



# FEEDBACK



Web Site [k3dn.org](http://k3dn.org)

Warminster Amateur Radio Club

December 2016

## Next Meeting December 1st - Holiday Dinner

### President's Message

The Holiday Season is upon us, so this is a good time to reflect on the past year and the things we are thankful for. Of course, our families and our health are always the things that top our lists, and well they should. As hams, we can be grateful for our significant others that understand our passion for the hobby, and in some cases share it! We can be also be thankful for the people that continuously fight for our cause, be it frequency allocations (new and old), our ability to install antennas, or keeping the airwaves free from unnecessary interference, they spend countless hours making sure that Amateur Radio maintains it's presence in the spectrum.

As a club, we can be thankful for the members that volunteer their time to organize the multitude of activities and public service events that WARC takes part in every year - without them, the club wouldn't be nearly as interesting or or active as it is! And let us also thank the huge influx of new members over the past year or so, many of whom jumped right in with contributions both large and small, that brought new spirit to the club and will allow us to continue to grow in size and scope, sharing their interests in ham radio and learning from the elder statesmen the things that make this hobby universally appealing.

So, as we head into this festive time of year, remember to think of the positive people and situations in our lives, to be respectful of those we encounter on the air and off, and to share your good will and enthusiasm with all you meet.

Happy Holidays and Good DX!  
Tony W3FLH

### WARC General Membership Meeting Minutes November 3, 2016

#### **Attendance:**

**Call to Order** – Tony W3FLH 7:35pm

**Introductions** – Pass the mic

**Minutes from last Board Meeting**

Additions/Corrections – Minutes approved with no additions/corrections

#### **Committee Reports**

**Treasurer's Report:** Bill K3FMQ – As reported at the meeting

**Programs:** Vinny K3VJP – not in attendance

December – Holiday Dinner – PayPal link is on the website this weekend; see Kathy KC3FBY if paying by cash or check. \$13.00 for adults, \$7.00 for children.

January – Elmer Q&A/Stump the Chumps as well as a new member night

February – Club Auction Night

March – QSL Card Presentation by Tom Mills AF4NC

**Membership:** George KC3ESH

Membership Update – 153 members

Dues are due. See George KC3SEH if you are not using PayPal

If you are a new member joining from now until December 31, your dues will cover you through December 31,

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2017.

**Public Service:** *George N3HBT*

No public service events for the year

*Drex W3ICC* reported on and thanked those for their service for the October 23 Covered Bridge Run. There were 1800 cyclists.

**Classes:** *George KA3WXV*

Tech classes have ended. 4 passed their tech, 2 are preparing to take the test.

General classes have ended as well.

Classes will start back up in the spring for Tech, General and Extra.

**VEC Testing:** *Larry WA3ELQ – not in attendance George N3HBT reported*

Last test session was held this past Monday evening, October 31

2 successful candidates, 1 tech & 1 general

November session is November 28

December session is December 26

**Repeater:** *Brian N3EXA not in attendance*

Repeater working

No news on the relocation

**Good and Welfare:** *Vince KD3TC*

Card going around for Vinnie

**Other Committees**

**Old Business**

Ben Wilson Senior Center Donation - We received a letter thanking us for our donation of the patio furniture.

New Member Night – January Meeting Andy KD3RF – We will be inviting several new members and some older members to a discussion about what brought them to join our club and what we can do to keep them coming.

Union League Special Event – Spring 2017 – Doc KA3RAU we have received approval for this special event. More details will be forthcoming. We will need someone to chair this event. If interested, please see one of the board members.

**New Business**

We received a letter from a former member's estate that there is equipment available for sale. See Tony W3FLH has the list of equipment, see him if interested.

**Motion to Adjourn**

Meeting adjourned at 8:00pm

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### National Geographic Channel Ham Radio Guide Supports Before MARS Prequel

The National Geographic has produced [A Guide to Ham Radio](#) to support its recently released digital short, [Before MARS](#) — a prequel to its *MARS* series. The 33-minute prequel, which has a heavy Amateur Radio theme, provides the back story of two principal characters in the upcoming *MARS* global event series.

In the prequel, twin teenaged sisters Hana and Joon Seung are the new kids in town, after their single mother relocates. In due course, they come across old ham radio transceivers — one in an attic, the other in a thrift shop — and use them to communicate with each other and with an older, local ham.

Tuning about, Hana — whose character gets most of the attention — hears an astronaut on the International Space Station (ISS) on her radio and eventually makes contact, as Amateur Radio on the International Space Station ([ARRL](#)) program participants do. In a touch of realism, the female astronaut uses the NAISS call sign.

