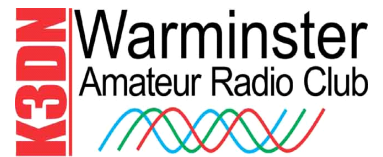




FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

March 2018

Next Meeting March 1st - CAP Comms w/Chris KB3CET

President's Message

Winter is winding down, and we've been lucky to see some Spring-like days sprinkled throughout the last few weeks. The onset of Spring means that WARC's schedule is about to get full! We have once again been tapped to host the ARRL EPA Section Convention in conjunction with our annual Hamfest, scheduled this year for Sunday, May 6. Michael W3MAS is Chairing our effort for another year, and he will be looking for contributions from everyone to help make this year's event even more successful than last. We have several interesting and prestigious speakers lined up for presentations, and expect another great crowd, so your efforts in helping staff the Hamfest are crucial to ensuring a memorable – and repeatable – experience for our fellow amateurs.

Don't forget that Spring brings everyone outside, and with that comes an increase in our Public Service endeavors. George N3HBT has already been contacted regarding several upcoming PS events, so he will start putting together the requirements and making announcements at our meetings seeking volunteers. Amateur Radio's role in lending communications to outside organizations is one of our best and most altruistic attributes as a group, and WARC has historically been available for those who request our services in that aspect. I know many of you look forward to participating in specific, or even most of these, opportunities, and your help in these activities is always appreciated.

Spring is also a good time to get a head start on our ARRL Field Day preparations. We will be activating the Shrine at Our Lady of Czestochowa in Doylestown again this year and encourage all our members to come out and take part in the action. Field Day encompasses the entire weekend (June 23 & 24 this year) and offers a great opportunity to get on the air in a relaxed version of a contest atmosphere. Hams of all operating classes are welcome, and a license is not required to operate (we will have control ops at all positions for the duration of the event), so take this chance to get outside, bring your family and friends, and introduce them to the wonders of Ham Radio! As I've stated many times before, Field Day is my favorite activity on the Amateur Radio calendar, and I'm looking forward to this year's event with great anticipation.

This month's presentation is CAP (Civil Air Patrol) Communications with Chris Trotter KB3CET, as well as the opening of nominations for our Board elections in May. Hope you can make it!

de Tony, W3FLH
73

Minutes WARC General Meeting February 1, 2018

Attendance:

- Call to Order – Tony W3FLH
- Introductions - pass mic

Minutes from last Meeting

- Additions/Corrections – Approved as written

Committee Reports

- **Treasurer's Report:** Herb KB3VMN o As reported at meeting

- **Programs:** George KC3ESH o March – CAP Comms w/Chris KB3CET
o April – Hamfest Prep; Antennas w/Joe AA3JH
o May – Hamfest Prep (final); Elections
o June – Field Day Prep; Pizza night

- **Membership:** Jacek KC3HXF o Currently 145 members (66 have renewed their dues) and 2 new applications received.

- **Public Service:** George N3HBT o Nothing on the books currently.

(Continued on page 2)

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- **Classes:** *George KA3WXV/Ron WB2OOB* o Next classes: March 12 (Tech & Extra) Tech will run approx. 6 weeks, Extra 8 weeks.
- **VEC Testing:** *Larry WA3ELQ* o Last session was Jan. 29th with one new Tech license and one upgrade to General.
o Next session: Feb. 26
- **Repeater:** *Brian N3EXA* o All working well, just underutilized.
- **Good and Welfare:** *Vince KD3TC* o Quite a few cards sent out since last meeting.

- **Other Committees**

- **Old Business** o BWSAC contract/donation (Tony W3FLH) • Contracted was finalized, signed and paid.
- A donation in the amount of \$600.00 was made to the center for 2017.

o Club member profession list (Norm AB3ZZ) • 24 members are currently on the list. Form is available on the Yahoo group or from AB3ZZ so you can be added to the list.

