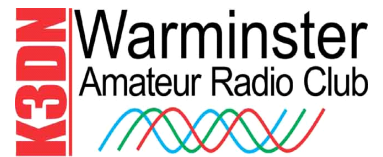




FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

October 2021

Next Meeting Oct. 7th ZOOM ONLY - Contest University w/Tim (K3LR)

PRESIDENT'S MESSAGE

With the passing of Summer into Fall, a lot of great things start to happen, especially in the Northeastern part of our country, where we are so lucky to live. The nights turn a bit cooler, calling for campfires and warm beverages, but the days still have a little warmth to them, letting us explore our history-rich region with day trips to local hot spots, or maybe an al fresco lunch with friends. Getting out into the fresh air, experiencing the sights, sounds, and smells of Eastern PA on a gorgeous autumn day, perhaps a long drive to watch as the leaves turn so many amazing hues of orange, red, brown and yellow –

Nah!! We're amateur radio operators after all, and for some of us Fall means one thing: the beginning of Contest Season! Sitting inside our shacks, chasing contacts while others chase all things pumpkin-spiced; sifting through the noise, looking for that elusive multiplier like an interior decorator rummages every nook of a new-found antique shop; sending our signals across the globe, reaching destinations that will never experience the wonders of autumn, or feel the crisp bite of an October night on their cheeks – no, those hams that can only sit in an endless cycle of tropical heat, bright sun and sandy beaches. Poor souls...

Speaking of contesting, in a pseudo-follow up to our September presentation on Intro to Contesting by Irwin KD3TB, Andy KD3RF and Bill K3FMQ, we are glad to host Tim K3LR from DXEngineering once again. This month, K3LR gives us a virtual view of advanced contesting from his world-class Multi-Multi station outside of Pittsburgh, PA. Tim's presentations are informative and entertaining, and promise to hold the interest of everyone attending as he shares his wealth of knowledge and experience with the club.

Of course, not all ham radio is contesting – far from it! As Karl K3KH brought to our attention at the last meeting, Bucks and Montgomery Counties both have an Emcomm presence, and are making strides in updating their capabilities to include some innovative tech, such as establishing MESH networks and digital nets, both of which are proving themselves to be valuable assets during a crisis. And we can't forget public service events, either. Although the past 18 months have limited the number of public gatherings that normally request our assistance, there have still been several opportunities for amateur radio to provide communications to the organizers of the events that have taken place, and WARC has stepped up and met the call, thanks to the coordination efforts of George N3HBT. October 11 will give us just such an opportunity, as we assist Warminster Township with their golf outing at 5-Ponds Golf Course. Please contact George if you are interested in helping with this event.

Well, I think that'll wrap it up for me this month. As always, enjoy your time spent with family and friends, make time for your mental well-being, and get on the air!

Tony W3FLH

73

Warminster ARC General Meeting Minutes - September 2, 2021

Meeting Called to Order 7:30pm

Attendance:

*Introductions (Hybrid meeting) with about 20 attendees on Zoom and 20 members in-person.
Those in-person made introductions.*

Minutes from last Meeting:

Modified- Under Old Business, should read Hybrid. Otherwise, approved as submitted

Committee Reports:

Treasurer's Report: Herb (KB3VMN)
As reported

(Continued from page 1)

Programs: Ray (KA3TRU)

October- Contest University w/Tim (K3LR)

Will be a virtual presentation with live and Zoom audience (Hybrid)

November- ARRL Night. *Undecided whether the presenters (Tom Abernathy and George Miller) will be virtual or live. Hybrid or Virtual-only for the audience, depending on the presenters.*

December- Possible presentation on "Historic Bucks County" presented by someone from the office of the Bucks County Recorder of Deeds.

Membership: Kathy (KC3FBY)

130 Paid Members. New member Gregory (KC3SHK)

Public Service: George (N3HBT)

Columbus Day Golf Outing at Five Ponds Golf Course.

Public Service: Dean Hedin (KC3JXT)

2) October 10- Covered Bridges Ride needs two Net Control Operators. All volunteers for the Covered Bridges ride will receive a commemorative t-shirt and lunch. For more information contact Dean (KC3JXT) at email: mowog59@gmail.com OR information can found at the Central Bucks Bicycle Club web site:

<https://www.cbbikeclub.org/covered-bridges/covered-bridges-ride>

BCARES: Karl (K3KH)

Karl wants to set up a Mesh Network gateway to connect Montco and Bucks Counties EOC's. AREDN mesh networks are valuable for public service events and public safety deployments. The ultimate objective is to have RF Links using amateur radio frequencies and Tunnel (VPN) links for training day to day operation where RF links do not exist. Karl's contribution to this effort will be a tunnel gateway for Bucks BCARES hams into the MCARMESH which provides connections to Montco sites as well as into the national AREDN network. AREDN mesh and a (VPN) tunnels are valuable because it will allow hams to become familiar with AREDN software and services.

