



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

March 2016

Next Meeting March 3rd - Yahoo Groups Help

President's Message

With Winter mostly behind us, and Spring fast approaching, WARC is rolling into probably our busiest time of the year. First, it's Hamfest season, with WARC staging one of the biggest, and last, hamfests in the region. This year's Hamfest is on Sunday, May 1, and every club member is encouraged to volunteer in some capacity. There's always plenty to do with an undertaking of this scope, and all hands are welcome as we work towards making this Hamfest a success! You can find a volunteer sign-up sheet on our webpage, or you can see Mike WJ3O or any Board member at the monthly meeting. Mike did a great job as Chairman last year, and with your help will pull off another exceptional event.

Next in line is Field Day, being held this year on the weekend of June 25 & 26. K3DN will be setting up shop at the Shrine of Our Lady of Czestochowa in Doylestown, PA after cancelling last year's event due to weather concerns. Doc W3GAD is back at the helm once again, and most of the club members I've spoken with, myself included, are eager to make a good showing from EPA. Like the Hamfest, Field Day requires a great deal of effort from a great many people, and coordination of that energy into the right places at the right times is crucial. If you plan to attend, please check with Doc for the sign-up sheet, and help him get a head start on planning this yearly operation. If you've never been to Field Day, it's something every amateur operator should experience at least once; it's my favorite event of the year!

A final note: A friend of mine, Doug N3OJB, introduced me to a great Amateur Radio podcast: "100 Watts and a Wire". 100WaaW is hosted by Christian Cudnik K0STH, a former local broadcast radio on-air talent, who got his ticket in 2012. The podcast focuses on ham radio topics, from a newly licensed ham's perspective, but is a great listen for any ham. I've started to listen to a few episodes, and so far have found it to be pretty entertaining, and very well produced. The series has really taken off in the last half-year, and Christian's landed some fairly notable guests, such as renowned contester Tim Duffy K3LR, ARRL Media/PR Director Sean Kutzko KX9X, as well as Section Managers, Directors, and other ham radio notables. If you'd like to check it out, here's the link to the 100WaaW website: <http://100wattsandawire.com/>

The meeting this month is on March 3, and the topic will be focused on signing up for and using our Yahoo! Group, WARCtalk.

de Tony, W3FLH
73

Minutes of WARC Meeting Feb. 4 2016

Called to order 7:30 PM by Tony N3FLH, round of introductions

Minutes from last meeting approved

Bill K3FMQ Treasurers Report--As given

Programs Vinny K3VJP

- March--New Website K3DN.org /Yahoo Group help
- April -- Hamfest, National Parks on the air preparations
- May --Elections, Pizza night, hamfest recap
- June -- Field day prep.

Membership George KC3ESH 132 members , one application

Public Service George N3HBT - no events

Classes George KA3WXV - Technician classes begin in March , Extra Running 5 Mondays

VE testing -- Larry WA3ELQ -- 3 candidates 1 new General, 1 new extra, 1 went from entry level tech to Extra, Next VE Feb 29

(Continued on page 2)

(Continued from page 1)

Repeater -Brian N3EXA --Repeater is working

Good and Welfare --Vince KD3TC --Andy KD3RF card

Old business

WARC TALK/ Yahoo group mailman net closing Feb 15

Activation of National Parks on the Air --Irwin KD3TB -- event set for April 17

Kit building session --Tony K3FLH --interest of members in building a 10 W dummy load.

Trip to ARRL HQ, Newington CT -Tony N3FLH -- March 22 , \$55/person, 28 people expressed interest.

Hamfest - Mike WJ3O --Updates

Field Day --- Doc W3GAD Prep Location (Czestohowa) June 25 – 26

Dues Payment -- Drawing held for \$20 gift certificate, Won by Stan N3KDA

New Business

Member Badges - George KC3ESH Redesigned badge will show member picture

Appointed directors named

Board Position of Secretary is Open --filled by volunteer Alan KA3YCG, filled position in past.

Motion to Adjourn

Presentation- Club Auction -Auctioneer Dan K3NXX

Submitted,
Alan
KA3YCG

TOWER FOR SALE

Height is 60 foot crank up tilt over free standing aluminum tower with thrust bearing and ac hoist motor and base template. \$400.00. Must pick up in Warminster PA. Tower is 35 years old and will need some repair. For more information, contact George Brechmann N3HBT at 215-443-5656 or n3hbt@arrl.net.