- o Hamfest (Michael W3MAS) • W3MAS not in attendance, W3FLH reported: • BCCC Lower Bucks Campus has been reserved
- We will again be the EPA Section Convention
- Flyers are available to be passed out.

- **New Business**

o Appointed Directors 2018 • Brandon N3UO and Michael W3MAS have been named to the Appointed Directors position for 2018.

o Nominating Committee (Bill K3FMQ) • Nominations will be opened to the General Membership at the March meeting, closed at the April Meeting and elections will be held at the May meeting.

- Nominations will be accepted for any officer position (President, Vice President, Secretary and Treasurer).
- Tony W3FLH reported that he will not be seeking reelection as President.

o Kit Building o Bill Earl K3WWE reported he is working on putting together a Handi-Finder Kit Building Session. This will be followed by a class at Tyler State Park on how to use the kit. Cost per person for the kit will be about \$50.00.

- **Motion to Adjourn**

o Meeting adjourned at 8:00

Presentation: Club Auction

HANGING A TREETOP ANTENNA WITH A DRONE

Check out this article in the March QST by our very own Mike, W3MAS and Joe, KB3ZED who was involved in the ARISS program at Council Rock South where he teaches.

HAM Radio Classes in the Spring of 2018 – Starting March 12th

Morse Code is no longer required for HAM Radio licenses

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.

Technician classes will be taught by **Ron Small, WB2OOB** starting March 12th for 6 Mondays in a row from 7 to 9 pm

Extra classes will be taught by **George Altemus, KA3WXV** starting March 12th for 8 Mondays in a row from 7 to 9 pm

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

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(Continued from page 2)

FOR SALE

Kenwood TS-570D - 160-10 meters HF radio
270Hz filter YK-88CN-1 great for CW
Also includes mic and PS-40 power supply
\$550

Drake MN-2000 Antenna Tuner 2 KW PEP
\$350

Drake R-4B \$150

Heathkit
QRP Wattmeter HM-9 \$30
Antenna Tuner HFT-9 \$30
Both for \$50

LDG QRP Auto Tuner \$40

Marty Squicciarini NR3Z
NR3Z@ARRL.Net
(201) 754-8241

Submitted by Robert Mittel-Carey <rmc0109@yahoo.com>

I thought this might be of interest to some members of the club. On Wednesday March 7th the Bucks-Mont Astronomical Association (BMAA) will have a presentation on radio astronomy by Rob Welsh, N3RW. From what I've gathered Rob has had a very interesting career; military service, astronomy research, and college professor just to list a few. He's even operated QRP, with permission, from within the National Radio Quiet Zone.

The meeting, along with all monthly meetings, is open the to public and is located at:
Upper Dublin Lutheran Church
411 Susquehanna Road
Ambler, PA
7:30 pm - 9:00 pm

If anyone has questions let me know.

--

Robert
N3RMC

NOTE FROM KAREN WHITNEY SUBMITTED BY GEORGE, N3HBT

Hello – just wanted to remind you that there are two fabulous golf outings coming up this year. Please put them on your calendar and I'll send you more info as it is released. I am wearing my Greater BucksMont Chamber and Warminster Parks & Rec hats for this one! Both events are being held at Five Ponds Golf club in Warminster and begin at 9:00 am.

Greater BucksMont Chamber Outing – Thurs., June 7, 2018 @ 9:00 am Raising funds for student scholarships for Wm. Tennent, Archbishop Wood and MBIT seniors. You can register on line for this outing now! <http://www.bucksmontchamber.com/>

Warminster Parks & Recreation – Monday, October 8, 2018 @ 9:00 am. Raising funds for our new playground and spray park. Registration to be open soon.

