervals, the first starting at 11.8 seconds into a receive sequence and typically yielding around 85% of the possible decodes. This means users see most decodes much sooner than with previous versions. A second processing step starts at 13.5 seconds, and a third at 14.7 seconds.

"Overall decoding yield on crowded bands is improved by 10% or more," Taylor said.

Other changes: Signal-to-noise (SNR) estimates no longer saturate at +20 dB, and large signals in the passband no longer cause the SNR of weaker signals to be biased low. Times written to the ALL.TXT cumulative journal file are now correct, even when decoding occurs after the T/R sequence boundary.

Courtesy of the ARRL Newsletter

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

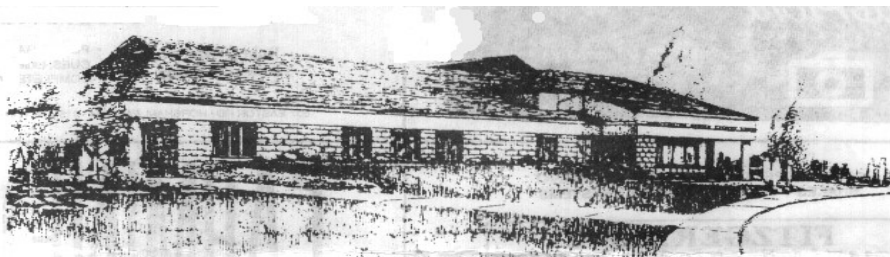
The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even 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 2020

July 2 - Field Day Review
August 6 - Chris Trotter KB3CET and the Civil Air Patrol
September 3 - TBD
October 1 - TBD
November 5 - ARRL Night
December 3 - Holiday Dinner

The Club Station - K3DN - is located at the Benjamin Wilson Senior Center, Delmont Avenue, Warminster, PA. The station is open for club members and the interested general public on the first Thursday of the month (meeting night) between the hours of 6:30 and 7:30 pm. with the exception of the December dinner meeting . The station is fully operational on HF (80 meters through 10 meters) both phone and CW. There is an assortment of amateur radio shareware which may be copied under the shareware licensing agreement.



For additional information on the Club Station please call the Station Manager N3HBT - George at 215-443-5656.

➤ WARC Meetings are held the first Thursday of each month at 7:30 pm at the Benjamin Wilson Senior Center, Delmont Avenue, Warminster, PA. Talk in is available on the 147.09 & 443.950 repeaters.

2020 Contest Calendar

July

11-12 [IARU HF World Championship](#)

1200 UTC Saturday and ending 1159 UTC Sunday

August

1-2 [222 MHz and Up Distance Contest](#)

1800 UTC Saturday and ending at 1759 UTC Sunday

15-16 [10 GHz & Up – Round 1](#)

6:00 AM local Saturday though 12:00 midnight local Sunday

16 [Rookie Roundup – RTTY](#)

1800 to 2359 UTC

September

12-14 [September VHF](#)

1800 UTC Saturday and runs through 0259 UTC Monday

19=20 [10 GHz & Up - Round 2](#)

6:00 AM local Saturday though 12:00 midnight local Sunday

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 2020 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 ➤ 2020

July 25

[CVARC Hamfest](#)

CVAEMA Show Grounds
1501 Criders Church Road
Chambersburg, PA 17201
<http://www.w3ach.org/>

August 8

[Reading Radio Club Hamfest](#)

Heritage Park
992 Clematis Street
Sinking Spring, PA
<http://www.qsl.net/w3bn/>

September 13

[Gloucester County ARC Hamfest, ARRL Southern New Jersey Section Convention](#)

Gloucester County 4-H Fairgrounds
235 Bridgeton Pike (Route 77)
Mullica Hill, NJ 08062

September 20

[EPARA HamFest](#)

American Legion Post 346
5th Street
East Stroudsburg, PA 18301
<http://www.qsl.net/n3is>

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:

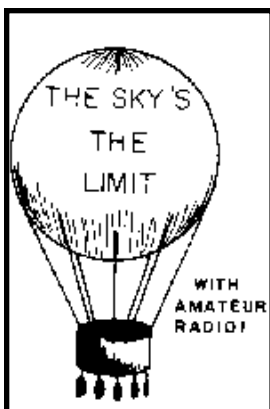
<https://www.weather.gov/phi/Info>

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 ?

2020 Officers

Executive Officers

President	Marty Squicciarini	NR3Z	215-872-9644
Vice-President	Tony Simek	N3YNH	
Secretary	Norm Miles	AB3ZZ	267-625-9117
Treasurer	Herb Hickmott	KB3VMN	267-718-3601
Director (A)	Doug Becker	KC3MNQ	
Director (E)	Larry Abbott	WA3ELQ	215-704-3282
Director (A)	Brandon Penglase	N3UO	215-259-7255
Director (E)	George Brechmann	N3HBT	215-443-5656
Past President	Tony Cuttone	W3FLH	267-679-9297

Committee Chairpersons

ARES/RACES Liason	Karl Harris	K3KH	215-264-1855
ARRL Liason	Irwin Darack	KD3TB	215-343-8170
Awards Manager	Vince Pironti	KD3TC	215-674-0446
Classes	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 20	Doc Whitticar	W3GAD	215-968-6397
Hamfest 20	Michael Shanblatt	W3MAS	267-491-5773
Hamfest 20	Tony Cuttone	W3FLH	267-679-9297
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Mary Miles	KC3KJZ	267-625-8538
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