Classes: George (KA3WXV)

Start date-Monday Sept. 13. 7:00pm to 9:00pm running eight weeks. Tech and General classes plus Elmer session. Classes will be not be taught from the book but rather answer questions from the students on the particular chapters. Bill (K3FMQ) will be assisting George with the Elmer program. George will be available during class evenings (eight) for new or existing amateurs who want to drop in with any questions or requests for help with their project(s). (Antenna and/or other issues).

VEC Testing: Larry (WA3ELQ)

*No Session in August Next session is Sept. 27- **Preregistration only. No Walk-ins accepted.***

Repeater: Brian (N3EXA)

No Report. Looking for an additional repeater inputs in the city and Montco.

Good and Welfare: Ken (K9KJL)

Nothing to report

Other Committees:

Radiosport: Irwin (KD3TB)

Tabled

Hamfest: Tony (W3FLH)

BCCC location not looking good. Waiting for a confirmation from BCCC. Other prospects not looking either. Possibly have to look into other venues maybe outdoors. Restrooms are a priority for any location.

Field Day: Doc (W3GAD)

Tabled

Old Business:

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

(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)

Tabled. All equipment and antennas are in place.

Elmer Program-
Ongoing. (See above)

Annual Club Auction/Online (Board/Andy KD3RF)
Lots of items available for future auctions. On-line or live? T/B/D

Reconvening In-person Activities:
October will be virtual presentation and live and on-line audience (Hybrid).

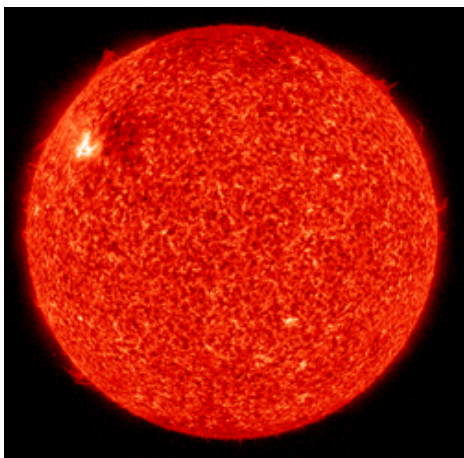
Holiday Dinner-
Decision by the board to Postpone. The meeting will probably be all virtual, no live audience.

New Business:

None

Motion Adjourned 8:25

Presentation: *Intro to Contesting w/Irwin KD3TB (virtual presenters)*

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: Sunspot activity was up over the past week, with the average daily sunspot number rising from 28.7 to 59.4, and average daily solar flux up 11.4 points to 89.8.

The noon 10.7-centimeter solar flux was 101.6 on Wednesday, September 29, the highest value since December 3, 2020, when it was 102.9.

Geomagnetic indicators were quiet, with average daily planetary A index values declining from 9.1 to 7.3, and average middle latitude A index from 8.4 to 6.3.

Predicted solar flux is 100, 105, 110, and 105 on September 30 - October 3; 95, 90, and 85 on October 4 - 6; 74 on October 7 - 9; 78 on October 10 - 12; 80 on October 13; 84, on October 14 - 15; 86 on October 16 - 17; 88 on October 18 - 22; 86 on October 23 - 25; 84 on October 26; 80 on October 27 - 29; 78 on October 30 - 31; 76 on November 1, and 74 on November 2 - 5.

Predicted planetary A index is 12, 24 and 10 on September 30 - October 2; 5 on October 3 - 9; 12 on October 10; 5 on October 11 - 17; 10, 12, 10, and 8 on October 18 - 21; 5 on October 22 - 23; 18, 15, and 12 on October 24 - 26; 5 on October 27 - 30; 8 on October 31; 12 on November 1, and 5 on November 2 - 5.

(Continued on page 4)

(Continued from page 3)

Sunspot numbers for September 23 - 29 were 75, 75, 38, 67, 30, 57, and 74, with a mean of 59.4. The 10.7-centimeter flux was 89.7, 88.4, 88.4, 86.3, 85.3, 88.9, and 101.6, with a mean of 89.8. Estimated planetary A indices were 11, 8, 7, 3, 7, 10, and 5, with a mean of 7.3. Middle latitude A index was 10, 6, 7, 2, 6, 9, and 4, with a mean of 6.3.