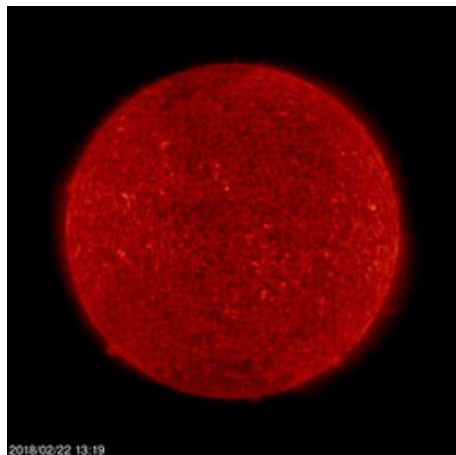
Please put these dates on your calendar and come join us for some fun!

Karen Whitney, Director
Parks and Recreation Department - Township of Warminster

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THE K7RA SOLAR UPDATE



Tad Cook, K7RA, Seattle, reports: The average daily sunspot number dropped from 24 during the previous 7 days, to 5.6 in this reporting week, February 15-21. That average is as low as it is because no sunspots have been seen since February 17, and no new sunspot regions have been observed since February 4. Average daily solar flux dropped to 70.1 in the current period from 77.4 in the previous week.

Based on the latest 45-day prediction for solar flux, I expect sunspots to reappear by March 1 or 2, when solar flux is expected to increase suddenly.

Predicted solar flux is 69 on February 22-28; 70 on March 1; 76 on March 2-12; 74 on March 13-14; 72 on March 15; 70 on March 16-25; 72 and 74 on March 26-27, and 76 on March 28-April 7.

The predicted planetary A index is 8 on February 22-27; 5 on February 28-March 3; 8 on March 4; 5 on March 5-13; 10, 8, 12, 16, 14, and 12 on March 14-19; 8 on March 20-22; 5 on March 23-30; 8 on March 31, and 5 on April 1-7.

Sunspot numbers for February 15-21 were 15, 12, 12, 0, 0, 0, and 0, with a mean of 5.6. The 10.7-centimeter flux was 72.5, 71.5, 69, 70.3, 69.1, 70.5, and 67.6, with a mean of 70.1. Estimated planetary A indices were 11, 7, 12, 14, 17, 5, and 4, with a mean of 10. Estimated mid-latitude A indices were 6, 7, 10, 14, 11, 3, and 3, with a mean of 7.7.

Send me your reports or observations.

Courtesy of the ARRL Newsletter

Ham Radio "a Special Hobby," Young ARRL Member Tells College Publication

A rising star in the Amateur Radio world -- 19-year-old Ruth Willet, KM4LAO, of Lawrenceville, Georgia -- has caught the eye of her school, Kettering University in Michigan, where she is majoring in mechanical engineering and engineering physics. Willet already has attracted attention through her ham radio activities. Last spring, she was the keynote speaker at the 32nd annual DX Dinner[®] held in conjunction with Hamvention[®], where her topic was "Experiencing the Hobby of a Lifetime." The previous summer, she was a member of the 2016 Dave Kalter Memorial Youth DX Adventure ([YDXA](#)), which operated from the island of Saba that year.



Last year, she won a *QST* Cover Plaque Award for the article she wrote about her YDXA experience. At the 30th Hamvention Youth Forum in 2017, Willet spoke on "Plugging into Your Valuable Club Resources." She is the recipient of the ARRL Rocky Mountain Division Scholarship.

Kettering University News took notice of Willet in a [February 12 article](#), "Kettering University Student Brings Ham Radio Hobby, Expertise to Campus," by Sarah Schuch. The article explains how an early fascination with Morse code led Willet into ham radio and inspired her to obtain her license in 2015. She now holds an Amateur Extra-class license.

"I would encourage people to consider exploring Amateur Radio, because it's a hobby that allows you to explore anything from technical electronics to international friendships," Willet is quoted as saying in the article. "It's such a special hobby because there's so many people that want to get to know you and want to help you learn and grow. It really has enabled me to mature into who I am today."

**Ruth Willet, KM4LAO, on the campus of
Kettering University. [Kettering University photo]**

Set to graduate in 2021, Willet said her ham radio experiences have taught her a lot, some of which she is able to apply to her stud-

(Continued on page 5)

ies, and vice versa. She hopes to start an Amateur Radio club on campus this spring to get more students interested. In the article, Willet also pointed to Amateur Radio's public service role, citing the devastating 2017 hurricanes, where ham radio sometimes was the only available communication resource.