The Amateur Radio researcher on the film was veteran electrical engineer Michael Gilmer, N2MG, who said the producers contacted him through his connection with the eHam.net website. Patrick J. Kiger authored the guide.

Gilmer concedes that the depictions of Amateur Radio in the production take a few liberties, although he believes that non-hams will likely overlook these and focus instead on the story arc of self-discovery and relationships within a theme of young women becoming interested in science and scientific careers.

The sisters' exposure to ham radio helps to inspire them to pursue careers in space exploration, become astronauts, and take part in a 2033 mission to Mars. *MARS* will combine documentary sequences about real-life efforts to travel to and colonize Mars.

*Courtesy of the ARRL Newsletter*

### Forum Explaining How Ham Radio Clubs Can Obtain Tax-Exempt Status Now Available

A [video](#) of the presentation by Certified Public Accountant Lynn Baxter, W0LTB, at the New England Amateur Radio Festival ([NEAR-Fest](#)) in October is now available online.

Most radio clubs are set up as non-profit corporations, but this does not mean that they are tax exempt under section 501(c)(3) of the Internal Revenue Service (IRS) tax code. Some changes that took place in 2014 simplified the process for smaller organizations with less than \$50,000 in annual gross revenues and reduced the amount of red tape.

In the presentation, Baxter explains how clubs and non-profits can attain 501(c)(3) status under the new rules and how to file a simple online annual report to maintain that status, which, under some circumstances, would allow Amateur Radio clubs to accept donations and issue receipts for tax purposes, as well as enjoy other benefits. — *Thanks to Mike Crestohl, WIRC*

*Courtesy of the ARRL Newsletter*

### THE K7RA SOLAR UPDATE

Tad Cook, K7RA, Seattle, reports: Solar flux and sunspot numbers went in opposite directions over the past week, and differences were more extreme than usual. Typically, we expect daily sunspot numbers to track solar flux, and geomagnetic indices to track as well -- at least approximately.

Average daily sunspot numbers over the November 10-16 reporting week rose 10 points from 18.7 to 28.7 from the previous reporting week, while average daily solar flux *dropped* from 76.9 to 45.8 over the same period.

Over the same dates, the average planetary A index increased from 6.4 to 12.7, while the mid-latitude A index rose from 4.3 to 10.1.

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Predicted solar flux values for the near future are 83 on November 17-18; 82 on November 19; 83 on November 20-21; 80 on November 22-23; 75 on November 24; 78 on November 25-26; 80 on November 27; 82 on November 28-December 1; 84 on December 2; 82 on December 3-7; 80 on December 8-9; 78 on December 10; 75 on December 11-15; 77 on December 16, and 75 on December 17-21.

The predicted planetary A index is 5 on November 17-18; 14, 18, 48, 36, and 28 on November 19-22; 28, 18, 25, 18, 12, 10, and 8 on November 23-29; 5 on November 30-December 6; 15, 12, 18, 20, 15, and 10 on December 7-12; 5 on December 13-15; 10, 15, 55, 45, and 25 on December 16-20, and 25, 18, 12, and 10 on December 21-24.

Sunspot numbers for November 10 through 16 were 13, 26, 51, 38, 26, 29, and 18, with a mean of 28.7. The 10.7 centimeter flux was 80.2, 78.4, 78.4, 77.8, 77.3, 76.5, and 80.9, with a mean of 45.8. Estimated planetary A indices were 14, 13, 19, 21, 11, 7, and 4, with a mean of 12.7. Estimated mid-latitude A indices were 11, 10, 13, 19, 8, 7, and 3, with a mean of 10.1.

[Spaceweather.com](http://Spaceweather.com) reports the solar cycle is currently at its lowest level in 5 years.

*Courtesy of the ARRL Newsletter*

### **ARRL Calls on Members to Press for US Senate Passage of Amateur Radio Parity Act**

ARRL once again is calling on its members to urge their US Senators to support the Amateur Radio Parity Act ([H.R. 1301](#)) when it comes up in the Senate during the “lame duck” session of Congress that adjourns in mid-December. The House of Representatives approved the bill in September, but if the Senate does not follow suit, the bill will die, and the entire process will have to be repeated. ARRL Hudson Division Director Mike Lisenco, N2YBB, who chairs the ARRL Board’s Legislative Advocacy Committee and has been heavily involved in efforts to move H.R. 1301 forward, said today, “The clock is ticking!”

“We begin the e-mail campaign once again, as the US Senate returns to work this week after a month-long hiatus,” Lisenco said. “We were just beginning to build momentum in the Senate following the unanimous passage of the Parity Act in the House when Congress shut down for the 4 weeks prior to Election Day.”

