



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

August 2018

Next Meeting August 2nd - Radio Sport (Contesting) - Andy KD3RF, Irwin KD3TB, Bill K3FMQ

President's Message

I have always been a believer of the more you put into something the more you will get out of it. I find this true in so many aspects of life, this club being one. I have learned more about this hobby by volunteering to help with something that needs to be done. This gives you the opportunity to talk and listen to members explaining how to erect an antenna, how to set up a rig, and other aspects of the hobby. You can take classes and study books all you want but these informal conversations are a wealth of information.

There are many opportunities to volunteer and interact with other club members. Hamfest and Field Day are two of the easy ones, but there is always something or someone who could use a hand. Club meetings are another option where you can give a hand. Cleaning and straightening up after a meeting and Brandon could always use a hand with hospitality are others way to help. If you see something that can be done, jump in a give a hand. When a sign-up sheet is passed around, sign-up. You will see that you can get more out of it *than you put in*. And if you're the person that doesn't think you have anything to learn, sign up anyway. Maybe you can share your knowledge with the other volunteers.

Another good program is coming our way at the August meeting. Irwin (KD3TB), Andy (KD3RF) and Bill (K3FMQ) will be presenting on Radio Sport. Radio Sport is one of the aspects of the hobby that you may or may not be into. But I am sure there will be a lot of information from some of the best contesters in the club. The presenters are all members of the Frankford Radio Club (FRC) which is one of the top contesting clubs in the country. If you ever check out the contest results in QST you will see FRC at the top of the club scores. Don't miss out on what will be another great program.

73, George, KC3ESH

FOR SALE

2009 Chrysler Town and Country mini van with 2 meter/ 440 meter mobile radio and antenna installed. 18,450 miles. \$10,500 with radio and antenna or \$10,000 without the radio and antenna.

Contact George N3HBT at 215-443-5656
or n3hbt@arrl.net.

WELZ TP05 Power Meter
Yaesu FT 60
FNB-83 Battery Packs (2)
G3 Globe Traveler Radio
YAE VX-170 Transceiver
3 ft Cable with Connectors
SD-239 Connectors
Travel Alarm Clock

Don (Byron) Rector W3UBF
Apt 2102
84 Dernstine Rd
Hatfield, PA 19440
215-723-1421
donaldirector14@yahoo.com

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Minutes WARC General Meeting July 5, 2018

Attendance:

Call to Order *George KC3ESH*

Introductions- pass mic

Thanks to Tony W3FLH and Irwin KD3TB for their service on the board

Minutes from last Meeting

Additions/Corrections – Motion made and minutes approved as written

Committee Reports

Treasurer's Report: *Herb KB3VMN*

As reported at the meeting

Programs: *Jacek KC3HXF*

August – Radio Sport w/Andy KD3RF, Irwin KD3TB, Bill K3FMQ

September – Homebrew Night

October – 'Force of 50' volunteer Phil Weber KH2EI

November – ARRL Night

December – Holiday Dinner

Jacek will like to get some suggestions for programs for 2018

Membership: *Jacek KC3HFX - Norm AB3ZZ*

1 new member, 135 active members

Public Service: *George N3HBT*

Nothing to report

Classes: *George KA3WXV/Ron WB2OOB*

Classes will begin 2nd Monday in September for Tech and General

Interest with a Boy Scout Troup attending classes

VEC Testing: *Larry WA3ELQ*

9 candidates all successful either new or upgrade

July 30 next session

No August session

July 1 started new technician question pool

Repeater: *Brian N3EXA*

Nothing new to report. All functioning

Good and Welfare: *Vince KD3TC*

Sent some cards out this past month

Be sure to send Vince an email if you know of someone who needs a card

Other Committees

Old Business

Field Day: *Doc W3GAD*

Field Day was successful considering the weather forecast. We were able to use the large pavilion which proved to be beneficial as it showed us that we will never need to cancel Field Day as long as we will be able to use the pavilion for Field Day moving forward. Thanks to everyone who came and operated, helped set up and tear down.

Ockanickon update: *Norm AB3ZZ*

Steve Larson has been unable to spend time at Ockanickon so Norm AB3ZZ has taken over as Science Center Di-

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rector. He will be taking over the management of the radio station. Station will be available for just getting the scouts on the air. Tuesdays between 3 and 4 classes will be at the station so if you are available for making contacts during that time, please listen in. He will be planning a weekend day to erect the new antenna and will be asking for volunteers to help.