Ruth Willet and her mom Sharon, KM4TVU, participated in ARRL's highly successful National Parks on the Air (NPOTA) event in 2016, which also was mentioned in the Kettering article.

"It's a stress relief for me," Willet said of ham radio. "I really enjoy sharing this hobby with other students."

Courtesy of the ARRL Newsletter

Postponed DXpedition to Disputed Spratlys Reset for March

An international Amateur Radio team that postponed a December 2017 DXpedition to the disputed Spratly Islands now plans, according to its website, to be on the air in early March from Layang Layang Island -- also known as Swallow Reef -- under Malaysian call sign [9M0W](#), with CW, SSB, and digital operation on 160 through 6 meters. The team, headed by Hrane Milosevic, YT1AD, had to change its plans because the resort on Layang Layang Island, from which the DXpedition will operate, was closed from December until February. In addition to its call sign, the 9M0W team has a landing permit from the Malaysian government. While the Royal Malaysian Navy maintains a presence on the reef, ownership of the Spratlys has been asserted by the People's Republic of China (PRC), Taiwan, Vietnam, and the Philippines -- in addition to Malaysia. The Spratlys are #56 on Club Log's [DXCC Most-Wanted List](#).



Courtesy of the ARRL Newsletter

A group of islands and associated "maritime features" (reefs, banks, cays, etc.) of economic and strategic importance, the Spratlys are just part of ongoing territorial disputes throughout the South China Sea, characterized by diplomatic stalemate and the employment of military pressure -- including the occupation of disputed territory -- to advance territorial claims. The Spratlys and Scarborough Reef, another rare DXCC entity, have caught the attention of news media in recent years, owing to the PRC's increasingly vocal objection to the presence of fishing vessels as well as that of American naval vessels transiting the area's busy trade routes in order to assert the right to freedom of navigation within what the US considers international waters.

The most recent DXpedition from the Spratlys took place in 2015, when the DX0P DXpedition operated in the spring of that year from Pag-asa Island, using a license issued by the Philippines.

3Y0I Bouvet Island DXpedition Revived

Peripatetic Polish DXpeditioner Dom Grzyb, 3Z9DX, and four other operators announced over the weekend that their postponed plans to mount the [3Y0I DXpedition](#) to Bouvet Island are back on. This comes as the [3Y0Z DXpedition](#) team members, who were unsuccessful earlier this month in landing on the remote South Atlantic island, are currently en route to South Africa on their way back home. According to the latest ClubLog [DXCC Most-Wanted](#) List, Bouvet is the second most-wanted DXCC entity, behind North Korea.

"Our trip, planned originally at the end of 2017, was canceled at the request of the organizers of the 3Y0Z expedition," an announcement said. "Due to the cancellation by the [3Y0Z] organizers, we are now returning to the implementation of our project and preparations for our trip as a matter of urgency."

DX-World has reported that the 3Y0I license has been renewed and a landing permit -- good for 1 year -- issued by the Norwegian Polar Institute. While no specific dates for the DXpedition have been announced, the 3Y0I team said its plans call for operating during the subantarctic summer, which suggests they could be on the air late this year.



The 3Y0I team said it has chartered a seagoing yacht adapted for extreme weather conditions to make the 12-day, 2,800-nautical mile trip from South Africa to Bouvet Island. The team anticipates operating for about 2 weeks. The participants have financed the trip out of their own pockets.

In addition to 3Z9DX, the 3Y0I operators will include Stanislaw, SQ8X; Leszek, SP3DOI; Branko, YU4DX, and Frans, J69DX.