The task is simple: Go to our [Rally Congress](#) page, enter your ZIP code, fill in your name and address, press enter, and e-mails will go directly to your Senators. Members may do this, even if they have already contacted their US Senators for support.

“We have to remind our legislators that we are still here and that we need the Amateur Radio Parity Act to become law,” Lisenco stressed. “We must do this now as we have, at most, only 4 weeks left in the session to get the bill passed this year. Otherwise, we will have to begin the entire process in 2017 with a new 115th Congress.”

There are no guarantees, Lisenco said, and we are subject to the political bickering that goes on daily between the parties, despite the fact that the bill is truly a bipartisan effort. “In order to have a chance at overcoming political obstacles that have little or nothing to do with the legislation, we need our voices to be heard,” he said. “And we need that input today!”

September’s victory in the US House was the culmination of many years of effort on ARRL’s part to gain legislation that would enable radio amateurs living in deed-restricted communities to erect efficient outdoor antennas that support Amateur Radio communication. The measure calls on the FCC to amend its Part 97 rules “to prohibit the application to amateur stations of certain private land-use restrictions, and for other purposes.” While similar bills in past years gained some traction on Capitol Hill, it was not until the overwhelming grassroots support from the Amateur Radio community for H.R. 1301, and ARRL’s relentless and strident efforts on Capitol Hill that this bill made it this far.

As the [amended bill](#) provides, “Community associations should fairly administer private land-use regulations in the interest of their communities, while nevertheless permitting the installation and maintenance of effective outdoor Amateur Radio antennas. There exist antenna designs and installations that can be consistent with the aesthetics and physical characteristics of land and structures in community associations while accommodating communications in the Amateur Radio services.”

*Courtesy of the ARRL Newsletter*

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### **Two Arrested in Georgia for Planning to Attack HAARP Facility in Alaska**

Authorities in Georgia recently arrested two men who said they were planning to attack the High Frequency Active Auroral Research Program (HAARP) facility near Gakona, Alaska. Michael Vickers, a detective with the Coffee County Sheriff's Office, [told Alaska Dispatch News](#) that the pair explained to authorities "that God told them to go and blow this machine up that kept souls, so souls could be released."

"Yes, that news caused a bit of a stir," said Chris Fallen, KL3WX, a faculty member at the University of Alaska-Fairbanks (UAF), which now operates the HAARP facility. "I can also confirm that no souls are stored at HAARP."

Long of interest to the Amateur Radio community as well as a target of various mind and weather-control conspiracies, HAARP is now operated as an ionospheric research facility by the UAF, which took it over last year from the US Air Force.

Police also seized a "massive" arsenal of weapons the individuals had apparently planned to use in attacking the remote facility. According to a WALB [TV news account](#), investigators discovered the plot after they began looking into possible drug sales by one of the men. A local gun shop also alerted authorities that the same individual was attempting to buy a large number of weapons. The two men, who face domestic terrorism charges, also were charged with selling drugs, and they could face other charges.

UAF spokesperson Marmian Grimes told *Alaska Dispatch News* that HAARP has been the target of previous threats, and she thanked the Georgia authorities for heading off this one. At an August open house at HAARP, Sue Mitchell of UAF's Geophysical Institute said they hoped, among other things, "to show people that [HAARP] is not capable of mind control and not capable of weather control and all the other things it's been accused of."

Opened in 1960, HAARP is capable of generating extremely high-power signals in the HF range, aimed at the ionosphere. It has run listening tests in the past for the Amateur Radio community. — *Thanks to [Alaska Dispatch News](#) and other media*

*Courtesy of the ARRL Newsletter*

### **RSGB Criticizes TV Broadcast Portraying Radio Amateur as "Nightmare Neighbour"**

The Radio Society of Great Britain (RSGB) has [weighed in](#) following the airing of a Channel 5 TV *Nightmare Neighbour Next Door* [episode](#) [the program may have been removed from the website — *Ed.*] that featured an Amateur Radio operator. In the program, neighbors of 75-year-old Armando Martins, M0PAM, of Kent, made unsubstantiated claims that RF radiating from his 30-foot vertical antenna was detrimental to their health.

"Unfortunately, the RSGB was not invited to be part of Channel 5's *Nightmare Neighbour Next Door* programme or to verify any facts," the RSGB said. "We have, of course, contacted Channel 5 about our concerns and have highlighted the positive aspects of Amateur Radio. We have also offered our expertise and input for future programmes where Amateur Radio is mentioned."