AMSAT SEEKS VOLUNTEERS TO SUPPORT PHASE 4 "FIVE AND DIME" GROUND TERMINAL EFFORT

Established less than 1 year ago, AMSAT's all-volunteer Phase 4 Ground Terminal <http://www.amsat.org/?p=4945> team has made significant strides in developing an ensemble of solutions to support the so-called "Five and Dime" (5 GHz and 10 GHz) strategy AMSAT has embraced for microwave satellite projects. Prompting the effort is the planned launch of a geosynchronous military satellite in the 2018 time frame, which could play host to an Amateur Radio payload operating on the two microwave bands. The overarching project, which also includes a complementary Phase 4 Space team, is exploring new territory and innovative solutions, and it's seeking volunteers <http://www.amsat.org/?page_id=1096> from among the technically savvy within the Amateur Radio community.

"We're going to make it as awesome as possible," Ground Station team lead Michelle Thompson, W5NYV, told ARRL. The project not only would support the Phase 4B geosynchronous launch, but provide solutions for the Phase 3E high-Earth orbit satellite, and receiver support for AMSAT's entry into the NASA Cube Quest Challenge, which would go to the moon.

Thompson said the compelling technical reason for using 5 GHz and 10 GHz is the ability to use high-bandwidth modes on those bands. In addition, "the 5 and 10 GHz bands are popular elsewhere, and other projects are embracing this band complement," she noted. Another advantage would be to raise Amateur Radio's profile on the two bands and perhaps "shake things up" there for terrestrial use. "The 5 and 10 GHz bands are a compromise that's working really, really well," Thompson said.

(Continued on page 3)

(Continued from page 2)

The US Air Force will control the geosynchronous satellite. Virginia Tech, Millennium Space Systems (MSS <<http://www.millennium-space.com/>>), FEMA, various clubs, as well as AMSAT and ARRL are partners in, or are supporting, the project. A formal memorandum of understanding is pending.

Cognitive Radios

"We're currently exploring the Amateur Radio implementation of a very advanced and exciting open standard called DVB-S2X for the downlink," Thompson explained, noting it offers a variety of modulation and coding. Earth stations will use their individual radios, transmitting a digital signal -- probably something called Offset QPSK (O-PSK) -- directly to the satellite, with each getting its own channel in a frequency division, multiple access (FDMA) scheme.

"This is an elegant way to design an efficient and advanced communication system and allows technical volunteers to experiment with the basics of cognitive radio -- radio that can sense the environment and adapt to take full advantage of the capabilities the hardware offers," she said.

Groundsats and a "Big Honking SDR"

Phase 4 radios will be designed to work not just with the impending geosynchronous satellite but through terrestrial microwave "Groundsats," which, Thompson said, "are essentially satellite simulators that let you test and use the radio terrestrially." Phase 4 radio designs also could be configured to use modulation schemes that are better able to deal with terrestrial multipath.

Amateur Radio Access Points (ARAPs) -- essentially signal aggregators -- would allow legacy radios, FM handheld transceivers, or emergency traffic providers to use the satellite from any point where an ARAP can be deployed, packaging the input for uplink to the satellite. Hams within ARAP range would be able to use the Five and Dime terrestrial network just as if they were operating through a satellite.

"The Groundsat, which is doing the same job as the satellite payload, has a big honking SDR on it," Thompson said. Groundsat equipment has arrived and is in use in San Diego, North Texas, and at Virginia Tech, and Groundsat development is under way at those sites. A fourth site would be at Morgan State University in Maryland.

Doing It on the Cheap

The name "Five and Dime" also reflects the project's economics. AMSAT Board Member and Virginia Tech Research Professor Bob McGwier, N4HY, recently explained on the AMSAT-BB that the Ground Team's work is "an effort to design an inexpensive ground terminal for amateurs that would cost tens of thousands of dollars commercially, for as much under \$1000 as we can get it."

To volunteer for the Phase 4 Ground Team, provide your contact information on AMSAT's Engineering Team contact form <http://ww2.amsat.org/?page_id=1121>. Read more <<http://www.arrl.org/news/amsat-seeks-volunteers-to-support-phase-4-five-and-dime-ground-terminal-effort>>.

Courtesy ARRL Newsletter

EDITOR'S NOTE: I have requested and been accepted to join this effort. I would encourage anyone with any interest in satellite operations to join the effort even if you could contribute only 5 hours/week. They will need people of all levels of interest and knowledge. I intend to present updates as sort of a blog in Feedback as this progresses. Since I just signed on this week I don't know yet what I will be doing but I will let you know. It looks like a really exciting project that will involve casual ham operations, emergency comms and scientific study. Looking forward to it.