Courtesy of the ARRL Newsletter

Foxes and Hounds -- FT8 DXpedition Mode is in the Works for *WSJT-X*

Speaking on behalf of the [WSJT-X](#) Development Team, Joe Taylor, K1JT, has issued a progress report on the team's efforts to develop FT8 DXpedition Mode. The new digital mode will include new and innovative features, which are detailed in a draft [FT8 DXpedition Mode User Guide](#), released on February 2. Taylor said the basic goal of FT8 DXpedition Mode is to enable DXpeditions to make FT8 contacts at the highest possible rates, and the *WSJT-X* Development Team has been working with members of the Baker Island KH1/KH7Z DXpedition team, ahead of its mid-summer operation, to work out the wrinkles.

"Like most major DXpeditions, this one will almost certainly make a majority of its QSOs using SSB and CW," Taylor said. "However, the group is well aware of the rapid rise of FT8 popularity, and they plan to use FT8 as well. Making FT8 QSOs with KH1/KH7Z will require the DXpedition and everyone trying to work them to use a new, yet-to-be-released version of *WSJT-X*. We have tested the new program features on the air several times, and found them to work well."



In FT8 DXpedition Mode, a DXpedition stations is the "Fox," and calling stations are "Hounds." The new mode permits contacts to be completed with as little as one Fox transmission per contact. The Fox also can transmit up to five signals simultaneously, upping the potential contact rate to 600/hour. "With expected signal levels and likely levels of QRM, sustained rates of several hundred QSOs/hour are expected to be possible," the *User Guide* asserts. The *User Guide* points out that FT8 DXpedition Mode is suitable for use *only* by legitimate DXpedition stations and by those attempting to contact them and should not be used for day-to-day FT8 operation.

"Another test run [of the new mode] will probably be scheduled in a month or so," Taylor continued, adding that others subsequently will be invited to upgrade to a "release candidate" called *WSJT-X* v1.9.0-rc1, "and to join in trying to work one or more specific 'pseudo-DXpedition' stations at a certain time and frequency." *WSJT-X* release candidate versions, identified by an -rcx suffix, are offered temporarily for beta-testing but are not suitable for long-term general use.

Taylor said he hopes the development team's approach to FT8 DXpedition Mode will continue the process of "shaking bugs out of the program" and generally improve its usability for DXpedition operators and DXers alike. -- *Thanks to Joe Taylor, K1JT*

Courtesy of the ARRL Newsletter

Dominica Post-Disaster Needs Assessment Cites Amateur Radio's Role after Maria



A post-hurricane disaster needs assessment published this past fall by the Government of Dominica points up the significance of Amateur Radio's role in the relief and recovery effort on the tiny Caribbean island nation in the wake of Hurricane Maria last September. It also calls for expanding the pool of radio amateurs on the island who could help in future disasters.

The report, [Commonwealth of Dominica Post-Disaster Needs Assessment -- Hurricane Maria, September 18, 2017](#), noted that all telecommunication services on Dominica except for Amateur Radio were disabled from September 19 to 21. Some 30 cellular sites were destroyed or severely damaged, and the fiber-optic backbone was severed in several locations, leading to a nationwide loss of connectivity, the report said. In addition to the private telecommunications networks, "an emergency communica-

tions network consisting of Amateur Radio operators is supposed to exist within the purview of the Emergency Operations Center (EOC)," the report pointed out.

The *Post-Disaster Needs Assessment* concluded that Hurricane Maria caused nearly \$931 million in damage, plus losses of more than \$380 million -- which, according to the report, amounts to 226% of Dominica's 2016 gross domestic product (GDP).

"The interruption of telecommunication services had a significant negative human impact as Dominica was almost cut off from the outside world for 3 days. Communities within Dominica were isolated from one another," said the report, which was published last November 15.

The needs assessment said that "a sparse Amateur Radio network" suffering from a lack of trained operators and back-up power, plus "a few satellite phones" delivered information "required for critical relief and rescue activities."

"The Government should rehabilitate the ECN (Emergency Communications Network) by offering training to persons interested in becoming Amateur Radio operators nationwide, with the goal of having a licensed Amateur Radio operator in every community with an emergency shelter," the report recommended.