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

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

[Share](#) your reports and observations.

Courtesy of the ARRL Newsletter

Amateur Radio Volunteers Assist in Major US Cycling Event

Some 115 amateur radio volunteers from five states turned out on September 11 to support communication for the longest single-day US-sanctioned cycling event, [LoToJa](#), now in its 39th year. Starting in Logan, Utah, the 203-mile course ends in Jackson Hole, Wyoming -- taking cyclists through northeastern Utah, southeastern Idaho, and western Wyoming in the process. The race attracts thousands of applicants, and upward of 2,000 of them are selected to compete. Some 1,700 competed in this year's LoToJa. The event's cyclists and sponsors have contributed more than \$2 million for Huntsman Cancer Foundation. Hams from multiple ARRL-affiliated clubs in Utah, including [Golden Spike](#), [OARC](#), and [UVARC](#), participate. The group does "neutral wheel" support (which substitutes wheels and equipment in the event of a failure) as well as first aid, as needed, and provides communications from start to finish. The race deploys four command centers and multiple repeaters.

"This year's race will have 600 course volunteers, which includes 150 ham radio operators [and helpers] from the Bridgerland Amateur Radio Club. They provide uninterrupted communication throughout LoToJa's mountainous and remote terrain," Race Director Brent Chambers [told](#) the *Cache Valley Daily*.



"We take two portable repeaters to the top of mountains, and we deploy multiple APRS digipeaters," explained Kevin Reeve, N7RXE, the coordinator of amateur radio operators and communication systems for LoToJa. "All ham vehicles run APRS, and we have APRS and a radio operator with the race director and race official. Our goal is to help the cyclists, support crews, and families have a safe and enjoyable event."



Ted McArthur, AC7II, heads the communication infrastructure team for the LoToJa hams. In all, nine repeaters and several simplex frequencies are used throughout the event, and APRS plays an important role.

"With [an increased] number of mobile vehicles needed to meet a growing event, Net Control stations were spending a lot of radio time asking for position reports," McArthur said. "We needed the air time for real traffic, like helping cyclists, emergencies, and other critical traffic."

"LoToJa is such a great event for amateur radio operators to participate in," said Tyler Griffiths, N7UWX. "It is the ARES [Amateur Radio Emergency Service[®]] radio operator's dream event. We know where it starts, we know where it ends, but everything that happens in between is different from year to year."

Courtesy of the ARRL Newsletter

(Continued on page 5)

Open-Source Amateur Satellite Work Not Subject to Export Administration Regulation

CEO Michelle Thompson, W5NYV, reports that Open Research Institute ([ORI](#)) received an advisory opinion from the US Commerce Department Bureau of Industry and Security (BIS) on September 2. The letter confirmed that public internet posts regarding open-source amateur satellite communications work are not subject to Export Administration Regulation (EAR). ORI was founded in March 2018 by Bruce Perens, K6BP, in order to provide a formal structure for open-source satellite work. Prior work by ORI established that open-source amateur satellite communications work was free of International Traffic in Arms Regulations (ITAR).



“This is a significant regulatory success for open-source amateur satellite work and open source in general,” Thompson said. In a later [post](#) on the ORI site, Thompson said ITAR and EAR have had a dramatic effect on both commercial and amateur satellite work since the 1990s. “The regulations are blamed for a significant decline in US market share for satellite systems and halted highly successful international amateur collaborations,” she wrote.

Open-source work that is published as it is created and is freely available to the general public at no cost is not subject to ITAR or EAR, Thompson said.

ORI’s work was funded by ARDC, with legal assistance provided by Thomsen and Burke LLP. [All documents and links to presentations](#) about the work are available.

“Thank you to those who have supported and assisted ORI during the many stages of this successful regulatory endeavor,” Thompson said. “ORI will build upon this work to advance the aims and purposes of open-source amateur satellites.” Some ORI projects include:

[Phase 4 Ground Station](#) — Digital microwave broadband communication system for space and terrestrial amateur radio use.

[Phase 4 Space](#) — Digital microwave broadband communication system for space. 6U, GEO and interplanetary. Both Phase 4 projects rely on an open source version of DVB-S2/X and polypulse filter banks, with FDMA uplink at 5 GHz and TDM downlink at 10 GHz.

[M17 Project](#) — M17 is a new alternative digital radio protocol. Headed by Wojciech (SP5WWP) in Poland, a team of several other amateur radio operators is involved.

[Visit](#) the ORI website’s “Getting Started” page to get involved.