NATIONAL PARK ON THE AIR – VALLEY FORGE AND CLUB PICNIC APRIL 17

On April 17th, Warminster Amateur Radio Club – K3DN will activate Valley Forge National Historic Park (HP46) as part of the ARRL National Parks on the Air in conjunction with the Valley Forge National Historic Park Revolutionary Run. The activation and picnic will be held at Wayne's Woods site within the park. 20 Meter Activation (preferably on 14.240) from 12:00 UTC to 22:00 UTC. QSL only through LOTW.

Due to race restrictions, club members who want to assist with the set up, must enter the park by 6 am. Once the race has been completed, club members are invited to join us after 11 am. Club picnic, open to all club members and family are invited to join us for our club picnic from 1 pm to 5 pm.

Valley Forge National Park is located at: 1400 North Outer Line Drive, King of Prussia, PA 19406

Park Map to Wayne's Woods can be found at: <http://www.nps.gov/vafo/planyourvisit/directions.htm> under View Park Map.

(Continued on page 4)

(Continued from page 3)

A Signup sheet has been place on our Website (K3DN.org) at:
<http://wp.k3dn.org/npota-hp46-activation-and-club-picnic-on-17-april-2016/>

For more information, contact Irwin at KD3TB@ARRL.Net

Thanks, Irwin - KD3TB

BUS TRIP TO ARRL HQ – MARCH 22

Contact Tony N3FLH -- March 22 , \$55/person. 28 people have expressed interest.

HAM RADIO CLASSES IN MARCH 2016

Tech classes

This is an entry level license class

Classes will start March 14th, 2016 at 7:00 pm at the Ben Wilson Senior Center.

See the WARC web site for location map. <http://www.k3dn.org/> . Classes will run for **5 Mondays**.

Extra classes

This is for those HAMs studying an advanced level license.

Will start March 14th, 2016 at 7:00 pm at the Ben Wilson Senior Center.

See the WARC web site for location map. <http://www.k3dn.org/> . Classes will run for **8 Mondays**.

Classes will concentrate on the questions and answers the participants are most interested in and want to expand their understanding on.

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

K7RA SOLAR UPDATE

Tad Cook, K7RA, Seattle, reports: Over the 7 days of our reporting week (February 18-24), average daily sunspot numbers declined from 56.7 to 37.9.

Average daily solar flux was down from 107.8 to 93.9, but geomagnetic indicators were also down (generally a good thing), with the average planetary A index decreasing from 17.7 to 10.1 and the average mid-latitude A index declining from 12.6 to 7.3.

The latest prediction from the US Air Force has solar flux at 85 on February 25-26; 80 on February 27-28; 85 on February 29; 90 on March 1-2; 105 on March 3; 115 on March 4-7; 110 on March 8-9; 105 on March 10-13; 100 on March 14-15; 95 on March 16-19; 100 and 105 on March 20-21, and 110 on March 22-23. Solar flux then peaks at 115 on March 29 through April 3.

Predicted planetary A index is 8 on February 25-29; 12 on March 1; 8 on March 2-4; 5, 15, 10, and 8 on March 5-8; 5 on March 9-10; then 8, 5, and 12 on March 11-13; 30 on March 14-16; 15 and 8 on March 17-18, and 5 on March 19-21.

Sunspot numbers for February 18 through 24 were 35, 42, 46, 47, 29, 27, and 39, with a mean of 37.9. The 10.7 centimeter flux was 94.9, 94, 100, 95.6, 93.7, 91, and 87.9, with a mean of 93.9. Estimated planetary A indices were 29, 15, 6, 4, 4, 6, and 7, with a mean of 10.1. Estimated mid-latitude A indices were 20, 10, 5, 3, 3, 5, and 5, with a mean of 12.6.

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

Courtesy ARRL Newsletter

(Continued on page 5)

(Continued from page 4)

IARU PRESIDENT TOUTS AMATEUR RADIO'S RELEVANCE IN EMERGENCY COMMUNICATION

International Amateur Radio Union President Tim Ellam, VE6SH/G4HUA, says Amateur Radio is "probably more relevant today than it was 25 years ago." Ellam made the comment during an interview <https://www.youtube.com/watch?v=AeT6177b4Y0&feature=youtu.be> with Maximilian Jacobson-Gonzalez at the 2nd Global Forum on Emergency Telecommunications (GET-2016), held in late January in Kuwait and sponsored by the International Telecommunication Union (ITU). The event's slogan was "Saving lives."