Groups.io Migration: *Brandon N3UO*

Nothing to report at this time.

New Business

Standford Donation

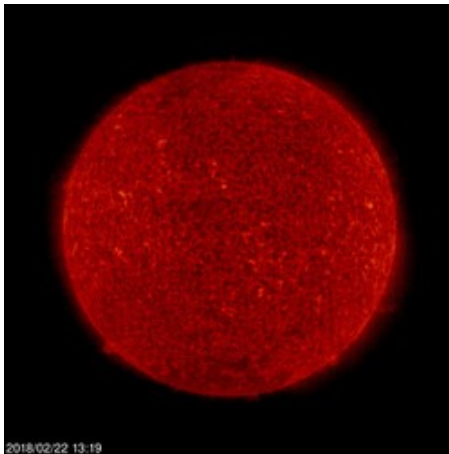
Wayne Standford W3WS donated his equipment to the club. The board voted that we would sell via auction and use the proceeds to purchase more state-of-the-art equipment that we can use for Field Day, members can borrow, remote station, etc. Stay tuned for emails regarding the auction.

Motion to Adjourn

Meeting adjourned at 7:59pm

Presentation: QSL-ing w/Tony W3FLH

The K7RA Solar Update



Tad Cook, K7RA Seattle, reports: A single small sunspot appeared on July 21, then disappeared. Before that, no sunspots had appeared since June 26. The daily sunspot number on July 21 was 11 -- the minimum non-zero sunspot number. Because there were no sunspots over the previous week, average daily sunspot numbers increased from 0 to 1.6, while average daily solar flux declined from 71.8 to 68.4.

The average daily planetary A index changed from 6.4 to 8.1, and the average daily mid-latitude A index (measured in Virginia) increased from 6.1 to 8.

Predicted solar flux is much lower than recently expected. Expected flux values (based on the September 25 prediction) are 66 on July 26 - August 1; 68 on August 2-10; 70 on August 11-18; 68 on August 19 - September 6, and 70 on September 7-8.

Predicted planetary A index is 10 on July 26-27; 8 on July 28-29; 5 on July 30 - August 11; 8 on August 12-13; 5 on August 14-15; 7, 12, 5, 10, 25, and 15 on August 16-21; 10 on August 22-23; 8 on August 24-25; 5 on August 26 - September 7, and 8 on September 8.

Sunspot numbers for July 19 - 25 were 0, 0, 11, 0, 0, 0, and 0, with a mean of 1.6. The 10.7-centimeter flux was 70.5, 70.5, 70, 68.2, 67, 66.9, and 65.8, with a mean of 68.4. Estimated planetary A indices were 4, 7, 11, 5, 4, 17, and 9, with a mean of 8.1. Estimated mid-latitude A indices were 4, 7, 10, 5, 4, 16, and 10, with a mean of 8.

<k7ra@arrl.net> your reports and observations.

Courtesy of the ARRL Newsletter

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SIGNIFICANT CHANGES IN STORE FOR FT8 AND MSK144 WITH WSJT-X VERSION 2.0

WSJT-X <https://physics.princeton.edu/pulsar/k1jt/wsjsx.html> co-developer Joe Taylor, K1JT, has announced that major changes are coming to the FT8 and MSK144 digital protocols when WSJT-X version 2.0 arrives in a few months. Taylor said version 2.0 should be ready by January.

"Much of the necessary programming is finished," Taylor said in a post to the Packrats reflector. "Many of the new features have been tested on the air, and we find them to work well."

Taylor was quick to point out that the new capabilities are not yet publicly available, not even in beta form. He said that he, Steve Franke, K9AN, and Bill Somerville, G4WJS, have been developing "enhanced versions of the MSK144 and FT8 protocols that extend the message payload to 77 bits."

"Don't rush to download something," he cautioned. "There is more testing and code optimization to do." He said current plans call for a beta-testing period "probably starting in mid-to-late September," with a full release "possible a couple of months later."