ORI CEO Michelle Thompson, W5NYV

Courtesy of the ARRL Newsletter

Pocket calculator inventor and home computing pioneer Sir Clive Sinclair died at his home on September 16 following a long illness.



He was 81. Sinclair may have been best known for popularizing the home computer. Leaving school at 17, he worked for 4 years as a technical journalist to fund Sinclair Radionics and created the Sinclair Spectrum and the first computer, the Sinclair ZX-81. Many modern-day titans of the games industry got their start on one of his ZX models. Back in the day, the gamer's computer of choice was either the ZX Spectrum 48K or its rival, the Commodore 64. Among his other inventions was a coin-sized radio. Despite his computer background, Sinclair declined to use the internet, email, or even computers.

Courtesy of the ARRL Newsletter

2021 Contest Calendar

October

18-22 [School Club Roundup](#)

Monday through Friday from 1300 UTC Monday through 2359 UTC Friday

30-31 [CQWW DX Contest SSB](#)

0000Z, Oct 30 to 2359Z, Oct 31

November

6-8 [Nov. Sweepstakes – CW](#)

Begins 2100 UTC Saturday and runs through 0259 UTC Monday.

20-22 [Nov. Sweepstakes – Phone](#)

Begins 2100 UTC Saturday and runs through 0259 UTC Monday.

QSO Parties

Nevada 0300Z, Oct 9 to 2100Z, Oct 10

Arizona 1500Z, Oct 9 to 0500Z, Oct 10

Pennsylvania 1600Z, Oct 9 to 0500Z, Oct 10 and 1300Z-2200Z, Oct 10

South Dakota 1800Z, Oct 9 to 1800Z, Oct 10

New York 1400Z, Oct 16 to 0200Z, Oct 17

Illinois 1700Z, Oct 17 to 0100Z, Oct 18

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 ➤ 2021

October 3 - [CARA Fest 2021](#)

Howard County Fairgrounds
221 Fairgrounds Road
West Friendship, MD 21794
<http://www.carafest.org>

October 23 - [Mason-Dixon Hamfest](#)

National Guard Armory
350 Hahn Road
Westminster, MD 21157
<http://www.k3pzn.net>

October 23 - [OktoberFest](#)

Vietnam Veteran's of America
8000 Derry St
Harrisburg, PA 17101
<http://www.w3uu.org/oktoberfest/>

CLUB INFO

PUBLIC SERVICE

The first event is the 5 Ponds hole-in-one golf outing on Columbus day Monday October 11 at 8:30 am and the second event is the 5k run for Craven hall at the Warminster Community park on Saturday, October 16 at 9:00 am. Anyone wanting to help can contact me at n3hbt@arrl.net or 215-443-5656.

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.

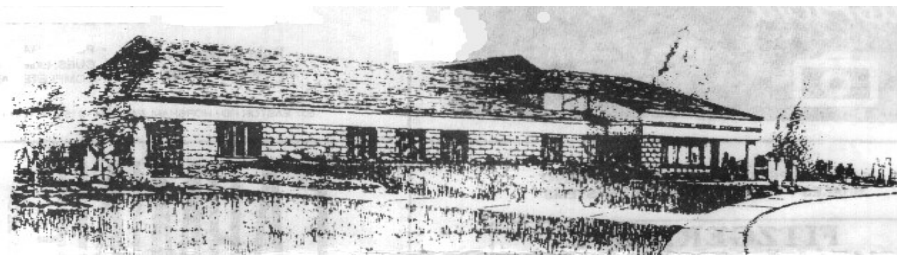
PROGRAMS 2021

October – Contest University w/Tim K3LR

November – ARRL Night

December - ?

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:

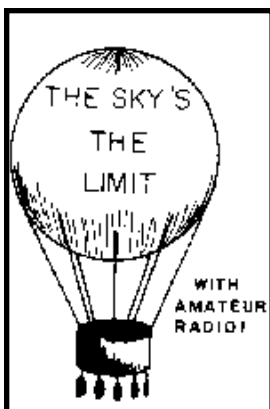
<https://www.weather.gov/phi/Info>

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	
Secretary	Dan Myers	K3NXX	
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
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



Prudential
Bank

Prudential Bank
is proud to be a
Corporate Sponsor of the
Warminster Amateur Radio Club.



Prudential's Executive office is located at
3993 Huntingdon Pike, Suite 300,
Huntingdon Valley PA 19006.

Notice of Non-Affiliation and Disclaimer: Prudential Bank is not affiliated, associated, authorized or endorsed by or in any way officially connected with The Prudential Insurance Company of America or any of its subsidiaries or affiliates.



Member
FDIC