The report also proposed that emergency shelters and the EOC be equipped with Amateur Radio and/or a satellite phone, "so that contact may be quickly established during or after a storm." The report also recommended that the government of Dominica "develop a plan for the operation and maintenance of the network long term, including replacement of equipment, training of operators and activation procedures for the network in case of an emergency."

In the short term, the *Post-Disaster Needs Assessment* advised, rehabilitation of the existing National Emergency Communications Network should include the purchase of Amateur Radio equipment, including repeaters, as well as satellite phones and "other technology required for the network."

The [Yasme Foundation](#), [Yaesu USA](#), the Foundation for Amateur International Radio Service ([FAIRS](#)), and individual [GoFundMe](#) donors joined forces last fall to restore country-wide Amateur Radio communication on Dominica in the aftermath of Hurricane Maria. Private pilots Brian Machesney, K1LI, and Dave Bridgham, N1AHF, transported a planeload of Amateur Radio gear, relief equipment, and supplies as part of an effort to better prepare the small Caribbean island nation for future disasters. -- *Thanks to Brian Machesney, K1LI*

Courtesy of the ARRL Newsletter

Canadian Radio Amateur Finds Resurrected NASA Satellite

When he's not on ham radio, Scott Tilley, VA7LF, an amateur astronomer, hunts spy satellites. Using an S-band radio from his home in Roberts Creek, British Columbia, Tilley routinely scans the skies for radio signals from classified objects orbiting Earth, according to a [recent article](#) on [Spaceweather.com](#). Earlier this month, he saw the signature of IMAGE (Imager for Magnetopause-to-Aurora Global Exploration), a NASA spacecraft believed to have died in December 2005. The [discovery](#) has delighted space scientists.

"The long gone and nearly forgotten IMAGE spacecraft has come back to life and been detected by an amateur astronomer," said Mission Manager Richard J. Burley at NASA's Goddard Space Flight Center (GSFC), which confirmed that what Tilley spotted is, indeed, IMAGE. Amateur observer Paul Marsh, M0EYT, in the UK, provided the first independent confirmation of the IMAGE signal.

NASA [said](#) on January 29 that observations from five sites were consistent with the RF characteristics expected of IMAGE.

But just to make certain beyond a shadow of a doubt, scientists at Johns Hopkins Applied Physics Lab collected telemetry from the satellite that identified the spacecraft as IMAGE. A NASA team has been able to read some basic housekeeping data from the spacecraft and will continue to analyze data from the spacecraft to learn more about its condition. This will require adapting old software and information databases to more modern systems.

After the spacecraft went silent, an unsuccessful 2007 effort was made to track IMAGE in the hope that a "long shadow encounter" would drain the battery enough to cause IMAGE to reset its control hardware. When that effort failed, the mission was declared to have ended. Space scientists now theorize that an even longer eclipse -- or other event -- did reset the system and bring the transmitter back to life.

Launched in 2000 on a mission to monitor space weather, IMAGE mapped plasma patterns around Earth, keeping tabs on the planet's magnetosphere as it responded to solar activity; on-board ultraviolet cameras shot [images](#) of Earth's auroras. "It had capabilities that no other spacecraft could match -- before or since," said Patricia Reiff, a member of the original IMAGE science team at Rice University.

Reiff said UC Berkeley still has a ground station that was used for real-time tracking and control and is scrambling to find the old software to see if they can get the spacecraft to respond.