"We're so dependent now on all kinds of systems of communications -- everyone has a cell phone, everyone is used to using the Internet -- but they're not used to what happens when those systems go down," Ellam said. "Amateur Radio is there. It relies on somewhat old fashioned technology, but there are also advancements in technology that we rely on."

Ellam pointed out that hams can use computer-based digital techniques to pass message traffic at very low power levels and under poor propagation conditions. "Amateur Radio has kept pace by developing new ways to communicate," he said.

Among the major challenges Amateur Radio is facing, Ellam cited the difficulty in some countries to obtain an Amateur Radio license. In addition, he said, some countries impose high duties on imported ham gear, and some make it difficult to erect appropriate antennas and support structures.

Ellam reiterated his focus on the value of the Amateur Service today when he spoke to two sessions at the GET-2016 gathering. "Amateur operators are on the ground. If they're not close to the site of a disaster, they might even be in it," he told a Leaders' Dialogue forum.

"They're there. They're ready to go. For the first 24 to 48 hours you have people on the ground, ready to assist. They own their own equipment. They don't rely on commercial networks. If cellular service goes down, we can assist by using HF or VHF or UHF communications on a peer-to-peer basis."

Ellam pointed out that, although he's not an engineer and does not work in a technical field, he knows enough to get on the air using alternate power sources and a very simple wire antenna. "Don't forget the Amateur Radio services," he implored those attending the forum. "They're a great asset to you in times of crisis."

Courtesy ARRL Newsletter

FCC SEEKS COMMENTS ON PETITION TO GRANT LIFETIME AMATEUR RADIO LICENSES

The FCC is seeking comments on a Petition for Rule Making (RM 11760 <http://apps.fcc.gov/ecfs/document/view?id=60001333714>) that asks the FCC to grant lifetime Amateur Radio licenses. Mark F. Krotz, N7MK, of Mesa, Arizona, filed his request with the FCC last November. He wants the FCC to revise § 97.25 of its rules to indicate that Amateur Radio licenses are granted for the holder's lifetime, instead of for the current 10-year term. Krotz noted that the General Radiotelephone Operator License (GROL) already is issued on a lifetime basis, and he maintained that not having to renew licenses would lighten the FCC's workload.

"It would be mutually beneficial for the FCC and Amateur Radio operators to update Part 97 to grant operator licenses for lifetime," Krotz said in his filing. "The FCC would benefit by reducing administrative costs."

In 2014, the FCC granted lifetime credit for examination elements 3 and 4, but applicants seeking relicensing under that provision still must pass examination element 2.

Individuals may submit <http://apps.fcc.gov/ecfs/proceeding/view?name=RM-11760> comments via the FCC's Electronic Comment Filing System (ECFS).

Courtesy ARRL Newsletter

CLUB INFO

PUBLIC SERVICE

April 17 - Revolutionary Run, Valley Forge Park. Guy Gibbs WA3JZN
 April 24 - March for Babies, Newtown. George Brechmann N3HBT

CLUB STATION

The WARC club station is open to anyone with an interest, on Tuesday evenings between the hours of 7:00 and 9:00 pm. 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. 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 \$5 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership when a facial photo is provided by you. Please see members' photos on club website for proper facial composition. 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 2016

March - Yahoo Groups Help

April - Hamfest Prep

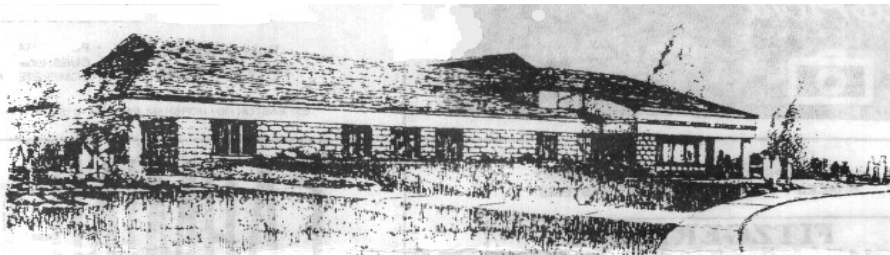
May - Elections/Hamfest Recap/Pizza Night

June - Field Day

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 non-holiday Tuesday evenings from 7 to 9 pm . 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.**



2016 Contest Calendar

MARCH

International DX – Phone

0000 UTC Saturday, March 5 through 2359 UTC Sunday, March 6

APRIL

Rookie Roundup

April 17 - 1800 UTC through 2359 UTC.