Taylor ticked off a few possibilities WSJT-X version 2.0 will bring to the table:

- ARRL Field Day operation with standard Field Day exchanges.
- ARRL RTTY Roundup operation with standard contest exchanges.
- North American VHF contest operation with full support of grid exchanges and rover (/R) call signs.
- European VHF contest operation with the exchange of six-digit grids, QSO serial numbers, and portable (/P) call signs.
- Better and more user-friendly support for compound and nonstandard call signs.
- A special "telemetry" message format for exchanging arbitrary information up to 71 bits.
- Support for the existing "FT8 DXpedition Mode," with a more powerful DXpedition Mode possible too.

"All of these features work seamlessly and automatically," Taylor said. "No 'contest mode' checkboxes are needed. In most situations, decoding sensitivity will be slightly better than at present for FT8; for MSK144 it will sometimes be about 0.5 dB worse. Occupied bandwidths will be the same as they are now, and false-decode rates will be significantly lower."

Taylor said WSJT-X version 2.0 will be available in time for users to digest the new documentation and to practice using the software before actually using it on the air, but he offered one important caveat. "The new protocols cannot be backward compatible with the existing ones," he said in his post. "We will probably provide some temporary 'bilingual' capability for FT8, but not for MSK144. It will be essential for users to upgrade to version 2.0 in order to use the new features and communicate with others who have made the upgrade."

Taylor promised "plenty of advance notice" about the transition period and a must-upgrade-by date.

Courtesy of the ARRL Newsletter

DUCIE ISLAND VP6D TEAM AWAITING ITS TURN AT BAKER ISLAND KH1/KH7Z RADIOS



Operators on the upcoming VP6D Ducie Island <https://vp6d.com/> DXpedition, set for October 20 - November 3, are looking forward to their turn at the Elecraft radio equipment used by the KH1/KH7Z Baker Island team during its just-ended DXpedition. In a recent news release, the VP6D team reported that its plans to activate Ducie Island this fall are on schedule, and the Baker Island radio gear has been returned to Elecraft for inspection, testing, and refurbishing. Members of the VP6D team will travel to California in early August to get the gear ready for shipment to New Zealand. Team member Jacky Calvo, ZL3CW, will then transfer the shipment to the M/V Braveheart, which will carry the VP6D team from New Zealand to its operating destination. Nigel Jolly, K6NRJ, is the captain of the Braveheart.

The VP6D team said it is planning to use FT8 as part of its mode mix on Ducie. "There's no question that the Baker team had considerable success with FT8," the VP6D release said. "However, a large percentage of the callers weren't prepared for the challenges of this new mode. We ask everyone to please read the FT8 DXpedition Mode User Guide <https://physics.princeton.edu/pulsar/k1jt/FT8_DXpedition_Mode.pdf>. It will be in everyone's

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best interest if callers use the most recent software version, correctly configure their equipment, call VP6D above 1,000 Hz, and call in the correct sequence."

The VP6D DXpedition intends to use Twitter and Facebook to update the DX community on its progress through regular updates. Seven operating positions are planned for 160 - 10 meters, SSB/CW/digital, including FT8.

While on Ducie Island, DXpedition team members will undertake some non-radio related activities. They will collect soil and plant specimens for study by the National Antarctic Scientific Centre of Ukraine to use in their climate change research. The Pitcairn Island government has issued a permit for the specimens to be collected and removed from the island, the news release said.

An uninhabited atoll, Ducie Island is a British Overseas Territory in the Pitcairn Islands in the South Pacific. The last Ducie Island DXpedition was VP6DX in 2008. Ducie is currently the 21st most-wanted DXCC entity, according to Club Log. It's believed that this would be the fourth DXpedition to Ducie.

Sponsored by the Perseverance DX Group (PDXG <<http://pdxg.net/>>), the VP6D Ducie Island DXpedition welcomes support <<https://vp6d.com/index.php/support/donation>> from individuals or clubs. Direct questions to Team Ducie <info@vp6d.com>.

Courtesy of the ARRL Newsletter

More Slow-Scan TV transmissions from the International Space Station are just ahead.



Russian cosmonauts on the International Space Station are expected to activate Amateur Radio Slow-Scan Television (SSTV) transmissions on 145.800 MHz FM on July 30 and 31. The SSTV experiment should be active on Monday, July 30, 1600 - 1930 UTC, and Tuesday, July 31, 1325 - 1915 UTC, using the RS0ISS call sign. SSTV images will be transmitted using the Kenwood TM-D710 transceiver in the Russian ISS Service Module. Format is expected to be PD-120. More information <<https://amsat-uk.org/beginners/iss-sstv/>> on SSTV from the ISS is on the AMSAT-UK website.