"[IMAGE's] global-scale auroral imager would be fantastic for nowcasting space weather," Reiff said. "Fingers crossed!" -- *Thanks to Alex Schwarz, VE7DXW; Spaceweather.com; NASA*

Courtesy of the ARRL Newsletter

CLUB INFO

PUBLIC SERVICE

Golf Outings - see George, N3HBT for more info

Greater BucksMont Chamber Golf Outing – Thurs., June 7, 2018 @ 9:00 am

Warminster Parks & Recreation Golf Outing – Monday, October 8, 2018 @ 9:00 am

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

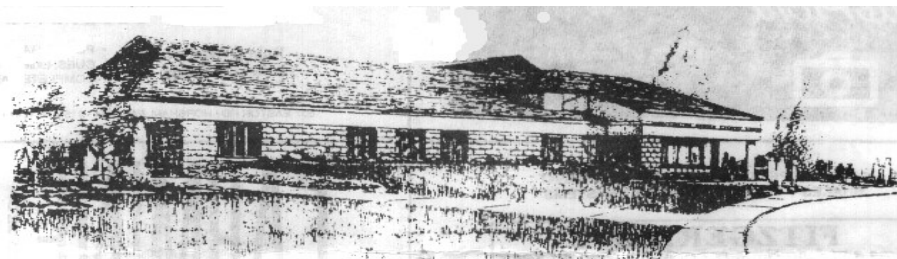
March – CAP Comms w/Chris Trotter KB3CET

April – Hamfest Prep; Antennas w/Joe AA3JH

May – Hamfest Prep (final); Elections

June – Field Day Prep; Pizza night

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

March

4-5 [International DX- Phone](#)

April

15 [Rookie Roundup - Phone](#) 1800 UTC through 2359 UTC

June

9-11 June VHF 1800 UTC Saturday, runs through 0259 UTC Monday

16 Kid's Day 1800 UTC through 2359 UTC

23-24 Field Day

QSO Parties

Vermont	0000Z, Feb 3 to 2400Z, Feb 4
Minnesota	1400Z-2400Z, Feb 3
South Carolina	1500Z, Feb 24 to 0159Z, Feb 25
North Carolina	1500Z, Feb 25 to 0059Z, Feb 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

March 24 - FredFest 2018
Independent Hose Company
310 Baughmans Lane
Frederick, MD 21701
<http://frederickarc.org>

April 22 - JSARS HAMFEST BY THE SHORE
Riverwood Park
100 Riverwood Drive
Toms River, NJ 08753
<http://jsars.org>

April 21 - Delaware State Convention (Delmarva Amateur Radio & Electronics EX-PO)
Cheer Community Center
20520 Sand Hill Road
Georgetown, DE 19947
<http://www.radioelectronicsexpo.com>

May 6 - Eastern Pennsylvania Section Convention
Bucks County Community College - Lower Bucks Campus
1304 Veteran's Highway (Rte. 413)
Bristol, PA 19007
<http://www.k3dn.org>

SKYWARN INFORMATION

MOUNT HOLLY NWSFO SKYWARN Weekly Information Net: EVERY THURSDAY AT 21:00 HOURS

SKYWARN Net Repeater Listing/ Streaming Audio of scheduled SKYWARN Net: <http://www.skywarnnet.net>

You do NOT have to be a certified SKYWARN Weather Spotter to check into the Net

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:

<http://www.erh.noaa.gov/phi/skywarn/index.html>

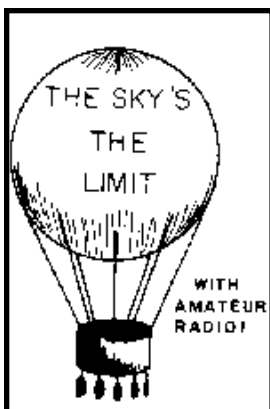
SKYWARN Basic Weather Spotter Educational Programs URL:

<http://www.erh.noaa.gov/phi/skywarn/training.html#sched>

➤ 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, George Acker KC3ESH



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.

Technician classes will be taught by **Ron Small, WB2OOB** starting March 12th for 6 Mondays in a row from 7 to 9 pm

Extra classes will be taught by **George Altemus, KA3WXV** starting March 12th for 8 Mondays in a row from 7 to 9 pm

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.

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

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	Tony Cuttone	W3FLH	267-679-9297
Vice-President	George Acker	KC3ESH	215-815-7783
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	Irwin Darack	KD3TB	215-343-8170

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	Jacek Ostrowski	KC3HFX	
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