Channel 5 broadcast the offending episode on October 27, and it drew criticism from radio amateurs across the UK, some of whom may have used a program complaint service form provided by telecommunications regulator Ofcom. Critics complained that the program was replete with false claims and note that Ofcom has never found any problems with Martins' station.

Martins, a veteran radio amateur, was put off the air in 2010 by the Canterbury City Council after moving into a council house — a form of public housing — and was not allowed to install his antenna in the back garden, although that was more of a zoning issue. He subsequently moved to Kent, where the health claims began.

A radio amateur for more than 60 years, Martins was first licensed as CR6IL in Portuguese West Africa (Angola). "Our volunteers spend a lot of time helping radio amateurs with planning applications," the RSGB said. "It is by putting forward facts during those processes that we can help to dispel myths about Amateur Radio and any impact on the public or environment." The RSGB said it would let its members know if it receives a response from Channel 5.

*Courtesy of the ARRL Newsletter*

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## Amateur Radio "Uniquely Situated" to be at Leading Edge Again, Conferees Told

The dawn of so-called "smart" -- or cognitive -- radio has presented Amateur Radio with an opportunity to regain the leading edge in radio technology in the near future. It will also alter our view of spectrum as a limited resource. Those points and others were part of a forward-looking, tag-team Sunday Seminar presentation, "Spectrum (It's the frequency crunch for real)," by Michelle Thompson, W5NYV, and Bob McGwier, N4HY, at the 2016 ARRL and TAPR Digital Communications Conference (DCC), September 16-18 in St. Petersburg, Florida. Thompson heads the AMSAT Ground Terminal Team, a component of the Phase 4B geosynchronous satellite project. McGwier is chief scientist at the Hume Center for National Security and Technology at Virginia Tech. This week, *HamRadioNow* made the entire 3-hour presentation available as part of its conference coverage: [HamRadioNow Episode 276 Parts 1, 2, and 3](#).

"If you put the smarts in the radio, what can possibly go wrong?" quipped Thompson, pointing to an example that demonstrated how sufficiently complicated technology is also more likely to fail.



**Michelle Thompson, W5NYV, at the ARRL and TAPR Digital Communications Conference. [Photo courtesy of *HamRadioNow*]**

are uniquely situated to be the leading edge in radio again."

McGwier said the innovation needed in Amateur Radio will come about through what he called "Amateur Radio freedom," that encourages experimentation and thinking outside the box. "It's the ultimate democratic assignment of frequencies in the world," he said.

He painted a picture of intelligent radio technology that will operate like the human brain. "It's going to design the radio on the fly, from scratch, without a subject-matter expert involved," he said. "The radio will be done by artificial intelligence, from beginning to end. The object becomes not the radio, but the activity it allows."

Responding to a question, McGwier conceded that today's hams may balk at this sort of paradigm shift, since it's far removed from how most Amateur Radio communication takes place today. But he said embracing smart radio technology is what will attract a younger generation of new hams.

"We need to not limit what these kids can do with Amateur Radio," he maintained. "They are going to outdo us, if we only allow them. We can't limit them, because this is a fundamental paradigm shift."

Predicted McGwier: "You will not recognize your world in 10 years." The *HamRadioNow* presentation also is available in [audio](#) format, and a highly condensed 11-minute [synopsis](#) is available on YouTube. -- *Thanks to Gary Pearce, KN4AQ/HamRadioNow*

*Courtesy of the ARRL Newsletter*

Thompson said cognitive radio technology will alter the paradigm of treating spectrum as if it were land. "Spectrum is immediately reusable," she said, "and land is not." Regulation and spectrum allocation have been necessary to manage interference among services, but smart radios can avoid collisions among users, she said.

"[I]t hasn't been until fairly recently that we've been able to inexpensively and quickly reconfigure a radio," she said. Thompson's Phase 4B project will take maximum advantage of cognitive radio technology, which can -- among other things -- determine an optimal clear frequency, mode, and path on the fly, transparently, and without human intervention.

McGwier called the computer "the tidal wave that has swept over Amateur Radio." And, he predicted, "It is going to bring us back to becoming technical innovators." He said radio amateurs "are



**Bob McGwier, N4HY, at the ARRL and TAPR DCC. [Courtesy of *HamRadioNow*]**

## CLUB INFO

### PUBLIC SERVICE

#### 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 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 \$5 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](mailto:membership@k3dn.org).