Courtesy of the ARRL Newsletter

ASTRO-HAM ALEXANDER GERST, KF50NO, JAMS WITH KRAFTWERK FOR FESTIVAL AUDIENCE



European Space Agency (ESA) Astronaut Alexander Gerst, KF50NO, had the opportunity on July 20 to sit in from space <http://blogs.esa.int/alexander-gerst/2018/07/21/good-evening-kraftwerk/> with German pioneers of electronic music, Kraftwerk. Gerst accompanied the four band members, each on synthesizers, using a tablet device equipped to serve as a mini-synthesizer as part of the Jazz Open Festival <<https://www.jazzopen.com/programm/kraftwerk.html>> held on Schlossplatz, the largest square in Stuttgart, Germany. Gerst appeared on a huge screen behind the four members of Kraftwerk.

"Never thought that the first concert I [would] ever play in is with the legendary Kraftwerk, let alone jamming live from space with them, from the 'Spacelab 2.0' Columbus directly to Stuttgart," Gerst tweeted afterward. He was in the ESA Columbus module for the event, attended by about 7,500 Earthlings, and began his part of the concert by "sneaking in" the well-known five-note melody from the film, "Close Encounters of the Third Kind." As Gerst explained, "It just fit too perfectly."

Before joining Kraftwerk for the musical portion of the occasion, Gerst, speaking in his native German, said, "I want you to come along with me...with us...on this fantastic journey." Gerst will be aboard the ISS until December.

Courtesy of the ARRL Newsletter

CLUB INFO

PUBLIC SERVICE

Warminster Parks & Recreation Golf Outing – Monday, October 8, 2018 @ 9:00 am
see George, N3HBT for more info

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

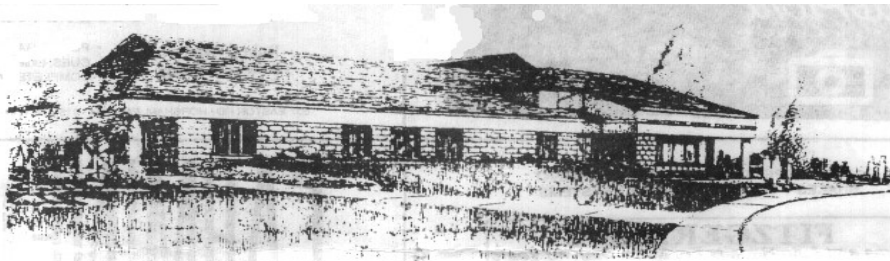
The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even 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 2018

August – Radio Sport (Contesting) – Andy KD3RF, Irwin KD3TB, Bill K3FMQ
September – Home Brew
October – 'Force of 50' volunteer Phil Weber KH2EI
November – ARRL Night
December – Holiday Party

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.

2018 Contest Calendar

August

4-5 [222 MHz and Up Distance Contest](#) 1800 UTC Saturday and ending at 1800 UTC Sunday

18-19 [10 GHz & Up – Round 1](#) 6:00 AM local Saturday though 12:00 midnight local Sunday

19 [Rookie Roundup – RTTY](#) 1800 UTC through 2359 UTC

September

8-10 [September VHF](#) 1800 UTC Saturday and runs through 0259 UTC Monday

15-16 [10 GHz & Up - Round 2](#) 6:00 AM local Saturday though 12:00 midnight local Sunday

29-30 [EME - 2.3 GHz & Up](#) 0000 UTC on Saturday through 2359 UTC Sunday

QSO Parties

Maryland-DC 1600Z, Aug 11 to 0400Z, Aug 12

Hawaii 0400Z, Aug 25 to 0400Z, Aug 26

Kansas 1400Z, Aug 25 to 0200Z, Aug 26 and 1400Z-2000Z, Aug 26

Ohio 1600Z, Aug 25 to 0400Z, Aug 26

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 2018 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 ➤ 2018

August 4 - READING RADIO CLUB HAMFEST

Heritage Park
992 Clematis Street
Sinking Spring, PA
<http://readingradioclub.org>