QSO Parties

Oklahoma 1400Z, Mar 12 to 0200Z, Mar 13 and 1400Z-2000Z, Mar 13

Idaho 1900Z, Mar 12 to 1900Z, Mar 13

Wisconsin 1800Z, Mar 13 to 0100Z, Mar 14

Louisiana 1400Z, Mar 19 to 0200Z, Mar 20

Virginia 1400Z, Mar 19 to 0200Z, Mar 20 and 1200Z-2400Z, Mar 20

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 2016 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, Monthly, RF Hill ARC. 3rd Monday at the Indian Valley Library. Charles Schmell, KB3CEZ, 215-257-6368 days 215-538-7458 evenings.

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 first non-holiday Tuesday 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

➤ ATLANTIC DIV. HAMFESTS ➤ 2016

March 19 - FARC Hamfest and Indoor Tailgating Expo

Independent Hose Company Social Hall

310 Baughmans Lane

Frederick, MD 21701

<http://frederickarc.org>

April 9 - York Hamfest

Elicker's Grove Park

511 Roth Church Road

Spring Grove, PA 17362

<http://www.yorkhamfest.org>

April 16 - Delaware State Convention (Delmarva AR & Electronics EXPO)

Sussex Technical High School

17099 County Seat Highway

Georgetown, DE 19947

<http://www.radioelectronicsexpo.com>

May 1 - WARC Hamfest

Middletown Grange Fairgrounds 576 Penns Park Road

Newtown, PA 18940

<http://www.k3dn.org/hamfest.htm>

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 purchased four Vertex Standard 2-meter HT's that are available for use by members of the club. The HT's 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, Vinny Porcaro K3VJP
 215-493-0783

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

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.

Technician classes Classes will start March 14th, 2016 at 7:00 pm at the Ben Wilson Senior Center. Classes will run for **5 Mondays.**

Extra classes Will start March 14th, 2016 at 7:00 pm at the Ben Wilson Senior Center. Classes will run for **8 Mondays.**

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
 Montco W3CF-10 145.950 Hatfield

Net Schedules

Sunday	2100	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 Family Member:
\$ 10.00
Student: \$ 10.00
Alumni: \$ 10.00

- **Are your dues current ?**

2016 Officers

Executive Officers

President	Tony Cuttone	W3FLH	267-679-9297
Vice-President	Vinny Porcaro	K3VJP	215-493-0783
Secretary	Alan Ash	KA3YCG	
Treasurer	Bill Ballantine	K3FMQ	215-766-0764
Director (A)	Michael Shanblatt	W3MAS	267-491-5773
Director (E)	Larry Abbott	WA3ELQ	215-704-3282
Director (A)	Jim Elmore	WA4YWM	215-538-1889
Director (E)	George Brechmann	N3HBT	215-443-5656
Past President	Irwin Darack	KD3TB	215-343-8170

Committee Chairpersons

Archives			
ARES/RACES Liason	Karl Harris	K3KH	215-264-1855
Arrl Liason	Richard Luce	AG3L	215-441-8264
Awards Manager	Vince Pironti	KD3TC	215-674-0446
Classes	George Altemus	KA3WXV	215-855-3856
Digital and APRS	Ron Wenig	NY3J	215-638-9257
DXpedition	Doc Whitticar	W3GAD	215-968-6397
Feedback Editor	Jim Elmore	WA4YWM	215-538-1889
Field Day 16			
Fundraising	Adam Huffnagle	KB3JCP	215-442-9526
Hamfest 16	Mike Karabin	WJ3O	215-317-4029
Hamwear	Herb Hickmott	KB3VMN	267-718-3601
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	George Acker	KC3ESH	215-815-7783
Net Manager	George Brechmann	N3HBT	215-443-5656
Publicity	Bernice Kraut	KB3PCX	215-884-8195
Refreshments	Brandon Penglase	KC3DYT	
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	Vinny Porcaro	K3VJP	215-493-0783
Skywarn Liason			
Station Trustee	George Brechmann	N3HBT	215-443-5656
Sunshine Club	Vince Pironti	KD3TC	215-674-0446
Township Liason	Richard Luce	AG3L	215-441-8264
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