If you want to have your picture taken to be placed on the 'Members' Photos' section of the [www.k3dn.org](http://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 - 2017

**December** - Holiday Dinner

**January** - Q&A / Stump the Chumps

**February** - Club Auction

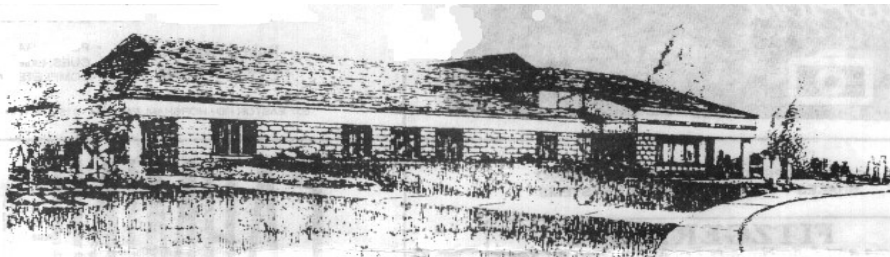
**March** - QSL card Presentation Tom Mills AF4NC

**April** - Hamfest

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 - 2017 Contest Calendar

#### DECEMBER

**160 Meter CW** - December 2-4

Starts 2200 UTC Friday, ends 1600 UTC Sunday

**10 Meter** - December 10-11

Starts 0000 UTC Saturday; runs through 2359 UTC Sunday

**Rookie Roundup CW** - December 18

Starts 1800 UTC through 2359 UTC

#### JANUARY

**Kids Day** - January 7

Starts 1800 UTC through 2359 UTC

**RTTY Roundup** - January 7-8

Starts 1800 UTC Saturday, ends 2400 UTC Sunday

**January VHF** - January 21 - 23

Starts 1900 UTC Saturday, ends 0359 UTC Monday

#### FEBRUARY

**School Club Roundup** - February 13 - 17

Monday through Friday from 1300 UTC Monday through 2359 UTC Friday

**International DX - CW** - February 17-18

Starts 0000 UTC Saturday; ends 2359 UTC Sunday

### V.E. TEST LOCATIONS

Confirm all information, in advance, with the contact person. Licensed applicants must bring the original, and one photocopy of their license. All applicants, including children, must bring two forms of positive ID. Also bring the original, and a copy, of any Certificate of Successful Completion needed to prove current status. The ARRL VEC'S 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**, 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](mailto: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](mailto: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](mailto:w3pa@arrl.net)  
Alt Contact: Jim, 610-287-5630

### ➤ ATLANTIC DIV. HAMFESTS ➤ 2016 - 2017

**December 10** - SantaFest  
American Legion Youth Camp  
9201 Surratts Road  
Cheltenham, MD 20623

**January 21** - Harrisburg Radio Amateurs Club Winterfest  
Vietnam Veterans of America  
8000 Derry Street  
Harrisburg, PA 17101  
<http://www.w3uu.org>

**January 29** - MMARC Post Holiday Hamfest  
Odenton Volunteer Fire Company  
1425 Annapolis Road  
Odenton, MD 21113  
<https://sites.google.com/site/marylandmobileers/hamfests-1/hamfest-2> <https://sites.google.com/site/marylandmobileers/hamfests-1/hamfest-2>

**April 22** - Delaware State Convention (Delmarva Amateur Radio and Electronics EXPO)  
Cheer Center  
20520 Sand Hill Road  
Georgetown, DE 19947  
<http://www.radioelectronicsexpo.com>



**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, 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
- 444.759 RF Hill Analog/ Fusion

**D-STAR**

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

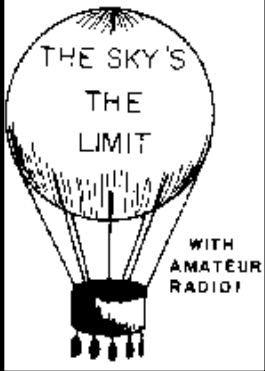
**6 Mtr**

- 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.

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



**Bucks County Amateur Radio Emergency Service (BCARES)**

[www.bucksares.org](http://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          | 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 FamilyMember: \$ 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      | Kathy Acker       | KC3FBY | 215-815-7978 |
| 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

|                      |                  |        |              |
|----------------------|------------------|--------|--------------|
| ARES/RACES Liason    | Karl Harris      | K3KH   | 215-264-1855 |
| Arll 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 |
| Feedback Editor      | Jim Elmore       | WA4YWM | 215-538-1889 |
| Field Day 17         | Doc Whitticar    | W3GAD  | 215-968-6397 |
| Hamfest 17           | Mike Karabin     | WJ3O   | 215-317-4029 |
| Hamwear              | Kathy Acker      | KC3FBY | 215-815-7978 |
| 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 | 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       | Vinny Porcaro    | K3VJP  | 215-493-0783 |
| 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 |