August 19 - JSARS HAMFEST BY THE SHORE

Riverwood Park
100 Riverwood Drive
Toms River, NJ 08753
<http://jsars.org>

September 15 - DVRA Hamfest

West Windsor Community Park
Bernt Midland Blvd.
West Windsor, NJ
<http://www.w2zq.com/>

September 15 - Southern New Jersey Section Convention

Gloucester County 4-H Fairgrounds
235 Bridgeton Pike (Route 77)
Mullica Hill, NJ 08062
<http://w2mmd.org>

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, Jacek Ostrowski KC3HXF

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 Buegers
- 147.030 Phil-Mont
- 147.090 Warminster
- 147.270 Frankford
- 147.300 BEARS
- 147.390 CBRA

220

- 224.580 PackRats
- 223.76 K3NAL

UHF

- 442.650 DVRA
- 443.250 TAG
- 443.050 Metro-Comm
- 443.950 Warminster
- 444.200 BEARS
- 447.475 WR3B
- 448.225 Penn Wireless
- 444.759 RF Hill Analog/Fusion

D-STAR

- 146.61000 K3PDR DV
- 445.18125 K3PDR DV
- 445.01875 AA3E Montco RACES

6 Mtr

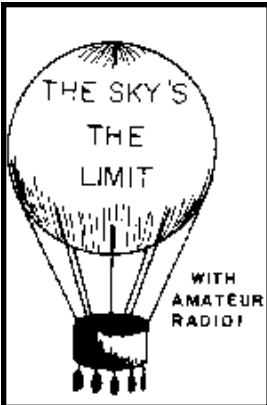
- 53.030 WA3BXW
- 53.230 N3DQZ
- 53.320 K3MFI

*The Warminster Amateur Radio Club
Announces Free Ham Radio Instructional Classes*

If you're interested in Ham Radio, or think you might be, this is your opportunity. Perhaps you'd like to learn about digital communications, Morse code, 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.

Fall session will be Tech and General beginning the second Monday in September from 7:00pm-9:00pm

For further information contact George Brechmann, N3HBT at 215-443-5656.



Bucks County Amateur Radio Emergency Service (BCARES)

www.bucksares.org

Bucks County ARES will be on the air Wednesdays, at 9:00 PM . We will be using Warminster Amateur Radio Club's repeater on 147.090, pl 131.8. This net is linked as shown in the Net Schedule box for the Wednesday night net. It may also be linked to 147.300.

Winlink Gateway Stations:

Lower Bucks NY3J-10 145.530 Bensalem

Net Schedules

Sunday	2000	10 Meter Net	28.445 MHz
Wednesday	2000	2 Meter Net	147.09 Rptr.
Wednesday	2000	Linked w/ 2 Meter Net	443.95
Rptr. Wednesday	2000	Linked w/ 2 Meter Net	53.230 Rptr.
Sunday	2030	Informal Net	223.5 Simplex
Thursday	1900	Mont. Cnty RACES Net	146.835 Rptr.

Are you submitting an article for the Feedback ?

Contributions of articles to be published are always accepted for consideration. Please follow these guidelines:

- E-Mail to:
wa4ywm@comcast.net
Or via snail mail to:
FEEDBACK EDITOR
Warminster Amateur Radio Club
Box 113
Warminster, Pa 18974
- Use both upper and lower case letters.
- Use your program's spell check.
- If you don't have a computer, then typewritten sheets are o.k. but please use both upper and lower case.
- Put your name and call at the beginning or end of the article, and show credits if you are using material from another source.
- Deadline for articles is the Saturday before the regular meeting.

For general club correspondence:
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 ?**

2018 Officers

Executive Officers

President	George Acker	KC3ESH	215-815-7783
Vice-President	Jacek Ostrowski	KC3HXF	215-343-1899
Secretary	Kathy Acker	KC3FBY	215-815-7978
Treasurer	Herb Hickmott	KB3VMN	267-718-3601
Director (A)	Michael Shanblatt	W3MAS	267-491-5773
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 18	Doc Whitticar	W3GAD	215-968-6397
Hamfest 18	Michael Shanblatt	W3MAS	267-491-5773
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Norm Miles	AB3ZZ	
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	
Station Trustee	George Brechmann	N3HBT	215-443-5656
Sunshine Club	Vince Pironti	KD3TC	215-674-0446
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